



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 600 to 49W900 blocks of IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088208251 Longitude: -88.585716238

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088208251 Longitude: -88.585716238

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS AL2-2 THROUGH AL2-13 AND AL2-14 THROUGH AL2-19 WERE SAMPLED ADJACENT TO ISGS SITE No. 2780-2. SEE FIGURES 3-1 AND 3-2 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28244, MC28244A, MC28245, AND MC28270

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

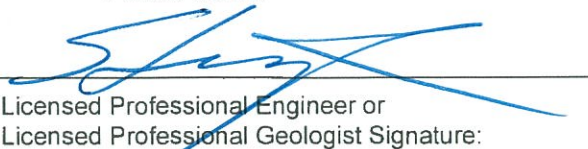
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

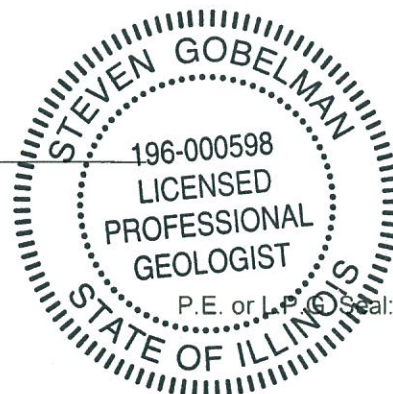
Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14

Date:



Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-2(0.5-1.5)-021114	AL2-3(0-1.5)-021114	AL2-4(0.5-1.5)-021114	AL2-5(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL2-2	AL2-3	AL2-4	AL2-5	
Depth	0.5 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.2	8.2	8.4	8.3	<6.25,>9.0
VOCs (ug/kg)					
Acetone	23.8 J	53.3	30.3 J	209	25000
Benzene	1.6	1.5	1.6	2.8	30
Carbon disulfide	1.9 J	ND	0.64 J	2.3 J	9000
Ethylbenzene	0.96 J	1 J	1.3 J	2.3 J	13000
Methyl ethyl ketone	ND	ND	ND	51.8	17000
Methylene chloride	ND	3.1	ND	6.7	20
Toluene	2.3 J	2.6 J	3 J	5.5 J	12000
Trichloroethene	0.99 J	ND	ND	0.86 J	60
Xylene (Total)	2.5	2.3	3.3 J	5.4	5600
SVOCs (ug/kg)					
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	32.3 J	51.1 J	79.6 J	25.8 J	900 / 1100 / 1800
Benzo(a)pyrene	31.8 J	47.3 J	ND	23.5 J	90 / 1300 / 2100
Benzo(b)fluoranthene	28.1 J	47.8 J	ND	24.5 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	27.4 J	35.4 J	ND	19.1 J	2300000
Benzo(k)fluoranthene	31.8 J	35.9 J	ND	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	13.9 J	46000
Butyl benzyl phthalate	44.7 J	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	36.2 J	62.3 J	104 J	35.7 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Di-N-Butyl phthalate	ND	ND	ND	ND	2300000
Fluoranthene	63.1 J	83.3 J	175 J	41.6 J	3100000
Indeno(1,2,3-cd)pyrene	20.9 J	23.8 J	ND	14 J	900 / 900 / 1600
Phenanthrene	29.3 J	59.7 J	101 J	32.8 J	210000
Pyrene	54.8 J	95 J	161 J	52.9 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	na	2230	na	12000	---
Arsenic, Total	3.5	1.8	4.3	8	11.3 / 13
Barium, Total	60.2	16.3	26.7	60.8	1500
Beryllium, Total	0.26 J	0.16 J	0.21 J	0.53	22
Cadmium, Total	ND	ND	ND	0.11 J	5.2
Calcium, Total	105000	159000	113000	23900	---
Chromium, Total	9.9 J	7 J	9.3 J	15 J	21
Cobalt, Total	3.3 J	2.1 J	3.9 J	7	20
Copper, Total	9.7	9.6	11.2	16.2	2900
Iron, Total	8880 J	6760 J	10100 J	16900 J	15000 / 15900
Lead, Total	37.6 J	22.3 J	23 J	27.2 J	107
Magnesium, Total	61900	101000	66300	16900	325000
Manganese, Total	406 J	263 J	281 J	296 J	630 / 636
Mercury, Total	0.018 J	0.023 J	0.0078 J	0.023 J	0.89
Nickel, Total	7.5	6.8 J	8.8	14.4 J	100
Potassium, Total	685	669	499	893	
Selenium, Total	0.34 J	ND	ND	ND	1.3
Sodium, Total	1660	2200	2480	3660	---
Strontium, Total	na	49.7	na	14.3	---
Thallium, Total	0.2 J	0.13 J	0.13 J	ND	2.6
Vanadium, Total	12.7	9.5 J	16.1	29.8 J	550
Zinc, Total	39.5 J	36 J	45.2 J	48 J	5100

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-2(0.5-1.5)-021114	AL2-3(0-1.5)-021114	AL2-4(0.5-1.5)-021114	AL2-5(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL2-2	AL2-3	AL2-4	AL2-5	
Depth	0.5 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	0.0061 J	0.05
Barium, TCLP	0.66	0.33 J	0.46 J	0.8	2
Cadmium, TCLP	0.0008 J	0.0011 J	0.0009 J	0.0025 J	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.0007 J	0.021 J	0.0006 J	0.047 J	1
Copper, TCLP	ND	0.0082 J	0.0082 J	0.011 J	0.65
Iron, TCLP	ND	ND	ND	2.2	5
Lead, TCLP	ND	0.0029 J	ND	0.027	0.0075
Manganese, TCLP	1.1	2.3	0.84	6.4	0.15
Nickel, TCLP	0.0067 J	0.024 J	0.014 J	0.039 J	0.1
Selenium, TCLP	0.0072 J	0.0088 J	0.0069 J	0.0066 J	0.05
Silver, TCLP	ND	0.0011 J	ND	ND	0.05
Zinc, TCLP	0.061 J	0.097 J	0.055 J	0.14	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.017	0.0059 J	0.0086 J	0.045	0.05
Barium, SPLP	0.3 J	0.18 J	0.27 J	0.72	2
Beryllium, SPLP	0.0015 J	0.0005 J	0.0005 J	0.0021 J	0.004
Cadmium, SPLP	0.0012 J	ND	0.0005 J	0.0011 J	0.005
Chromium, SPLP	0.045	0.017	0.018	0.063	0.1
Cobalt, SPLP	0.012 J	0.0031 J	0.0039 J	0.02 J	1
Copper, SPLP	0.048	0.016 J	0.02 J	0.074	0.65
Iron, SPLP	37.1	11.5	14.8	57.3	5
Lead, SPLP	0.17	0.032	0.052	0.12	0.0075
Manganese, SPLP	0.38	0.13	0.25	0.57	0.15
Mercury, SPLP	ND	ND	ND	0.00012 J	0.002
Nickel, SPLP	0.036 J	0.011 J	0.015 J	0.058	0.1
Silver, SPLP	ND	ND	ND	0.0023 J	0.05
Zinc, SPLP	0.17	0.078 J	0.082 J	0.24	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-6(0.5-1.5)-021114	AL2-6(0.5-1.5)-021114D	AL2-7(0.5-1.5)-021214	AL2-7(0.5-1.5)-021214D	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/12/2014	2/12/2014	
Location ID	AL2-6	AL2-6	AL2-7	AL2-7	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.6	8.7	8.1	8.3	<6.25,>9.0
VOCs (ug/kg)					
Acetone	74.5 J	57.5 J	63.9	69.8	25000
Benzene	1.5	1.4	1.7	2.4	30
Carbon disulfide	3.9 J	ND	ND	ND	9000
Ethylbenzene	1.3 J	1.1 J	1.4 J	1.9 J	13000
Methyl ethyl ketone	ND	ND	ND	ND	17000
Methylene chloride	ND	ND	3	4.6	20
Toluene	3 J	2.9 J	3.4 J	4.7 J	12000
Trichloroethene	ND	ND	ND	ND	60
Xylene (Total)	3.2	3.3	3.1	4.2	5600
SVOCs (ug/kg)					
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	55.1 J	30.1 J	31.7 J	34.1 J	900 / 1100 / 1800
Benzo(a)pyrene	50.9 J	28.9 J	36.7 J	34.8 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	28 J	35.9 J	33.7 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	48.7 J	31.7 J	38.2 J	26.8 J	2300000
Benzo(k)fluoranthene	ND	19.9 J	26.1 J	26.8 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	48 J	28.3 J	35.4 J	45.6 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Di-N-Butyl phthalate	ND	ND	ND	ND	2300000
Fluoranthene	75.5 J	38.5 J	51.9 J	73.1 J	3100000
Indeno(1,2,3-cd)pyrene	ND	17.8 J	27.6 J	22.3 J	900 / 900 / 1600
Phenanthrene	ND	20.3 J	21 J	48.4 J	210000
Pyrene	70.8 J	43 J	49.1 J	72.6 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	na	na	na	na	---
Arsenic, Total	5.6	4.2	6	6.5	11.3 / 13
Barium, Total	59.6 J	29.6 J	65.1	58	1500
Beryllium, Total	0.39	0.27 J	0.4	0.33 J	22
Cadmium, Total	ND	ND	ND	ND	5.2
Calcium, Total	101000	101000	63700	71500	---
Chromium, Total	11.1 J	8.9 J	11.9 J	10.6 J	21
Cobalt, Total	4.7 J	3.6 J	5.6 J	5.4 J	20
Copper, Total	12.2	11.1	11.4	12.1	2900
Iron, Total	12500 J	9740 J	13500 J	12000 J	15000 / 15900
Lead, Total	18.8 J	59.9 J	25 J	63.1 J	107
Magnesium, Total	58200	59600	37800	40500	325000
Manganese, Total	261 J	288 J	460 J	439 J	630 / 636
Mercury, Total	0.021 J	ND	0.029 J	0.021 J	0.89
Nickel, Total	8.8	8.5	10.8	10.2	100
Potassium, Total	586	602	689	644	
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	3750 J	2130 J	4030	3370	---
Strontium, Total	na	na	na	na	---
Thallium, Total	0.23 J	0.19 J	0.21 J	ND	2.6
Vanadium, Total	19.3	14.2	20.3	16.1	550
Zinc, Total	26.5 J	35.3 J	34.1 J	41.1 J	5100

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-6(0.5-1.5)-021114	AL2-6(0.5-1.5)-021114D	AL2-7(0.5-1.5)-021214	AL2-7(0.5-1.5)-021214D	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/12/2014	2/12/2014	
Location ID	AL2-6	AL2-6	AL2-7	AL2-7	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	0.0035 J	0.0043 J	0.05
Barium, TCLP	0.91	0.74	1	0.83	2
Cadmium, TCLP	0.0009 J	0.0011 J	0.0011 J	0.0017 J	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.0054 J	0.017 J	0.0051 J	0.005 J	1
Copper, TCLP	0.0082 J	0.0081 J	0.02 J	ND	0.65
Iron, TCLP	ND	ND	0.064 J	0.14	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	3.6	3.9	5.7	6.4 J	0.15
Nickel, TCLP	0.014 J	0.016 J	0.014 J	0.016 J	0.1
Selenium, TCLP	0.0069 J	0.007 J	0.0097 J	0.0098 J	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.033 J	0.037 J	0.043 J	0.036 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.1 J	0.048 J	0.066 J	0.02 J	0.05
Barium, SPLP	1.6 J	0.74 J	0.91	0.81	2
Beryllium, SPLP	0.0099 J	0.0048 J	0.0058	0.0012 J	0.004
Cadmium, SPLP	0.0025 J	0.0023 J	0.0012 J	0.0005 J	0.005
Chromium, SPLP	0.26 J	0.14 J	0.16 J	0.037 J	0.1
Cobalt, SPLP	0.08	0.037 J	0.05	0.012 J	1
Copper, SPLP	0.24 J	0.12 J	0.13 J	0.034 J	0.65
Iron, SPLP	333 J	143 J	168 J	37.7 J	5
Lead, SPLP	0.25	0.34	0.24 J	0.061 J	0.0075
Manganese, SPLP	2.7 J	1.3 J	2.1 J	0.61 J	0.15
Mercury, SPLP	0.00064 J	0.00028 J	0.00029 J	ND	0.002
Nickel, SPLP	0.22 J	0.11 J	0.14 J	0.031 J	0.1
Silver, SPLP	ND	ND	0.0012 J	ND	0.05
Zinc, SPLP	0.69	0.44	0.48	0.15	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
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Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-8(0.5-1.5)-021214	AL2-9(0.5-1.5)-021214	AL2-10(0.5-1.5)-021214	AL2-11(0.5-1.5)-021214	Soil Reference Concentrations^A
Sample Date	2/12/2014	2/12/2014	2/12/2014	2/12/2014	
Location ID	AL2-8	AL2-9	AL2-10	AL2-11	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.8	8.7	8.8	8.1	<6.25,>9.0
VOCs (ug/kg)					
Acetone	22.1	92	83.3	135 J	25000
Benzene	2.4	2.8	4.1	2	30
Carbon disulfide	ND	1.7 J	2.2 J	1.4 J	9000
Ethylbenzene	1.7 J	2.1 J	2.9	1.6 J	13000
Methyl ethyl ketone	ND	ND	7.6 J	15.8	17000
Methylene chloride	3.1	3.8 J	3.2	ND	20
Toluene	4.4 J	5.5 J	8	3.8 J	12000
Trichloroethene	ND	ND	ND	0.98 J	60
Xylene (Total)	3.6	4.4	6.6	3.7	5600
SVOCs (ug/kg)					
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	43.1 J	ND	41.4 J	19.7 J	900 / 1100 / 1800
Benzo(a)pyrene	44.4 J	ND	36 J	17.1 J	90 / 1300 / 2100
Benzo(b)fluoranthene	33.8 J	ND	35.1 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	41.6 J	ND	28.6 J	15.1 J	2300000
Benzo(k)fluoranthene	42.4 J	ND	28.2 J	ND	9000
bis(2-Ethylhexyl)phthalate	14.3 J	ND	18.2 J	13.2 J	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	45.1 J	15 J	48.1 J	25.9 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Di-N-Butyl phthalate	ND	ND	ND	37.5 J	2300000
Fluoranthene	72.4 J	22.2 J	78 J	30.2 J	3100000
Indeno(1,2,3-cd)pyrene	30.3 J	ND	20.3 J	ND	900 / 900 / 1600
Phenanthrene	40.5 J	16.9 J	49.7 J	22.7 J	210000
Pyrene	68.7 J	21.8 J	79.6 J	39.5 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	na	na	na	na	---
Arsenic, Total	10.6	8.7	5.5	5.1	11.3 / 13
Barium, Total	26.1	94.1	95.9	89.6	1500
Beryllium, Total	0.27 J	0.52	0.52	0.64	22
Cadmium, Total	ND	0.18 J	0.065 J	0.28 J	5.2
Calcium, Total	137000	51100	31800	15700 J	---
Chromium, Total	8.6 J	14.4 J	14.5 J	14.4 J	21
Cobalt, Total	2.8 J	5.8 J	5.9 J	6.4 J	20
Copper, Total	8	14.5	14.2	14.1	2900
Iron, Total	12100 J	18400 J	14700 J	14200 J	15000 / 15900
Lead, Total	14.8 J	21.8 J	23.5 J	56.4 J	107
Magnesium, Total	75600	34500	17700	9660	325000
Manganese, Total	327 J	521 J	436 J	352 J	630 / 636
Mercury, Total	0.011 J	0.031 J	0.023 J	0.037 J	0.89
Nickel, Total	7.6	14.4	18	14.9	100
Potassium, Total	572	736	788	968 J	
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	3140	4040	2850	2470	---
Strontium, Total	na	na	na	na	---
Thallium, Total	0.29 J	0.19 J	ND	ND	2.6
Vanadium, Total	11.2	26.9	21.7	21.8 J	550
Zinc, Total	25.5 J	37.2 J	35.6 J	47 J	5100

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-8(0.5-1.5)-021214	AL2-9(0.5-1.5)-021214	AL2-10(0.5-1.5)-021214	AL2-11(0.5-1.5)-021214	Soil Reference Concentrations ^A
Sample Date	2/12/2014	2/12/2014	2/12/2014	2/12/2014	
Location ID	AL2-8	AL2-9	AL2-10	AL2-11	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	0.0043 J	0.0064 J	0.0065 J	0.0091 J	0.05
Barium, TCLP	0.46 J	1.1	1.3	1.2	2
Cadmium, TCLP	0.001 J	0.005	0.0031 J	0.0027 J	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.012 J	0.035 J	0.037 J	0.062	1
Copper, TCLP	0.012 J	0.018 J	ND	0.011 J	0.65
Iron, TCLP	ND	0.27	0.45	1.3	5
Lead, TCLP	ND	0.0033 J	0.024	0.015	0.0075
Manganese, TCLP	2.5	6.7	10.3	11.8	0.15
Nickel, TCLP	0.02 J	0.026 J	0.043	0.042	0.1
Selenium, TCLP	0.011 J	0.0078 J	0.0084 J	0.0077 J	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.051 J	0.043 J	0.054 J	0.12	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.026	0.11	0.095	0.082	0.05
Barium, SPLP	0.29 J	1.5	1.5	1	2
Beryllium, SPLP	0.0017 J	0.0093	0.0086	0.006	0.004
Cadmium, SPLP	0.0007 J	0.0023 J	0.0015 J	0.0016 J	0.005
Chromium, SPLP	0.054	0.24	0.2	0.15	0.1
Cobalt, SPLP	0.014 J	0.07	0.068	0.058	1
Copper, SPLP	0.048	0.21	0.19	0.15	0.65
Iron, SPLP	53	252	218	156	5
Lead, SPLP	0.13	0.29	0.51	0.44	0.0075
Manganese, SPLP	0.67	2.6	2.9	2.5	0.15
Mercury, SPLP	ND	0.00056	0.00027	0.00032	0.002
Nickel, SPLP	0.045	0.2	0.23	0.15	0.1
Silver, SPLP	ND	ND	ND	0.0012 J	0.05
Zinc, SPLP	0.26	0.59	0.59	0.51	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-12(0.5-1.5)-021114	AL2-13(0-1.5)-021114	AL2-13(0-1.5)-021114D	AL2-14(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL2-12	AL2-13	AL2-13	AL2-14	
Depth	0.5 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.2	8.8	8.8	8	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	64.7	65.6	191	25000
Benzene	1.7	1.8	1.4	ND	30
Carbon disulfide	ND	ND	ND	ND	9000
Ethylbenzene	0.65 J	1.2 J	0.98 J	ND	13000
Methyl ethyl ketone	ND	8.4 J	8.6 J	29.9	17000
Methylene chloride	ND	2.2 J	2.5	3.2	20
Toluene	2.4 J	3.2 J	2.7 J	0.48 J	12000
Trichloroethene	ND	ND	ND	ND	60
Xylene (Total)	1.3 J	3	2.3 J	ND	5600
SVOCs (ug/kg)					
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	31.2 J	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	34.9 J	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	42.6 J	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	28.4 J	ND	ND	ND	2300000
Benzo(k)fluoranthene	22.4 J	ND	ND	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	42.5 J	ND	ND	16.1 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Di-N-Butyl phthalate	51.6 J	ND	ND	ND	2300000
Fluoranthene	58.6 J	ND	ND	31.1 J	3100000
Indeno(1,2,3-cd)pyrene	19.8 J	ND	ND	ND	900 / 900 / 1600
Phenanthrene	43.4 J	ND	ND	19.7 J	210000
Pyrene	70.7 J	ND	14 J	25.8 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	7840	6520	9070	10100	---
Arsenic, Total	5.5	5.2	6.3	5.5	11.3 / 13
Barium, Total	55.3	46	74.1	113	1500
Beryllium, Total	0.45	0.38	0.49	0.57	22
Cadmium, Total	0.11 J	0.093 J	0.27 J	2.2	5.2
Calcium, Total	36700	77400 J	34000 J	9250	---
Chromium, Total	14 J	23.7 J	20.4 J	14.2 J	21
Cobalt, Total	5.8	4 J	5.3	6.3	20
Copper, Total	12.9	13	15.3	14.8	2900
Iron, Total	12500 J	11900 J	14700 J	13600 J	15000 / 15900
Lead, Total	76.7 J	186 J	114 J	31.1 J	107
Magnesium, Total	23200	39100	25200	7000	325000
Manganese, Total	344 J	400 J	373 J	333 J	630 / 636
Mercury, Total	0.027 J	0.01 J	0.015 J	0.046	0.89
Nickel, Total	12.8 J	10.2 J	13.7 J	13 J	100
Potassium, Total	835	734	866	1280	---
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	2240	2070	3050	2360	---
Strontium, Total	18.7 J	39.1 J	20.3 J	16.3	---
Thallium, Total	ND	ND	ND	ND	2.6
Vanadium, Total	19.8	18 J	23 J	26.2 J	550
Zinc, Total	43.5 J	48.4 J	63.2 J	52.8 J	5100

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-12(0.5-1.5)-021114	AL2-13(0-1.5)-021114	AL2-13(0-1.5)-021114D	AL2-14(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL2-12	AL2-13	AL2-13	AL2-14	
Depth	0.5 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	0.0057 J	ND	ND	0.014	0.05
Barium, TCLP	0.88	0.57	0.75	1.2	2
Cadmium, TCLP	0.0034 J	0.0017 J	0.0021 J	0.036	0.005
Chromium, TCLP	ND	0.0075 J	0.0025 J	ND	0.1
Cobalt, TCLP	0.04 J	ND	ND	0.051	1
Copper, TCLP	0.0097 J	ND	0.0072 J	0.012 J	0.65
Iron, TCLP	0.19	ND	0.042 J	1.2	5
Lead, TCLP	0.048	0.0042 J	0.0075 J	0.071	0.0075
Manganese, TCLP	8.7	0.16 J	0.29 J	10.5	0.15
Nickel, TCLP	0.029 J	0.013 J	0.016 J	0.067	0.1
Selenium, TCLP	0.0082 J	0.009 J	0.01 J	0.0081 J	0.05
Silver, TCLP	ND	ND	0.001 J	ND	0.05
Zinc, TCLP	0.1 J	0.071 J	0.054 J	0.34	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.017	0.017 J	0.0059 J	0.017	0.05
Barium, SPLP	0.3 J	0.33 J	0.14 J	0.3 J	2
Beryllium, SPLP	0.0015 J	0.0014 J	0.0005 J	0.0006 J	0.004
Cadmium, SPLP	0.0008 J	0.001 J	ND	0.0014 J	0.005
Chromium, SPLP	0.049	0.046 J	0.018 J	0.018	0.1
Cobalt, SPLP	0.013 J	0.011 J	0.0029 J	0.0063 J	1
Copper, SPLP	0.044	0.041	0.012 J	0.031	0.65
Iron, SPLP	39.2	39 J	9.3 J	14.5	5
Lead, SPLP	0.15	0.2 J	0.051 J	0.049	0.0075
Manganese, SPLP	0.54	0.52 J	0.12 J	0.16	0.15
Mercury, SPLP	ND	0.00012 J	ND	ND	0.002
Nickel, SPLP	0.04	0.04	0.01 J	0.02 J	0.1
Silver, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.15	0.18 J	0.062 J	0.08 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL2-15(0.5-1.5)-021114	AL2-16(0-1.5)-021114	AL2-17(0.5-1.5)-021114	AL2-18(0-1.5)-021114	AL2-19(0.5-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL2-15	AL2-16	AL2-17	AL2-18	AL2-19	
Depth	0.5 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	0.5 - 1.5	
Parameter						
Laboratory pH (s.u.)	8.4	8.3	8.9	8.5	8.5	<6.25,>9.0
VOCs (ug/kg)						
Acetone	44.9 J	19.3	27.1 J	79.7	30.4 J	25000
Benzene	0.76	1.5	2.8	3.1	1.4	30
Carbon disulfide	ND	ND	ND	0.92 J	ND	9000
Ethylbenzene	0.94 J	1.2 J	2 J	2.1 J	1.2 J	13000
Methyl ethyl ketone	ND	ND	ND	ND	ND	17000
Methylene chloride	ND	2.5	ND	ND	ND	20
Toluene	1.8 J	2.9 J	5.2 J	6.6	2.5 J	12000
Trichloroethene	ND	ND	1 J	ND	ND	60
Xylene (Total)	2	3.1	4.8	5.1	2.5	5600
SVOCs (ug/kg)						
Anthracene	ND	ND	21.4 J	ND	ND	1.20E+07
Benzo(a)anthracene	32.3 J	ND	148	ND	37.8 J	900 / 1100 / 1800
Benzo(a)pyrene	39.1 J	ND	159	ND	39.2 J	90 / 1300 / 2100
Benzo(b)fluoranthene	36 J	ND	157	ND	46.3 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	35.4 J	ND	117	ND	40.4 J	2300000
Benzo(k)fluoranthene	30.7 J	ND	145	ND	27 J	9000
bis(2-Ethylhexyl)phthalate	17.4 J	ND	21.4 J	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	ND	930000
Carbazole	ND	ND	17.5 J	ND	ND	600
Chrysene	45.7 J	84.1 J	174	ND	42.2 J	88000
Dibenzo(a,h)anthracene	ND	ND	32 J	ND	ND	90 / 200 / 420
Di-N-Butyl phthalate	ND	ND	ND	ND	ND	2300000
Fluoranthene	56.3 J	134 J	291	ND	57.1 J	3100000
Indeno(1,2,3-cd)pyrene	30.2 J	ND	94.8 J	ND	25 J	900 / 900 / 1600
Phenanthrene	32.8 J	92 J	150	ND	23.6 J	210000
Pyrene	63.2 J	148 J	281	17.7 J	60.1 J	2300000
Total Metals (mg/kg)						
Aluminum, Total	5880	2830	5140	9260	5780	---
Arsenic, Total	4.5	2.3	4	6.7	4.7	11.3 / 13
Barium, Total	44.4	15.1	42.4	81.2	56.3	1500
Beryllium, Total	0.35 J	0.17 J	0.29 J	0.47	0.3 J	22
Cadmium, Total	ND	ND	0.094 J	0.085 J	ND	5.2
Calcium, Total	125000	156000	108000	17200	98800	---
Chromium, Total	11.3 J	7.3 J	11.2 J	12.1 J	9.7 J	21
Cobalt, Total	4 J	1.9 J	3.6 J	5.2	4.3 J	20
Copper, Total	11.6	7.4	13.8	13.3	9.3	2900
Iron, Total	12200 J	6260 J	9770 J	14600 J	9650 J	15000 / 15900
Lead, Total	83.8 J	18.1 J	86.5 J	12.6 J	40.4 J	107
Magnesium, Total	80000	99400	68900	12500	60100	325000
Manganese, Total	505 J	246 J	383 J	468 J	487 J	630 / 636
Mercury, Total	0.0097 J	0.021 J	0.026 J	0.03 J	0.011 J	0.89
Nickel, Total	9.1 J	4.8 J	9 J	12.9 J	8 J	100
Potassium, Total	895	592	644	735	755	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Sodium, Total	2810	1960	1940	2710	2430	---
Strontium, Total	43.8 J	47	36.1 J	11.1	35.1 J	---
Thallium, Total	ND	0.13 J	ND	ND	0.12 J	2.6
Vanadium, Total	14.8	10.3 J	16.4	24.6 J	17.4	550
Zinc, Total	45.1 J	20.7 J	56 J	39.8 J	36.4 J	5100

Summary Table of ISGS Site No. 2780-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Townships, Kane County, Illinois

Field Sample ID	AL2-15(0.5-1.5)-021114	AL2-16(0-1.5)-021114	AL2-17(0.5-1.5)-021114	AL2-18(0-1.5)-021114	AL2-19(0.5-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL2-15	AL2-16	AL2-17	AL2-18	AL2-19	
Depth	0.5 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	0.5 - 1.5	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.44 J	0.36 J	0.74	0.81	0.83	2
Cadmium, TCLP	0.0022 J	0.0014 J	0.0024 J	0.0008 J	0.0008 J	0.005
Chromium, TCLP	ND	ND	0.0017 J	ND	ND	0.1
Cobalt, TCLP	0.012 J	0.018 J	0.0041 J	0.0005 J	0.0029 J	1
Copper, TCLP	ND	0.0076 J	0.0076 J	0.0071 J	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	0.0097 J	0.01	0.0085 J	ND	ND	0.0075
Manganese, TCLP	2.5	2.1	1.8	1.1	1.9	0.15
Nickel, TCLP	0.016 J	0.017 J	0.013 J	0.008 J	0.011 J	0.1
Selenium, TCLP	0.008 J	0.0092 J	0.0088 J	0.0082 J	0.0073 J	0.05
Silver, TCLP	0.001 J	ND	0.0012 J	ND	0.0011 J	0.05
Zinc, TCLP	0.076 J	0.12	0.12 J	0.028 J	0.055 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	0.007 J	0.0049 J	0.029	0.0058 J	0.05
Barium, SPLP	0.069 J	0.18 J	0.14 J	0.55	0.26 J	2
Beryllium, SPLP	ND	0.0005 J	0.0004 J	0.0021 J	0.0009 J	0.004
Cadmium, SPLP	ND	ND	ND	0.001 J	0.0005 J	0.005
Chromium, SPLP	0.0068 J	0.018	0.019	0.062	0.031	0.1
Cobalt, SPLP	0.001 J	0.0033 J	0.0032 J	0.018 J	0.0073 J	1
Copper, SPLP	ND	0.016 J	0.018 J	0.057	0.019 J	0.65
Iron, SPLP	3.7	10.8	10.9	65.1	22	5
Lead, SPLP	0.02	0.085	0.077	0.071	0.033	0.0075
Manganese, SPLP	0.037	0.18	0.17	0.9	0.42	0.15
Mercury, SPLP	ND	ND	ND	0.0001 J	ND	0.002
Nickel, SPLP	0.0044 J	0.011 J	0.012 J	0.062	0.023 J	0.1
Silver, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.031 J	0.074 J	0.092 J	0.21	0.1	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244

Sampling Date: 02/11/14

Report to:

**Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com**

ATTN: Andris Slesres

Total number of pages in report: 310



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114	
Lab Sample ID: MC28244-14	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63288.D	1	02/19/14	KD	n/a	n/a	MSM2219

Run #1	Initial Weight	Final Volume
Run #2	5.76 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.9	ug/kg	
71-43-2	Benzene	1.7	0.50	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.36	ug/kg	
75-25-2	Bromoform	ND	2.0	0.29	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.98	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.27	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.60	ug/kg	
67-66-3	Chloroform	ND	2.0	0.29	ug/kg	
74-87-3	Chloromethane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.33	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.55	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.52	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.51	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.45	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.29	ug/kg	
100-41-4	Ethylbenzene	0.65	2.0	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.40	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.9	ug/kg	
75-09-2	Methylene chloride	ND	2.0	1.6	ug/kg	
100-42-5	Styrene	ND	5.0	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.44	ug/kg	
108-88-3	Toluene	2.4	5.0	0.24	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.0	0.48	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.57	ug/kg	
1330-20-7	Xylene (total)	1.3	2.0	0.21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.08	9	ug/kg	JN
109-66-0	Pentane	6.49	13	ug/kg	JN
107-83-5	Pentane, 2-methyl-	7.84	5.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	11.17	5.9	ug/kg	JN
	Total TIC, Volatile		33.7	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL2-12(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-14	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17726.D	1	02/18/14	KR	02/14/14	OP36851	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	31.2	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	34.9	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	42.6	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	28.4	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	22.4	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	41.4	280	11	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	42.5	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-12(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-14	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	51.6	280	30	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	58.6	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19.8	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	43.4	110	15	ug/kg	J
129-00-0	Pyrene	70.7	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		30-130%
4165-62-2	Phenol-d5	75%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114 Lab Sample ID: MC28244-14 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.5
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
13798-23-7	Sulfur	7.07	510	ug/kg	JN
57-10-3	n-Hexadecanoic acid	8.65	270	ug/kg	JN
646-31-1	Tetracosane	11.42	290	ug/kg	JN
18633-25-5	Oxirane, tridecyl-	12.00	710	ug/kg	JN
630-04-6	Hentriacontane	13.04	450	ug/kg	JN
638-66-4	Octadecanal	13.75	360	ug/kg	JN
	Total TIC, Semi-Volatile		2590	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7840	18	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	5.5	0.92	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	55.3	4.6	0.067	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.45	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.11 B	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	36700	460	5.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	14.0	0.92	0.087	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	5.8	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	12.9	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	12500	9.2	0.80	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	76.7	0.92	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	23200	460	4.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	344	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.027 B	0.037	0.0082	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	12.8	3.7	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	835	460	7.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.11 U	0.46	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	2240	460	3.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	18.7	0.92	0.027	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	19.8	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	43.5	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22492
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.5		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.2		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-14A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0057 B	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	0.88	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0034 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.040 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Copper	0.0097 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.19			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.048	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Manganese	8.7			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.029 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0082 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.10			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-14B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.017		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.30 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.0015 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00080 B		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.049		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.013 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.044		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	39.2		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.15		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.54		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.040		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.15		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID:	AL2-15(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-17	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.1
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.9	0.45	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.54	ug/kg	
1330-20-7	Xylene (total)	2.0	1.9	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	114%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
108-87-2	Cyclohexane, methyl-	8.32	2.1	ug/kg	JN
565-80-0	3-Pentanone, 2,4-dimethyl-	10.30	1.4	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.96	2	ug/kg	JN
	Total TIC, Volatile		5.5	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-15(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-17	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17729.D	1	02/18/14	KR	02/14/14	OP36851	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	73	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	32.3	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	39.1	120	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	36.0	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	35.4	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	30.7	120	18	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	50.0	290	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	45.7	120	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-15(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-17	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.1
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	17.4	290	11	ug/kg	J
206-44-0	Fluoranthene	56.3	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.2	120	13	ug/kg	J
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	15	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	32.8	120	16	ug/kg	J
129-00-0	Pyrene	63.2	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	87%		30-130%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-15(0.5-1.5)-021114 Lab Sample ID: MC28244-17 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.1
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-15(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-17	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5880	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.96	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	4.5	0.96	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	44.4	4.8	0.069	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.35 B	0.38	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	125000	4800	60	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	11.3	0.96	0.091	mg/kg	1	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	4.0 B	4.8	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	11.6	2.4	0.53	mg/kg	1	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	12200	9.6	0.83	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	83.8	0.96	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	80000	480	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	505	1.4	0.038	mg/kg	1	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.0097 B	0.037	0.0082	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	9.1	3.8	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	895	480	8.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.96	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.48	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2810	480	3.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	43.8	0.96	0.029	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.13 U	0.96	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	14.8	0.96	0.13	mg/kg	1	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	45.1	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16751
- (4) Prep QC Batch: MP22492
- (5) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-15(0.5-1.5)-021114 Lab Sample ID: MC28244-17 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.1
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.4		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-15(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-17A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	0.44 B	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0022 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.012 B			0.050	0.00040	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0097 B	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Manganese	2.5			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.016 B			0.040	0.00057	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Selenium	0.0080 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 B	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.076 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22534
- (4) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-15(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-17B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.069 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00025 U		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.0068 B		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.0010 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.0070 U		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	3.7		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.020		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.037		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.0044 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.031 B		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	AL2-17(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-18	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28089.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2 ^a	V28125.D	1	02/21/14	AMY	n/a	n/a	MSV1055

Run #	Initial Weight	Final Volume
Run #1	5.11 g	5.0 ml
Run #2	4.44 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	27.1	11	4.4	ug/kg	
71-43-2	Benzene	2.8	0.56	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.41	ug/kg	
75-25-2	Bromoform	ND	2.3	0.33	ug/kg	
74-83-9	Bromomethane	ND	2.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.68	ug/kg	
67-66-3	Chloroform	ND	2.3	0.33	ug/kg	
74-87-3	Chloromethane	ND	5.6	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	0.37	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	0.61	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.57	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
100-41-4	Ethylbenzene	2.0	2.3	0.20	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.6	2.1	ug/kg	
75-09-2	Methylene chloride	4.1	2.3	1.7	ug/kg	B
100-42-5	Styrene	ND	5.6	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.50	ug/kg	
108-88-3	Toluene	5.2	5.6	0.27	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.39	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-18	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	1.0	2.3	0.53	ug/kg	J
75-01-4	Vinyl chloride	ND	2.3	0.64	ug/kg	
1330-20-7	Xylene (total)	4.8	2.3	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	92%	70-130%
2037-26-5	Toluene-D8	75%	77%	70-130%
460-00-4	4-Bromofluorobenzene	126%	130%	70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.18	23	ug/kg	JN
109-66-0	Pentane	2.41	16	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.31	4.5	ug/kg	JN
142-82-5	Heptane	7.55	3.3	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	6.6	ug/kg	JN
66-25-1	Hexanal	10.47	5.3	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.53	2.5	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.96	4.3	ug/kg	JN
	Total TIC, Volatile		65.5	ug/kg	J

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL2-17(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-18	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17730.D	1	02/18/14	KR	02/14/14	OP36851	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	21.4	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	148	110	14	ug/kg	
50-32-8	Benzo(a)pyrene	159	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	157	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	117	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	145	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	40.7	280	11	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	17.5	110	13	ug/kg	J
218-01-9	Chrysene	174	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114	
Lab Sample ID: MC28244-18	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	32.0	110	13	ug/kg	J
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	21.4	280	10	ug/kg	J
206-44-0	Fluoranthene	291	110	15	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	94.8	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	150	110	15	ug/kg	
129-00-0	Pyrene	281	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		30-130%
4165-62-2	Phenol-d5	79%		30-130%
118-79-6	2,4,6-Tribromophenol	92%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114 Lab Sample ID: MC28244-18 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.65	340	ug/kg	JN
14811-95-1	1,19-Eicosadiene	12.00	370	ug/kg	JN
	Total TIC, Semi-Volatile		710	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-18	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5140	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	4.0	0.94	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	42.4	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.29 B	0.38	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.094 B	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	108000	4700	59	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	11.2	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	3.6 B	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	13.8	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	9770	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	86.5	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	68900	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	383	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.026 B	0.033	0.0074	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	9.0	3.8	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	644	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	1940	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	36.1	0.94	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 U	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	16.4	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	56.0	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA16742

(2) Instrument QC Batch: MA16748

(3) Instrument QC Batch: MA16751

(4) Prep QC Batch: MP22492

(5) Prep QC Batch: MP22508

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-18	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.6		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.9		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-18A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	0.74	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0024 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0017 B	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.0041 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Copper	0.0076 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0085 B	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Manganese	1.8			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.013 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0088 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0012 B	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.12			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-17(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-18B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0049 B		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.14 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00040 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.019		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.0032 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.018 B		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	10.9		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.077		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.17		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.012 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.092 B		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28091.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.06 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.4	11	4.4	ug/kg	
71-43-2	Benzene	1.4	0.57	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.41	ug/kg	
75-25-2	Bromoform	ND	2.3	0.33	ug/kg	
74-83-9	Bromomethane	ND	2.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.68	ug/kg	
67-66-3	Chloroform	ND	2.3	0.33	ug/kg	
74-87-3	Chloromethane	ND	5.7	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	0.38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	0.61	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.58	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
100-41-4	Ethylbenzene	1.2	2.3	0.20	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	2.1	ug/kg	
75-09-2	Methylene chloride	1.8	2.3	1.7	ug/kg	JB
100-42-5	Styrene	ND	5.7	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.50	ug/kg	
108-88-3	Toluene	2.5	5.7	0.28	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.39	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.3	0.54	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.64	ug/kg	
1330-20-7	Xylene (total)	2.5	2.3	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
142-82-5	Heptane	7.55	1.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	3.6	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.53	1.2	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.96	2.1	ug/kg	JN
	Total TIC, Volatile		8.7	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL2-19(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-20	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	87.3
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17732.D	1	02/18/14	KR	02/14/14	OP36851	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	28	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	37.8	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	39.2	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	46.3	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	40.4	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	27.0	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	42.2	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-19(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-20	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	87.3
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	57.1	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	25.0	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	30	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	23.6	110	15	ug/kg	J
129-00-0	Pyrene	60.1	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		30-130%
4165-62-2	Phenol-d5	78%		30-130%
118-79-6	2,4,6-Tribromophenol	93%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
90-04-0	Benzenamine, 2-methoxy-	5.25	340	ug/kg	JN
57-10-3	n-Hexadecanoic acid	8.64	310	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	10.17	300	ug/kg	JN
	Total TIC, Semi-Volatile		950	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.58
4

Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5780	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	4.7	0.94	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	56.3	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.30 B	0.38	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	98800	4700	59	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	9.7	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	4.3 B	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	9.3	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	9650	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	40.4	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	60100	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	487	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.011 B	0.036	0.0079	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	8.0	3.8	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	755	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2430	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	35.1	0.94	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 B	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	17.4	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	36.4	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA16742

(2) Instrument QC Batch: MA16748

(3) Instrument QC Batch: MA16751

(4) Prep QC Batch: MP22492

(5) Prep QC Batch: MP22508

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.3		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.5		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

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Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Barium	0.83	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Cadmium	0.00080 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Cobalt	0.0029 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14 EAL	SW846 6010C ³
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14 EAL	SW846 6010C ³
Manganese	1.9			0.015	0.00081	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.011 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14 EAL	SW846 6010C ³
Selenium	0.0073 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Silver	0.0011 B	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Zinc	0.055 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-19(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-20B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0058 B	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Barium	0.26 B	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Beryllium	0.00090 B	0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Cadmium	0.00050 B	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Chromium	0.031	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Cobalt	0.0073 B	0.050	0.00040	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Copper	0.019 B	0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Iron	22.0	0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Lead	0.033	0.010	0.0017	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Manganese	0.42	0.015	0.00081	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Mercury	0.00010 U	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA	SW846 7470A ¹
Nickel	0.023 B	0.040	0.00057	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Selenium	0.0048 U	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Silver	0.0010 U	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²
Zinc	0.10	0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes								
Company Name Weston		Project Name IDOT-042				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCs Total Metals TCUP/SRP Metals pH </div> <div style="font-size: small;"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>												Matrix Codes LAB USE ONLY								
Street Address 150 E. Banker Ct. Suite 500		Street: IL 72		Billing Information (If different from Report to)																						
City State Zip Vernon Hills, IL 60061		City: Hampshire, IL		Company Name																						
Project Contact S. Babusukumar		Project#		Street Address																						
Phone # 847-918-4018		Fax #		Client PC#				City				State				Zip										
Sampler(s) Name(s) Dan Cukierski 284-875-0509		Phone #		Project Manager				Attention:				PC#														
Accutest Sample #	Field ID / Point of Collection	MEQHDI Viol #	Date	Time	Sampled by	Matrix	# of bottles	HCl	MNHCl	PHOS	PHOS	NO3	NO3	NO3	DI Water	MECH	ENFORCE	Business								
13	AL2-18(0.5-1.5)-021114		2/11/14	1225	DC	S	3												X	X	X	X	X	X		
14	AL2-12(0.5-1.5)-021114		2/11/14	1245	DC	S	2												X	X	X	X	X	X		
15	VL5-1(0.5-1.5)-021114		2/11/14	1305	DC	S	3												X	X	X	X	X	X		
16	SB-1(0.5-1.5)-021114		2/11/14	1320	DC	S	3												X	X	X	X	X	X		
17	AL2-15(0.5-1.5)-021114		2/11/14	1340	DC	S	3												X	X	X	X	X	X		
18	AL2-17(0.5-1.5)-021114		2/11/14	1355	DC	S	3												X	X	X	X	X	X		
19	FS3-1(0.5-1.5)-021114		2/11/14	1410	DC	S	3												X	X	X	X	X	X		
20	AL2-19(0.5-1.5)-021114		2/11/14	1425	DC	S	3												X	X	X	X	X	X		
21	AL2-2(0.5-1.5)-021114		2/11/14	1440	DC	S	3												X	X	X	X	X	X		
22	AL2-4(0.5-1.5)-021114		2/11/14	1455	DC	S	3												X	X	X	X	X	X		
23	AL2-6(0.5-1.5)-021114		2/11/14	1515	DC	S	3												X	X	X	X	X	X		
24	AL2-6(0.5-1.5)-021114		2/11/14	1515	DC	S	3												X	X	X	X	X	X		
Data Deliverable Information																	Comments / Special Instructions									
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink				Approved By (Accutest PM): / Date: _____				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP				<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____														
Sample Custody must be documented below each time samples change possession, including courier delivery.																										
Relinquished By: [Signature]	Date Time: 2/11/14 1537	Received By: [Signature]	Date Time: 2/11/14 3:39	Relinquished By: FEDX	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14																			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:																			
3		3		4		4																				
Relinquished by:	Date Time:	Received By:	Date Time:	Custody Seal #	<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Preserved where applicable	<input type="checkbox"/>	On Ice	<input type="checkbox"/>	Cooler Temp.																
5		5						<input checked="" type="checkbox"/>		70-110.8-2.0																

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Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244A

Sampling Date: 02/11/14

Report to:

Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **118**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	AL2-2(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.8
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28115.D	1	02/21/14	AMY	n/a	n/a	MSV1055
Run #2 ^a	V28127.D	1	02/21/14	AMY	n/a	n/a	MSV1055

Run #	Initial Weight	Final Volume
Run #1	5.69 g	5.0 ml
Run #2	4.57 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	23.8	10	4.0	ug/kg	
71-43-2	Benzene	1.6	0.51	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.37	ug/kg	
75-25-2	Bromoform	ND	2.0	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/kg	
75-15-0	Carbon disulfide	1.9	5.1	0.16	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.28	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.61	ug/kg	
67-66-3	Chloroform	ND	2.0	0.30	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.56	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.46	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/kg	
100-41-4	Ethylbenzene	0.96	2.0	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	1.9	ug/kg	
75-09-2	Methylene chloride	2.3	2.0	1.6	ug/kg	
100-42-5	Styrene	ND	5.1	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.45	ug/kg	
108-88-3	Toluene	2.3	5.1	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.99	2.0	0.49	ug/kg	J
75-01-4	Vinyl chloride	ND	2.0	0.58	ug/kg	
1330-20-7	Xylene (total)	2.5	2.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	94%	70-130%
2037-26-5	Toluene-D8	78%	78%	70-130%
460-00-4	4-Bromofluorobenzene	118%	127%	70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
110-54-3	Hexane	4.26	4.2	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.33	2.3	ug/kg	JN
142-82-5	Heptane	7.56	1.6	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.33	3.7	ug/kg	JN
66-25-1	Hexanal	10.48	4.8	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.97	2.8	ug/kg	JN
	Total TIC, Volatile		19.4	ug/kg	J

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID:	AL2-2(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.8
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37091.D	1	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	71	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	560	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	32.3	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	31.8	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	28.1	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	27.4	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	31.8	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	44.7	280	12	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	36.2	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114	
Lab Sample ID: MC28244-21	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	63.1	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20.9	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	29.3	110	15	ug/kg	J
129-00-0	Pyrene	54.8	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	98%		30-130%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
 4

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	3.5	0.94	0.20	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	60.2	4.7	0.068	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.26 B	0.38	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	105000	4700	59	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	9.9	0.94	0.089	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	3.3 B	4.7	0.044	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	9.7	2.3	0.52	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	8880	9.4	0.82	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	37.6	0.94	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	61900	470	4.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	406	1.4	0.038	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.018 B	0.037	0.0081	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	7.5	3.8	0.041	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	685	470	8.0	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.34 B	0.94	0.33	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	1660	470	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.20 B	0.94	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	12.7	0.94	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	39.5	1.9	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.1
 4

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.8		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.2		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114 Lab Sample ID: MC28244-21A Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.8
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Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Barium	0.66	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cadmium	0.00080 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cobalt	0.00070 B			0.050	0.00040	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Manganese	1.1			0.015	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.0067 B			0.040	0.00057	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Selenium	0.0072 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Zinc	0.061 B			0.10	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16780
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID: AL2-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-21B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.017		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.30 B		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0015 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0012 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.045		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.012 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.048		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	37.1		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.17		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.38		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.036 B		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.17		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114	
Lab Sample ID: MC28244-22	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V28116.D	1	02/21/14	AMY	n/a	n/a	MSV1055

Run #1	Initial Weight	Final Volume
Run #2	5.99 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.3	9.6	3.8	ug/kg	
71-43-2	Benzene	1.6	0.48	0.24	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.35	ug/kg	
75-25-2	Bromoform	ND	1.9	0.28	ug/kg	
74-83-9	Bromomethane	ND	1.9	0.94	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.6	3.0	ug/kg	
75-15-0	Carbon disulfide	0.64	4.8	0.15	ug/kg	J
56-23-5	Carbon tetrachloride	ND	1.9	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.26	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.58	ug/kg	
67-66-3	Chloroform	ND	1.9	0.28	ug/kg	
74-87-3	Chloromethane	ND	4.8	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.9	0.32	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.9	0.52	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.9	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.49	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.43	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.41	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.28	ug/kg	
100-41-4	Ethylbenzene	1.3	1.9	0.17	ug/kg	J
591-78-6	2-Hexanone	ND	9.6	2.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.9	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.8	1.8	ug/kg	
75-09-2	Methylene chloride	ND	1.9	1.5	ug/kg	
100-42-5	Styrene	ND	4.8	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.28	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.43	ug/kg	
108-88-3	Toluene	3.0	4.8	0.23	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.33	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114		Date Sampled: 02/11/14
Lab Sample ID: MC28244-22		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 86.7
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.9	0.46	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.55	ug/kg	
1330-20-7	Xylene (total)	3.3	1.9	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.18	16	ug/kg	JN
109-66-0	Pentane	2.41	9.4	ug/kg	JN
110-54-3	Hexane	4.25	5.5	ug/kg	JN
142-82-5	Heptane	7.56	2.6	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.33	5	ug/kg	JN
66-25-1	Hexanal	10.48	1.8	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.54	2.1	ug/kg	JN
108-67-8	Benzene, 1,3,5-trimethyl-	12.96	3.3	ug/kg	JN
	Total TIC, Volatile		45.7	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID:	AL2-4(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-22	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37092.D	5	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	65	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	73	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	83	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	470	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5700	720	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	360	ug/kg	
95-48-7	2-Methylphenol	ND	2900	110	ug/kg	
106-44-5	4-Methylphenol	ND	2900	150	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	77	ug/kg	
100-02-7	4-Nitrophenol	ND	5700	540	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	200	ug/kg	
108-95-2	Phenol	ND	1400	82	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	72	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	71	ug/kg	
83-32-9	Acenaphthene	ND	570	77	ug/kg	
208-96-8	Acenaphthylene	ND	570	57	ug/kg	
120-12-7	Anthracene	ND	570	69	ug/kg	
56-55-3	Benzo(a)anthracene	79.6	570	74	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	570	62	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	570	72	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	570	57	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	570	87	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	73	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	59	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	78	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	72	ug/kg	
86-74-8	Carbazole	ND	570	68	ug/kg	
218-01-9	Chrysene	104	570	71	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	67	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	87	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	88	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-4(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-22	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1400	74	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	82	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1400	76	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	72	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	140	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	570	68	ug/kg	
132-64-9	Dibenzofuran	ND	570	79	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	45	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	72	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	53	ug/kg	
206-44-0	Fluoranthene	175	570	79	ug/kg	J
86-73-7	Fluorene	ND	570	76	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	90	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	83	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	720	ug/kg	
67-72-1	Hexachloroethane	ND	1400	69	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	570	63	ug/kg	
78-59-1	Isophorone	ND	1400	66	ug/kg	
91-57-6	2-Methylnaphthalene	ND	570	73	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	72	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	160	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	72	ug/kg	
91-20-3	Naphthalene	ND	570	92	ug/kg	
98-95-3	Nitrobenzene	ND	1400	78	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	82	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	87	ug/kg	
85-01-8	Phenanthrene	101	570	78	ug/kg	J
129-00-0	Pyrene	161	570	67	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	1400	79	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	78%		30-130%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114 Lab Sample ID: MC28244-22 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.7
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-22	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	4.3	0.92	0.19	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	26.7	4.6	0.067	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.21 B	0.37	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.039 U	0.37	0.039	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	113000	4600	58	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	9.3	0.92	0.088	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	3.9 B	4.6	0.043	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	11.2	2.3	0.51	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	10100	9.2	0.80	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	23.0	0.92	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	66300	460	4.7	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	281	1.4	0.037	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.0078 B	0.035	0.0078	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.8	3.7	0.041	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	499	460	7.9	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.46	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	2480	460	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.13 B	0.92	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	16.1	0.92	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	45.2	1.8	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.4
4

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-22	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.7		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.4		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.4
4

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-22A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Barium	0.46 B	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cadmium	0.00090 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cobalt	0.00060 B			0.050	0.00040	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Copper	0.0082 B			0.025	0.0070	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Manganese	0.84			0.015	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.014 B			0.040	0.00057	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Selenium	0.0069 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Zinc	0.055 B			0.10	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16780
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.5
4

Report of Analysis

Client Sample ID: AL2-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-22B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0086 B		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.27 B		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.00050 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00050 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.018		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0039 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.020 B		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	14.8		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.052		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.25		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.015 B		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.082 B		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.6
4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	
Lab Sample ID: MC28244-23	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 81.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28117.D	1	02/21/14	AMY	n/a	n/a	MSV1055
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.34 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	74.5	11	4.5	ug/kg	
71-43-2	Benzene	1.5	0.57	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.41	ug/kg	
75-25-2	Bromoform	ND	2.3	0.33	ug/kg	
74-83-9	Bromomethane	ND	2.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.5	ug/kg	
75-15-0	Carbon disulfide	3.9	5.7	0.17	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.69	ug/kg	
67-66-3	Chloroform	ND	2.3	0.33	ug/kg	
74-87-3	Chloromethane	ND	5.7	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.49	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	0.38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	0.62	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	0.60	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.58	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.51	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
100-41-4	Ethylbenzene	1.3	2.3	0.20	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	2.1	ug/kg	
75-09-2	Methylene chloride	ND	2.3	1.8	ug/kg	
100-42-5	Styrene	ND	5.7	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.51	ug/kg	
108-88-3	Toluene	3.0	5.7	0.28	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.40	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.3	0.54	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.65	ug/kg	
1330-20-7	Xylene (total)	3.2	2.3	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
110-54-3	Hexane	4.28	4	ug/kg	JN
1708-29-8	Furan, 2,5-dihydro-	7.37	1.2	ug/kg	JN
589-34-4	Hexane, 3-methyl-	7.57	2.3	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	4	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.54	1.9	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.97	3.6	ug/kg	JN
	Total TIC, Volatile		17	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID:	AL2-6(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-23	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	81.8
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37093.D	1	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	600	27	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1200	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1200	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1200	200	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2400	300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1200	150	ug/kg	
95-48-7	2-Methylphenol	ND	1200	48	ug/kg	
106-44-5	4-Methylphenol	ND	1200	62	ug/kg	
88-75-5	2-Nitrophenol	ND	1200	32	ug/kg	
100-02-7	4-Nitrophenol	ND	2400	230	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	85	ug/kg	
108-95-2	Phenol	ND	600	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1200	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1200	30	ug/kg	
83-32-9	Acenaphthene	ND	240	32	ug/kg	
208-96-8	Acenaphthylene	ND	240	24	ug/kg	
120-12-7	Anthracene	ND	240	29	ug/kg	
56-55-3	Benzo(a)anthracene	55.1	240	31	ug/kg	J
50-32-8	Benzo(a)pyrene	50.9	240	26	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	240	30	ug/kg	
191-24-2	Benzo(g,h,i)perylene	48.7	240	24	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	240	36	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	600	30	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	600	25	ug/kg	
91-58-7	2-Chloronaphthalene	ND	600	33	ug/kg	
106-47-8	4-Chloroaniline	ND	1200	30	ug/kg	
86-74-8	Carbazole	ND	240	28	ug/kg	
218-01-9	Chrysene	48.0	240	30	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	600	28	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	600	37	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	600	43	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	600	37	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	
Lab Sample ID: MC28244-23	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 81.8
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	600	31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	600	35	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	600	32	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1200	81	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1200	30	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	600	60	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	240	29	ug/kg	
132-64-9	Dibenzofuran	ND	240	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	600	64	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	600	19	ug/kg	
84-66-2	Diethyl phthalate	ND	600	30	ug/kg	
131-11-3	Dimethyl phthalate	ND	600	35	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	600	22	ug/kg	
206-44-0	Fluoranthene	75.5	240	33	ug/kg	J
86-73-7	Fluorene	ND	240	32	ug/kg	
118-74-1	Hexachlorobenzene	ND	600	38	ug/kg	
87-68-3	Hexachlorobutadiene	ND	600	35	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1200	300	ug/kg	
67-72-1	Hexachloroethane	ND	600	29	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	240	27	ug/kg	
78-59-1	Isophorone	ND	600	28	ug/kg	
91-57-6	2-Methylnaphthalene	ND	240	31	ug/kg	
88-74-4	2-Nitroaniline	ND	1200	30	ug/kg	
99-09-2	3-Nitroaniline	ND	1200	66	ug/kg	
100-01-6	4-Nitroaniline	ND	1200	30	ug/kg	
91-20-3	Naphthalene	ND	240	39	ug/kg	
98-95-3	Nitrobenzene	ND	600	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	600	35	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	600	36	ug/kg	
85-01-8	Phenanthrene	ND	240	33	ug/kg	
129-00-0	Pyrene	70.8	240	28	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	600	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	74%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
 4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.8
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.15 U	0.99	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	5.6	0.99	0.21	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	59.6	4.9	0.072	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.39	0.39	0.023	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.042 U	0.39	0.042	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	101000	4900	62	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	11.1	0.99	0.094	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	4.7 B	4.9	0.046	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	12.2	2.5	0.55	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	12500	9.9	0.86	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	18.8	0.99	0.17	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	58200	490	5.0	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	261	1.5	0.039	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.021 B	0.039	0.0085	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.8	3.9	0.043	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	586	490	8.4	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.34 U	0.99	0.34	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.49	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	3750	490	3.3	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.23 B	0.99	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	19.3	0.99	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	26.5	2.0	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.7
4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.8
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.8		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.6		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.7
4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114 Lab Sample ID: MC28244-23A Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 81.8
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Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.91	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00090 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0054 B			0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.0082 B			0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	3.6			0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.014 B			0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0069 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.033 B			0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16780
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-23B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.10		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	1.6		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0099		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0025 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.26		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.080		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.24		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	333		0.50	0.10	mg/l	5	02/23/14	02/25/14 EAL	SW846 6010C ³
Lead	0.25		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.7		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00064		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.22		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.69		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Instrument QC Batch: MA16787
- (4) Prep QC Batch: MP22540
- (5) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.9
4

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28118.D	1	02/21/14	AMY	n/a	n/a	MSV1055
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.41 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	57.5	11	4.2	ug/kg	
71-43-2	Benzene	1.4	0.54	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.39	ug/kg	
75-25-2	Bromoform	ND	2.2	0.31	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.64	ug/kg	
67-66-3	Chloroform	ND	2.2	0.31	ug/kg	
74-87-3	Chloromethane	ND	5.4	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.36	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.58	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.55	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.45	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.31	ug/kg	
100-41-4	Ethylbenzene	1.1	2.2	0.19	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	2.0	ug/kg	
75-09-2	Methylene chloride	ND	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.4	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.32	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.48	ug/kg	
108-88-3	Toluene	2.9	5.4	0.26	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.37	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.2	0.51	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.61	ug/kg	
1330-20-7	Xylene (total)	3.3	2.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	121%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.44	7.9	ug/kg	JN
110-54-3	Hexane	4.28	4.3	ug/kg	JN
589-34-4	Hexane, 3-methyl-	7.57	1.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	3.7	ug/kg	JN
565-80-0	3-Pentanone, 2,4-dimethyl-	10.32	1.1	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.54	2.4	ug/kg	JN
108-67-8	Benzene, 1,3,5-trimethyl-	12.97	4	ug/kg	JN
	Total TIC, Volatile		25.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL2-6(0.5-1.5)-021114D	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-24	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.9
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37094.D	1	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	93	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	71	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	30.1	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	28.9	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	28.0	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	31.7	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	19.9	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	290	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	15	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	28.3	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-6(0.5-1.5)-021114D	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-24	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.9
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	38.5	110	16	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17.8	110	13	ug/kg	J
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	290	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	20.3	110	15	ug/kg	J
129-00-0	Pyrene	43.0	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.93	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	4.2	0.93	0.19	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	29.6	4.7	0.068	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.27 B	0.37	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.039 U	0.37	0.039	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	101000	4700	58	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	8.9	0.93	0.088	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	3.6 B	4.7	0.044	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	11.1	2.3	0.52	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	9740	9.3	0.81	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	59.9	0.93	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	59600	470	4.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	288	1.4	0.037	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.0079 U	0.036	0.0079	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.5	3.7	0.041	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	602	470	8.0	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.93	0.32	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	2130	470	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.19 B	0.93	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	14.2	0.93	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	35.3	1.9	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.9		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.7		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Barium	0.74	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cobalt	0.017 B			0.050	0.00040	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Copper	0.0081 B			0.025	0.0070	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Manganese	3.9			0.015	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.016 B			0.040	0.00057	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Selenium	0.0070 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Zinc	0.037 B			0.10	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16780
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-6(0.5-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28244-24B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analized By	Method
Arsenic	0.048		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.74		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0048		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0023 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.14		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.037 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.12		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	143		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.34		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	1.3		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00028		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.11		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.44		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28244A

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes									
Company Name Weston		Project Name IDOT-042				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCs Total Metals TCDF/SLP Metals pH </div> <div style="font-size: small;"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>												LAB USE ONLY									
Street Address 750 E Bunker Ct. Suite 500		Street IL 72																									
City State Zip Vernon Hills, IL 60061		City Hampshire, IL																									
Project Contact S. Babusukumar		Project#																									
Phone # 847-918-4018		Client PO#																									
Sampler(s) Name(s) D. Cukierski		Project Manager																									
Collection		Number of preserved Bottles																									
Acetone Sample #	Field ID / Point of Collection	MECHIGI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	PHOS	HAZSC4	NO3	NO2	NO	CO	Water	MECH	ENCORE	Baseline								
-1	ALB-9 (0.5-1.5)-021114		2/11/14	0845	DC	S	3													X	X	X	X	X			
-2	ALB-9 (0.5-1.5)-021114 D		2/11/14	0845	DC	S	3													X	X	X	X	X			
-3	ALB-11 (0.5-1.5)-021114		2/11/14	0905	DC	S	3													X	X	X	X	X			
-4	ALB-13 (0.5-1.5)-021114		2/11/14	0920	DC	S	3													X	X	X	X	X			
-5	FSK-2 (0.5-1.5)-021114		2/11/14	0940	DC	S	3													X	X	X	X	X			
-6	FSK-4 (0.5-1.5)-021114		2/11/14	0955	DC	S	3													X	X	X	X	X			
-7	AL9-2 (0.5-1.5)-021114		2/11/14	1010	DC	S	3													X	X	X	X	X			
-8	AL9-4 (0.5-1.5)-021114		2/11/14	1000	DC	S	3													X	X	X	X	X			
-9	AL8-12 (0.5-1.5)-021114		2/11/14	1140	DC	S	3													X	X	X	X	X	HD		
-10	AL8-14 (0.5-1.5)-021114		2/11/14	1155	DC	S	3													X	X	X	X	X			
-11	AL8-16 (0.5-1.5)-021114		2/11/14	1210	DC	S	3													X	X	X	X	X			
-12	AL8-18 (0.5-1.5)-021114		2/11/14	1225	DC	S	3													X	X	X	X	X			
Turnaround Time (Business days)		Approved By (Accutest PM) / Date:		Commercial "A" (Level 1)		Commercial "B" (Level 2)		FULLT1 (Level 3+4)		CT RCP		MA MCP		Commercial "A" = Results Only		Commercial "B" = Results + QC Summary											
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other																					
Sample Custody must be documented below each time samples change possession, including courier delivery.																		CHICAGO SC									
Relinquished by Sampler <i>[Signature]</i>		Date Time: 2/11/14 1537		Received By: <i>[Signature]</i>		Date Time: 2/11/14 5:35		Relinquished By: FEDX		Date Time: 2-12-14		Received By: <i>[Signature]</i>															
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:															
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		<input type="checkbox"/> Preserved where applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp.															

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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28244A

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)										Matrix Codes				
Company Name Weston		Project Name IDOT-042		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SVOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCUP/SRLP Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</div> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipes FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank				
Street Address 150 E. Bunker Ct. Suite 500		Street IL 72																
City Vernon Hills, IL 60061		Billing Information (If different from Report to) Company Name Hampshire, IL																
Project Contact S. Babusukumar		Project #																
Phone # 847-918-4018		Client PO#																
Sampler(s) Name(s) Dan Cukierski		Project Manager																
Field ID / Point of Collection		MECH/DI Vis#	Date	Time	Sampled by	Matrix	# of bottles	HCl	NO3	NH4	HPO4	HPO3	NONE	DI Water	MEDI	ENCURE	Branline	LAB USE ONLY
13 AL8-18(0.5-1.5)-021114D			2/11/14	1225	DC	S	3											
14 AL2-12(0.5-1.5)-021114			2/11/14	1245	DC	S	3											
15 VLS-1(0.5-1.5)-021114			2/11/14	1305	DC	S	3											
16 SB-1(0.5-1.5)-021114			2/11/14	1320	DC	S	3											
17 AL2-15(0.5-1.5)-021114			2/11/14	1340	DC	S	3											
18 AL2-19(0.5-1.5)-021114			2/11/14	1355	DC	S	3											
19 FS3-1(0.5-1.5)-021114			2/11/14	1410	DC	S	3											
20 AL2-17(0.5-1.5)-021114			2/11/14	1425	DC	S	3											
21 AL2-2(0.5-1.5)-021114			2/11/14	1440	DC	S	3											
22 AL2-4(0.5-1.5)-021114			2/11/14	1455	DC	S	3											
23 AL2-6(0.5-1.5)-021114			2/11/14	1515	DC	S	3											
24 AL2-6(0.5-1.5)-021114D			2/11/14	1515	DC	S	3											
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information										Comments / Special Instructions				
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary														
Relinquished By: [Signature]		Date Time: 2/11/14 1537		Sample Custody must be documented below each time samples change possession, including courier delivery.										CHICAGO SC				
Relinquished By: [Signature]		Date Time: 2/11/14 1537		Received By: [Signature]	Date Time: 2/11/14 1539	Relinquished By: FEDX	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14					
Relinquished by: [Signature]		Date Time: 2/11/14 1537		Received By: [Signature]	Date Time: 2/11/14 1539	Relinquished By: FEDX	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14					
Relinquished by: [Signature]		Date Time: 2/11/14 1537		Received By: [Signature]	Date Time: 2/11/14 1539	Relinquished By: FEDX	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14	Received By: [Signature]	Date Time: 2-12-14					
Custody Seal #		<input type="checkbox"/> Intact	<input type="checkbox"/> Preserved where applicable	<input type="checkbox"/> On Ice	<input type="checkbox"/> Cooler Temp.	<input type="checkbox"/> 10-10.8-10												

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Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28245

Sampling Date: 02/11/14

Report to:

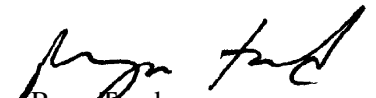
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **188**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	
Lab Sample ID: MC28245-1	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28057.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.69 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	64.7	12	4.8	ug/kg	
71-43-2	Benzene	1.8	0.62	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.45	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	8.4	12	3.8	ug/kg	J
75-15-0	Carbon disulfide	ND	6.2	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.2	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	1.2	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.2	2.3	ug/kg	
75-09-2	Methylene chloride	2.2	2.5	1.9	ug/kg	J
100-42-5	Styrene	ND	6.2	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.55	ug/kg	
108-88-3	Toluene	3.2	6.2	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.70	ug/kg	
1330-20-7	Xylene (total)	3.0	2.5	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.19	17	ug/kg	JN
109-66-0	Pentane	2.46	16	ug/kg	JN
110-54-3	Hexane	4.26	7	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.33	3.2	ug/kg	JN
872-56-0	Isopropylcyclobutane	7.36	1.5	ug/kg	JN
142-82-5	Heptane	7.56	3.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	6.4	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.97	2.7	ug/kg	JN
	Total TIC, Volatile		57.6	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	
Lab Sample ID: MC28245-1	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37115.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	93	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	72	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	15	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	14	ug/kg	
218-01-9	Chrysene	ND	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-13(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-1	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	ND	110	16	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	15	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	290	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	ND	110	15	ug/kg	
129-00-0	Pyrene	ND	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		30-130%
4165-62-2	Phenol-d5	63%		30-130%
118-79-6	2,4,6-Tribromophenol	88%		30-130%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6520	19	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.93	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	5.2	0.93	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	46.0	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.38	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.093 B	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	77400	4700	59	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	23.7	0.93	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	4.0 B	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	13.0	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	11900	9.3	0.81	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	186	0.93	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	39100	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	400	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.010 B	0.035	0.0076	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	10.2	3.7	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	734	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.32 U	0.93	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2070	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	39.1	0.93	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 U	0.93	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	18.0	0.93	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	48.4	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16751
- (4) Prep QC Batch: MP22493
- (5) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.1
 4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.4		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.8		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-1A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Barium	0.57	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cadmium	0.0017 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Chromium	0.0075 B	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cobalt	0.00040 U			0.050	0.00040	mg/l	1	02/20/14	02/24/14	EAL SW846 6010C ³
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Lead	0.0042 B	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/24/14	EAL SW846 6010C ³
Manganese	0.16			0.015	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.013 B			0.040	0.00057	mg/l	1	02/20/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0090 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Zinc	0.071 B			0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22528
- (5) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-1B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.017		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.33 B		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.0014 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0010 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.046		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.011 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.041		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	39.0		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.20		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.52		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00012 B		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.040		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.18		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28245-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28070.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.80 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	65.6	12	4.7	ug/kg	
71-43-2	Benzene	1.4	0.60	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.44	ug/kg	
75-25-2	Bromoform	ND	2.4	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.4	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	8.6	12	3.7	ug/kg	J
75-15-0	Carbon disulfide	ND	6.0	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.32	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.72	ug/kg	
67-66-3	Chloroform	ND	2.4	0.35	ug/kg	
74-87-3	Chloromethane	ND	6.0	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.51	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	0.65	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.61	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.35	ug/kg	
100-41-4	Ethylbenzene	0.98	2.4	0.21	ug/kg	J
591-78-6	2-Hexanone	ND	12	2.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.0	2.2	ug/kg	
75-09-2	Methylene chloride	2.5	2.4	1.9	ug/kg	
100-42-5	Styrene	ND	6.0	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.35	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.53	ug/kg	
108-88-3	Toluene	2.7	6.0	0.29	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.42	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28245-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.4	0.57	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.68	ug/kg	
1330-20-7	Xylene (total)	2.3	2.4	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.19	14	ug/kg	JN
109-66-0	Pentane	2.42	7.5	ug/kg	JN
110-54-3	Hexane	4.27	4.3	ug/kg	JN
142-82-5	Heptane	7.57	2.4	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.35	4.3	ug/kg	JN
622-96-8	Benzene, 1-ethyl-4-methyl-	12.97	2.1	ug/kg	JN
	Total TIC, Volatile		34.6	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	
Lab Sample ID: MC28245-2	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37116.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	93	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	71	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	15	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	ND	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-13(0-1.5)-021114D	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-2	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	ND	110	16	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	290	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	ND	110	15	ug/kg	
129-00-0	Pyrene	14.0	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D Lab Sample ID: MC28245-2 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.7
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	98%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28245-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9070	18	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	6.3	0.92	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	74.1	4.6	0.066	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.49	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.27 B	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	34000	460	5.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	20.4	0.92	0.087	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	5.3	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	15.3	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	14700	9.2	0.80	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	114	0.92	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	25200	460	4.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	373	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.015 B	0.037	0.0082	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	13.7	3.7	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	866	460	7.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.11 U	0.46	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3050	460	3.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	20.3	0.92	0.027	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	23.0	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	63.2	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.4
 4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28245-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.7		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.8		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.4
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28245-2A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Barium	0.75	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cadmium	0.0021 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Chromium	0.0025 B	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cobalt	0.00040 U			0.050	0.00040	mg/l	1	02/20/14	02/24/14	EAL SW846 6010C ³
Copper	0.0072 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Iron	0.042 B			0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Lead	0.0075 B	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/24/14	EAL SW846 6010C ³
Manganese	0.29			0.015	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.016 B			0.040	0.00057	mg/l	1	02/20/14	02/24/14	EAL SW846 6010C ³
Selenium	0.010 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Silver	0.0010 B	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Zinc	0.054 B			0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22528
- (5) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.5
4

Report of Analysis

Client Sample ID: AL2-13(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28245-2B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0059 B		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.14 B		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.00050 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.018		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.0029 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.012 B		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	9.3		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.051		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.12		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.010 B		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.062 B		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.6
4

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	
Lab Sample ID: MC28245-4	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 83.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28071.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	3.81 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	191	16	6.1	ug/kg	
71-43-2	Benzene	ND	0.78	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.57	ug/kg	
75-25-2	Bromoform	ND	3.1	0.46	ug/kg	
74-83-9	Bromomethane	ND	3.1	1.5	ug/kg	
78-93-3	2-Butanone (MEK)	29.9	16	4.9	ug/kg	
75-15-0	Carbon disulfide	ND	7.8	0.24	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.1	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.42	ug/kg	
75-00-3	Chloroethane	ND	7.8	0.94	ug/kg	
67-66-3	Chloroform	ND	3.1	0.45	ug/kg	
74-87-3	Chloromethane	ND	7.8	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.67	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	0.52	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.1	0.85	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.1	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.1	0.80	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.1	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.1	0.66	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.45	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	3.1	0.28	ug/kg	
591-78-6	2-Hexanone	ND	16	3.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.1	0.62	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.8	2.9	ug/kg	
75-09-2	Methylene chloride	3.2	3.1	2.4	ug/kg	
100-42-5	Styrene	ND	7.8	0.32	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.46	ug/kg	
127-18-4	Tetrachloroethene	ND	3.1	0.69	ug/kg	
108-88-3	Toluene	0.48	7.8	0.38	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.28	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.54	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-4	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

4.10
4

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	3.1	0.74	ug/kg	
75-01-4	Vinyl chloride	ND	3.1	0.89	ug/kg	
1330-20-7	Xylene (total)	ND	3.1	0.32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	
Lab Sample ID: MC28245-4	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37156.D	1	02/19/14	KR	02/14/14	OP36852	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	96	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	74	ug/kg	
95-48-7	2-Methylphenol	ND	590	23	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	42	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	300	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	16.1	120	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-14(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-4	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	300	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	300	11	ug/kg	
206-44-0	Fluoranthene	31.1	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	19.7	120	16	ug/kg	J
129-00-0	Pyrene	25.8	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	68%		30-130%
118-79-6	2,4,6-Tribromophenol	93%		30-130%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114 Lab Sample ID: MC28245-4 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 83.7
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.38	250	ug/kg	JN
14811-95-1	1,19-Eicosadiene	11.62	270	ug/kg	JN
7735-42-4	1,16-Hexadecanediol	12.42	260	ug/kg	JN
7225-66-3	Tridecane, 7-hexyl-	12.64	240	ug/kg	JN
	Total TIC, Semi-Volatile		1020	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-4	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.7
Project: IDOT 042 - IL 72, Hampshire, IL	

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Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10100	19	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.93	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	5.5	0.93	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	113	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.57	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	2.2	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	9250	470	5.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	14.2	0.93	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	6.3	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	14.8	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	13600	9.3	0.81	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	31.1	0.93	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	7000	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	333	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.046	0.038	0.0083	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	13.0	3.7	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	1280	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.32 U	0.93	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	2360	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	16.3	0.93	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.93	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	26.2	0.93	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	52.8	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-4	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.7
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.7		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.0		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-4A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.014	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Barium	1.2	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cadmium	0.036	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cobalt	0.051			0.050	0.00040	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Copper	0.012 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Iron	1.2			0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Lead	0.071	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Manganese	10.5			0.015	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.067			0.040	0.00057	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Selenium	0.0081 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Zinc	0.34			0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-14(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-4B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.017		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.30 B		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.00060 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0014 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.018		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.0063 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.031		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	14.5		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.049		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.16		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.020 B		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.080 B		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114	
Lab Sample ID: MC28245-5	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 87.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28061.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.47 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19.3	10	4.1	ug/kg	
71-43-2	Benzene	1.5	0.52	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.38	ug/kg	
75-25-2	Bromoform	ND	2.1	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.1	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.28	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.63	ug/kg	
67-66-3	Chloroform	ND	2.1	0.30	ug/kg	
74-87-3	Chloromethane	ND	5.2	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	0.35	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	0.57	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.53	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.44	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.30	ug/kg	
100-41-4	Ethylbenzene	1.2	2.1	0.19	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.2	1.9	ug/kg	
75-09-2	Methylene chloride	2.5	2.1	1.6	ug/kg	
100-42-5	Styrene	ND	5.2	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.31	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.46	ug/kg	
108-88-3	Toluene	2.9	5.2	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114		Date Sampled: 02/11/14
Lab Sample ID: MC28245-5		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 87.6
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.1	0.49	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.59	ug/kg	
1330-20-7	Xylene (total)	3.1	2.1	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.43	9.7	ug/kg	JN
10043-35-3	Boric Acid	2.99	3.9	ug/kg	JN
110-54-3	Hexane	4.26	5.1	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.33	2.3	ug/kg	JN
142-82-5	Heptane	7.57	1.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	4.3	ug/kg	JN
110-62-3	Pentanal	8.47	2.3	ug/kg	JN
565-80-0	3-Pentanone, 2,4-dimethyl-	10.32	1.5	ug/kg	JN
66-25-1	Hexanal	10.48	17	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.55	1.5	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.97	2.9	ug/kg	JN
	Total TIC, Volatile		52.3	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114	
Lab Sample ID: MC28245-5	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 87.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37157.D	5	02/19/14	KR	02/14/14	OP36852	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	63	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	71	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	460	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5600	700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	350	ug/kg	
95-48-7	2-Methylphenol	ND	2800	110	ug/kg	
106-44-5	4-Methylphenol	ND	2800	140	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	75	ug/kg	
100-02-7	4-Nitrophenol	ND	5600	520	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	200	ug/kg	
108-95-2	Phenol	ND	1400	79	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	70	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	69	ug/kg	
83-32-9	Acenaphthene	ND	560	75	ug/kg	
208-96-8	Acenaphthylene	ND	560	56	ug/kg	
120-12-7	Anthracene	ND	560	67	ug/kg	
56-55-3	Benzo(a)anthracene	ND	560	72	ug/kg	
50-32-8	Benzo(a)pyrene	ND	560	60	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	560	70	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	560	56	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	560	84	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	71	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	57	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	76	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	70	ug/kg	
86-74-8	Carbazole	ND	560	66	ug/kg	
218-01-9	Chrysene	84.1	560	69	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	66	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	85	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	86	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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4

Report of Analysis

Client Sample ID:	AL2-16(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-5	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1400	72	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	80	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1400	74	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	70	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	140	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	560	67	ug/kg	
132-64-9	Dibenzofuran	ND	560	77	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	44	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	70	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	81	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	52	ug/kg	
206-44-0	Fluoranthene	134	560	76	ug/kg	J
86-73-7	Fluorene	ND	560	74	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	87	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	81	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	560	62	ug/kg	
78-59-1	Isophorone	ND	1400	64	ug/kg	
91-57-6	2-Methylnaphthalene	ND	560	71	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	70	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	150	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	70	ug/kg	
91-20-3	Naphthalene	ND	560	90	ug/kg	
98-95-3	Nitrobenzene	ND	1400	75	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	80	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	84	ug/kg	
85-01-8	Phenanthrene	92.0	560	76	ug/kg	J
129-00-0	Pyrene	148	560	66	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	1400	77	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		30-130%
4165-62-2	Phenol-d5	57%		30-130%
118-79-6	2,4,6-Tribromophenol	76%		30-130%
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114 Lab Sample ID: MC28245-5 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 87.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
14811-95-1	1,19-Eicosadiene	12.42	1200	ug/kg	JN
	Total TIC, Semi-Volatile		1200	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
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Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2830	18	3.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.91	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	2.3	0.91	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	15.1	4.5	0.066	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.17 B	0.36	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.038 U	0.36	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	156000	4500	57	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	7.3	0.91	0.086	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	1.9 B	4.5	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	7.4	2.3	0.50	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	6260	9.1	0.79	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	18.1	0.91	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	99400	4500	46	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	246	1.4	0.036	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.021 B	0.037	0.0081	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	4.8	3.6	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	592	450	7.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.31 U	0.91	0.31	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.11 U	0.45	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	1960	450	3.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	47.0	0.91	0.027	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.13 B	0.91	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	10.3	0.91	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	20.7	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16751
- (4) Prep QC Batch: MP22493
- (5) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.6
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.6		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.3		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-5A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Barium	0.36 B	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cadmium	0.0014 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cobalt	0.018 B			0.050	0.00040	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Copper	0.0076 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Lead	0.010	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Manganese	2.1			0.015	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.017 B			0.040	0.00057	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Selenium	0.0092 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Zinc	0.12			0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-16(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-5B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0070 B		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.18 B		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.00050 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.018		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.0033 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.016 B		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	10.8		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.085		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.18		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.011 B		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.074 B		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114	
Lab Sample ID: MC28245-6	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28062.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.79 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	79.7	12	4.8	ug/kg	
71-43-2	Benzene	3.1	0.61	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.44	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	0.92	6.1	0.19	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.73	ug/kg	
67-66-3	Chloroform	ND	2.5	0.35	ug/kg	
74-87-3	Chloromethane	ND	6.1	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	2.1	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.1	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.1	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.54	ug/kg	
108-88-3	Toluene	6.6	6.1	0.30	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.16
 4

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114		Date Sampled: 02/11/14
Lab Sample ID: MC28245-6		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 85.2
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.70	ug/kg	
1330-20-7	Xylene (total)	5.1	2.5	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.19	27	ug/kg	JN
109-66-0	Pentane	2.41	17	ug/kg	JN
96-14-0	Pentane, 3-methyl-	3.85	5.8	ug/kg	JN
110-54-3	Hexane	4.26	11	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.33	6.3	ug/kg	JN
589-34-4	Hexane, 3-methyl-	6.83	3.2	ug/kg	JN
1192-33-2	Cyclobutanone, 3,3-dimethyl-	7.37	3.1	ug/kg	JN
142-82-5	Heptane	7.57	7.4	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	12	ug/kg	JN
760-20-3	1-Pentene, 3-methyl-	9.81	5.5	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.55	2.6	ug/kg	JN
108-67-8	Benzene, 1,3,5-trimethyl-	12.97	5.2	ug/kg	JN
	Total TIC, Volatile		106.1	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.16
4

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114	
Lab Sample ID: MC28245-6	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37158.D	1	02/19/14	KR	02/14/14	OP36852	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	71	ug/kg	
95-48-7	2-Methylphenol	ND	570	22	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	ND	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-18(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-6	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	ND	110	16	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	13	ug/kg	
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	ND	110	15	ug/kg	
129-00-0	Pyrene	17.7	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	85%		30-130%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114 Lab Sample ID: MC28245-6 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.2
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	3.85	230	ug/kg	JN
	Total TIC, Semi-Volatile		230	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-6	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9260	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	6.7	0.94	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	81.2	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.47	0.38	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.085 B	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	17200	470	5.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	12.1	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	5.2	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	13.3	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	14600	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	12.6	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	12500	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	468	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.030 B	0.034	0.0075	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	12.9	3.8	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	735	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	2710	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	11.1	0.94	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	24.6	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	39.8	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16752
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.16
4

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-6	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

4.16
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.2		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.5		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114 Lab Sample ID: MC28245-6A Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.2
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Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.81	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00080 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.00050 B			0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.0071 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	1.1			0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.0080 B			0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0082 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.028 B			0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.17
4

Report of Analysis

Client Sample ID: AL2-18(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-6B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.029		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.55		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.0021 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0010 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.062		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.018 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.057		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	65.1		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.071		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.90		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00010 B		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.062		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.21		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.18
4

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.4
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V28065.D	1	02/19/14	AMY	n/a	n/a	MSV1053

Run #1	Initial Weight	Final Volume
Run #2	5.20 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	53.3	11	4.2	ug/kg	
71-43-2	Benzene	1.5	0.54	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.39	ug/kg	
75-25-2	Bromoform	ND	2.2	0.32	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.65	ug/kg	
67-66-3	Chloroform	ND	2.2	0.31	ug/kg	
74-87-3	Chloromethane	ND	5.4	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.36	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.59	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.57	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.55	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.46	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
100-41-4	Ethylbenzene	1.0	2.2	0.19	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	2.0	ug/kg	
75-09-2	Methylene chloride	3.1	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.4	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.32	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.48	ug/kg	
108-88-3	Toluene	2.6	5.4	0.26	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.38	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114		Date Sampled: 02/11/14
Lab Sample ID: MC28245-9		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 88.4
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.2	0.52	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.62	ug/kg	
1330-20-7	Xylene (total)	2.3	2.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.45	8	ug/kg	JN
110-54-3	Hexane	4.30	4.3	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.35	2.4	ug/kg	JN
142-82-5	Heptane	7.58	2	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.35	4.6	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.55	1.2	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.97	2.2	ug/kg	JN
	Total TIC, Volatile		24.7	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114	
Lab Sample ID: MC28245-9	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 88.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37161.D	1	02/19/14	KR	02/14/14	OP36852	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	51.1	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	47.3	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	47.8	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	35.4	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	35.9	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	62.3	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID:	AL2-3(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-9	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.4
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	83.3	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	23.8	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	59.7	110	15	ug/kg	J
129-00-0	Pyrene	95.0	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		30-130%
4165-62-2	Phenol-d5	61%		30-130%
118-79-6	2,4,6-Tribromophenol	86%		30-130%
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114 Lab Sample ID: MC28245-9 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 88.4
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.25
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2230	18	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.91	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	1.8	0.91	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	16.3	4.6	0.066	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.16 B	0.36	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.039 U	0.36	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	159000	4600	57	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	7.0	0.91	0.087	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	2.1 B	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	9.6	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	6760	9.1	0.79	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	22.3	0.91	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	101000	4600	47	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	263	1.4	0.036	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.023 B	0.035	0.0078	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	6.8	3.6	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	669	460	7.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.32 U	0.91	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.11 U	0.46	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2200	460	3.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	49.7	0.91	0.027	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.13 B	0.91	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	9.5	0.91	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	36.0	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16752
- (4) Prep QC Batch: MP22493
- (5) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.25
4

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.4
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.4		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.2		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.25
4

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-9A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Barium	0.33 B	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.021 B			0.050	0.00040	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Copper	0.0082 B			0.025	0.0070	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Lead	0.0029 B	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Manganese	2.3			0.015	0.00081	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.024 B			0.040	0.00057	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Selenium	0.0088 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Silver	0.0011 B	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Zinc	0.097 B			0.10	0.00050	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-9B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0059 B		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.18 B		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.00050 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.017		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.0031 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.016 B		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	11.5		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.032		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.13		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.011 B		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.078 B		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.27
4

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114	
Lab Sample ID: MC28245-10	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V28066.D	1	02/19/14	AMY	n/a	n/a	MSV1053

Run #1	Initial Weight	Final Volume
Run #2	4.62 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	209	13	5.0	ug/kg	
71-43-2	Benzene	2.8	0.64	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.46	ug/kg	
75-25-2	Bromoform	ND	2.6	0.37	ug/kg	
74-83-9	Bromomethane	ND	2.6	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	51.8	13	4.0	ug/kg	
75-15-0	Carbon disulfide	2.3	6.4	0.19	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.6	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.34	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.77	ug/kg	
67-66-3	Chloroform	ND	2.6	0.37	ug/kg	
74-87-3	Chloromethane	ND	6.4	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	0.42	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	0.69	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.65	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.57	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.37	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.37	ug/kg	
100-41-4	Ethylbenzene	2.3	2.6	0.23	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	0.51	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.4	2.4	ug/kg	
75-09-2	Methylene chloride	6.7	2.6	2.0	ug/kg	
100-42-5	Styrene	ND	6.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.38	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.57	ug/kg	
108-88-3	Toluene	5.5	6.4	0.31	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.44	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.28
4

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.86	2.6	0.61	ug/kg	J
75-01-4	Vinyl chloride	ND	2.6	0.73	ug/kg	
1330-20-7	Xylene (total)	5.4	2.6	0.26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	77%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.21	24	ug/kg	JN
109-66-0	Pentane	2.44	17	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.34	6.6	ug/kg	JN
589-34-4	Hexane, 3-methyl-	6.84	2.9	ug/kg	JN
592-76-7	1-Heptene	7.38	3	ug/kg	JN
142-82-5	Heptane	7.57	5.6	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.35	12	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.55	3.4	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.97	5.4	ug/kg	JN
	Total TIC, Volatile		79.9	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114	
Lab Sample ID: MC28245-10	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37162.D	1	02/19/14	KR	02/14/14	OP36852	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	73	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	25.8	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	23.5	120	13	ug/kg	J
205-99-2	Benzo(b)fluoranthene	24.5	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	19.1	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	27.9	290	12	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	35.7	120	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-5(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-10	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	13.9	290	11	ug/kg	J
206-44-0	Fluoranthene	41.6	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	14.0	120	13	ug/kg	J
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	15	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	32.8	120	16	ug/kg	J
129-00-0	Pyrene	52.9	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		30-130%
4165-62-2	Phenol-d5	66%		30-130%
118-79-6	2,4,6-Tribromophenol	91%		30-130%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114 Lab Sample ID: MC28245-10 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 84.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.38	280	ug/kg	JN
14811-95-1	1,19-Eicosadiene	11.62	620	ug/kg	JN
7390-81-0	Oxirane, hexadecyl-	12.42	290	ug/kg	JN
67860-04-2	Oxirane, heptadecyl-	13.25	260	ug/kg	JN
	Total TIC, Semi-Volatile		1450	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.28
4

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	12000	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	8.0	0.94	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	60.8	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.53	0.38	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.11 B	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	23900	470	5.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	15.0	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	7.0	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	16.2	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	16900	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	27.2	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	16900	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	296	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.023 B	0.038	0.0083	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	14.4	3.8	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	893	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3660	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	14.3	0.94	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	29.8	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	48.0	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

(1) Instrument QC Batch: MA16742

(2) Instrument QC Batch: MA16752

(3) Prep QC Batch: MP22493

(4) Prep QC Batch: MP22509

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114 Lab Sample ID: MC28245-10 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 84.6
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4.28
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.6		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.3		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-10A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0061 B	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Barium	0.80	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0025 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.047 B			0.050	0.00040	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Copper	0.011 B			0.025	0.0070	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Iron	2.2			0.10	0.020	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Lead	0.027	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Manganese	6.4			0.015	0.00081	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.039 B			0.040	0.00057	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Selenium	0.0066 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²
Zinc	0.14			0.10	0.00050	mg/l	1	02/20/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-5(0-1.5)-021114 Lab Sample ID: MC28245-10B Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 84.6
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Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.045		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.72		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.0021 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0011 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.063		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.020 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.074		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	57.3		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.12		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	0.57		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00012 B		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.058		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0023 B		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.24		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes													
Company Name Western		Project Name FDOT-042 Hampshire				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SIXES</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCC P/S/DP Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DBP</div> </div>										DIV - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank													
Street Address 750 E. Banker Ct Ste 500		Street																											
City State Zip Warren Hills IL 60061		City State Zip																											
Project Contact S. Babusankumar		Project#																											
Phone # Fax # 847-918-4018		Client PCW																											
Sampler(s) Name(s) T. Walsh		Project Manager Matt Maxwell																											
Field ID / Point of Collection		MECH/DI Vial #		Date														Time		Sampled by		Matrix		# of bottles		Number of preserved bottles		LAB USE ONLY	
-1 AL2-13(0-1.5)-021114				2-11-14														1255		TW S		3		3		X		X	
-2 AL2-13(0-1.5)-021114D																		1255								X		X	
-3 AL2-2(0-1.5)-021114						1315								X		X													
-4 AL2-14(0-1.5)-021114						1330								X		X													
-5 AL2-16(0-1.5)-021114						1345								X		X													
-6 AL2-18(0-1.5)-021114						1400								X		X													
-7 FS3-2(0-1.5)-021114						1415								X		X													
-8 AL2-1(0-1.5)-021114						1435								X		X													
-9 AL2-3(0-1.5)-021114						1450								X		X													
-10 AL2-5(0-1.5)-021114				2-11-14		1505		TW S		3		3		X		X													
				762 after 2-11-14																									
Turnaround Time (Business days)				Approved By (Accutest PM): / Date:				Data Deliverable Information				Comments / Special Instructions																	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink								<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary																					
Sample Custody must be documented below each time samples change possession, including courier delivery.												CHICAGO SC																	
Relinquished by Sampler: 1 T. Walsh		Date Time: 2-11-14/1536		Received By: Samir Patel 2/11/14 3:36		Relinquished By: FDX		Date Time: 2-11-14		Received By: Walter Moore		Date Time: 2-11-14		Received By: Walter Moore															
Relinquished by Sampler: 3		Date Time:		Received By: 3		Relinquished By: 4		Date Time:		Received By: 4		Date Time:		Received By:															
Relinquished by: 5		Date Time:		Received By: 5		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not intact		Preserved where applicable		<input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp.		<input checked="" type="checkbox"/> 10-1.1-03-20															

5.1 5

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28270

Sampling Date: 02/12/14

Report to:

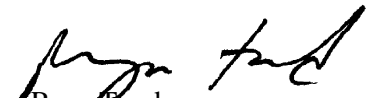
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **279**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-1	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28072.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.70 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	63.9	12	4.8	ug/kg	
71-43-2	Benzene	1.7	0.62	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.45	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.2	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	1.4	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.2	2.3	ug/kg	
75-09-2	Methylene chloride	3.0	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.2	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.37	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.55	ug/kg	
108-88-3	Toluene	3.4	6.2	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-1	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.59	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.71	ug/kg	
1330-20-7	Xylene (total)	3.1	2.5	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	77%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
5618-62-2	Hydroxylamine, O-(2-methylpropyl)-	7.57	2.2	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	4.2	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.97	2.8	ug/kg	JN
	Total TIC, Volatile		9.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID:	AL2-7(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-1	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37140.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	560	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	31.7	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	36.7	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	35.9	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	38.2	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	26.1	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	15.1	280	11	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	35.4	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-7(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-1	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	51.9	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	27.6	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	21.0	110	15	ug/kg	J
129-00-0	Pyrene	49.1	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	67%		30-130%
118-79-6	2,4,6-Tribromophenol	91%		30-130%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214 Lab Sample ID: MC28270-1 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 85.7
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-1	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	6.0	0.94	0.20	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	65.1	4.7	0.068	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.40	0.38	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	63700	4700	59	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	11.9	0.94	0.089	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	5.6	4.7	0.044	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	11.4	2.4	0.52	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	13500	9.4	0.82	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	25.0	0.94	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	37800	470	4.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	460	1.4	0.038	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.029 B	0.034	0.0074	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	10.8	3.8	0.041	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	689	470	8.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	4030	470	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.21 B	0.94	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	20.3	0.94	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	34.1	1.9	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA16753

(2) Instrument QC Batch: MA16755

(3) Prep QC Batch: MP22500

(4) Prep QC Batch: MP22510

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-1	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.7		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.1		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-1A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0035 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	1.0	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.0051 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.020 B			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.064 B			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	5.7			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.014 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0097 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.043 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-1B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.066		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	0.91		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0058		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0012 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.16		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.050		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.13		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	168		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.24		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.1		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00029		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.14		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0012 B		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.48		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D	
Lab Sample ID: MC28270-2	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28073.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	3.33 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	69.8	18	6.8	ug/kg	
71-43-2	Benzene	2.4	0.88	0.43	ug/kg	
75-27-4	Bromodichloromethane	ND	3.5	0.64	ug/kg	
75-25-2	Bromoform	ND	3.5	0.51	ug/kg	
74-83-9	Bromomethane	ND	3.5	1.7	ug/kg	
78-93-3	2-Butanone (MEK)	ND	18	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	8.8	0.27	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.5	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	3.5	0.47	ug/kg	
75-00-3	Chloroethane	ND	8.8	1.1	ug/kg	
67-66-3	Chloroform	ND	3.5	0.51	ug/kg	
74-87-3	Chloromethane	ND	8.8	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	3.5	0.75	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.5	0.58	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.5	0.95	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.5	0.91	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.5	0.89	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.5	0.78	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.5	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.5	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.5	0.51	ug/kg	
100-41-4	Ethylbenzene	1.9	3.5	0.31	ug/kg	J
591-78-6	2-Hexanone	ND	18	4.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.5	0.70	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	8.8	3.2	ug/kg	
75-09-2	Methylene chloride	4.6	3.5	2.7	ug/kg	
100-42-5	Styrene	ND	8.8	0.36	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.5	0.52	ug/kg	
127-18-4	Tetrachloroethene	ND	3.5	0.78	ug/kg	
108-88-3	Toluene	4.7	8.8	0.43	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	3.5	0.32	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.5	0.61	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D		Date Sampled: 02/12/14
Lab Sample ID: MC28270-2		Date Received: 02/13/14
Matrix: SO - Soil		Percent Solids: 85.6
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	3.5	0.83	ug/kg	
75-01-4	Vinyl chloride	ND	3.5	1.0	ug/kg	
1330-20-7	Xylene (total)	4.2	3.5	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.43	12	ug/kg	JN
110-54-3	Hexane	4.27	6.2	ug/kg	JN
142-82-5	Heptane	7.57	3.1	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	7.1	ug/kg	JN
565-80-0	3-Pentanone, 2,4-dimethyl-	10.32	1.9	ug/kg	JN
98-82-8	Benzene, (1-methylethyl)-	12.98	4.3	ug/kg	JN
	Total TIC, Volatile		34.6	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D	
Lab Sample ID: MC28270-2	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37141.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	73	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	34.1	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	34.8	120	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	33.7	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	26.8	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	26.8	120	18	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	21.5	290	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	45.6	120	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-7(0.5-1.5)-021214D	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-2	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	73.1	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	22.3	120	13	ug/kg	J
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	15	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	48.4	120	16	ug/kg	J
129-00-0	Pyrene	72.6	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	68%		30-130%
118-79-6	2,4,6-Tribromophenol	92%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D	Date Sampled: 02/12/14
Lab Sample ID: MC28270-2	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.6
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	99%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
7225-64-1	Heptadecane, 9-octyl-	11.06	380	ug/kg	JN
544-76-3	Hexadecane	12.63	470	ug/kg	JN
	Total TIC, Semi-Volatile		850	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D	Date Sampled: 02/12/14
Lab Sample ID: MC28270-2	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	6.5	0.94	0.20	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	58.0	4.7	0.068	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.33 B	0.38	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	71500	4700	59	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	10.6	0.94	0.090	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	5.4	4.7	0.044	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	12.1	2.4	0.52	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	12000	9.4	0.82	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	63.1	0.94	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	40500	470	4.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	439	1.4	0.038	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.021 B	0.037	0.0080	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	10.2	3.8	0.041	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	644	470	8.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	3370	470	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.13 U	0.94	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	16.1	0.94	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	41.1	1.9	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.4
 4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D Lab Sample ID: MC28270-2 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 85.6
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.6		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.3		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

4.4
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D	Date Sampled: 02/12/14
Lab Sample ID: MC28270-2A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0043 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	0.83	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0017 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.0050 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.14			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	6.4			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.016 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0098 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.036 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.5
4

Report of Analysis

Client Sample ID: AL2-7(0.5-1.5)-021214D	Date Sampled: 02/12/14
Lab Sample ID: MC28270-2B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.020		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	0.81		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0012 B		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00050 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.037		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.012 B		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.034		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	37.7		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.061		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.61		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.031 B		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.15		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.6
4

Report of Analysis

Client Sample ID: AL2-8(0.5-1.5)-021214	
Lab Sample ID: MC28270-3	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28074.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.22 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	22.1	11	4.2	ug/kg	
71-43-2	Benzene	2.4	0.54	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.39	ug/kg	
75-25-2	Bromoform	ND	2.2	0.31	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.65	ug/kg	
67-66-3	Chloroform	ND	2.2	0.31	ug/kg	
74-87-3	Chloromethane	ND	5.4	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.36	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.59	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.55	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.46	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
100-41-4	Ethylbenzene	1.7	2.2	0.19	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	2.0	ug/kg	
75-09-2	Methylene chloride	3.1	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.4	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.32	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.48	ug/kg	
108-88-3	Toluene	4.4	5.4	0.26	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.38	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-8(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-3	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.2	0.51	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.62	ug/kg	
1330-20-7	Xylene (total)	3.6	2.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.20	16	ug/kg	JN
109-66-0	Pentane	2.46	14	ug/kg	JN
110-54-3	Hexane	4.28	6	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.35	3.4	ug/kg	JN
589-34-4	Hexane, 3-methyl-	6.84	1.9	ug/kg	JN
142-82-5	Heptane	7.58	3	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.35	6.8	ug/kg	JN
2213-23-2	Heptane, 2,4-dimethyl-	9.82	1.9	ug/kg	JN
565-80-0	3-Pentanone, 2,4-dimethyl-	10.33	2.4	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.55	1.6	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.97	3.1	ug/kg	JN
	Total TIC, Volatile		60.1	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-8(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-3	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37142.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	270	12	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	550	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	550	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	550	90	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	550	69	ug/kg	
95-48-7	2-Methylphenol	ND	550	22	ug/kg	
106-44-5	4-Methylphenol	ND	550	28	ug/kg	
88-75-5	2-Nitrophenol	ND	550	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	550	39	ug/kg	
108-95-2	Phenol	ND	270	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	550	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	550	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	43.1	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	44.4	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	33.8	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	41.6	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	42.4	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	270	14	ug/kg	
85-68-7	Butyl benzyl phthalate	17.6	270	11	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	270	15	ug/kg	
106-47-8	4-Chloroaniline	ND	550	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	45.1	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	270	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL2-8(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-3	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	270	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	270	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	550	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	550	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	8.6	ug/kg	
84-66-2	Diethyl phthalate	ND	270	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	14.3	270	10	ug/kg	J
206-44-0	Fluoranthene	72.4	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	550	140	ug/kg	
67-72-1	Hexachloroethane	ND	270	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.3	110	12	ug/kg	J
78-59-1	Isophorone	ND	270	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	550	14	ug/kg	
99-09-2	3-Nitroaniline	ND	550	30	ug/kg	
100-01-6	4-Nitroaniline	ND	550	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	270	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	17	ug/kg	
85-01-8	Phenanthrene	40.5	110	15	ug/kg	J
129-00-0	Pyrene	68.7	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	270	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-8(0.5-1.5)-021214 Lab Sample ID: MC28270-3 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 88.5
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	98%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
112-95-8	Eicosane	11.06	300	ug/kg JN
	Total TIC, Semi-Volatile		300	ug/kg J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: AL2-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-3	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.91	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	10.6	0.91	0.19	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	26.1	4.6	0.066	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.27 B	0.36	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.039 U	0.36	0.039	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	137000	4600	57	mg/kg	10	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	8.6	0.91	0.087	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	2.8 B	4.6	0.043	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	8.0	2.3	0.51	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	12100	9.1	0.79	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	14.8	0.91	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	75600	460	4.7	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	327	1.4	0.036	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.011 B	0.038	0.0083	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	7.6	3.6	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	572	460	7.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.91	0.32	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.11 U	0.46	0.11	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	3140	460	3.0	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.29 B	0.91	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	11.2	0.91	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	25.5	1.8	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA16753

(2) Instrument QC Batch: MA16755

(3) Prep QC Batch: MP22500

(4) Prep QC Batch: MP22510

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-8(0.5-1.5)-021214 Lab Sample ID: MC28270-3 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 88.5
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.5		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.8		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

4.7
4

Report of Analysis

Client Sample ID: AL2-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-3A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0043 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	0.46 B	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0010 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.012 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.012 B			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	2.5			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.020 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.011 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.051 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: AL2-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-3B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.026		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	0.29 B		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0017 B		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00070 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.054		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.014 B		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.048		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	53.0		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.13		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.67		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.045		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.26		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.9
4

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214	
Lab Sample ID: MC28270-4	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 81.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V28075.D	1	02/19/14	AMY	n/a	n/a	MSV1053

Run #1	Initial Weight	Final Volume
Run #2	3.04 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	92.0	20	7.8	ug/kg	
71-43-2	Benzene	2.8	1.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	0.73	ug/kg	
75-25-2	Bromoform	ND	4.0	0.59	ug/kg	
74-83-9	Bromomethane	ND	4.0	2.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	20	6.2	ug/kg	
75-15-0	Carbon disulfide	1.7	10	0.30	ug/kg	J
56-23-5	Carbon tetrachloride	ND	4.0	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	0.54	ug/kg	
75-00-3	Chloroethane	ND	10	1.2	ug/kg	
67-66-3	Chloroform	ND	4.0	0.58	ug/kg	
74-87-3	Chloromethane	ND	10	2.5	ug/kg	
124-48-1	Dibromochloromethane	ND	4.0	0.86	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	0.67	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.0	0.90	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	0.85	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	0.58	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	0.59	ug/kg	
100-41-4	Ethylbenzene	2.1	4.0	0.36	ug/kg	J
591-78-6	2-Hexanone	ND	20	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	0.80	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	3.7	ug/kg	
75-09-2	Methylene chloride	3.8	4.0	3.1	ug/kg	J
100-42-5	Styrene	ND	10	0.41	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	0.59	ug/kg	
127-18-4	Tetrachloroethene	ND	4.0	0.89	ug/kg	
108-88-3	Toluene	5.5	10	0.49	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	4.0	0.36	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	0.70	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214		Date Sampled: 02/12/14
Lab Sample ID: MC28270-4		Date Received: 02/13/14
Matrix: SO - Soil		Percent Solids: 81.6
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	4.0	0.95	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	1.1	ug/kg	
1330-20-7	Xylene (total)	4.4	4.0	0.41	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	77%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
110-54-3	Hexane	4.28	6.7	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.34	4.3	ug/kg	JN
142-82-5	Heptane	7.57	3.7	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	8.3	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.97	3.5	ug/kg	JN
	Total TIC, Volatile		26.5	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214	
Lab Sample ID: MC28270-4	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 81.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37143.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	14	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	610	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	610	18	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	610	99	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	610	76	ug/kg	
95-48-7	2-Methylphenol	ND	610	24	ug/kg	
106-44-5	4-Methylphenol	ND	610	31	ug/kg	
88-75-5	2-Nitrophenol	ND	610	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	610	43	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	610	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	610	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	16	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	22.7	300	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	610	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	15.0	120	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	19	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10
 4

Report of Analysis

Client Sample ID:	AL2-9(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-4	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	81.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	300	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	610	41	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	610	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	32	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.5	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	300	11	ug/kg	
206-44-0	Fluoranthene	22.2	120	17	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	610	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	610	15	ug/kg	
99-09-2	3-Nitroaniline	ND	610	33	ug/kg	
100-01-6	4-Nitroaniline	ND	610	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	16.9	120	16	ug/kg	J
129-00-0	Pyrene	21.8	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		30-130%
4165-62-2	Phenol-d5	62%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214 Lab Sample ID: MC28270-4 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 81.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-4	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 81.6
Project: IDOT 042 - IL 72, Hampshire, IL	

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Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.15 U	0.99	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	8.7	0.99	0.21	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	94.1	4.9	0.072	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.52	0.40	0.024	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.18 B	0.40	0.042	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	51100	490	6.2	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	14.4	0.99	0.094	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	5.8	4.9	0.046	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	14.5	2.5	0.55	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	18400	9.9	0.86	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	21.8	0.99	0.17	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	34500	490	5.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	521	1.5	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.031 B	0.036	0.0079	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	14.4	4.0	0.043	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	736	490	8.5	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.34 U	0.99	0.34	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.49	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	4040	490	3.3	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.19 B	0.99	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	26.9	0.99	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	37.2	2.0	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-4	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 81.6
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.6		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.7		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-4A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 81.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0064 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	1.1	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0050	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.035 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.018 B			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.27			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0033 B	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	6.7			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.026 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0078 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.043 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-9(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-4B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 81.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.11		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	1.5		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0093		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0023 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.24		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.070		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.21		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	252		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.29		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.6		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00056		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.20		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.59		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214	
Lab Sample ID: MC28270-6	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 87.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28077.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.34 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	83.3	13	5.2	ug/kg	
71-43-2	Benzene	4.1	0.66	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.48	ug/kg	
75-25-2	Bromoform	ND	2.6	0.38	ug/kg	
74-83-9	Bromomethane	ND	2.6	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	7.6	13	4.1	ug/kg	J
75-15-0	Carbon disulfide	2.2	6.6	0.20	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.6	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.36	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.79	ug/kg	
67-66-3	Chloroform	ND	2.6	0.38	ug/kg	
74-87-3	Chloromethane	ND	6.6	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	0.44	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	0.72	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	0.69	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.67	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.56	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.38	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.39	ug/kg	
100-41-4	Ethylbenzene	2.9	2.6	0.23	ug/kg	
591-78-6	2-Hexanone	ND	13	3.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	0.52	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.6	2.4	ug/kg	
75-09-2	Methylene chloride	3.2	2.6	2.0	ug/kg	
100-42-5	Styrene	ND	6.6	0.27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.59	ug/kg	
108-88-3	Toluene	8.0	6.6	0.32	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.46	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214		Date Sampled: 02/12/14
Lab Sample ID: MC28270-6		Date Received: 02/13/14
Matrix: SO - Soil		Percent Solids: 87.2
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.6	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.75	ug/kg	
1330-20-7	Xylene (total)	6.6	2.6	0.27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.19	30	ug/kg	JN
109-66-0	Pentane	2.44	24	ug/kg	JN
96-14-0	Pentane, 3-methyl-	3.85	6.8	ug/kg	JN
110-54-3	Hexane	4.29	13	ug/kg	JN
142-82-5	Heptane	7.57	7.4	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	14	ug/kg	JN
	Total TIC, Volatile		95.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214	
Lab Sample ID: MC28270-6	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 87.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37145.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	550	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	550	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	550	90	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	550	69	ug/kg	
95-48-7	2-Methylphenol	ND	550	22	ug/kg	
106-44-5	4-Methylphenol	ND	550	28	ug/kg	
88-75-5	2-Nitrophenol	ND	550	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	550	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	550	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	550	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	41.4	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	36.0	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	35.1	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	28.6	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	28.2	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	17.3	280	11	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	550	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	48.1	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL2-10(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-6	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	87.2
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	550	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	550	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	18.2	280	10	ug/kg	J
206-44-0	Fluoranthene	78.0	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	550	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20.3	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	550	14	ug/kg	
99-09-2	3-Nitroaniline	ND	550	30	ug/kg	
100-01-6	4-Nitroaniline	ND	550	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	49.7	110	15	ug/kg	J
129-00-0	Pyrene	79.6	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	93%		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214 Lab Sample ID: MC28270-6 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 87.2
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-6	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 87.2
Project: IDOT 042 - IL 72, Hampshire, IL	

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Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	5.5	0.92	0.19	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	95.9	4.6	0.067	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.52	0.37	0.022	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.065 B	0.37	0.039	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	31800	460	5.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	14.5	0.92	0.088	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	5.9	4.6	0.043	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	14.2	2.3	0.51	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	14700	9.2	0.80	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	23.5	0.92	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	17700	460	4.7	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	436	1.4	0.037	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.023 B	0.035	0.0076	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	18.0	3.7	0.041	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	788	460	7.9	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.46	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	2850	460	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	21.7	0.92	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	35.6	1.8	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-6	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 87.2
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.2		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.8		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-6A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 87.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0065 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	1.3	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0031 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.037 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.45			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.024	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	10.3			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.043			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0084 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.054 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-10(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-6B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 87.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.095		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	1.5		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0086		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0015 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.20		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.068		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.19		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	218		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.51		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.9		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00027		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.23		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.59		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	
Lab Sample ID: MC28270-7	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28092.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.14 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	135	14	5.5	ug/kg	
71-43-2	Benzene	2.0	0.71	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.52	ug/kg	
75-25-2	Bromoform	ND	2.8	0.41	ug/kg	
74-83-9	Bromomethane	ND	2.8	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	15.8	14	4.4	ug/kg	
75-15-0	Carbon disulfide	1.4	7.1	0.22	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.8	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.38	ug/kg	
75-00-3	Chloroethane	ND	7.1	0.85	ug/kg	
67-66-3	Chloroform	ND	2.8	0.41	ug/kg	
74-87-3	Chloromethane	ND	7.1	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	0.47	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.77	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.72	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.63	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.42	ug/kg	
100-41-4	Ethylbenzene	1.6	2.8	0.25	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.56	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.1	2.6	ug/kg	
75-09-2	Methylene chloride	5.2	2.8	2.2	ug/kg	B
100-42-5	Styrene	ND	7.1	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.42	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.63	ug/kg	
108-88-3	Toluene	3.8	7.1	0.35	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.26	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.49	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	
Lab Sample ID: MC28270-7	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.98	2.8	0.67	ug/kg	J
75-01-4	Vinyl chloride	ND	2.8	0.81	ug/kg	
1330-20-7	Xylene (total)	3.7	2.8	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	116%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.41	12	ug/kg	JN
504-31-4	2H-Pyran-2-one	2.64	2.2	ug/kg	JN
110-54-3	Hexane	4.27	7.4	ug/kg	JN
1708-29-8	Furan, 2,5-dihydro-	7.35	1.7	ug/kg	JN
142-82-5	Heptane	7.55	3.1	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	6.2	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.53	1.7	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.96	3.4	ug/kg	JN
	Total TIC, Volatile		37.7	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	
Lab Sample ID: MC28270-7	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37146.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	71	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	19.7	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	17.1	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15.1	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	17.0	280	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	25.9	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	
Lab Sample ID: MC28270-7	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

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ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	37.5	280	30	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	280	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	13.2	280	10	ug/kg	J
206-44-0	Fluoranthene	30.2	110	16	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	13	ug/kg	
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	22.7	110	15	ug/kg	J
129-00-0	Pyrene	39.5	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	67%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-7	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.8
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
13798-23-7	Sulfur	6.79	410	ug/kg	JN
112-95-8	Eicosane	12.63	230	ug/kg	JN
	Total TIC, Semi-Volatile		640	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-7	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.48 B	0.94	0.14	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	5.1	0.94	0.20	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	89.6	4.7	0.068	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.64	0.38	0.022	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.28 B	0.38	0.040	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	15700	470	5.9	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	14.4	0.94	0.090	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	6.4	4.7	0.044	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	14.1	2.4	0.52	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	14200	9.4	0.82	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	56.4	0.94	0.16	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	9660	470	4.8	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	352	1.4	0.038	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.037 B	0.039	0.0085	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	14.9	3.8	0.041	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	968	470	8.1	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	2470	470	3.1	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.13 U	0.94	0.13	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	21.8	0.94	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	47.0	1.9	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22505
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214 Lab Sample ID: MC28270-7 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 84.8
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.8		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.1		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-7A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0091 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	1.2	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0027 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.062			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.011 B			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	1.3			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.015	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	11.8			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.042			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0077 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.12			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL2-11(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-7B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.082		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	1.0		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0060		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0016 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.15		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.058		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.15		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	156		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.44		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.5		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00032		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.15		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0012 B		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.51		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28270

Client / Reporting Information			Project Information						Requested Analysis (see TEST CODE sheet)								Matrix Codes				
Company Name: Weston			Project Name: ID05-042						VOCs SVOCS Total Metals TCUP/SPL P Metals pH												
Street Address: 750 R Bunker Ct. Suite 300			Street: IL 72			Billing Information (if different from Report to)															
City State Zip: Vernon Hills, IL 60061			City: Hampshire, IL			Company Name															
Project Contact: S. Babusukumar			Project #:			Street Address															
Phone # Fax #: 847-918-4018			Client PO#:			City State Zip															
Sampler(s) Name(s) Phone #: D. Cukierski			Project Manager:			Attention:			PO#:												
Accutest Sample #	Field ID / Point of Collection	MECH/ID/Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH3	PHOS	H2S-X	NONE	DI Water	MECH	ENCORE	Drinking	LAB USE ONLY				
- 1	AL2-7 (0.5-1.5)-021214		2/12/14	0815	DC	S	3										X				
2	AL2-7 (0.5-1.5)-021214D		2/12/14	0815	DC	S	3										X				
3	AL2-8 (0.5-1.5)-021214		2/12/14	0830	DC	S	3										X				
4	AL2-9 (0.5-1.5)-021214		2/12/14	0840	DC	S	3										X				
5	RE6-1 (0.5-1.5)-021214		2/12/14	0850	DC	S	3										X				
6	AL2-10 (0.5-1.5)-021214		2/12/14	0900	DC	S	3										X				
7	AL2-11 (0.5-1.5)-021214		2/12/14	0915	DC	S	3										X				
8	PS7-1 (0.5-1.5)-021214		2/12/14	0925	DC	S	3										X				
9	AL8-1 (0.5-1.5)-021214		2/12/14	0945	DC	S	3										X				
10	AL8-2 (0.5-1.5)-021214		2/12/14	0955	DC	S	3										X				
11	AL8-3 (0.5-1.5)-021214		2/12/14	1010	DC	S	3										X				
12	AL8-4 (0.5-1.5)-021214		2/12/14	1020	DC	S	3										X				
Data Deliverable Information								Comments / Special Instructions													
Turnaround Time (Business days): <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY				Approved By (Accutest PM): / Date: _____				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____													
Emergency & Rush T/A data available VIA Lablink																					
Sample Custody must be documented below each time samples change possession, including courier delivery.																					
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:							
1 T. [Signature]		2/12/14 1200		[Signature]		2/12/14 1200		F20V		2-13-14		[Signature]									
3 3043 7004 2053				3				4				4									
Relinquished by:		Date Time:		Received By:		Custody Seal #		<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not intact <input type="checkbox"/>		On ice		Cooler Temp. 42 °C									
5				5																	

5.1 5

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28270

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes																																																																																																																														
Company Name Weston		Project Name IDOT-042				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCs Total Metals TEUP/SPLR Metals PH </div> <div style="font-size: small;"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																																																																																														
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Sampler(s) Name(s) D. Cukiesti		Project Manager				<table border="1"> <thead> <tr> <th rowspan="2">Accutest Sample #</th> <th rowspan="2">Field ID / Point of Collection</th> <th rowspan="2">MECH/ID/ Vial #</th> <th colspan="3">Collection</th> <th rowspan="2">Matrix</th> <th rowspan="2"># of bottles</th> <th colspan="10">Number of preserved bottles</th> <th rowspan="2">LAB USE ONLY</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Sampled by</th> <th>PCB</th> <th>MECH</th> <th>PHOS</th> <th>PERCH</th> <th>NONE</th> <th>DI Water</th> <th>MECH</th> <th>ENCORE</th> <th>Blankline</th> </tr> </thead> <tbody> <tr> <td>-13</td> <td>AL8-5 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1030</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>14</td> <td>AL8-6 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1040</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>-15</td> <td>AL8-7 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1050</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>-16</td> <td>AL8-8 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1100</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>										Accutest Sample #	Field ID / Point of Collection	MECH/ID/ Vial #	Collection			Matrix	# of bottles	Number of preserved bottles										LAB USE ONLY	Date	Time	Sampled by	PCB	MECH	PHOS	PERCH	NONE	DI Water	MECH	ENCORE	Blankline	-13	AL8-5 (0.5-1.5)-021214		2/12/14	1030	DC S 3													X	X	X	X	X		14	AL8-6 (0.5-1.5)-021214		2/12/14	1040	DC S 3													X	X	X	X	X		-15	AL8-7 (0.5-1.5)-021214		2/12/14	1050	DC S 3													X	X	X	X	X		-16	AL8-8 (0.5-1.5)-021214		2/12/14	1100	DC S 3													X	X	X	X	X	
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Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information		Comments / Special Instructions	
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<input type="checkbox"/> Std. 5 Business Days (By Contract only)				<input type="checkbox"/> Commercial "B" (Level 2)	<input type="checkbox"/> NYASP Category B		
<input type="checkbox"/> 5 Day RUSH				<input type="checkbox"/> FULLT1 (Level 3+4)	<input type="checkbox"/> State Forms		
<input type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> CT RCP	<input type="checkbox"/> EDD Format		
<input type="checkbox"/> 2 Day EMERGENCY				<input type="checkbox"/> MA MCP	<input type="checkbox"/> Other		
<input type="checkbox"/> 1 Day EMERGENCY				Commercial "A" = Results Only Commercial "B" = Results + QC Summary			

Emergency & Rush T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By	Date Time	Relinquished By	Date Time	Received By	CHICAGO SC
1 <i>[Signature]</i>	2/12/14 12:00	<i>[Signature]</i>	2/12/14 12:00	7200	2-13-14	<i>[Signature]</i>	
3		3					
4		4					
5		5					

Custody Seal # Intact Preserved where applicable On Ice Cooler Temp. **0.2**

MC28270: Chain of Custody

Page 2 of 3

5.1 5



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
49W 930 IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088285287 Longitude: -88.585954068
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088285287 Longitude: -88.585954068

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS FS3-1 AND FS3-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2780-3. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28244 AND MC28245

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14

Date:



Summary Table of ISGS Site No. 2780-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	FS3-1(0.5-1.5)-021114	FS3-2(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	
Location ID	FS3-1	FS3-2	
Depth	0.5 - 1.5	0 - 1.5	
Parameter			
Laboratory pH (s.u.)	8.3	7.8	<6.25,>9.0
VOCs (ug/kg)			
Acetone	45 J	121	25000
Benzene	1.8	0.74	30
Carbon disulfide	ND	0.68 J	9000
Ethylbenzene	1.2 J	0.57 J	13000
Methyl ethyl ketone	ND	6.8 J	17000
Methylene chloride	ND	2 J	20
Toluene	3.3 J	1.6 J	12000
Trichloroethene	0.75 J	ND	60
Xylene (Total)	3.1	1.7 J	5600
SVOCs (ug/kg)			
Benzo(a)anthracene	23.7 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	26.8 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	31.9 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	21.3 J	ND	2300000
Benzo(k)fluoranthene	18.5 J	ND	9000
Chrysene	27.7 J	ND	88000
Fluoranthene	33.1 J	ND	3100000
Pyrene	41 J	ND	2300000
Total Metals (mg/kg)			
Aluminum, Total	9400	15100	---
Arsenic, Total	7.4	8.1	11.3 / 13
Barium, Total	84.2	131	1500
Beryllium, Total	0.48	0.71	22
Cadmium, Total	0.047 J	0.086 J	5.2
Calcium, Total	35200	3800	---
Chromium, Total	12.9 J	17 J	21
Cobalt, Total	5.8	7.8	20
Copper, Total	15	13.7	2900
Iron, Total	15200 J	18600 J	15000 / 15900
Lead, Total	17.4 J	16.1 J	107
Magnesium, Total	25400	4220	325000
Manganese, Total	408 J	503 J	630 / 636
Mercury, Total	0.023 J	0.049	0.89
Nickel, Total	13.6 J	15 J	100
Potassium, Total	800	969	---
Sodium, Total	3150	3050	---
Strontium, Total	21.5 J	13.2	---
Thallium, Total	0.19 J	ND	2.6
Vanadium, Total	25.2	34 J	550
Zinc, Total	50.1 J	48.3 J	5100

Summary Table of ISGS Site No. 2780-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	FS3-1(0.5-1.5)-021114	FS3-2(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	
Location ID	FS3-1	FS3-2	
Depth	0.5 - 1.5	0 - 1.5	
Parameter			
TCLP Metals (mg/l)			
Barium, TCLP	1.1	1	2
Cadmium, TCLP	0.0012 J	ND	0.005
Chromium, TCLP	ND	0.0018 J	0.1
Cobalt, TCLP	0.0057 J	0.0005 J	1
Copper, TCLP	0.0073 J	0.017 J	0.65
Iron, TCLP	ND	0.031 J	5
Manganese, TCLP	2.6	0.33	0.15
Nickel, TCLP	0.01 J	0.0051 J	0.1
Selenium, TCLP	0.0088 J	0.0071 J	0.05
Silver, TCLP	0.001 J	ND	0.05
Zinc, TCLP	0.045 J	0.03 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.013	0.022	0.05
Barium, SPLP	0.31 J	0.79	2
Beryllium, SPLP	0.0012 J	0.0022 J	0.004
Cadmium, SPLP	0.0006 J	0.001 J	0.005
Chromium, SPLP	0.038	0.066	0.1
Cobalt, SPLP	0.0078 J	0.018 J	1
Copper, SPLP	0.035	0.042	0.65
Iron, SPLP	34.8	61.8	5
Lead, SPLP	0.03	0.039	0.0075
Manganese, SPLP	0.41	1.1	0.15
Mercury, SPLP	ND	0.00011 J	0.002
Nickel, SPLP	0.031 J	0.052	0.1
Zinc, SPLP	0.14	0.19	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244

Sampling Date: 02/11/14

Report to:

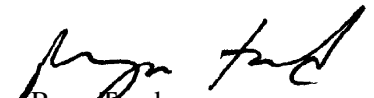
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	FS3-1(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-19	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.6
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28090.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2 ^a	V28126.D	1	02/21/14	AMY	n/a	n/a	MSV1055

Run #	Initial Weight	Final Volume
Run #1	5.83 g	5.0 ml
Run #2	3.93 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	45.0	10	4.0	ug/kg	
71-43-2	Benzene	1.8	0.51	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.37	ug/kg	
75-25-2	Bromoform	ND	2.0	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.99	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.27	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.61	ug/kg	
67-66-3	Chloroform	ND	2.0	0.29	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.55	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.45	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/kg	
100-41-4	Ethylbenzene	1.2	2.0	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.40	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	1.9	ug/kg	
75-09-2	Methylene chloride	2.9	2.0	1.6	ug/kg	B
100-42-5	Styrene	ND	5.1	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.45	ug/kg	
108-88-3	Toluene	3.3	5.1	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.75	2.0	0.48	ug/kg	J
75-01-4	Vinyl chloride	ND	2.0	0.58	ug/kg	
1330-20-7	Xylene (total)	3.1	2.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	95%	70-130%
2037-26-5	Toluene-D8	77%	78%	70-130%
460-00-4	4-Bromofluorobenzene	121%	122%	70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.18	17	ug/kg	JN
109-66-0	Pentane	2.41	9.4	ug/kg	JN
110-54-3	Hexane	4.27	5	ug/kg	JN
142-82-5	Heptane	7.55	2.4	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	5	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.96	3	ug/kg	JN
	Total TIC, Volatile		41.8	ug/kg	J

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114	
Lab Sample ID: MC28244-19	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17731.D	1	02/18/14	KR	02/14/14	OP36851	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	94	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	72	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	15	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	23.7	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	26.8	120	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	31.9	120	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	21.3	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	18.5	120	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	14	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	27.7	120	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FS3-1(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-19	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	33.1	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	14	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	14	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	41.0	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	74%		30-130%
118-79-6	2,4,6-Tribromophenol	93%		30-130%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114 Lab Sample ID: MC28244-19 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 84.6
--	--

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
301-02-0	9-Octadecenamamide, (Z)- Total TIC, Semi-Volatile	10.17	580 580	ug/kg	JN J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9400	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	7.4	0.94	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	84.2	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.48	0.38	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.047 B	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	35200	470	5.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	12.9	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	5.8	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	15.0	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	15200	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	17.4	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	25400	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	408	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.023 B	0.035	0.0076	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	13.6	3.8	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	800	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3150	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	21.5	0.94	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.19 B	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	25.2	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	50.1	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22492
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.6		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.3		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.55
4

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-19A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	1.1	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0012 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.0057 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Copper	0.0073 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Manganese	2.6			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.010 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0088 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 B	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.045 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: FS3-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-19B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.013		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.31 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.0012 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.038		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.0078 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.035		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	34.8		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.030		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.41		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.031 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.14		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.57
4

FED-EX Tracking #	Boiler Order Control #
Accutest Quote #	Accutest Job # MC28244

Client / Reporting Information		Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes		
Company Name Weston		Project Name IDOT-042										<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SVOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLEP/SLP Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</div> </div>										OW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LLO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		
Street Address 750 E Banker Ct. Suite 500		Street IL 72																						
City, State, Zip Vernon Hills, IL 60061		City Hampshire, IL																						
Project Contact S. Babusukumar		Project #																						
Phone # 847-918-4018		Client P.O.W.																						
Sampler(s) Name(s) D. Cukierski		Project Manager										Attention:										POB		
Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	MEOH	THCS	THCS	THCS	THCS	THCS	THCS	THCS	THCS	THCS	THCS	THCS	THCS	LAB USE ONLY		
-1	ALB-9 (0.5-1.5)-021114		2/11/14	0845	DC	S	3																	
-2	ALB-9 (0.5-1.5)-021114 D		2/11/14	0845	DC	S	3																	
-3	ALB-11 (0.5-1.5)-021114		2/11/14	0905	DC	S	3																	
-4	ALB-13 (0.5-1.5)-021114		2/11/14	0920	DC	S	3																	
-5	FS18-2 (0.5-1.5)-021114		2/11/14	0940	DC	S	3																	
-6	FS18-4 (0.5-1.5)-021114		2/11/14	0955	DC	S	3																	
-7	AL19-2 (0.5-1.5)-021114		2/11/14	1010	DC	S	3																	
-8	AL19-4 (0.5-1.5)-021114		2/11/14	1030	DC	S	3																	
-9	AL8-12 (0.5-1.5)-021114		2/11/14	1140	DC	S	3															IID		
-10	AL8-14 (0.5-1.5)-021114		2/11/14	1155	DC	S	3																	
-11	AL8-16 (0.5-1.5)-021114		2/11/14	1210	DC	S	3																	
-12	AL8-18 (0.5-1.5)-021114		2/11/14	1225	DC	S	3																	
Data Deliverable Information										Comments / Special Instructions														
Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink					Approved By (Accutest PM): / Date: _____					<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary					<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____									
Sample Custody must be documented below each time samples change possession, including courier delivery.										CHICAGO, IL														
Relinquished by Sampler: [Signature]		Date Time: 2/11/14 1537		Received By: [Signature]		Date Time: 2/11/14 5:55		Relinquished By: FEDx		Date Time: 2-12-14		Received By: [Signature]		Date Time:		Received By:		Date Time:		Received By:				
3		Date Time:		Received By:		3		4		Date Time:		4		Date Time:		4		Date Time:		4				
5		Date Time:		Received By:		5		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable		<input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp.		<input checked="" type="checkbox"/> 1.0-11-08-20								

5.1
5

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28245

Sampling Date: 02/11/14

Report to:

Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **188**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	
Lab Sample ID: MC28245-7	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V28063.D	1	02/19/14	AMY	n/a	n/a	MSV1053

Run #1	Initial Weight	Final Volume
Run #2	4.97 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	121	12	4.7	ug/kg	
71-43-2	Benzene	0.74	0.60	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.44	ug/kg	
75-25-2	Bromoform	ND	2.4	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.4	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	6.8	12	3.7	ug/kg	J
75-15-0	Carbon disulfide	0.68	6.0	0.18	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.4	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.72	ug/kg	
67-66-3	Chloroform	ND	2.4	0.35	ug/kg	
74-87-3	Chloromethane	ND	6.0	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.51	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	0.66	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.61	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.35	ug/kg	
100-41-4	Ethylbenzene	0.57	2.4	0.21	ug/kg	J
591-78-6	2-Hexanone	ND	12	2.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.0	2.2	ug/kg	
75-09-2	Methylene chloride	2.0	2.4	1.9	ug/kg	J
100-42-5	Styrene	ND	6.0	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.53	ug/kg	
108-88-3	Toluene	1.6	6.0	0.29	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.42	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-7	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.4
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.4	0.57	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.69	ug/kg	
1330-20-7	Xylene (total)	1.7	2.4	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
110-54-3	Hexane	4.29	5.9	ug/kg	JN
142-82-5	Heptane	7.58	3.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.35	3.1	ug/kg	JN
111-65-9	Octane	9.83	1.3	ug/kg	JN
100-52-7	Benzaldehyde	12.97	4.1	ug/kg	JN
	Total TIC, Volatile		18.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	
Lab Sample ID: MC28245-7	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37159.D	1	02/19/14	KR	02/14/14	OP36852	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	73	ug/kg	
95-48-7	2-Methylphenol	ND	590	23	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	41	ug/kg	
108-95-2	Phenol	ND	290	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	ND	120	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	
Lab Sample ID: MC28245-7	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	ND	120	16	ug/kg	
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	ND	120	14	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	87%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114 Lab Sample ID: MC28245-7 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 83.4
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.19
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-7	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	15100	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.14 U	0.95	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	8.1	0.95	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	131	4.8	0.069	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.71	0.38	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.086 B	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	3800	480	6.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	17.0	0.95	0.090	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	7.8	4.8	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	13.7	2.4	0.53	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	18600	9.5	0.83	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	16.1	0.95	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	4220	480	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	503	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.049	0.036	0.0080	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	15.0	3.8	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	969	480	8.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.48	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3050	480	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	13.2	0.95	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.13 U	0.95	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	34.0	0.95	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	48.3	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16752
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.19
4

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-7	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.4		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	7.8		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.19
4

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-7A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Barium	1.0	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cadmium	0.00050 U	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Chromium	0.0018 B	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cobalt	0.00050 B			0.050	0.00040	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Copper	0.017 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Iron	0.031 B			0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Manganese	0.33			0.015	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.0051 B			0.040	0.00057	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Selenium	0.0071 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Zinc	0.030 B			0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: FS3-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-7B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.022		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.79		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.0022 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0010 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.066		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.018 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.042		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	61.8		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.039		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	1.1		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00011 B		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.052		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.19		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.21
4

Client / Reporting Information		Project Information					Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name Western		Project Name FDOT-042 Hampshire					<p>Requested Analysis (see TEST CODE sheet)</p> <p>Matrix Codes</p> <p> <input type="checkbox"/> DIV - Drinking Water <input type="checkbox"/> GW - Ground Water <input type="checkbox"/> WW - Water <input type="checkbox"/> SW - Surface Water <input type="checkbox"/> SO - Soil <input type="checkbox"/> SL - Sludge <input type="checkbox"/> SED - Sediment <input type="checkbox"/> OL - Oil <input type="checkbox"/> LIQ - Other Liquid <input type="checkbox"/> AIR - Air <input type="checkbox"/> SOL - Other Solid <input type="checkbox"/> WP - Wipe <input type="checkbox"/> FB - Field Blank <input type="checkbox"/> EB - Equipment Blank <input type="checkbox"/> RB - Rinse Blank <input type="checkbox"/> TB - Trip Blank </p>										<p>LAB USE ONLY</p>
Street Address 750 E. Banker Ct Ste 500		Street															
City State Zip Warren Hills IL 60061		Billing Information (If different from Report to)															
Project Contact S. Babusankumar		Street Address															
Phone # Fax # 847-918-4018		City State Zip															
Sampler(s) Name(s) T. Wals		Client PO#															
Phone #		Attention: PO#															
Project Manager Matt Maxwell		Collection															
Field ID / Point of Collection		Date Time															
MECH/DI Vial #		Sampled by Matrix # of bottles															
		Number of preserved bottles															
		HCl HNO3 H2SO4 DI Water MEOH ENCORE Burette															
-1 AL2-13(0-1.5)-021114		2-11-14 1255 TW S 3					<p> <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> TCC P/SPUR Metals <input checked="" type="checkbox"/> DBP </p>										
-2 AL2-13(0-1.5)-021114D																	
-3 AL2-2(0-1.5)-021114																	
-4 AL2-14(0-1.5)-021114																	
-5 AL2-16(0-1.5)-021114																	
-6 AL2-18(0-1.5)-021114																	
-7 F53-2(0-1.5)-021114																	
-8 AL2-1(0-1.5)-021114																	
-9 AL2-3(0-1.5)-021114																	
-10 AL2-5(0-1.5)-021114		2-11-14 1505 TW S 3					<p> <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> Total Metals <input checked="" type="checkbox"/> TCC P/SPUR Metals <input checked="" type="checkbox"/> DBP </p>										IID
		762 after 2-11-14															
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:					Data Deliverable Information					Comments / Special Instructions					
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY							<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____										
Emergency & Rush T/A data available VIA Lablink							Commercial "A" = Results Only Commercial "B" = Results + QC Summary										
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler: 7.0 Wals		Date Time: 2-11-14/1536		Received By: <i>[Signature]</i>		Relinquished By: FDX		Date Time: 2-11-14		Received By: <i>[Signature]</i>		<p>CHICAGO SC</p> <p>On Ice <input checked="" type="checkbox"/> Cooler Temp. 10-11-03-20</p>					
3				3		4				4							
5				5		5				5							

5.1
5



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 610 IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088284416 Longitude: -88.580486929

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088284416 Longitude: -88.580486929

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION SB-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-4. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28244

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G

Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

6/2/14

Date:



P.E., L.P.G. Seal:

Summary Table of ISGS Site No. 2780-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	SB-1(0.5-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/11/2014	
Location ID	SB-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.5	<6.25,>9.0
VOCs (ug/kg)		
Acetone	91.3 J	25000
Benzene	1.2 J	30
Ethylbenzene	0.82 J	13000
Toluene	2.2 J	12000
Xylene (Total)	2.2 J	5600
SVOCs (ug/kg)	None Detected	
Total Metals (mg/kg)		
Aluminum, Total	9620	---
Arsenic, Total	6.3	11.3 / 13
Barium, Total	98.1	1500
Beryllium, Total	0.53	22
Cadmium, Total	0.097 J	5.2
Calcium, Total	32500	---
Chromium, Total	13.5 J	21
Cobalt, Total	6.4	20
Copper, Total	13.1	2900
Iron, Total	14200 J	15000 / 15900
Lead, Total	32.5 J	107
Magnesium, Total	22400	325000
Manganese, Total	557 J	630 / 636
Mercury, Total	0.025 J	0.89
Nickel, Total	13.8 J	100
Potassium, Total	1200	---
Sodium, Total	2780	---
Strontium, Total	16.5 J	---
Vanadium, Total	24.1	550
Zinc, Total	51.8 J	5100

Summary Table of ISGS Site No. 2780-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	SB-1(0.5-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/11/2014	
Location ID	SB-1	
Depth	0.5 - 1.5	
Parameter		
TCLP Metals (mg/l)		
Arsenic, TCLP	0.0075 J	0.05
Barium, TCLP	1.4	2
Cadmium, TCLP	0.0022 J	0.005
Cobalt, TCLP	0.039 J	1
Copper, TCLP	0.01 J	0.65
Iron, TCLP	0.055 J	5
Lead, TCLP	0.0053 J	0.0075
Manganese, TCLP	13.9	0.15
Nickel, TCLP	0.026 J	0.1
Selenium, TCLP	0.0068 J	0.05
Zinc, TCLP	0.11 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.026	0.05
Barium, SPLP	0.74	2
Beryllium, SPLP	0.0024 J	0.004
Cadmium, SPLP	0.0011 J	0.005
Chromium, SPLP	0.079	0.1
Cobalt, SPLP	0.023 J	1
Copper, SPLP	0.066	0.65
Iron, SPLP	68.6	5
Lead, SPLP	0.084	0.0075
Manganese, SPLP	0.95	0.15
Mercury, SPLP	0.00011 J	0.002
Nickel, SPLP	0.064	0.1
Zinc, SPLP	0.28	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244

Sampling Date: 02/11/14

Report to:

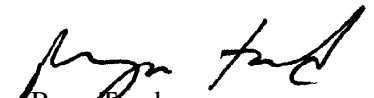
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	
Lab Sample ID: MC28244-16	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28087.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.37 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	91.3	14	5.3	ug/kg	
71-43-2	Benzene	1.2	0.69	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.50	ug/kg	
75-25-2	Bromoform	ND	2.7	0.40	ug/kg	
74-83-9	Bromomethane	ND	2.7	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.2	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.37	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.82	ug/kg	
67-66-3	Chloroform	ND	2.7	0.40	ug/kg	
74-87-3	Chloromethane	ND	6.9	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.58	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	0.74	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.7	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.7	0.70	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.7	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.58	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.40	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.40	ug/kg	
100-41-4	Ethylbenzene	0.82	2.7	0.24	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	0.54	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.9	2.5	ug/kg	
75-09-2	Methylene chloride	4.3	2.7	2.1	ug/kg	B
100-42-5	Styrene	ND	6.9	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.40	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.61	ug/kg	
108-88-3	Toluene	2.2	6.9	0.33	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.48	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-16	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.7	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.78	ug/kg	
1330-20-7	Xylene (total)	2.2	2.7	0.28	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	115%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.18	14	ug/kg	JN
109-66-0	Pentane	2.41	6.4	ug/kg	JN
10574-37-5	2-Pentene, 2,3-dimethyl-	8.32	2.4	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.95	2.7	ug/kg	JN
	Total TIC, Volatile		25.5	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	
Lab Sample ID: MC28244-16	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17728.D	5	02/18/14	KR	02/14/14	OP36851	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	66	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	74	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	85	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	480	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5900	730	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	370	ug/kg	
95-48-7	2-Methylphenol	ND	2900	120	ug/kg	
106-44-5	4-Methylphenol	ND	2900	150	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	78	ug/kg	
100-02-7	4-Nitrophenol	ND	5900	550	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	210	ug/kg	
108-95-2	Phenol	ND	1500	83	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	73	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	72	ug/kg	
83-32-9	Acenaphthene	ND	590	78	ug/kg	
208-96-8	Acenaphthylene	ND	590	59	ug/kg	
120-12-7	Anthracene	ND	590	71	ug/kg	
56-55-3	Benzo(a)anthracene	ND	590	76	ug/kg	
50-32-8	Benzo(a)pyrene	ND	590	63	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	590	73	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	590	59	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	590	89	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	74	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	60	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	79	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	73	ug/kg	
86-74-8	Carbazole	ND	590	69	ug/kg	
218-01-9	Chrysene	ND	590	73	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	69	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	89	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	110	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	90	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	
Lab Sample ID: MC28244-16	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	76	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	84	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	78	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	73	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	590	70	ug/kg	
132-64-9	Dibenzofuran	ND	590	81	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	46	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	73	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	85	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	54	ug/kg	
206-44-0	Fluoranthene	ND	590	80	ug/kg	
86-73-7	Fluorene	ND	590	78	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	92	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	85	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	730	ug/kg	
67-72-1	Hexachloroethane	ND	1500	71	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	590	65	ug/kg	
78-59-1	Isophorone	ND	1500	68	ug/kg	
91-57-6	2-Methylnaphthalene	ND	590	74	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	73	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	160	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	73	ug/kg	
91-20-3	Naphthalene	ND	590	94	ug/kg	
98-95-3	Nitrobenzene	ND	1500	79	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	84	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	89	ug/kg	
85-01-8	Phenanthrene	ND	590	79	ug/kg	
129-00-0	Pyrene	ND	590	69	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	81	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	74%		30-130%
118-79-6	2,4,6-Tribromophenol	80%		30-130%
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114 Lab Sample ID: MC28244-16 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 83.5
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.46
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-16	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9620	19	3.5	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.15 U	0.97	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	6.3	0.97	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	98.1	4.8	0.070	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.53	0.39	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.097 B	0.39	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	32500	480	6.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	13.5	0.97	0.092	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	6.4	4.8	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	13.1	2.4	0.54	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	14200	9.7	0.84	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	32.5	0.97	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	22400	480	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	557	1.4	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.025 B	0.035	0.0077	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	13.8	3.9	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	1200	480	8.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.34 U	0.97	0.34	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.48	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	2780	480	3.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	16.5	0.97	0.029	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.13 U	0.97	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	24.1	0.97	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	51.8	1.9	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22492
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114		Date Sampled: 02/11/14
Lab Sample ID: MC28244-16		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL		

4.46
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.5		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.5		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-16A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0075 B	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	1.4	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0022 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.039 B			0.050	0.00040	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Copper	0.010 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.055 B			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0053 B	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Manganese	13.9			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.026 B			0.040	0.00057	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Selenium	0.0068 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.11			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22534
- (4) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.47
4

Report of Analysis

Client Sample ID: SB-1(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-16B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.026		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.74		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.0024 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.0011 B		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.079		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.023 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.066		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	68.6		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.084		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.95		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00011 B		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.064		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.28		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.48
4

Client / Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table, Data Deliverable Information, and Relinquished/Received chain of custody section.

5.1 5



CHAIN OF CUSTODY
 Accutest Laboratories of New England
 495 Technology Center West, Building One
 TEL. 508-481-6200 FAX: 508-481-7753
 www.accutest.com

FED-EX Tracking #	Batch Order Control #
Accutest Quote #	Accutest Job # MC28244

Client / Reporting Information			Project Information								Requested Analysis (see TEST CODE sheet)										Matrix Codes					
Company Name Weston			Project Name IDOT-042								<table border="0"> <tr> <td>VOCs</td><td>SUOCs</td><td>Total Metals</td><td>TCUP/SRLP Metals</td><td>pH</td> </tr> </table>										VOCs	SUOCs	Total Metals	TCUP/SRLP Metals	pH	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
VOCs	SUOCs	Total Metals	TCUP/SRLP Metals	pH																						
Street Address 150 E. Butler Ct. Suite 500			Street: IL 72		Billing Information (If different from Report to)																					
City Vernon Hills, IL		State 60061		City Hampshire, IL																						
Project Contact S. Babusukumar			Project #		Street Address																					
Phone # 847-918-4018			Client PCW		City		State		Zip																	
Sampler(s) Name(s) Dan Cukierski 224-875-0500			Project Manager		Attention:		PCW												LAB USE ONLY							
Accutest Sample #	Field ID / Point of Collection	MEQHDI Viol #	Date	Time	Sampled by	Matrix	# of bottles	HCl	MACH	INNO3	PH204	INNO6	DI Water	MACH	ENGORE	Business										
13	AL2-18(0.5-1.5)-021114		2/11/14	1225	DC	S	3										X	X	X	X	X					
14	AL2-12(0.5-1.5)-021114		2/11/14	1245	DC	S	2										X	X	X	X	X					
15	VL5-1(0.5-1.5)-021114		2/11/14	1305	DC	S	3										X	X	X	X	X					
16	SB-1(0.5-1.5)-021114		2/11/14	1320	DC	S	3										X	X	X	X	X					
17	AL2-15(0.5-1.5)-021114		2/11/14	1340	DC	S	3										X	X	X	X	X					
18	AL2-17(0.5-1.5)-021114		2/11/14	1355	DC	S	3										X	X	X	X	X					
19	FS3-1(0.5-1.5)-021114		2/11/14	1410	DC	S	3										X	X	X	X	X					
20	AL2-19(0.5-1.5)-021114		2/11/14	1425	DC	S	3										X	X	X	X	X					
21	AL2-2(0.5-1.5)-021114		2/11/14	1440	DC	S	3										X	X	X	X	X					
22	AL2-4(0.5-1.5)-021114		2/11/14	1455	DC	S	3										X	X	X	X	X					
23	AL2-6(0.5-1.5)-021114		2/11/14	1515	DC	S	3										X	X	X	X	X					
24	AL2-6(0.5-1.5)-021114		2/11/14	1515	DC	S	3										X	X	X	X	X					

Data Deliverable Information				Comments / Special Instructions	
Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink	Approved By (Accutest PM): / Date: _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP	<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____	_____ _____ _____	

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: DJ	Date/Time: 2/11/14 1537	Received By: [Signature]	Relinquished By: FEDX	Date/Time: 2-12-14	Received By: [Signature]
Relinquished by Sampler: _____	Date/Time: _____	Received By: _____	Relinquished By: _____	Date/Time: _____	Received By: _____
Relinquished by: _____	Date/Time: _____	Received By: _____	Custody Seal # _____	<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Preserved where applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp. 2.0

MC28244: Chain of Custody

5.1
5



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 600 IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088286598 Longitude: -88.579377504

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088286598 Longitude: -88.579377504

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION VL5-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-5. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28245

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

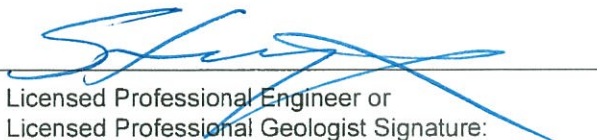
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

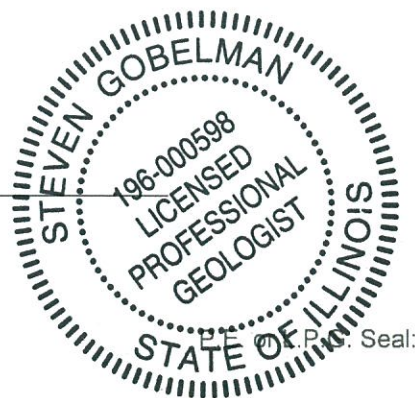
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/11
 Date:



Summary Table of ISGS Site No. 2780-5
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	VL5-2(0-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/11/2014	
Location ID	VL5-2	
Depth	0 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.2	<6.25,>9.0
VOCs (ug/kg)		
Acetone	136 J	25000
Benzene	1	30
Ethylbenzene	0.78 J	13000
Methyl ethyl ketone	19.8	17000
Methylene chloride	3.7	20
Toluene	1.9 J	12000
Xylene (Total)	2.6 J	5600
SVOCs (ug/kg)		
Pyrene	18.4 J	2300000
Total Metals (mg/kg)		
Aluminum, Total	10600	---
Arsenic, Total	6.6	11.3 / 13
Barium, Total	105	1500
Beryllium, Total	0.58	22
Cadmium, Total	0.22 J	5.2
Calcium, Total	8950	---
Chromium, Total	14.3 J	21
Cobalt, Total	7.4	20
Copper, Total	14.6	2900
Iron, Total	15800 J	15000 / 15900
Lead, Total	35.6 J	107
Magnesium, Total	7200	325000
Manganese, Total	612 J	630 / 636
Mercury, Total	0.028 J	0.89
Nickel, Total	15.1 J	100
Potassium, Total	923	---
Sodium, Total	2350	---
Strontium, Total	13.9	---
Vanadium, Total	26.5 J	550
Zinc, Total	49.6 J	5100

Summary Table of ISGS Site No. 2780-5
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	VL5-2(0-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/11/2014	
Location ID	VL5-2	
Depth	0 - 1.5	
Parameter		
TCLP Metals (mg/l)		
Arsenic, TCLP	0.006 J	0.05
Barium, TCLP	1	2
Cadmium, TCLP	0.0031 J	0.005
Cobalt, TCLP	0.05	1
Copper, TCLP	0.013 J	0.65
Iron, TCLP	0.14	5
Lead, TCLP	0.016	0.0075
Manganese, TCLP	18.4	0.15
Nickel, TCLP	0.03 J	0.1
Selenium, TCLP	0.0068 J	0.05
Zinc, TCLP	0.084 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.034	0.05
Barium, SPLP	0.91	2
Beryllium, SPLP	0.0032 J	0.004
Cadmium, SPLP	0.0016 J	0.005
Chromium, SPLP	0.092	0.1
Cobalt, SPLP	0.034 J	1
Copper, SPLP	0.077	0.65
Iron, SPLP	94.1	5
Lead, SPLP	0.12	0.0075
Manganese, SPLP	1.7	0.15
Mercury, SPLP	0.00018 J	0.002
Nickel, SPLP	0.084	0.1
Silver, SPLP	0.0015 J	0.05
Zinc, SPLP	0.3	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28245

Sampling Date: 02/11/14

Report to:

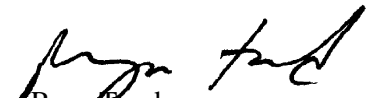
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **188**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	VL5-2(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28059.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.54 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	136	13	5.2	ug/kg	
71-43-2	Benzene	1.0	0.66	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.48	ug/kg	
75-25-2	Bromoform	ND	2.7	0.39	ug/kg	
74-83-9	Bromomethane	ND	2.7	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	19.8	13	4.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.6	0.20	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.36	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.79	ug/kg	
67-66-3	Chloroform	ND	2.7	0.38	ug/kg	
74-87-3	Chloromethane	ND	6.6	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	0.44	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	0.72	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.7	0.69	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.7	0.67	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.7	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.56	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.38	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.39	ug/kg	
100-41-4	Ethylbenzene	0.78	2.7	0.24	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	0.53	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.6	2.5	ug/kg	
75-09-2	Methylene chloride	3.7	2.7	2.0	ug/kg	
100-42-5	Styrene	ND	6.6	0.27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.59	ug/kg	
108-88-3	Toluene	1.9	6.6	0.32	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.46	ug/kg	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.7	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.75	ug/kg	
1330-20-7	Xylene (total)	2.6	2.7	0.27	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
106-88-7	Oxirane, ethyl-	2.41	4.2	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.34	2.8	ug/kg	JN
611-14-3	Benzene, 1-ethyl-2-methyl-	12.55	1.7	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.97	3.5	ug/kg	JN
	Total TIC, Volatile		12.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114	
Lab Sample ID: MC28245-3	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37117.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	600	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	600	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	600	97	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	600	75	ug/kg	
95-48-7	2-Methylphenol	ND	600	24	ug/kg	
106-44-5	4-Methylphenol	ND	600	31	ug/kg	
88-75-5	2-Nitrophenol	ND	600	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	600	42	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	600	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	600	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	300	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	600	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	ND	120	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VL5-2(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28245-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	83.1
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	300	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	600	40	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	600	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	32	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.3	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	300	11	ug/kg	
206-44-0	Fluoranthene	ND	120	16	ug/kg	
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	600	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	600	15	ug/kg	
99-09-2	3-Nitroaniline	ND	600	33	ug/kg	
100-01-6	4-Nitroaniline	ND	600	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	18.4	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		30-130%
4165-62-2	Phenol-d5	60%		30-130%
118-79-6	2,4,6-Tribromophenol	84%		30-130%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114 Lab Sample ID: MC28245-3 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 83.1
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
112-95-8	Eicosane	11.08	270	ug/kg	JN
544-76-3	Hexadecane	11.47	270	ug/kg	JN
629-94-7	Heneicosane	11.87	280	ug/kg	JN
629-78-7	Heptadecane	12.65	300	ug/kg	JN
	Total TIC, Semi-Volatile		1120	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10600	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.15 U	0.96	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	6.6	0.96	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	105	4.8	0.070	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.58	0.39	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.22 B	0.39	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	8950	480	6.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	14.3	0.96	0.091	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	7.4	4.8	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	14.6	2.4	0.53	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	15800	9.6	0.84	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	35.6	0.96	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	7200	480	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	612	1.4	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.028 B	0.038	0.0084	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	15.1	3.9	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	923	480	8.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.96	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.48	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	2350	480	3.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	13.9	0.96	0.029	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.13 U	0.96	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	26.5	0.96	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	49.6	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.7
 4

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.1		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.2		su	1	02/15/14	MA	SW846 9045D

RL = Reporting Limit

4.7
4

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-3A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0060 B	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Barium	1.0	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cadmium	0.0031 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Cobalt	0.050			0.050	0.00040	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Copper	0.013 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Iron	0.14			0.10	0.020	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Lead	0.016	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Manganese	18.4			0.075	0.0040	mg/l	5	02/20/14	02/24/14	EAL SW846 6010C ³
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14	SA SW846 7470A ¹
Nickel	0.030 B			0.040	0.00057	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Selenium	0.0068 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²
Zinc	0.084 B			0.10	0.00050	mg/l	1	02/20/14	02/21/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22528
- (5) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: VL5-2(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28245-3B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.034		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.91		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.0032 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0016 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.092		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.034 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.077		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	94.1		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.12		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	1.7		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00018 B		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.084		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0015 B		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.30		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.9
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Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes			
Company Name Western		Project Name FDOT-042 Hampshire				<p style="text-align: center;"> <i>VOCS</i> <i>SIXCS</i> <i>Total Metals</i> <i>TCC P/S/DP Metals</i> <i>DO</i> </p>										DIV - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank			
Street Address 750 E. Banker Ct Ste 500		Street																	
City Warren Hills IL		City																	
State 60061		State																	
Zip 60061		Zip																	
Project Contact S. Babusankumar		Project #																	
Phone # 847-918-4018		Client PCW																	
Fax #		City																	
Sampler(s) Name(s) T. Wally		Project Manager Matt Maxwell																	
Field ID / Point of Collection		Collection				Number of preserved Bottles										LAB USE ONLY			
MECH/DI/VI #		Date																	
		Time																	
		Sampled By																	
		Matrix																	
		# of bottles																	
		HCl																	
		HNO3																	
		H2SO4																	
		NONE																	
		DI Water																	
		MECH																	
		ENCORE																	
		Bioshield																	
-1 AL2-13(0-1.5)-021114		2-11-14 1255 TW S 3				X X X X X													
-2 AL2-13(0-1.5)-021114D		1255																	
-3 AL2-2(0-1.5)-021114		1315																	
-4 AL2-14(0-1.5)-021114		1330																	
-5 AL2-16(0-1.5)-021114		1345																	
-6 AL2-18(0-1.5)-021114		1400																	
-7 F53-2(0-1.5)-021114		1415																	
-8 AL2-1(0-1.5)-021114		1435																	
-9 AL2-3(0-1.5)-021114		1450																	
-10 AL2-5(0-1.5)-021114		2-11-14 1505 TW S 3				X X X X X										IID			
		762 after 2-11-14																	
Turnaround Time (Business days)				Approved By (Accutest PM): / Date:				Data Deliverable Information										Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink								<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary											
Sample Custody must be documented below each time samples change possession, including courier delivery.														CHICAGO SC					
Relinquished by Sampler: 7.0 Wally		Date Time: 2-11-14/1536		Received By: <i>[Signature]</i>		Relinquished By: FDX		Date Time: 2-11-14		Received By: <i>[Signature]</i>									
3				3		4				4									
5				5		Custody Seal #		<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not intact <input type="checkbox"/>		On Ice <input checked="" type="checkbox"/>		Cooler Temp. 10-1.1-03-20							

MC28245: Chain of Custody

Page 1 of 2



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

15N 478 Engel Road

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088215571 Longitude: -88.578987767

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088215571 Longitude: -88.578987767

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION RE6-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-6. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28270

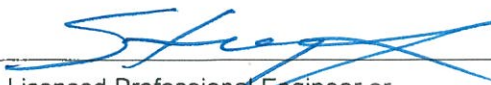
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.
 Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14
 Date:



Seal:

Summary Table of ISGS Site No. 2780-6
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	RE6-1(0.5-1.5)-021214	Soil Reference Concentrations^A
Sample Date	2/12/2014	
Location ID	RE6-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.5	<6.25,>9.0
VOCs (ug/kg)		
Acetone	176	25000
Benzene	3.8	30
Carbon disulfide	2.2 J	9000
Ethylbenzene	2.5 J	13000
Methyl ethyl ketone	25.7	17000
Methylene chloride	2.9	20
Toluene	7.1	12000
Xylene (Total)	5.6	5600
SVOCs (ug/kg)		
Benzo(a)anthracene	22.5 J	900 / 1100 / 1800
Benzo(a)pyrene	16.9 J	90 / 1300 / 2100
Benzo(b)fluoranthene	16.5 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	13.7 J	2300000
Chrysene	25.7 J	88000
Fluoranthene	34.7 J	3100000
Phenanthrene	23.5 J	210000
Pyrene	37.8 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	6.4	11.3 / 13
Barium, Total	65.1	1500
Beryllium, Total	0.46	22
Cadmium, Total	0.21 J	5.2
Calcium, Total	32900	---
Chromium, Total	12.4 J	21
Cobalt, Total	6.1 J	20
Copper, Total	13.6	2900
Iron, Total	13100 J	15000 / 15900
Lead, Total	40.2 J	107
Magnesium, Total	18800	325000
Manganese, Total	326 J	630 / 636
Mercury, Total	0.023 J	0.89
Nickel, Total	12.7	100
Potassium, Total	815	---
Sodium, Total	3230	---
Vanadium, Total	21.2	550
Zinc, Total	40.5 J	5100

Summary Table of ISGS Site No. 2780-6
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	RE6-1(0.5-1.5)-021214	Soil Reference Concentrations^A
Sample Date	2/12/2014	
Location ID	RE6-1	
Depth	0.5 - 1.5	
Parameter		
TCLP Metals (mg/l)		
Arsenic, TCLP	0.013	0.05
Barium, TCLP	1	2
Cadmium, TCLP	0.0019 J	0.005
Cobalt, TCLP	0.039 J	1
Copper, TCLP	0.013 J	0.65
Iron, TCLP	0.49	5
Lead, TCLP	0.0058 J	0.0075
Manganese, TCLP	11	0.15
Nickel, TCLP	0.029 J	0.1
Selenium, TCLP	0.0088 J	0.05
Zinc, TCLP	0.11	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.085	0.05
Barium, SPLP	0.96	2
Beryllium, SPLP	0.0055	0.004
Cadmium, SPLP	0.0011 J	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.052	1
Copper, SPLP	0.12	0.65
Iron, SPLP	156	5
Lead, SPLP	0.31	0.0075
Manganese, SPLP	2.3	0.15
Mercury, SPLP	0.00021	0.002
Nickel, SPLP	0.13	0.1
Selenium, SPLP	0.0055 J	0.05
Silver, SPLP	0.0018 J	0.05
Zinc, SPLP	0.48	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28270

Sampling Date: 02/12/14

Report to:

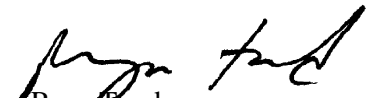
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **279**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	
Lab Sample ID: MC28270-5	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28076.D	1	02/19/14	AMY	n/a	n/a	MSV1053
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.57 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	176	13	5.1	ug/kg	
71-43-2	Benzene	3.8	0.65	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.47	ug/kg	
75-25-2	Bromoform	ND	2.6	0.38	ug/kg	
74-83-9	Bromomethane	ND	2.6	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	25.7	13	4.0	ug/kg	
75-15-0	Carbon disulfide	2.2	6.5	0.20	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.6	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.35	ug/kg	
75-00-3	Chloroethane	ND	6.5	0.78	ug/kg	
67-66-3	Chloroform	ND	2.6	0.37	ug/kg	
74-87-3	Chloromethane	ND	6.5	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	0.43	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	0.71	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.66	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.58	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.55	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.38	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.38	ug/kg	
100-41-4	Ethylbenzene	2.5	2.6	0.23	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	0.52	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.5	2.4	ug/kg	
75-09-2	Methylene chloride	2.9	2.6	2.0	ug/kg	
100-42-5	Styrene	ND	6.5	0.27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.38	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.57	ug/kg	
108-88-3	Toluene	7.1	6.5	0.32	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.45	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	
Lab Sample ID: MC28270-5	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.6	0.62	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.74	ug/kg	
1330-20-7	Xylene (total)	5.6	2.6	0.27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.20	25	ug/kg	JN
109-66-0	Pentane	2.43	18	ug/kg	JN
96-14-0	Pentane, 3-methyl-	3.86	6	ug/kg	JN
110-54-3	Hexane	4.28	11	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.34	6.5	ug/kg	JN
589-34-4	Hexane, 3-methyl-	6.84	3.2	ug/kg	JN
872-56-0	Isopropylcyclobutane	7.38	3.1	ug/kg	JN
142-82-5	Heptane	7.57	6.8	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.35	14	ug/kg	JN
1000195-03-0	Cyclobut-1-enylmethanol	9.81	6.1	ug/kg	JN
108-67-8	Benzene, 1,3,5-trimethyl-	12.97	5.1	ug/kg	JN
	Total TIC, Volatile		104.8	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID:	RE6-1(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-5	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	84.3
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37144.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	96	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	73	ug/kg	
95-48-7	2-Methylphenol	ND	590	23	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	41	ug/kg	
108-95-2	Phenol	ND	290	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	22.5	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	16.9	120	13	ug/kg	J
205-99-2	Benzo(b)fluoranthene	16.5	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	13.7	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	17.6	290	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	25.7	120	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RE6-1(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-5	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	84.3
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	290	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	34.7	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	23.5	120	16	ug/kg	J
129-00-0	Pyrene	37.8	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	
Lab Sample ID: MC28270-5	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	103%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
56554-86-0	17-Octadecenal	11.62	240	ug/kg	JN
	Total TIC, Semi-Volatile		240	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-5	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.95	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	6.4	0.95	0.20	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	65.1	4.7	0.069	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.46	0.38	0.023	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.21 B	0.38	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	32900	470	6.0	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	12.4	0.95	0.090	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	6.1	4.7	0.045	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	13.6	2.4	0.53	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	13100	9.5	0.83	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	40.2	0.95	0.16	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	18800	470	4.9	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	326	1.4	0.038	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.023 B	0.035	0.0078	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	12.7	3.8	0.042	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	815	470	8.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	3230	470	3.1	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.13 U	0.95	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	21.2	0.95	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	40.5	1.9	0.15	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-5	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.3		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.5		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

4.13
4

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-5A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.013	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	1.0	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0019 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.039 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.013 B			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.49			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0058 B	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	11.0			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.029 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0088 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.11			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.14
4

Report of Analysis

Client Sample ID: RE6-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-5B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.085		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	0.96		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0055		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0011 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.15		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.052		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.12		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	156		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.31		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.3		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00021		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.13		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0055 B		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0018 B		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.48		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.15
4

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)										Matrix Codes			
Company Name: Weston		Project Name: IDOT-042		VOCs SVOCs Total Metals TCUP/SPL P Metals pH										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SE - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank			
Street Address: 750 R. Bunker Co. Suite 500		Street: IL 72															
City: Vernon Hills, IL State: IL Zip: 60061		City: Hampshire, IL															
Project Contact: S. Babusukumar E-mail: 		Project ID#															
Phone #: 847-918-4018 Fax #		Client POE															
Sampler(s) Name(s): D. Cukierski Phone #		Project Manager		Attention:		PO#											
Accutest Sample #	Field ID / Point of Collection	MECH/ID/Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH3	H2S	H2S-X	NONE	DI Water	MECH	ENCORE	Bottle	LAB USE ONLY
1	AL2-7 (0.5-1.5)-021214		2/12/14	0815	DC	S	3										
2	AL2-7 (0.5-1.5)-021214D		2/12/14	0815	DC	S	3										
3	AL2-8 (0.5-1.5)-021214		2/12/14	0830	DC	S	3										
4	AL2-9 (0.5-1.5)-021214		2/12/14	0840	DC	S	3										
5	RE6-1 (0.5-1.5)-021214		2/12/14	0850	DC	S	3										
6	AL2-10 (0.5-1.5)-021214		2/12/14	0900	DC	S	3										
7	AL2-11 (0.5-1.5)-021214		2/12/14	0915	DC	S	3										
8	FS7-1 (0.5-1.5)-021214		2/12/14	0925	DC	S	3										
9	AL8-1 (0.5-1.5)-021214		2/12/14	0945	DC	S	3										11E
10	AL8-2 (0.5-1.5)-021214		2/12/14	0955	DC	S	3										
11	AL8-3 (0.5-1.5)-021214		2/12/14	1010	DC	S	3										
12	AL8-4 (0.5-1.5)-021214		2/12/14	1020	DC	S	3										
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information										Comments / Special Instructions			
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____													
Emergency & Rush T/A data available VIA Lablink																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	CHICAGO SC											
1 T. Kari	2/12/14 1200	[Signature]	F20V	2-13-14	[Signature]												
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:												
3 3043 7004 2053																	
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable		On ice <input checked="" type="checkbox"/> Cooler Temp. 92°											
5																	

5.1
5

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # <u>MC28270</u>

Client / Reporting Information			Project Information					Requested Analysis (see TEST CODE sheet)										Matrix Codes																																																																																																																															
Company Name <u>Weston</u>			Project Name <u>DOT-042</u>					<div style="display: flex; flex-direction: column; align-items: center;"> VOCs SVOCs Total Metals TEUP/SPLP Metals pH </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																																																																																															
Street Address <u>750 R Bunker G. Suite 500</u>			Street <u>IL 72</u>																																																																																																																																														
City State Zip <u>Vernon Hills IL 60061</u>			City <u>Hampshire, IL</u>																																																																																																																																														
Project Contact <u>S. Babusubraman</u>			Project #																																																																																																																																														
Phone # <u>847-918-4018</u>			Client PCB																																																																																																																																														
Sampler(s) Name(s) <u>D. Cukiesti</u>			Project Manager					<table border="1"> <tr> <th>Accutest Sample #</th> <th>Field ID / Point of Collection</th> <th>MECH/ID/ Vial #</th> <th>Date</th> <th>Time</th> <th>Sampled by</th> <th>Matrix</th> <th># of bottles</th> <th colspan="10">Number of preserved bottles</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PCB</td> <td>MECH</td> <td>PHOS</td> <td>PHOS4</td> <td>PEROX</td> <td>NONE</td> <td>DI Water</td> <td>MECH</td> <td>ENCORE</td> <td>Blankline</td> </tr> <tr> <td>-13</td> <td>AL8-5 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1030</td> <td>DC</td> <td>S</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>14</td> <td>AL8-6 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1040</td> <td>DC</td> <td>S</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>-15</td> <td>AL8-7 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1050</td> <td>DC</td> <td>S</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>-16</td> <td>AL8-8 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1100</td> <td>DC</td> <td>S</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>										Accutest Sample #	Field ID / Point of Collection	MECH/ID/ Vial #	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved bottles																		PCB	MECH	PHOS	PHOS4	PEROX	NONE	DI Water	MECH	ENCORE	Blankline	-13	AL8-5 (0.5-1.5)-021214		2/12/14	1030	DC	S	3											X	X	X	X	X	14	AL8-6 (0.5-1.5)-021214		2/12/14	1040	DC	S	3											X	X	X	X	X	-15	AL8-7 (0.5-1.5)-021214		2/12/14	1050	DC	S	3											X	X	X	X	X	-16	AL8-8 (0.5-1.5)-021214		2/12/14	1100	DC	S	3											X	X	X	X	X
Accutest Sample #	Field ID / Point of Collection	MECH/ID/ Vial #	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved bottles																																																																																																																																									
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-13	AL8-5 (0.5-1.5)-021214		2/12/14	1030	DC	S	3											X	X	X	X	X																																																																																																																											
14	AL8-6 (0.5-1.5)-021214		2/12/14	1040	DC	S	3											X	X	X	X	X																																																																																																																											
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Billing Information (If different from Report to)			Street Address					City State Zip										Attention: PCB#																																																																																																																															

Data Deliverable Information		Comments / Special Instructions	
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>	Approved By (Accutest PM) / Date: _____ _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary	<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: <u>D. Cukiesti</u>	Date Time: <u>2/12/14 12:00</u>	Received By: <u>[Signature]</u>	Date Time: <u>2/12/14 12:00</u>	Relinquished By: <u>[Signature]</u>	Date Time: <u>2-13-14</u>	Received By: <u>[Signature]</u>
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:
Relinquished by:	Date Time:	Received By:	Date Time:	Custody Seal #	<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not intact	
				On Ice <input checked="" type="checkbox"/> Cooler Temp. <u>0.2</u>		



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 435 IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088219010 Longitude: -88.575646197

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088219010 Longitude: -88.575646197

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION FS7-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-7. SEE FIGURE 3-2 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28270


IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation
 Street Address: 2300 South Dirksen Parkway
 City: Springfield State: IL Zip Code: 62764
 Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.
 Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14
 Date:



Professional Seal:

Summary Table of ISGS Site No. 2780-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	FS7-1(0.5-1.5)-021214	Soil Reference Concentrations^A
Sample Date	2/12/2014	
Location ID	FS7-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.6	<6.25,>9.0
VOCs (ug/kg)		
Acetone	84.8 J	25000
Benzene	1.1	30
Carbon disulfide	2.2 J	9000
Ethylbenzene	0.8 J	13000
Methyl ethyl ketone	10.7 J	17000
Toluene	2 J	12000
Xylene (Total)	1.9 J	5600
SVOCs (ug/kg)		
2-Methylnaphthalene	17.8 J	---
Anthracene	40.1 J	1.20E+07
Benzo(a)anthracene	132	900 / 1100 / 1800
Benzo(a)pyrene	126	90 / 1300 / 2100
Benzo(b)fluoranthene	122	900 / 1500 / 2100
Benzo(g,h,i)perylene	104 J	2300000
Benzo(k)fluoranthene	89.8 J	9000
bis(2-Ethylhexyl)phthalate	14.3 J	46000
Chrysene	170	88000
Fluoranthene	246	3100000
Indeno(1,2,3-cd)pyrene	65.7 J	900 / 900 / 1600
Phenanthrene	176	210000
Pyrene	287	2300000
Total Metals (mg/kg)		
Arsenic, Total	7.9	11.3 / 13
Barium, Total	88.9	1500
Beryllium, Total	0.65	22
Cadmium, Total	0.16 J	5.2
Calcium, Total	9440 J	---
Chromium, Total	21.4 J	21
Cobalt, Total	7.6 J	20
Copper, Total	20.3	2900
Iron, Total	19700 J	15000 / 15900
Lead, Total	61.1 J	107
Magnesium, Total	7400	325000
Manganese, Total	280 J	630 / 636
Mercury, Total	0.058	0.89
Nickel, Total	19.4	100
Potassium, Total	1060 J	---
Sodium, Total	3710	---
Vanadium, Total	28.5 J	550
Zinc, Total	54.3 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	0.0043 J	0.05
Barium, TCLP	0.92	2
Cadmium, TCLP	0.003 J	0.005
Cobalt, TCLP	0.045 J	1
Copper, TCLP	0.0095 J	0.65
Iron, TCLP	0.61	5
Lead, TCLP	0.062	0.0075
Manganese, TCLP	3.8	0.15
Nickel, TCLP	0.025 J	0.1
Selenium, TCLP	0.0076 J	0.05
Zinc, TCLP	0.1	5

Summary Table of ISGS Site No. 2780-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	FS7-1(0.5-1.5)-021214	Soil Reference Concentrations^A
Sample Date	2/12/2014	
Location ID	FS7-1	
Depth	0.5 - 1.5	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.14	0.05
Barium, SPLP	1.6	2
Beryllium, SPLP	0.013	0.004
Cadmium, SPLP	0.0023 J	0.005
Chromium, SPLP	0.31	0.1
Cobalt, SPLP	0.11	1
Copper, SPLP	0.33	0.65
Iron, SPLP	330	5
Lead, SPLP	0.98	0.0075
Manganese, SPLP	2.8	0.15
Mercury, SPLP	0.00063	0.002
Nickel, SPLP	0.33	0.1
Zinc, SPLP	0.99	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28270

Sampling Date: 02/12/14

Report to:

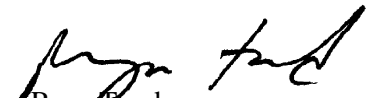
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **279**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Pand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	
Lab Sample ID: MC28270-8	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 84.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28093.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.20 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	84.8	14	5.5	ug/kg	
71-43-2	Benzene	1.1	0.71	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.51	ug/kg	
75-25-2	Bromoform	ND	2.8	0.41	ug/kg	
74-83-9	Bromomethane	ND	2.8	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	10.7	14	4.4	ug/kg	J
75-15-0	Carbon disulfide	2.2	7.1	0.21	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.8	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.38	ug/kg	
75-00-3	Chloroethane	ND	7.1	0.85	ug/kg	
67-66-3	Chloroform	ND	2.8	0.41	ug/kg	
74-87-3	Chloromethane	ND	7.1	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.60	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	0.47	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.77	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.72	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.63	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.41	ug/kg	
100-41-4	Ethylbenzene	0.80	2.8	0.25	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.56	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.1	2.6	ug/kg	
75-09-2	Methylene chloride	4.4	2.8	2.2	ug/kg	B
100-42-5	Styrene	ND	7.1	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.42	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.63	ug/kg	
108-88-3	Toluene	2.0	7.1	0.35	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.26	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.49	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-8	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.8	0.67	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.81	ug/kg	
1330-20-7	Xylene (total)	1.9	2.8	0.29	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	108%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.41	6.7	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	3.4	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.96	1.9	ug/kg	JN
	Total TIC, Volatile		12	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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4

Report of Analysis

Client Sample ID:	FS7-1(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-8	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	84.1
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37147.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	94	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	72	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	40.1	110	14	ug/kg	J
56-55-3	Benzo(a)anthracene	132	110	15	ug/kg	
50-32-8	Benzo(a)pyrene	126	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	122	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	104	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	89.8	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	21.4	290	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	14	ug/kg	
218-01-9	Chrysene	170	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	
Lab Sample ID: MC28270-8	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 84.1
Project: IDOT 042 - IL 72, Hampshire, IL	

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ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	14.3	290	11	ug/kg	J
206-44-0	Fluoranthene	246	110	16	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	65.7	110	13	ug/kg	J
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	17.8	110	15	ug/kg	J
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	176	110	16	ug/kg	
129-00-0	Pyrene	287	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		30-130%
4165-62-2	Phenol-d5	66%		30-130%
118-79-6	2,4,6-Tribromophenol	92%		30-130%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-8	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.1
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	100%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.38	300	ug/kg	JN
112-62-9	9-Octadecenoic acid (Z)-, methyl e	8.88	300	ug/kg	JN
646-31-1	Tetracosane	12.63	320	ug/kg	JN
67860-04-2	Oxirane, heptadecyl-	13.25	310	ug/kg	JN
	Total TIC, Semi-Volatile		1230	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-8	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.15 U	0.97	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	7.9	0.97	0.20	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	88.9	4.8	0.070	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.65	0.39	0.023	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.16 B	0.39	0.041	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	9440	480	6.1	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	21.4	0.97	0.092	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	7.6	4.8	0.045	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	20.3	2.4	0.54	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	19700	9.7	0.84	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	61.1	0.97	0.16	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	7400	480	4.9	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	280	1.5	0.039	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.058	0.035	0.0077	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	19.4	3.9	0.042	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	1060	480	8.3	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.34 U	0.97	0.34	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.48	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	3710	480	3.2	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.13 U	0.97	0.13	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	28.5	0.97	0.13	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	54.3	1.9	0.16	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22505
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-8	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.1
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.1		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.6		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

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4

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-8A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0043 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	0.92	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0030 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.045 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0095 B			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.61			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.062	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	3.8			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.025 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0076 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.10			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.23
4

Report of Analysis

Client Sample ID: FS7-1(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-8B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.14		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	1.6		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.013		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0023 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.31		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.11		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.33		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	330		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.98		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.8		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00063		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.33		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.99		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

FED-EX Tracking #	Boiler Order Control #
Accutest Quote #	Accutest Job # MC28270

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes						
Company Name: Weston		Project Name: IDOT-042		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCS Total Metals TEMP/SPL P Metals pH </div> <div style="font-size: small;"> DW - Drinking Water GW - Ground Water WW - Water SV - Surface Water SO - Soil SL - Sludge SE - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>												DW - Drinking Water GW - Ground Water WW - Water SV - Surface Water SO - Soil SL - Sludge SE - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank						
Street Address: 750 R Bunker Co. Suite 500		Street: IL 72																				
City: Vernon Hills, IL State: IL Zip: 60061		City: Hampshire, IL																				
Project Contact: S. Babusukumar E-mail: 		Project Manager: D. Cukierski																				
Phone #: 847-918-4018 Fax #: 		Client POE: 																				
Sampler(s) Name(s): D. Cukierski Phone #: 		Project Manager: Attention: PO#: 																				
Accutest Sample #	Field ID / Point of Collection	MECH/ID/Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH3	H2S	H2S-X	NONE	DI Water	MECH	ENCORE	Brinell	LAB USE ONLY					
1	AL2-7 (0.5-1.5)-021214		2/12/14	0815	DC	S	3										X	X	X	X	X	
2	AL2-7 (0.5-1.5)-021214D		2/12/14	0815	DC	S	3										X	X	X	X	X	
3	AL2-8 (0.5-1.5)-021214		2/12/14	0830	DC	S	3										X	X	X	X	X	
4	AL2-9 (0.5-1.5)-021214		2/12/14	0840	DC	S	3										X	X	X	X	X	
5	RE6-1 (0.5-1.5)-021214		2/12/14	0850	DC	S	3										X	X	X	X	X	
6	AL2-10 (0.5-1.5)-021214		2/12/14	0900	DC	S	3										X	X	X	X	X	
7	AL2-11 (0.5-1.5)-021214		2/12/14	0915	DC	S	3										X	X	X	X	X	
8	FS7-1 (0.5-1.5)-021214		2/12/14	0925	DC	S	3										X	X	X	X	X	
9	AL8-1 (0.5-1.5)-021214		2/12/14	0945	DC	S	3										X	X	X	X	X	11E
10	AL8-2 (0.5-1.5)-021214		2/12/14	0955	DC	S	3										X	X	X	X	X	
11	AL8-3 (0.5-1.5)-021214		2/12/14	1010	DC	S	3										X	X	X	X	X	
12	AL8-4 (0.5-1.5)-021214		2/12/14	1020	DC	S	3										X	X	X	X	X	

Turnaround Time (Business days)		Approved By (Accutest PM) / Date:	Data Deliverable Information		Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days	_____	_____	<input type="checkbox"/> Commercial "A" (Level 1)	<input type="checkbox"/> NYASP Category A		
<input type="checkbox"/> Std. 5 Business Days (By Contract only)	_____	_____	<input type="checkbox"/> Commercial "B" (Level 2)	<input type="checkbox"/> NYASP Category B		
<input type="checkbox"/> 5 Day RUSH	_____	_____	<input type="checkbox"/> FULLT1 (Level 3+4)	<input type="checkbox"/> State Forms		
<input type="checkbox"/> 3 Day EMERGENCY	_____	_____	<input type="checkbox"/> CT RCP	<input type="checkbox"/> EDD Format		
<input type="checkbox"/> 2 Day EMERGENCY	_____	_____	<input type="checkbox"/> MA MCP	<input type="checkbox"/> Other _____		
<input type="checkbox"/> 1 Day EMERGENCY	_____	_____	Commercial "A" = Results Only Commercial "B" = Results + QC Summary			

Emergency & Rush T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.						CHICAGO SC	
Relinquished by Sampler: [Signature]	Date Time: 2/12/14 1200	Received By: [Signature]	Relinquished By: F20V	Date Time: 1030 2-13-14	Received By: [Signature]		
Relinquished by Sampler: 3043 7004 2053	Date Time: 	Received By: 	Relinquished By: 	Date Time: 	Received By: 		
Relinquished by: 	Date Time: 	Received By: 	Custody Seal # <input type="checkbox"/> Intact <input type="checkbox"/> Not intact	Preserved where applicable <input type="checkbox"/>	On ice <input type="checkbox"/>	Cooler Temp. 92°	

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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28270

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes																																																																																																																														
Company Name Weston		Project Name DOT-042				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCs Total Metals TEUP/SPLP Metals PH </div> <div style="font-size: small;"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>										DW GW WW SW SO SL SED LIQ AIR SOL WP FB EB RB TB																																																																																																																														
Street Address 750 R Bunker G. Suite 500		Street IL 72																																																																																																																																												
City, State, Zip Vernon Hills, IL 60061		City Hampshire, IL																																																																																																																																												
Project Contact S. Babusubramaniam		Project #																																																																																																																																												
Phone # 847-918-4018		Client POB																																																																																																																																												
Sampler(s) Name(s) D. Cukiesti		Project Manager				<table border="1"> <thead> <tr> <th rowspan="2">Accutest Sample #</th> <th rowspan="2">Field ID / Point of Collection</th> <th rowspan="2">MECH/ID/Vial #</th> <th colspan="3">Collection</th> <th rowspan="2">Matrix</th> <th rowspan="2"># of bottles</th> <th colspan="10">Number of preserved bottles</th> <th rowspan="2">LAB USE ONLY</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Sampled by</th> <th>PCB</th> <th>MECH</th> <th>PHOS</th> <th>PERCH</th> <th>NONE</th> <th>DI Water</th> <th>MECH</th> <th>ENCORE</th> <th>Blankline</th> </tr> </thead> <tbody> <tr> <td>-13</td> <td>AL8-5 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1030</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>14</td> <td>AL8-6 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1040</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>-15</td> <td>AL8-7 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1050</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>-16</td> <td>AL8-8 (0.5-1.5)-021214</td> <td></td> <td>2/12/14</td> <td>1100</td> <td>DC S 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>										Accutest Sample #	Field ID / Point of Collection	MECH/ID/Vial #	Collection			Matrix	# of bottles	Number of preserved bottles										LAB USE ONLY	Date	Time	Sampled by	PCB	MECH	PHOS	PERCH	NONE	DI Water	MECH	ENCORE	Blankline	-13	AL8-5 (0.5-1.5)-021214		2/12/14	1030	DC S 3													X	X	X	X	X		14	AL8-6 (0.5-1.5)-021214		2/12/14	1040	DC S 3													X	X	X	X	X		-15	AL8-7 (0.5-1.5)-021214		2/12/14	1050	DC S 3													X	X	X	X	X		-16	AL8-8 (0.5-1.5)-021214		2/12/14	1100	DC S 3													X	X	X	X	X	
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Billing Information (if different from Report to)		Company Name																																																																																																																																												
Street Address		Street Address																																																																																																																																												
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Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information		Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days	_____	_____	_____	<input type="checkbox"/> Commercial "A" (Level 1)	<input type="checkbox"/> NYASP Category A		
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Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler		Received By		Relinquished By		Received By	
1	<i>[Signature]</i>	2/12/14 12:00	<i>[Signature]</i>	2/12/14 12:00	7:20	2/13/14	<i>[Signature]</i>
3			3			4	
5			5			4	

CHICAGO SC

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Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 400 to 48W 800 blocks of IL 72 (between Walker Road and Engel Road)

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088309672 Longitude: -88.569383296

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088309672 Longitude: -88.569383296

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS AL8-2, AL8-4, AL8-6, AL8-8, AL8-10, AL8-11, AL8-12, AND AL8-14 WERE SAMPLED ADJACENT TO ISGS SITE No. 2780-8. SEE FIGURES 3-2 AND 3-3 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242, MC28242A, MC28244, AND MC28270

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

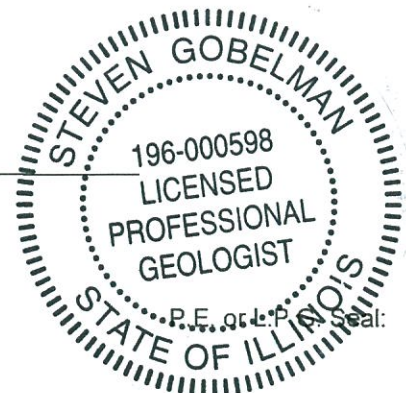
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14
 Date:



Summary Table of ISGS Site No. 2780-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL8-2(0.5-1.5)-021214	AL8-4(0.5-1.5)-021214	AL8-6(0.5-1.5)-021214	AL8-8(0.5-1.5)-021214	Soil Reference Concentrations ^A
Sample Date	2/12/2014	2/12/2014	2/12/2014	2/12/2014	
Location ID	AL8-2	AL8-4	AL8-6	AL8-8	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.2	8.9	8.2	8.7	<6.25,>9.0
VOCs (ug/kg)					
Acetone	44 J	33.2 J	91.4 J	65.1 J	25000
Benzene	5.4	5.2 J	1.5	1.6	30
Carbon disulfide	ND	ND	1.1 J	1.3 J	9000
Ethylbenzene	2.1 J	2.2 J	0.86 J	1.2 J	13000
Methyl ethyl ketone	ND	ND	15.1	5.8 J	17000
Toluene	7.3	7.6 J	2.9 J	3.8 J	12000
Trichloroethene	1.3 J	ND	ND	0.63 J	60
Xylene (Total)	5.4	5.1 J	2.4	3.4	5600
SVOCs (ug/kg)					
Acenaphthylene	ND	ND	ND	ND	85000
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	23.3 J	21 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	20.1 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	20 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	2300000
Benzo(k)fluoranthene	ND	ND	ND	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Chrysene	ND	ND	21.5 J	22.9 J	88000
Fluoranthene	ND	ND	36 J	31.5 J	3100000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	900 / 900 / 1600
Phenanthrene	ND	ND	27 J	16.9 J	210000
Pyrene	ND	ND	37.7 J	29 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	na	na	na	na	---
Antimony, Total	ND	ND	ND	ND	5
Arsenic, Total	5.1	4.9	6.8	8.7	11.3 / 13
Barium, Total	21.1	24.7	87.7	86.4	1500
Beryllium, Total	0.19 J	0.26 J	0.53	0.6	22
Cadmium, Total	ND	0.066 J	0.17 J	0.085 J	5.2
Calcium, Total	83100 J	82400 J	8730 J	6080 J	---
Chromium, Total	6.7 J	9.8 J	15.1 J	17.3 J	21
Cobalt, Total	3.1 J	3.7 J	6.1 J	8.4 J	20
Copper, Total	11.7	12.9	14.2	17.4	2900
Iron, Total	9210 J	9250 J	15100 J	19000 J	15000 / 15900
Lead, Total	14.4 J	41.6 J	33 J	17 J	107
Magnesium, Total	44400	44500	6320	5250	325000
Manganese, Total	337 J	363 J	362 J	526 J	630 / 636
Mercury, Total	ND	0.014 J	0.026 J	0.046	0.89
Nickel, Total	9.4	9.6	16.6	18.8	100
Potassium, Total	559 J	689 J	791 J	872 J	---
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	3460	2370	3490	3770	---
Strontium, Total	na	na	na	na	---
Thallium, Total	ND	ND	0.16 J	ND	2.6
Vanadium, Total	17.7 J	19.6 J	24.7 J	28.6 J	550
Zinc, Total	29 J	48.3 J	42 J	42 J	5100

Summary Table of ISGS Site No. 2780-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL8-2(0.5-1.5)-021214	AL8-4(0.5-1.5)-021214	AL8-6(0.5-1.5)-021214	AL8-8(0.5-1.5)-021214	Soil Reference Concentrations ^A
Sample Date	2/12/2014	2/12/2014	2/12/2014	2/12/2014	
Location ID	AL8-2	AL8-4	AL8-6	AL8-8	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	0.006 J	0.0042 J	0.0049 J	ND	0.05
Barium, TCLP	0.23 J	0.28 J	1.1	0.74	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0014 J	0.0016 J	0.0024 J	0.001 J	0.005
Chromium, TCLP	ND	ND	0.0017 J	ND	0.1
Cobalt, TCLP	0.0007 J	0.012 J	0.056	0.011 J	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	0.027 J	0.12	0.043 J	5
Lead, TCLP	ND	ND	0.011	ND	0.0075
Manganese, TCLP	1.2	2.4	8.5	3.1	0.15
Nickel, TCLP	0.009 J	0.014 J	0.073	0.016 J	0.1
Selenium, TCLP	0.011 J	0.012 J	0.0073 J	0.0088 J	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.022 J	0.09 J	0.062 J	0.027 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.02	0.048	0.11	0.14	0.05
Barium, SPLP	0.17 J	0.36 J	1.4	1.5	2
Beryllium, SPLP	0.0011 J	0.0036 J	0.0097	0.012	0.004
Cadmium, SPLP	0.0006 J	0.0017 J	0.0013 J	0.0015 J	0.005
Chromium, SPLP	0.038	0.12	0.23	0.27	0.1
Cobalt, SPLP	0.0083 J	0.033 J	0.071	0.1	1
Copper, SPLP	0.047	0.11	0.23	0.31	0.65
Iron, SPLP	37	110	245	321	5
Lead, SPLP	0.073	0.35	0.33	0.46	0.0075
Manganese, SPLP	0.62	0.98	2.5	4	0.15
Mercury, SPLP	ND	0.0002	0.0006	0.0009	0.002
Nickel, SPLP	0.032 J	0.09	0.29	0.34	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	ND	0.0014 J	ND	ND	0.05
Zinc, SPLP	0.17	0.51	0.63	0.81	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL8-10(0-1.5)-021014	AL8-11(0-1.5)-021114	AL8-12(0.5-1.5)-021114	AL8-14(0.5-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL8-10	AL8-11	AL8-12	AL8-14	
Depth	0 - 1.5	0 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.7	7.8	8.8	8.8	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	ND	24.3	31.7	25000
Benzene	1.2	ND	0.82	2.4	30
Carbon disulfide	ND	ND	ND	ND	9000
Ethylbenzene	0.58 J	ND	0.32 J	0.4 J	13000
Methyl ethyl ketone	ND	ND	ND	ND	17000
Toluene	2 J	ND	1.3 J	2 J	12000
Trichloroethene	ND	ND	ND	ND	60
Xylene (Total)	1.3 J	ND	0.83 J	1.3 J	5600
SVOCs (ug/kg)					
Acenaphthylene	ND	ND	20.3 J	ND	85000
Anthracene	ND	ND	18.9 J	ND	1.20E+07
Benzo(a)anthracene	ND	ND	64.9 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	95.5 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	96 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	107 J	ND	2300000
Benzo(k)fluoranthene	ND	ND	86.8 J	ND	9000
bis(2-Ethylhexyl)phthalate	ND	13.6 J	ND	ND	46000
Butyl benzyl phthalate	ND	ND	93.7 JB	ND	930000
Chrysene	ND	ND	80.4 J	ND	88000
Fluoranthene	ND	ND	132	ND	3100000
Indeno(1,2,3-cd)pyrene	ND	ND	81.5 J	ND	900 / 900 / 1600
Phenanthrene	ND	ND	57.2 J	ND	210000
Pyrene	ND	ND	117	ND	2300000
Total Metals (mg/kg)					
Aluminum, Total	6510	na	4600	13900	---
Antimony, Total	0.15 J	ND	0.17 J	ND	5
Arsenic, Total	5	8.5	5.4	8.9	11.3 / 13
Barium, Total	63.9	105	35.9	96.5	1500
Beryllium, Total	0.46	0.61	0.25 J	0.61	22
Cadmium, Total	ND	0.11 J	ND	0.051 J	5.2
Calcium, Total	90600	2230	142000	39500	---
Chromium, Total	11.5	16 J	9.3 J	16.4 J	21
Cobalt, Total	3.6 J	8.1 J	2.9 J	7.6	20
Copper, Total	11.3	15.8	8	18.6	2900
Iron, Total	10700	18700 J	8390 J	19400 J	15000 / 15900
Lead, Total	30.3	11.1 J	15.5 J	14.7 J	107
Magnesium, Total	57100	2990	85000	28000	325000
Manganese, Total	258	542 J	237 J	294 J	630 / 636
Mercury, Total	ND	0.038	0.015 J	0.051	0.89
Nickel, Total	11.9	18	7.6 J	15.3 J	100
Potassium, Total	699	713	794	947	---
Selenium, Total	ND	0.49 J	ND	ND	1.3
Sodium, Total	3470	3510	1880	5570	---
Strontium, Total	34.7	na	44.3 J	21.3 J	---
Thallium, Total	0.28 J	0.15 J	ND	ND	2.6
Vanadium, Total	17.4	26.1	14.4	34.4	550
Zinc, Total	26.3	42.3 J	22.6 J	42.9 J	5100

Summary Table of ISGS Site No. 2780-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL8-10(0-1.5)-021014	AL8-11(0-1.5)-021114	AL8-12(0.5-1.5)-021114	AL8-14(0.5-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL8-10	AL8-11	AL8-12	AL8-14	
Depth	0 - 1.5	0 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	0.0029 J	ND	ND	0.0051 J	0.05
Barium, TCLP	0.81	0.66	0.88	1.3	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0019 J	ND	0.0011 J	0.0011 J	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.026 J	ND	0.024 J	0.027 J	1
Copper, TCLP	ND	0.0087 J	0.01 J	0.016 J	0.65
Iron, TCLP	ND	0.028 J	0.15	0.56	5
Lead, TCLP	0.015	ND	ND	ND	0.0075
Manganese, TCLP	4.7	0.039	4.8	2.6	0.15
Nickel, TCLP	0.041	0.0027 J	0.022 J	0.012 J	0.1
Selenium, TCLP	ND	0.005 J	0.0081 J	0.0084 J	0.05
Silver, TCLP	0.0014 J	ND	ND	ND	0.05
Zinc, TCLP	0.07 J	0.026 J	0.051 J	0.053 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.032	0.028	0.014	0.026	0.05
Barium, SPLP	0.47 J	0.71	0.26 J	0.46 J	2
Beryllium, SPLP	0.0027 J	0.0021 J	0.0008 J	0.0017 J	0.004
Cadmium, SPLP	0.0011 J	0.001 J	ND	0.0006 J	0.005
Chromium, SPLP	0.087	0.061	0.025	0.057	0.1
Cobalt, SPLP	ND	0.014 J	0.0071 J	0.016 J	1
Copper, SPLP	0.054	0.063	0.024 J	0.054	0.65
Iron, SPLP	68.5	70.1	22.2	56.1	5
Lead, SPLP	0.19	0.018	0.047	0.025	0.0075
Manganese, SPLP	0.63	0.93	0.31	0.31	0.15
Mercury, SPLP	ND	0.00013 J	ND	0.00013 J	0.002
Nickel, SPLP	0.064	0.061	0.021 J	0.039 J	0.1
Selenium, SPLP	0.005 J	ND	ND	ND	0.05
Silver, SPLP	0.001 J	ND	ND	ND	0.05
Zinc, SPLP	0.22	0.18	0.091 J	0.14	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242

Sampling Date: 02/10/14

Report to:

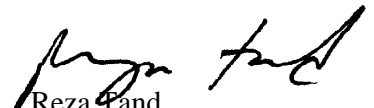
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **305**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-18	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63227.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.32 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	4.2	ug/kg	
71-43-2	Benzene	1.2	0.53	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.39	ug/kg	
75-25-2	Bromoform	ND	2.1	0.31	ug/kg	
74-83-9	Bromomethane	ND	2.1	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.64	ug/kg	
67-66-3	Chloroform	ND	2.1	0.31	ug/kg	
74-87-3	Chloromethane	ND	5.3	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	0.36	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	0.58	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.54	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.45	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.31	ug/kg	
100-41-4	Ethylbenzene	0.58	2.1	0.19	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	0.42	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.3	2.0	ug/kg	
75-09-2	Methylene chloride	ND	2.1	1.7	ug/kg	
100-42-5	Styrene	ND	5.3	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.31	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.47	ug/kg	
108-88-3	Toluene	2.0	5.3	0.26	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.37	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-18	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.1	0.51	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.61	ug/kg	
1330-20-7	Xylene (total)	1.3	2.1	0.22	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.52
4

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	
Lab Sample ID: MC28242-18	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 87.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37125.D	5	02/19/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	64	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	72	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	82	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	460	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5700	710	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	350	ug/kg	
95-48-7	2-Methylphenol	ND	2800	110	ug/kg	
106-44-5	4-Methylphenol	ND	2800	140	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	75	ug/kg	
100-02-7	4-Nitrophenol	ND	5700	530	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	200	ug/kg	
108-95-2	Phenol	ND	1400	80	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	71	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	70	ug/kg	
83-32-9	Acenaphthene	ND	570	76	ug/kg	
208-96-8	Acenaphthylene	ND	570	57	ug/kg	
120-12-7	Anthracene	ND	570	68	ug/kg	
56-55-3	Benzo(a)anthracene	ND	570	73	ug/kg	
50-32-8	Benzo(a)pyrene	ND	570	61	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	570	71	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	570	56	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	570	85	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	71	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	58	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	77	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	71	ug/kg	
86-74-8	Carbazole	ND	570	67	ug/kg	
218-01-9	Chrysene	ND	570	70	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	66	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	86	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	87	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	
Lab Sample ID: MC28242-18	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 87.9
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1400	73	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	81	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1400	75	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	71	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	140	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	570	67	ug/kg	
132-64-9	Dibenzofuran	ND	570	78	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	44	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	71	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	82	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	52	ug/kg	
206-44-0	Fluoranthene	ND	570	77	ug/kg	
86-73-7	Fluorene	ND	570	75	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	89	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	82	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	710	ug/kg	
67-72-1	Hexachloroethane	ND	1400	68	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	570	62	ug/kg	
78-59-1	Isophorone	ND	1400	65	ug/kg	
91-57-6	2-Methylnaphthalene	ND	570	72	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	71	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	150	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	71	ug/kg	
91-20-3	Naphthalene	ND	570	91	ug/kg	
98-95-3	Nitrobenzene	ND	1400	76	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	81	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	85	ug/kg	
85-01-8	Phenanthrene	ND	570	77	ug/kg	
129-00-0	Pyrene	ND	570	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		30-130%
4165-62-2	Phenol-d5	63%		30-130%
118-79-6	2,4,6-Tribromophenol	74%		30-130%
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014 Lab Sample ID: MC28242-18 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 87.9
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.52
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-18	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6510	17	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Antimony	0.15 B	0.86	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.0	0.86	0.18	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	63.9	4.3	0.062	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.46	0.34	0.020	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.036 U	0.34	0.036	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	90600	4300	54	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁴
Chromium	11.5	0.86	0.081	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	3.6 B	4.3	0.040	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	11.3	2.1	0.47	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	10700	8.6	0.74	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	30.3	0.86	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	57100	430	4.4	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	258	1.3	0.034	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.0081 U	0.037	0.0081	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁵
Nickel	11.9	3.4	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	699	430	7.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.30 U	0.86	0.30	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.11 U	0.43	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	3470	430	2.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Strontium	34.7	0.86	0.026	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.28 B	0.86	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	17.4	0.86	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	26.3	1.7	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22488
- (5) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.52
4

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014 Lab Sample ID: MC28242-18 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 87.9
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4.52
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.9		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.7		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-18A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 B	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.81	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0019 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.026 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.015	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	4.7			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.041			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0048 U	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0014 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.070 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-10(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-18B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 87.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.032		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.47 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0027 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.0011 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.087		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.054		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	68.5		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.19		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.63		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.064		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0050 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 B		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.22		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes								
Company Name <i>Weston</i>		Project Name <i>IDOT-042 Hampshire</i>														DW - Drinking Water GW - Ground Water W/W - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank								
Street Address <i>750 E. Bunler Ct Ste 500</i>		Street: <i>Il DOT-042 Hampshire</i>																						
City <i>Newton Hills IL 60061</i>		Billing Information (If different from Report to)																						
State <i>IL</i>		Company Name																						
Zip <i>60061</i>		City																						
Project Contact <i>S. Babushkumar</i>		E-mail																						
Phone # <i>847-918-4018</i>		Fax #																						
Client PO#		Street Address																						
Sampler(s) Name(s) <i>T. Walters</i>		Phone #																						
Project Manager		Attention:																						
PO#																								
Accutest Sample #	Field ID / Point of Collection	MECH/DI Vial #	Collection			Matrix	# of bottles	Number of preserved Bottles											LAB USE ONLY					
			Date	Time	Sampled by:			HCl	NPH	PH204	PH204	NONE	DI Water	MEOH	ENCORE	Bottle(s)								
-1	AL19-6(0-1.5)-021014		2-10-14	0910	TW	S	3											X	X	X	X	X		
-2	AL19-8(0-1.5)-021014			0910																				
-3	RE20-2(0-1.5)-021014			0945																				
-4	AL19-8(0-1.5)-021014			1005																				
-5	PE-1(0-1.5)-021014			1025																				
-6	PE-3(0-1.5)-021014			1040																				
-7	AL13-14(0-1.5)-021014			1100																				
-8	AL13-16(0-1.5)-021014			1115																				
-9	AL13-20(0-1.5)-021014			1135																			110	
-10	AL13-20(0-1.5)-021014			1155																				
-11	AL13-22(0-1.5)-021014			1215																				
-12	AL13-24(0-1.5)-021014		2-10-14	1230	TW	S	3											X	X	X	X	X		
Turnaround Time (Business days)												Data Deliverable Information												Comments / Special Instructions
<input checked="checked" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink			Approved By (Accutest PM): / Date: _____			<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary																		
Sample Custody must be documented below each time samples change possession, including courier delivery.																								CHICAGO SC
Relinquished by Sampler: <i>7 Walters</i>			Date Time: <i>2-11-14/1530</i>			Received By: <i>Stephanie 2-11-14 9.41</i>			Relinquished By: <i>FEOX</i>			Date Time: <i>2-12-14</i>			Received By: <i>Stephanie</i>									
Relinquished by Sampler: <i>3</i>			Date Time: <i>3</i>			Received By: <i>3</i>			Relinquished By: <i>4</i>			Date Time: <i>4</i>			Received By: <i>4</i>									
Relinquished by: <i>5</i>			Date Time: <i>5</i>			Received By: <i>5</i>			Custody Seal #			<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact			Preserved where applicable			On Ice Cooler Temp. <input checked="checked" type="checkbox"/> 10-11-38-20						

5.1 5

Client / Reporting Information Company Name: <u>Woraton</u> Street Address: <u>750 E. Banker Ct Ste 500</u> City: <u>Norwalk IL 60061</u> Project Contact: <u>S. Babasakumar</u> Phone #: <u>847-918-4018</u> Sampler(s) Name(s): <u>T. Walls</u>		Project Information Project Name: <u>EDOT-042 Hampshire</u> Street: _____ Billing Information (if different from Report to): Company Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____ Client PO#: _____ Project Manager: <u>Matt Maxwell</u> Attention: _____ PO#: _____		Requested Analysis (see TEST CODE sheet) <div style="text-align: center;"> <p>SOCs</p> <p>SOCs</p> <p>Total Metals</p> <p>TCLP/SPLP metals</p> <p>DH</p> </div>				Matrix Codes DW - Drinking Water GW - Ground Water LW - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																																																																																																																																																																																																																																																		
Account Service # _____ Field ID / Point of Collection: _____ MECHDI Val # _____ Date: _____ Time: _____ Sampled by: _____ Matrix: _____ # of bottles: _____ Number of preserved bottles: FCI _____ NHOH _____ NNO3 _____ H2SO4 _____ NONE _____ ID Water _____ MECH _____ ENCORE _____ Biohazard _____		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">-13</td><td style="width: 25%;">AL13-2(0-1.5)-021014</td><td style="width: 10%;">2-10-14</td><td style="width: 10%;">1250</td><td style="width: 5%;">TW</td><td style="width: 5%;">S</td><td style="width: 5%;">3</td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 5%;"></td></tr> <tr> <td>-14</td><td>AL13-2(0-1.5)-021014</td><td></td><td>1250</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-15</td><td>RE10-2(0-1.5)-021014</td><td></td><td>1310</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-16</td><td>RE10-4(0-1.5)-021014</td><td></td><td>1330</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-17</td><td>RE10-1(0-1.5)-021014</td><td></td><td>1415</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-18</td><td>AL8-10(0-1.5)-021014</td><td></td><td>1430</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-19</td><td>AL13-1(0-1.5)-021014</td><td></td><td>1445</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-20</td><td>AL13-3(0-1.5)-021014</td><td></td><td>1520</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-21</td><td>AL13-5(0-1.5)-021014</td><td></td><td>1525</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-22</td><td>AL13-7(0-1.5)-021014</td><td>2-10-14</td><td>1540</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-23</td><td>VL15-1(0-1.5)-021114</td><td>2-11-14</td><td>0825</td><td>TW</td><td>S</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>-24</td><td>AL13-10(0-1.5)-021114</td><td>2-11-14</td><td>0835</td><td>TW</td><td>S</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				-13	AL13-2(0-1.5)-021014	2-10-14	1250	TW	S	3																-14	AL13-2(0-1.5)-021014		1250																				-15	RE10-2(0-1.5)-021014		1310																				-16	RE10-4(0-1.5)-021014		1330																				-17	RE10-1(0-1.5)-021014		1415																				-18	AL8-10(0-1.5)-021014		1430																				-19	AL13-1(0-1.5)-021014		1445																				-20	AL13-3(0-1.5)-021014		1520																				-21	AL13-5(0-1.5)-021014		1525																				-22	AL13-7(0-1.5)-021014	2-10-14	1540																				-23	VL15-1(0-1.5)-021114	2-11-14	0825	TW	S	3																	-24	AL13-10(0-1.5)-021114	2-11-14	0835	TW	S	3																	LAB USE ONLY	
-13	AL13-2(0-1.5)-021014	2-10-14	1250	TW	S	3																																																																																																																																																																																																																																																																																				
-14	AL13-2(0-1.5)-021014		1250																																																																																																																																																																																																																																																																																							
-15	RE10-2(0-1.5)-021014		1310																																																																																																																																																																																																																																																																																							
-16	RE10-4(0-1.5)-021014		1330																																																																																																																																																																																																																																																																																							
-17	RE10-1(0-1.5)-021014		1415																																																																																																																																																																																																																																																																																							
-18	AL8-10(0-1.5)-021014		1430																																																																																																																																																																																																																																																																																							
-19	AL13-1(0-1.5)-021014		1445																																																																																																																																																																																																																																																																																							
-20	AL13-3(0-1.5)-021014		1520																																																																																																																																																																																																																																																																																							
-21	AL13-5(0-1.5)-021014		1525																																																																																																																																																																																																																																																																																							
-22	AL13-7(0-1.5)-021014	2-10-14	1540																																																																																																																																																																																																																																																																																							
-23	VL15-1(0-1.5)-021114	2-11-14	0825	TW	S	3																																																																																																																																																																																																																																																																																				
-24	AL13-10(0-1.5)-021114	2-11-14	0835	TW	S	3																																																																																																																																																																																																																																																																																				
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>		Approved By (Accutest PM) / Date: _____ <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Data Deliverable Information <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____				Comments / Special Instructions																																																																																																																																																																																																																																																																																		
Sample Custody must be documented below each time samples change possession, including courier delivery.																																																																																																																																																																																																																																																																																										
Relinquished by Sampler: 1 <u>T. Walls</u>		Date Time: <u>2-11-14 1538</u>		Received By: <u>Stephanie</u>		Date Time: <u>2-11-14 341</u>		Relinquished By: 2 <u>Fiona</u>		Date Time: <u>2-9-14</u>		Received By: 2 <u>Stephanie</u>																																																																																																																																																																																																																																																																														
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FED-EX Tracking #		Bottle Order Control #															
Accutest Quote #		Accutest Job # MC28242															
Client / Reporting Information		Project Information															
Company Name Weston		Project Name IDOT-042 Hampshire															
Street Address 750 E. Banker Ct Ste 500		Street:															
City Jerman Hills IL 60061		Billing Information (If different from Report to)															
Project Contact S. Robinson Kumar		Company Name															
Phone # 847-918-4018		Street Address															
Fax #		City															
Client PO#		State															
Zip		Zip															
Sampler(s) Name(s) T. Wallis		Project Manager Matt Mornell															
Phone #		Attention:															
FGR		FGR															
Requested Analysis (see TEST CODE sheet)		Matrix Codes															
<p>LAB USE ONLY</p> <p>DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank</p>		<p>VOCs SVOCs Total Metals TCP/SPL Metals PH</p>															
Accutest Sample #	Field ID / Point of Collection	MECH/DI Val #	Collection	Number of preserved bottles										LAB USE ONLY			
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNOC	HSO4	NO3	DI Water	MECH	ENCLOSURE	Insulation	
25	ALB-12(0-1.5)-021114		2-11-14	0915	TW	S	3										X X X X X
26	AL13-12(0-1.5)-021114D			0915													
27	FS18-1(0-1.5)-021114			0935													
28	FS18-3(0-1.5)-021114			0950													
29	AL19-1(0-1.5)-021114			1005													
30	AL19-3(0-1.5)-021114			1025													
31	AL19-5(0-1.5)-021114			1040													
32	ALB-11(0-1.5)-021114			1130													
33	ALB-13(0-1.5)-021114			1145													
34	ALB-15(0-1.5)-021114			1200													
35	ALB-17(0-1.5)-021114			1215	TW	S	3										X X X X X
36	ALB-19(0-1.5)-021114		2-11-14	1240	TW	S	3										X X X X X
Turnaround Time (Business days)		Approved By (Accutest PM) / Date:		Data Deliverable Information										Comments / Special Instructions			
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary													
Sample Custody must be documented below each time samples change possession, including courier delivery.														CHICAGO SC			
Relinquished by Sampler:	Date Time:	Received By:	Received Date Time:	Relinquished By:	Date Time:	Received By:	Received Date Time:										
1 Z. Wallis	2-11-14/1538	T. Wallis	2-11-14 5:41	2 FEDX	2-12-14	T. Wallis	2-12-14										
Relinquished by Sampler:	Date Time:	Received By:	Received Date Time:	Relinquished By:	Date Time:	Received By:	Received Date Time:										
3				4													
Relinquished by:	Date Time:	Received By:	Received Date Time:	Custody Seal #	<input type="checkbox"/> Intact	Preserved where applicable	<input type="checkbox"/>	On Ice	Cooler Temp.								
5					<input type="checkbox"/> Not intact			<input checked="" type="checkbox"/>	10-11-08-20								

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5

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242A

Sampling Dates: 02/10/14 - 02/11/14

Report to:

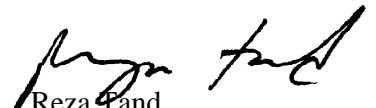
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **273**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	
Lab Sample ID: MC28242-32	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63309.D	1	02/20/14	KD	n/a	n/a	MSM2220
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.24 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	4.3	ug/kg	
71-43-2	Benzene	ND	0.56	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.40	ug/kg	
75-25-2	Bromoform	ND	2.2	0.32	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.67	ug/kg	
67-66-3	Chloroform	ND	2.2	0.32	ug/kg	
74-87-3	Chloromethane	ND	5.6	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.47	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.37	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.61	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.58	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.57	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.33	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	0.20	ug/kg	
591-78-6	2-Hexanone	ND	11	2.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.44	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.6	2.1	ug/kg	
75-09-2	Methylene chloride	ND	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.6	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.49	ug/kg	
108-88-3	Toluene	ND	5.6	0.27	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.39	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-32	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.2	0.53	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.63	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL8-11(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-32	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37085.D	1	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	73	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	ND	120	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL8-11(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-32	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	13.6	290	11	ug/kg	J
206-44-0	Fluoranthene	ND	120	16	ug/kg	
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	15	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	ND	120	14	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	84%		30-130%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-32	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.6
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.41	380	ug/kg	JN
57-11-4	Octadecanoic acid	9.11	280	ug/kg	JN
630-06-8	Hexatriacontane	12.28	260	ug/kg	JN
	Total TIC, Semi-Volatile		920	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-32	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	8.5	0.94	0.20	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	105	4.7	0.068	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.61	0.38	0.022	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.11 B	0.38	0.040	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	2230	470	5.9	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	16.0	0.94	0.090	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	8.1	4.7	0.044	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	15.8	2.4	0.52	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	18700	9.4	0.82	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	11.1	0.94	0.16	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	2990	470	4.8	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	542	1.4	0.038	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.038	0.037	0.0082	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	18.0	3.8	0.041	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	713	470	8.1	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.49 B	0.94	0.33	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	3510	470	3.1	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.15 B	0.94	0.13	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	26.1	0.94	0.12	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	42.3	1.9	0.15	mg/kg	1	02/17/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16752
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-32	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.6		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	7.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.34
4

Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-32A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Barium	0.66	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.00050 U	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.00040 U			0.050	0.00040	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Copper	0.0087 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Iron	0.028 B			0.10	0.020	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Manganese	0.039			0.015	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.0027 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0050 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Zinc	0.026 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-11(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-32B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.028		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.71		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0021 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0010 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.061		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.014 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.063		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	70.1		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.018		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.93		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00013 B		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.061		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.18		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.36
4

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

Form containing Client/Reporting Information, Project Information, Requested Analysis, Accutest Job # (MC28242A), Sample Collection Table, Data Deliverable Information, and Chain of Custody (Relinquished/Received by and dates).

5-1 5

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #
Accutest Quote #
Bottle Order Control #
Accutest Job # **mc28242A**

Client / Reporting Information			Project Information				Requested Analysis (see TEST CODE sheet)													Matrix Codes													
Company Name Woston			Project Name IDOT-042 Hampshire				<p style="text-align: center;">SOCs SNOs Total Metals TCLP/SPLP Metals PH</p>													DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank													
Street Address 750 E. Banker Ct Ste 500			Street																														
City State Zip Deerons Hills IL 60061			Billing Information (If different from Report to)																														
Project Contact S. Babusankumar			Company Name																														
Phone # Fax # 847-918-4018			Street Address																														
Sampler(s) Name(s) T. Walls			Project Manager Matt Maxwell																														
Phone #			Attention: POC#																														
Accutest Sample #	Field ID / Point of Collection	MECH/CI Viol #	Collection				Number of preserved Bottles										LAB USE ONLY																
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NH ₄ OH	HNO ₃	H ₂ SO ₄	HNO ₂	Dil Water	MESOH	ENCORE	Shrinker																	
-13	AL13-26(0-1.5)-021014		2-10-14	1250	rw	S	3										X	X	X	X	X												
-14	AL13-26(0-1.5)-021014 D			1250													X	X	X	X	X												
-15	RE10-2(0-1.5)-021014			1310													X	X	X	X	X												
-16	RE10-4(0-1.5)-021014			1330													X	X	X	X	X												
-17	RE10-1(0-1.5)-021014			1415													X	X	X	X	X												
-18	AL8-10(0-1.5)-021014			1430													X	X	X	X	X												
-19	AL13-1(0-1.5)-021014			1445													X	X	X	X	X												
-20	AL13-3(0-1.5)-021014			1520													X	X	X	X	X												
-21	AL13-5(0-1.5)-021014			1525													X	X	X	X	X												
-22	AL13-7(0-1.5)-021014		2-10-14	1540													X	X	X	X	X												
-23	VL15-1(0-1.5)-021114		2-11-14	0825	rw	S	3										X	X	X	X	X												
-24	AL13-10(0-1.5)-021114		2-11-14	0835	rw	S	3										X	X	X	X	X												
Turnaround Time (Business Days)			Approved By (Accutest PM): / Date:				Data Deliverable Information										Comments / Special Instructions																
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY							<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary																										
Emergency & Rush TIA data available VIA Lablink																																	
Sample Custody must be documented below each time samples change possession, including courier delivery.													CHICAGO SC																				
Relinquished by Sampler: 7. walls		Date Time: 2-11-14 1538		Received By: <i>[Signature]</i>		Date Time: 2-11-14 341		Relinquished By: Fiona		Date Time: 2-11-14		Received By: <i>[Signature]</i>																					
Relinquished by Sampler: 3		Date Time:		Received By: 3		Date Time:		Relinquished By: 4		Date Time:		Received By: 4																					
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp.																					
5				5								<input checked="" type="checkbox"/> 10-11-08-20																					

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MC28242A: Chain of Custody

Page 2 of 3

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FED-EX Tracking # _____ B-Title Order Control # _____
Accutest Quote # _____ Accutest Job # **MC28242A**

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes							
Company Name Weston		Project Name IDOT-042 Hampshire				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCs Total Metals TCRP/SPLP Metals PH </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>												LAB USE ONLY							
Street Address 750 E. Banker Ct. Ste 500		Billing Information (If different from Report to)																							
City, State, Zip Jacksonville FL 32001		Company Name																							
Project Contact S. Babusankumar		Street Address																							
Phone # 047-918-4018		Project #		City		State		Zip																	
Fax #		Client PO#		City		State		Zip																	
Sampler(s) Name(s) T. Wallis		Project Manager Matt McNeill		Attention:		PO#																			
Access Sample #	Field ID / Point of Collection	MECH/CI Val #	Collection				Number of preserved Bottles																		
			Date	Time	Sampled By	Matrix	# of bottles	KCl	NaOH	HClO3	H2SO4	NO2	Dil Water	MEOH	ENCORE	Bottle									
25	ALB-12(0-1.5)-021114		2-11-14	0915	TW	S	3											X	X	X	X	X			
26	AL13-12(0-1.5)-021114D			0915																					
27	FS18-1(0-1.5)-021114			0935																					
28	FS18-3(0-1.5)-021114			0950																					
29	AL19-1(0-1.5)-021114			1005																					
30	AL19-3(0-1.5)-021114			1025																					
31	AL19-5(0-1.5)-021114			1040																					
32	ALB-11(0-1.5)-021114			1130																					
33	ALB-13(0-1.5)-021114			1145																					
34	ALB-15(0-1.5)-021114			1200																					
35	ALB-17(0-1.5)-021114			1215																					
36	ALB-19(0-1.5)-021114		2-11-14	1240	TW	S	3																		
Data Deliverable Information												Comments / Special Instructions													
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink				Approved By (Accutest PM) / Date: _____				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																									
Relinquished by Sampler: 1 T. Wallis		Date Time: 2-11-14/1538		Received By: [Signature]		Date Time: 2-11-14 5:41		Relinquished By: 2 FEDX		Date Time: 2-12-14		Received By: CHICAGO SC [Signature]													
Relinquished by Sampler: 3		Date Time:		Received By: 3		Date Time:		Relinquished By:		Date Time:		Received By:													
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact		On Ice: 0-10-11-08-20 Cooler Temp:													

5.1 5

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244

Sampling Date: 02/11/14

Report to:

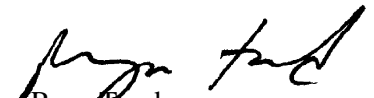
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63283.D	1	02/19/14	KD	n/a	n/a	MSM2219
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.63 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	24.3	10	4.0	ug/kg	
71-43-2	Benzene	0.82	0.51	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.37	ug/kg	
75-25-2	Bromoform	ND	2.1	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.1	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.28	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.61	ug/kg	
67-66-3	Chloroform	ND	2.1	0.30	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	0.56	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	0.54	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.46	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.30	ug/kg	
100-41-4	Ethylbenzene	0.32	2.1	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	1.9	ug/kg	
75-09-2	Methylene chloride	ND	2.1	1.6	ug/kg	
100-42-5	Styrene	ND	5.1	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.45	ug/kg	
108-88-3	Toluene	1.3	5.1	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.36	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.1	0.49	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.58	ug/kg	
1330-20-7	Xylene (total)	0.83	2.1	0.21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	
Lab Sample ID: MC28244-9	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17716.D	1	02/18/14	KR	02/14/14	OP36851	MSW778
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	20.3	110	11	ug/kg	J
120-12-7	Anthracene	18.9	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	64.9	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	95.5	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	96.0	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	107	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	86.8	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	93.7	280	11	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	80.4	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
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Report of Analysis

Client Sample ID:	AL8-12(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-9	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	132	110	15	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	81.5	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	57.2	110	15	ug/kg	J
129-00-0	Pyrene	117	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		30-130%
4165-62-2	Phenol-d5	79%		30-130%
118-79-6	2,4,6-Tribromophenol	87%		30-130%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114 Lab Sample ID: MC28244-9 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4600	18	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.17 B	0.92	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	5.4	0.92	0.19	mg/kg	1	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	35.9	4.6	0.067	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.25 B	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.039 U	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	142000	4600	58	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	9.3	0.92	0.088	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	2.9 B	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	8.0	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	8390	9.2	0.80	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	15.5	0.92	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	85000	4600	47	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	237	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.015 B	0.035	0.0077	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	7.6	3.7	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	794	460	7.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.46	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	1880	460	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	44.3	0.92	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	14.4	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	22.6	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16751
- (4) Prep QC Batch: MP22492
- (5) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.6		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

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Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-9A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	0.88	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.024 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Copper	0.010 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.15			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Manganese	4.8			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.022 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0081 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.051 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-12(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-9B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.014		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.26 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00080 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.025		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.0071 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.024 B		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	22.2		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.047		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.31		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.021 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.091 B		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.27
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Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	
Lab Sample ID: MC28244-10	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 79.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63284.D	1	02/19/14	KD	n/a	n/a	MSM2219
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.01 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	31.7	13	4.9	ug/kg	
71-43-2	Benzene	2.4	0.63	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.46	ug/kg	
75-25-2	Bromoform	ND	2.5	0.37	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.34	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.76	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.3	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.42	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.68	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.64	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.56	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.37	ug/kg	
100-41-4	Ethylbenzene	0.40	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.3	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.3	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.37	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.56	ug/kg	
108-88-3	Toluene	2.0	6.3	0.31	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.44	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 79.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.60	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.72	ug/kg	
1330-20-7	Xylene (total)	1.3	2.5	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
110-54-3	Hexane	8.46	9	ug/kg	JN
	Total TIC, Volatile		9	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.28
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Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	
Lab Sample ID: MC28244-10	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 79.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W17717.D	5	02/18/14	KR	02/14/14	OP36851	MSW778
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	69	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3100	78	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3100	88	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3100	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	6100	770	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3100	380	ug/kg	
95-48-7	2-Methylphenol	ND	3100	120	ug/kg	
106-44-5	4-Methylphenol	ND	3100	160	ug/kg	
88-75-5	2-Nitrophenol	ND	3100	82	ug/kg	
100-02-7	4-Nitrophenol	ND	6100	570	ug/kg	
87-86-5	Pentachlorophenol	ND	3100	220	ug/kg	
108-95-2	Phenol	ND	1500	87	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3100	77	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3100	76	ug/kg	
83-32-9	Acenaphthene	ND	610	82	ug/kg	
208-96-8	Acenaphthylene	ND	610	61	ug/kg	
120-12-7	Anthracene	ND	610	74	ug/kg	
56-55-3	Benzo(a)anthracene	ND	610	79	ug/kg	
50-32-8	Benzo(a)pyrene	ND	610	66	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	610	77	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	610	61	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	610	93	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	77	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	63	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	83	ug/kg	
106-47-8	4-Chloroaniline	ND	3100	77	ug/kg	
86-74-8	Carbazole	ND	610	72	ug/kg	
218-01-9	Chrysene	ND	610	76	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	72	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	93	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	110	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	94	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 79.1
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	79	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	88	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	82	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3100	200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3100	77	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	610	73	ug/kg	
132-64-9	Dibenzofuran	ND	610	85	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	48	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	77	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	89	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	57	ug/kg	
206-44-0	Fluoranthene	ND	610	84	ug/kg	
86-73-7	Fluorene	ND	610	82	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	96	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	89	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3100	770	ug/kg	
67-72-1	Hexachloroethane	ND	1500	74	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	610	68	ug/kg	
78-59-1	Isophorone	ND	1500	71	ug/kg	
91-57-6	2-Methylnaphthalene	ND	610	78	ug/kg	
88-74-4	2-Nitroaniline	ND	3100	77	ug/kg	
99-09-2	3-Nitroaniline	ND	3100	170	ug/kg	
100-01-6	4-Nitroaniline	ND	3100	77	ug/kg	
91-20-3	Naphthalene	ND	610	98	ug/kg	
98-95-3	Nitrobenzene	ND	1500	83	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	88	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	93	ug/kg	
85-01-8	Phenanthrene	ND	610	83	ug/kg	
129-00-0	Pyrene	ND	610	72	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		30-130%
4165-62-2	Phenol-d5	64%		30-130%
118-79-6	2,4,6-Tribromophenol	63%		30-130%
4165-60-0	Nitrobenzene-d5	62%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114 Lab Sample ID: MC28244-10 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 79.1
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	75%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 79.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	13900	20	3.6	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Antimony	0.15 U	1.0	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	8.9	1.0	0.21	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	96.5	5.1	0.073	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.61	0.40	0.024	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.051 B	0.40	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	39500	510	6.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	16.4	1.0	0.096	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	7.6	5.1	0.048	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	18.6	2.5	0.56	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	19400	10	0.88	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	14.7	1.0	0.17	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	28000	510	5.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	294	1.5	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.051	0.039	0.0086	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	15.3	4.0	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	947	510	8.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.35 U	1.0	0.35	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.13 U	0.51	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	5570	510	3.3	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Strontium	21.3	1.0	0.030	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.13 U	1.0	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	34.4	1.0	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	42.9	2.0	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16751
- (3) Prep QC Batch: MP22492
- (4) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 79.1
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.1		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-10A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 79.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0051 B	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	1.3	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.027 B			0.050	0.00040	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Copper	0.016 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.56			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Manganese	2.6			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.012 B			0.040	0.00057	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Selenium	0.0084 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.053 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22534
- (4) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-14(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-10B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 79.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.026		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.46 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.0017 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.057		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.016 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.054		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	56.1		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.025		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.31		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00013 B		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.039 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.14		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

Client / Reporting Information Company Name: Weston Street Address: 750 Bunker Ct. Suite 500 City: Vernon Hills, IL 60061 Project Contact: S. Babusukumar Phone #: 847-918-4018 Project Manager: D. Cukierski 224-875-0534		Project Information Project Name: IDOT-042 Street: IL 72 City: Hampshire, IL Billing Information (If different from Report to): Company Name: Street Address: City: State Zip: Attention: POB:		Requested Analysis (see TEST CODE sheet) VOCs SVOCs Total Metals TCLP/SPLR Metals pH										Matrix Codes OW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Accutest Sample # Field ID / Point of Collection MEQ/MDI Vial # Date Time Sampled by Matrix # of bottles HCl HNO3 H2SO4 NONE DI Water MESH ENCORE Residue		Number of preserved bottles X										LAB USE ONLY IID			
Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Approved By (Accutest PM): / Date:		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Data Deliverable Information Comments / Special Instructions											
Emergency & Rush TIA data available VIA Lablink															
Sample Custody must be documented below each time samples change possession, including courier delivery.															
Relinquished By: [Signature] Date Time: 2/11/14 15:37		Received By: [Signature] Date Time: 2/11/14 5:55		Relinquished By: FEDx Date Time: 2-12-14		Received By: [Signature] Date Time:		CHICAGO, IL				On Ice: <input checked="" type="checkbox"/> Cooler Temp: 1.0-1.1-0.8-20			
Relinquished By: [Signature] Date Time:		Received By: [Signature] Date Time:		Relinquished By: [Signature] Date Time:		Received By: [Signature] Date Time:		Custody Seal # <input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact				On Ice: <input type="checkbox"/> Cooler Temp:			

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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28244

Client / Reporting Information			Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name Weston			Project Name IDOT-042										<div style="display: flex; flex-direction: column; align-items: center;"> VOCs SUOCs Total Metals TCLP/SRLP Metals pH </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address 150 E. Banker Ct. Suite 500			Street: IL 72																				
City State Zip Vernon Hills, IL 60061			Billing Information (If different from Report to) City: Hampshire, IL																				
Project Contact S. Babusukumar			Company Name																				
Phone # 847-918-4018			Street Address																				
Fax #			City State Zip																				
Sampler(s) Name(s) Dan Cukierski 284-875-0500			Project Manager										Attention: PCW										
Accutest Sample #	Field ID / Point of Collection	MEQHDI Viol #	Collection			Matrix	# of bottles	Number of preserved Bottles										LAB USE ONLY					
			Date	Time	Sampled by			HCl	NaOH	HNOS	H2SO4	HNO2	DI Water	MECH	ENCPRE	Business							
13	AL2-18(0.5-1.5)-021114		2/11/14	1225	DC S	3											X	X	X	X	X		
14	AL2-12(0.5-1.5)-021114		2/11/14	1245	DC S	2											X	X	X	X	X		
15	VL5-1(0.5-1.5)-021114		2/11/14	1305	DC S	3											X	X	X	X	X		
16	SB-1(0.5-1.5)-021114		2/11/14	1320	DC S	3											X	X	X	X	X		
17	AL2-15(0.5-1.5)-021114		2/11/14	1340	DC S	3											X	X	X	X	X		
18	AL2-17(0.5-1.5)-021114		2/11/14	1355	DC S	3											X	X	X	X	X		
19	FS3-1(0.5-1.5)-021114		2/11/14	1410	DC S	3											X	X	X	X	X		
20	AL2-19(0.5-1.5)-021114		2/11/14	1425	DC S	3											X	X	X	X	X		
21	AL2-2(0.5-1.5)-021114		2/11/14	1440	DC S	3											X	X	X	X	X		
22	AL2-4(0.5-1.5)-021114		2/11/14	1455	DC S	3											X	X	X	X	X		
23	AL2-6(0.5-1.5)-021114		2/11/14	1515	DC S	3											X	X	X	X	X		
24	AL2-6(0.5-1.5)-021114		2/11/14	1515	DC S	3											X	X	X	X	X		

Data Deliverable Information			Comments / Special Instructions
Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By: [Signature]	Date Time: 2/11/14 1537	Received By: [Signature]	Date Time: 2/11/14 3:39	Relinquished By: FEDX	Date Time: 2-12-14	Received By: [Signature]
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:
3		3		4		4
Relinquished by:	Date Time:	Received By:	Date Time:	Custody Seal #	<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact	
5		5			On Ice <input type="checkbox"/> Cooler Temp. <input type="checkbox"/> 20-1-0.8-2.0	

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Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28270

Sampling Date: 02/12/14

Report to:

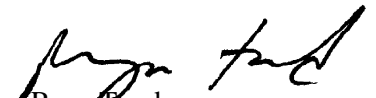
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **279**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-10	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 91.3
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28095.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2 ^a	V28128.D	1	02/21/14	AMY	n/a	n/a	MSV1055

Run #	Initial Weight	Final Volume
Run #1	3.96 g	5.0 ml
Run #2	3.83 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	44.0	14	5.4	ug/kg	
71-43-2	Benzene	5.4	0.69	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.50	ug/kg	
75-25-2	Bromoform	ND	2.8	0.40	ug/kg	
74-83-9	Bromomethane	ND	2.8	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.37	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.83	ug/kg	
67-66-3	Chloroform	ND	2.8	0.40	ug/kg	
74-87-3	Chloromethane	ND	6.9	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.59	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.75	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.70	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.58	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.40	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.40	ug/kg	
100-41-4	Ethylbenzene	2.1	2.8	0.25	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.55	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.9	2.6	ug/kg	
75-09-2	Methylene chloride	5.1	2.8	2.1	ug/kg	B
100-42-5	Styrene	ND	6.9	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.41	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.61	ug/kg	
108-88-3	Toluene	7.3	6.9	0.34	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.48	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	
Lab Sample ID: MC28270-10	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	1.3	2.8	0.66	ug/kg	J
75-01-4	Vinyl chloride	ND	2.8	0.79	ug/kg	
1330-20-7	Xylene (total)	5.4	2.8	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	105%	70-130%
2037-26-5	Toluene-D8	70%	69% ^b	70-130%
460-00-4	4-Bromofluorobenzene	123%	151% ^b	70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.17	35	ug/kg	JN
109-66-0	Pentane	2.43	28	ug/kg	JN
110-54-3	Hexane	4.24	11	ug/kg	JN
96-37-7	Cyclopentane, methyl-	5.30	5.6	ug/kg	JN
142-82-5	Heptane	7.55	3.4	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	7.2	ug/kg	JN
111-65-9	Octane	9.81	1.8	ug/kg	JNB
611-14-3	Benzene, 1-ethyl-2-methyl-	12.53	1.9	ug/kg	JN
620-14-4	Benzene, 1-ethyl-3-methyl-	12.95	3.7	ug/kg	JN
	Total TIC, Volatile		95.8	ug/kg	J

(a) Confirmation run.

(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	
Lab Sample ID: MC28270-10	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37149.D	5	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1300	61	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2700	68	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2700	78	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2700	440	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5400	670	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	340	ug/kg	
95-48-7	2-Methylphenol	ND	2700	110	ug/kg	
106-44-5	4-Methylphenol	ND	2700	140	ug/kg	
88-75-5	2-Nitrophenol	ND	2700	72	ug/kg	
100-02-7	4-Nitrophenol	ND	5400	500	ug/kg	
87-86-5	Pentachlorophenol	ND	2700	190	ug/kg	
108-95-2	Phenol	ND	1300	76	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2700	67	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2700	66	ug/kg	
83-32-9	Acenaphthene	ND	540	72	ug/kg	
208-96-8	Acenaphthylene	ND	540	54	ug/kg	
120-12-7	Anthracene	ND	540	65	ug/kg	
56-55-3	Benzo(a)anthracene	ND	540	69	ug/kg	
50-32-8	Benzo(a)pyrene	ND	540	58	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	540	67	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	540	54	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	540	81	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1300	68	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1300	55	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1300	73	ug/kg	
106-47-8	4-Chloroaniline	ND	2700	67	ug/kg	
86-74-8	Carbazole	ND	540	63	ug/kg	
218-01-9	Chrysene	ND	540	67	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1300	63	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1300	82	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1300	97	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1300	82	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL8-2(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-10	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	91.3
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1300	70	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1300	77	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1300	72	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2700	180	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2700	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1300	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	540	64	ug/kg	
132-64-9	Dibenzofuran	ND	540	74	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1300	140	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1300	42	ug/kg	
84-66-2	Diethyl phthalate	ND	1300	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	1300	78	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1300	50	ug/kg	
206-44-0	Fluoranthene	ND	540	74	ug/kg	
86-73-7	Fluorene	ND	540	71	ug/kg	
118-74-1	Hexachlorobenzene	ND	1300	84	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1300	78	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2700	670	ug/kg	
67-72-1	Hexachloroethane	ND	1300	65	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	540	59	ug/kg	
78-59-1	Isophorone	ND	1300	62	ug/kg	
91-57-6	2-Methylnaphthalene	ND	540	68	ug/kg	
88-74-4	2-Nitroaniline	ND	2700	67	ug/kg	
99-09-2	3-Nitroaniline	ND	2700	150	ug/kg	
100-01-6	4-Nitroaniline	ND	2700	67	ug/kg	
91-20-3	Naphthalene	ND	540	86	ug/kg	
98-95-3	Nitrobenzene	ND	1300	73	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1300	77	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1300	81	ug/kg	
85-01-8	Phenanthrene	ND	540	73	ug/kg	
129-00-0	Pyrene	ND	540	63	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		30-130%
4165-62-2	Phenol-d5	46%		30-130%
118-79-6	2,4,6-Tribromophenol	54%		30-130%
4165-60-0	Nitrobenzene-d5	53%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214 Lab Sample ID: MC28270-10 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 91.3
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	63%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.28
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-10	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.13 U	0.88	0.13	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.1	0.88	0.18	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	21.1	4.4	0.064	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.19 B	0.35	0.021	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.037 U	0.35	0.037	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	83100	4400	55	mg/kg	10	02/18/14	02/19/14	EAL SW846 6010C ³	SW846 3050B ⁴
Chromium	6.7	0.88	0.084	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	3.1 B	4.4	0.042	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	11.7	2.2	0.49	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	9210	8.8	0.77	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	14.4	0.88	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	44400	440	4.5	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	337	1.3	0.035	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.0074 U	0.034	0.0074	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ¹	SW846 7471B ⁵
Nickel	9.4	3.5	0.039	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	559	440	7.6	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.31 U	0.88	0.31	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.11 U	0.44	0.11	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	3460	440	2.9	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.12 U	0.88	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	17.7	0.88	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	29.0	1.8	0.14	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Instrument QC Batch: MA16764
- (4) Prep QC Batch: MP22505
- (5) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-10	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

4.28
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.3		%	1	02/17/14	CF	SM21 2540 B MOD.
pH	8.2		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-10A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0060 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	0.23 B	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0014 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.00070 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	1.2			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.0090 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.011 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.022 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.29
4

Report of Analysis

Client Sample ID: AL8-2(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-10B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.020		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	0.17 B		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0011 B		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.038		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0083 B		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.047		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	37.0		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.073		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.62		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.032 B		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.17		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.30
4

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214	
Lab Sample ID: MC28270-12	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28130.D	1	02/21/14	AMY	n/a	n/a	MSV1055
Run #2 ^a	V28097.D	1	02/20/14	AMY	n/a	n/a	MSV1054

Run #	Initial Weight	Final Volume
Run #1	4.06 g	5.0 ml
Run #2	5.44 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	33.2	14	5.6	ug/kg	
71-43-2	Benzene	5.2	0.72	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.9	0.52	ug/kg	
75-25-2	Bromoform	ND	2.9	0.42	ug/kg	
74-83-9	Bromomethane	ND	2.9	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.4	ug/kg	
75-15-0	Carbon disulfide	ND	7.2	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.9	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	2.9	0.39	ug/kg	
75-00-3	Chloroethane	ND	7.2	0.86	ug/kg	
67-66-3	Chloroform	ND	2.9	0.41	ug/kg	
74-87-3	Chloromethane	ND	7.2	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.9	0.61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.9	0.48	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.9	0.78	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.9	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.9	0.73	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.9	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.9	0.61	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.9	0.42	ug/kg	
100-41-4	Ethylbenzene	2.2	2.9	0.25	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.9	0.57	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.2	2.7	ug/kg	
75-09-2	Methylene chloride	6.2	2.9	2.2	ug/kg	B
100-42-5	Styrene	ND	7.2	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.9	0.42	ug/kg	
127-18-4	Tetrachloroethene	ND	2.9	0.63	ug/kg	
108-88-3	Toluene	7.6	7.2	0.35	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.9	0.26	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.9	0.50	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-12	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.9	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.9	0.82	ug/kg	
1330-20-7	Xylene (total)	5.1	2.9	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	96%	70-130%
2037-26-5	Toluene-D8	73%	74%	70-130%
460-00-4	4-Bromofluorobenzene	143% ^b	143% ^b	70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.19	30	ug/kg	JN
115-11-7	1-Propene, 2-methyl-	3.86	4.9	ug/kg	JN
142-82-5	Heptane	7.58	2.8	ug/kg	JN
26232-98-4	2-Pentene, 4,4-dimethyl-	8.35	5.2	ug/kg	JN
565-80-0	3-Pentanone, 2,4-dimethyl-	10.32	3.1	ug/kg	JN
	Total TIC, Volatile		46	ug/kg	J

(a) Confirmation run.

(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214	
Lab Sample ID: MC28270-12	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37151.D	5	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	66	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	74	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	84	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	470	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5800	730	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	360	ug/kg	
95-48-7	2-Methylphenol	ND	2900	120	ug/kg	
106-44-5	4-Methylphenol	ND	2900	150	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	78	ug/kg	
100-02-7	4-Nitrophenol	ND	5800	540	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	200	ug/kg	
108-95-2	Phenol	ND	1500	83	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	73	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	72	ug/kg	
83-32-9	Acenaphthene	ND	580	78	ug/kg	
208-96-8	Acenaphthylene	ND	580	58	ug/kg	
120-12-7	Anthracene	ND	580	70	ug/kg	
56-55-3	Benzo(a)anthracene	ND	580	75	ug/kg	
50-32-8	Benzo(a)pyrene	ND	580	63	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	580	73	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	580	58	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	580	88	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	73	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	59	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	79	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	73	ug/kg	
86-74-8	Carbazole	ND	580	69	ug/kg	
218-01-9	Chrysene	ND	580	72	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	68	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	89	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	89	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL8-4(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-12	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	85.9
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	75	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	83	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	77	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	73	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	580	69	ug/kg	
132-64-9	Dibenzofuran	ND	580	80	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	45	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	73	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	84	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	54	ug/kg	
206-44-0	Fluoranthene	ND	580	80	ug/kg	
86-73-7	Fluorene	ND	580	77	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	91	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	84	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	730	ug/kg	
67-72-1	Hexachloroethane	ND	1500	70	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	580	64	ug/kg	
78-59-1	Isophorone	ND	1500	67	ug/kg	
91-57-6	2-Methylnaphthalene	ND	580	74	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	73	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	160	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	73	ug/kg	
91-20-3	Naphthalene	ND	580	93	ug/kg	
98-95-3	Nitrobenzene	ND	1500	79	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	83	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	88	ug/kg	
85-01-8	Phenanthrene	ND	580	79	ug/kg	
129-00-0	Pyrene	ND	580	68	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	80	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		30-130%
4165-62-2	Phenol-d5	41%		30-130%
118-79-6	2,4,6-Tribromophenol	53%		30-130%
4165-60-0	Nitrobenzene-d5	48%		30-130%
321-60-8	2-Fluorobiphenyl	53%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214 Lab Sample ID: MC28270-12 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 85.9
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	56%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.34
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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-12	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.95	0.14	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	4.9	0.95	0.20	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	24.7	4.7	0.069	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.26 B	0.38	0.023	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.066 B	0.38	0.040	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	82400	4700	59	mg/kg	10	02/18/14	02/19/14	EAL SW846 6010C ³	SW846 3050B ⁴
Chromium	9.8	0.95	0.090	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	3.7 B	4.7	0.044	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	12.9	2.4	0.53	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	9250	9.5	0.82	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	41.6	0.95	0.16	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	44500	470	4.8	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	363	1.4	0.038	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.014 B	0.036	0.0079	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ¹	SW846 7471B ⁵
Nickel	9.6	3.8	0.042	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	689	470	8.1	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	2370	470	3.1	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.13 U	0.95	0.13	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	19.6	0.95	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	48.3	1.9	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Instrument QC Batch: MA16764
- (4) Prep QC Batch: MP22505
- (5) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214 Lab Sample ID: MC28270-12 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 85.9
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4.34
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.9		%	1	02/17/14	CF	SM21 2540 B MOD.
pH	8.9		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-12A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0042 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	0.28 B	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0016 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.012 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.027 B			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	2.4			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.014 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.012 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.090 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-4(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-12B	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 85.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.048		0.010	0.0029	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Barium	0.36 B		0.50	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0036 B		0.0040	0.00025	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0017 B		0.0040	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.12		0.010	0.0014	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.033 B		0.050	0.00040	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Copper	0.11		0.025	0.0070	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Iron	110		0.10	0.020	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Lead	0.35		0.010	0.0017	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.98		0.015	0.00081	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00020		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.090		0.040	0.00057	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0014 B		0.0050	0.0010	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.51		0.10	0.00050	mg/l	1	02/24/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.36
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	
Lab Sample ID: MC28270-14	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8260C	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V28099.D	1	02/20/14	AMY	n/a	n/a	MSV1054

Run #1	Initial Weight	Final Volume
Run #2	4.95 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	91.4	12	4.6	ug/kg	
71-43-2	Benzene	1.5	0.58	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.42	ug/kg	
75-25-2	Bromoform	ND	2.3	0.34	ug/kg	
74-83-9	Bromomethane	ND	2.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	15.1	12	3.6	ug/kg	
75-15-0	Carbon disulfide	1.1	5.8	0.18	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.3	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.32	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.70	ug/kg	
67-66-3	Chloroform	ND	2.3	0.34	ug/kg	
74-87-3	Chloromethane	ND	5.8	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	0.39	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	0.63	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	0.61	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.59	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.49	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.34	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.34	ug/kg	
100-41-4	Ethylbenzene	0.86	2.3	0.21	ug/kg	J
591-78-6	2-Hexanone	ND	12	2.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	0.46	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.8	2.2	ug/kg	
75-09-2	Methylene chloride	ND	2.3	1.8	ug/kg	
100-42-5	Styrene	ND	5.8	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.52	ug/kg	
108-88-3	Toluene	2.9	5.8	0.28	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.41	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214		Date Sampled: 02/12/14
Lab Sample ID: MC28270-14		Date Received: 02/13/14
Matrix: SO - Soil		Percent Solids: 86.4
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.3	0.55	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.67	ug/kg	
1330-20-7	Xylene (total)	2.4	2.3	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	2.41	8.5	ug/kg	JN
110-54-3	Hexane	4.26	5.1	ug/kg	JN
142-82-5	Heptane	7.55	2.7	ug/kg	JN
6728-26-3	2-Hexenal, (E)-	8.32	5.6	ug/kg	JN
2213-23-2	Heptane, 2,4-dimethyl-	9.81	1.5	ug/kg	JN
526-73-8	Benzene, 1,2,3-trimethyl-	12.96	2	ug/kg	JN
	Total TIC, Volatile		25.4	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	
Lab Sample ID: MC28270-14	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37153.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	71	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	560	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	23.3	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	21.5	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	
Lab Sample ID: MC28270-14	Date Sampled: 02/12/14
Matrix: SO - Soil	Date Received: 02/13/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	36.0	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	12	ug/kg	
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	27.0	110	15	ug/kg	J
129-00-0	Pyrene	37.7	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	94%		30-130%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-14	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 86.4
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
301-02-0	9-Octadecenamide, (Z)-	9.84	290	ug/kg	JN
54833-48-6	Heptadecane, 2,6,10,15-tetramethyl	12.64	1200	ug/kg	JN
	Total TIC, Semi-Volatile		1490	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-14	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

4.40
4

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	6.8	0.92	0.19	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	87.7	4.6	0.067	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.53	0.37	0.022	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.17 B	0.37	0.039	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	8730	460	5.8	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	15.1	0.92	0.087	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	6.1	4.6	0.043	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	14.2	2.3	0.51	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	15100	9.2	0.80	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	33.0	0.92	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	6320	460	4.7	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	362	1.4	0.037	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.026 B	0.035	0.0076	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	16.6	3.7	0.040	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	791	460	7.9	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.11 U	0.46	0.11	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	3490	460	3.0	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.16 B	0.92	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	24.7	0.92	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	42.0	1.8	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22505
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-14	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.4		%	1	02/17/14	CF	SM21 2540 B MOD.
pH	8.2		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

4.40
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-14A	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0049 B	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	1.1	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0024 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0017 B	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.056			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.12			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.011	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	8.5			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.073			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0073 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.062 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.41
4

Report of Analysis

Client Sample ID: AL8-6(0.5-1.5)-021214 Lab Sample ID: MC28270-14B Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 86.4
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Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.11		0.010	0.0029	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Barium	1.4		0.50	0.00081	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Beryllium	0.0097		0.0040	0.00025	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Cadmium	0.0013 B		0.0040	0.00050	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Chromium	0.23		0.010	0.0014	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Cobalt	0.071		0.050	0.00040	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Copper	0.23		0.025	0.0070	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Iron	245		0.10	0.020	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Lead	0.33		0.010	0.0017	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Manganese	2.5		0.015	0.00081	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Mercury	0.00060		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.29		0.040	0.00057	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Zinc	0.63		0.10	0.00050	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.42
4

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-16	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V28101.D	1	02/20/14	AMY	n/a	n/a	MSV1054
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.49 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	65.1	11	4.2	ug/kg	
71-43-2	Benzene	1.6	0.54	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.39	ug/kg	
75-25-2	Bromoform	ND	2.2	0.31	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	5.8	11	3.3	ug/kg	J
75-15-0	Carbon disulfide	1.3	5.4	0.16	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.65	ug/kg	
67-66-3	Chloroform	ND	2.2	0.31	ug/kg	
74-87-3	Chloromethane	ND	5.4	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.36	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.59	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.56	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.55	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.48	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.45	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.31	ug/kg	
100-41-4	Ethylbenzene	1.2	2.2	0.19	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.4	2.0	ug/kg	
75-09-2	Methylene chloride	ND	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.4	0.22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.32	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.48	ug/kg	
108-88-3	Toluene	3.8	5.4	0.26	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.37	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-16	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	0.63	2.2	0.51	ug/kg	J
75-01-4	Vinyl chloride	ND	2.2	0.61	ug/kg	
1330-20-7	Xylene (total)	3.4	2.2	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	2.18	26	ug/kg	JN
109-66-0	Pentane	2.42	17	ug/kg	JN
110-54-3	Hexane	4.24	8.4	ug/kg	JN
589-34-4	Hexane, 3-methyl-	6.81	2.9	ug/kg	JN
142-82-5	Heptane	7.55	5.4	ug/kg	JN
108-87-2	Cyclohexane, methyl-	8.32	9.5	ug/kg	JN
111-65-9	Octane	9.81	3.3	ug/kg	JNB
3386-33-2	Octadecane, 1-chloro-	12.63	2.5	ug/kg	JN
95-63-6	Benzene, 1,2,4-trimethyl-	12.96	3.3	ug/kg	JN
	Total TIC, Volatile		75	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL8-8(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-16	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37155.D	1	02/19/14	KR	02/15/14	OP36855	MSR1370
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	73	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	21.0	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	20.1	120	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	20.0	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	22.9	120	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL8-8(0.5-1.5)-021214	Date Sampled:	02/12/14
Lab Sample ID:	MC28270-16	Date Received:	02/13/14
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	31.5	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	15	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	16.9	120	16	ug/kg	J
129-00-0	Pyrene	29.0	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		30-130%
4165-62-2	Phenol-d5	61%		30-130%
118-79-6	2,4,6-Tribromophenol	82%		30-130%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-16	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.5
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
112-62-9	9-Octadecenoic acid (Z)-, methyl e	8.88	460	ug/kg	JN
7683-64-9	Squalene	11.62	270	ug/kg	JN
112-95-8	Eicosane	12.24	550	ug/kg	JN
630-02-4	Octacosane	12.63	410	ug/kg	JN
	Total TIC, Semi-Volatile		1690	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214	Date Sampled: 02/12/14
Lab Sample ID: MC28270-16	Date Received: 02/13/14
Matrix: SO - Soil	Percent Solids: 84.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	8.7	0.94	0.20	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	86.4	4.7	0.068	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.60	0.38	0.022	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.085 B	0.38	0.040	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	6080	470	5.9	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	17.3	0.94	0.089	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	8.4	4.7	0.044	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	17.4	2.3	0.52	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	19000	9.4	0.82	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	17.0	0.94	0.16	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	5250	470	4.8	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	526	1.4	0.038	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.046	0.036	0.0080	mg/kg	1	02/24/14	02/25/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	18.8	3.8	0.041	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	872	470	8.0	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3770	470	3.1	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.94	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	28.6	0.94	0.12	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	42.0	1.9	0.15	mg/kg	1	02/18/14	02/18/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16755
- (2) Instrument QC Batch: MA16779
- (3) Prep QC Batch: MP22505
- (4) Prep QC Batch: MP22550

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214 Lab Sample ID: MC28270-16 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 84.5
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4.46
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.5		%	1	02/17/14	CF	SM21 2540 B MOD.
pH	8.7		su	1	02/17/14	CF	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214 Lab Sample ID: MC28270-16A Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 84.5
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Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Barium	0.74	D005	100	0.50	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0010 B	D006	1.0	0.0040	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.011 B			0.050	0.00040	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Iron	0.043 B			0.10	0.020	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Manganese	3.1			0.015	0.00081	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/25/14	02/25/14	SA SW846 7470A ¹
Nickel	0.016 B			0.040	0.00057	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0088 B	D010	1.0	0.025	0.0048	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²
Zinc	0.027 B			0.10	0.00050	mg/l	1	02/25/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16782
- (2) Instrument QC Batch: MA16788
- (3) Prep QC Batch: MP22551
- (4) Prep QC Batch: MP22555

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.47
4

Report of Analysis

Client Sample ID: AL8-8(0.5-1.5)-021214 Lab Sample ID: MC28270-16B Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/12/14 Date Received: 02/13/14 Percent Solids: 84.5
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Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.14		0.010	0.0029	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Barium	1.5		0.50	0.00081	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Beryllium	0.012		0.0040	0.00025	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Cadmium	0.0015 B		0.0040	0.00050	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Chromium	0.27		0.010	0.0014	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Cobalt	0.10		0.050	0.00040	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Copper	0.31		0.025	0.0070	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Iron	321		0.10	0.020	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Lead	0.46		0.010	0.0017	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Manganese	4.0		0.015	0.00081	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Mercury	0.00090		0.00020	0.00010	mg/l	1	02/24/14	02/25/14 SA	SW846 7470A ¹
Nickel	0.34		0.040	0.00057	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²
Zinc	0.81		0.10	0.00050	mg/l	1	02/24/14	02/25/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16777
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22548
- (4) Prep QC Batch: MP22549

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.48
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28270

Client / Reporting Information			Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name: Weston			Project Name: DDOT-042										<div style="display: flex; flex-direction: column;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SVOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMP/SPL P Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</div> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address: 750 R Bunker Ct. Suite 500			Street: IL 72																				
City State Zip: Vernon Hills, IL 60061			City: Hampshire, IL																				
Project Contact: S. Babusukumar			Billing Information (If different from Report to)																				
Project Contact E-mail: S. Babusukumar			Company Name:										Street Address:										Matrix Codes
Phone #: 847-918-4018			Client POE:										City State Zip:										LAB USE ONLY
Sample(s) Name(s): D. Cukierski			Project Manager:										Attention:										LAB USE ONLY
Phone #:			PO#:																				
Accutest Sample #	Field ID / Point of Collection	MECH/ID / Val #	Collection				Number of preserved Bottles																
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NH ₄	H ₂ O ₂	H ₂ O ₂ X	NONE	DI Water	MEDH	ENCORE	Brubaker							
- 1	AL2-7 (0.5-1.5)-021214		2/12/14	0815	DC	S	3											X	X	X	X	X	
2	AL2-7 (0.5-1.5)-021214D		2/12/14	0815	DC	S	3											X	X	X	X	X	
3	AL2-8 (0.5-1.5)-021214		2/12/14	0830	DC	S	3											X	X	X	X	X	
4	AL2-9 (0.5-1.5)-021214		2/12/14	0840	DC	S	3											X	X	X	X	X	
5	RE6-1 (0.5-1.5)-021214		2/12/14	0850	DC	S	3											X	X	X	X	X	
6	AL2-10 (0.5-1.5)-021214		2/12/14	0900	DC	S	3											X	X	X	X	X	
7	AL2-11 (0.5-1.5)-021214		2/12/14	0915	DC	S	3											X	X	X	X	X	
8	F571 (0.5-1.5)-021214		2/12/14	0925	DC	S	3											X	X	X	X	X	
9	AL8-1 (0.5-1.5)-021214		2/12/14	0945	DC	S	3											X	X	X	X	X	11E
10	AL8-2 (0.5-1.5)-021214		2/12/14	0955	DC	S	3											X	X	X	X	X	
11	AL8-3 (0.5-1.5)-021214		2/12/14	1010	DC	S	3											X	X	X	X	X	
12	AL8-4 (0.5-1.5)-021214		2/12/14	1020	DC	S	3											X	X	X	X	X	
			Data Deliverable Information										Comments / Special Instructions										
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink			Approved By (Accutest PM) / Date: _____ <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary										<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____										
			Sample Custody must be documented below each time samples change possession, including courier delivery.										CHICAGO SC										
Relinquished by Sampler: 1 [Signature]	Date Time: 2/12/14 1200	Received By: [Signature]	Relinquished By: [Signature]	Date Time: 2-13-14	Received By: [Signature]	Custody Seal #	Intact	Preserved where applicable	On Ice	Cooler Temp. 92°													
Relinquished by Sampler: 3 3043 7004 2053	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Custody Seal #	Intact	Preserved where applicable	On Ice	Cooler Temp.													
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact	Preserved where applicable	On Ice	Cooler Temp.																

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28270

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes							
Company Name Weston		Project Name IDOT-042				VOCs SVOCs Total Metals TEUP/SPLP Metals pH DW - Drinking Water GW - Ground Water WW - Waster SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank												LAB USE ONLY							
Street Address 750 R. Bunker G. Suite 500		Street IL 72																							
City State Zip Vernon Hills, IL 60061		Billing Information (if different from Report to)																							
Project Contact S. Babusubraman		Company Name																							
E-mail		Street Address																							
Phone # 847-918-4018		City State Zip																							
Sampler(s) Name(s) D. Cukiesti		Project Manager																							
		Attention: PC#																							
Accutest Sample #	Field ID / Point of Collection	MECH/ID/Vial #	Collection			Matrix	# of bottles	Number of preserved bottles																	
			Date	Time	Sampled by			PC	MESH	PHSD	PCSDA	NONE	DI Water	MESH	ENCORE	Bottle									
-13	AL8-5 (0.5-1.5)-021214		2/12/14	1030	DC S 3													X	X	X	X	X	X		
-14	AL8-6 (0.5-1.5)-021214		2/12/14	1040	DC S 3													X	X	X	X	X	X		
-15	AL8-7 (0.5-1.5)-021214		2/12/14	1050	DC S 3													X	X	X	X	X	X		
-16	AL8-8 (0.5-1.5)-021214		2/12/14	1100	DC S 3													X	X	X	X	X	X		

Data Deliverable Information		Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>	Approved By (Accutest PM): / Date: _____		
<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____			
Commercial "A" = Results Only Commercial "B" = Results + QC Summary			

Sample Custody must be documented below each time samples change possession, including courier delivery.

1		2		3		4		5	
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:
<i>D. Cukiesti</i>	2/12/14 12:00	<i>S. Babusubraman</i>	2/12/14 12:00	<i>[Signature]</i>	2-13-14	<i>[Signature]</i>	2-13-14		
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:		
Relinquished by:	Date Time:	Received By:	Date Time:	Custody Seal #	<input type="checkbox"/> Intact Preserved where applicable	<input type="checkbox"/> Not intact	<input type="checkbox"/> On Ice	<input type="checkbox"/> Cooler Temp.	<input checked="" type="checkbox"/> 0.2

MC28270: Chain of Custody

Page 2 of 3



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification
by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation
LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available:

Physical Site Location (address, including number and street): 48W 868 to 48W 930 IL 72 and 15N 481 to 15N 599 Walker Road

City: Hampshire State: IL Zip Code:

County: Kane Township:

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088226940 Longitude: -88.568577203
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: BOW: BOA:

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box:
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

Name: Illinois Department of Transportation
Street Address: 201 West Center Court
PO Box:
City: Schaumburg State: IL
Zip Code: 60196-1096 Phone: 847-705-4101
Contact: Sam Mead
Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088226940 Longitude: -88.568577203

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION RE10-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-10. SEE FIGURE 3-2 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14

Date:



Summary Table of ISGS Site No. 2780-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	RE10-1(0-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	
Location ID	RE10-1	
Depth	0 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.8	<6.25,>9.0
VOCs (ug/kg)		
Benzene	1.6	30
Ethylbenzene	0.76 J	13000
Toluene	2.8 J	12000
Xylene (Total)	1.6 J	5600
SVOCs (ug/kg)		
Acenaphthylene	31.5 J	85000
Anthracene	27.9 J	1.20E+07
Benzo(a)anthracene	151	900 / 1100 / 1800
Benzo(a)pyrene	151	90 / 1300 / 2100
Benzo(b)fluoranthene	150	900 / 1500 / 2100
Benzo(g,h,i)perylene	97.7 J	2300000
Benzo(k)fluoranthene	131	9000
bis(2-Ethylhexyl)phthalate	107 J	46000
Chrysene	160	88000
Dibenzo(a,h)anthracene	29.7 J	90 / 200 / 420
Fluoranthene	256	3100000
Indeno(1,2,3-cd)pyrene	87.4 J	900 / 900 / 1600
Phenanthrene	75.2 J	210000
Pyrene	227	2300000
Total Metals (mg/kg)		
Aluminum, Total	2710	---
Antimony, Total	0.28 J	5
Arsenic, Total	7.4	11.3 / 13
Barium, Total	35.5	1500
Beryllium, Total	0.21 J	22
Calcium, Total	99000	---
Chromium, Total	8.9	21
Cobalt, Total	3 J	20
Copper, Total	15.7	2900
Iron, Total	11300	15000 / 15900
Lead, Total	140	107
Magnesium, Total	62700	325000
Manganese, Total	318	630 / 636
Nickel, Total	8.9	100
Potassium, Total	559	---
Sodium, Total	1870	---
Strontium, Total	33.9	---
Thallium, Total	0.35 J	2.6
Vanadium, Total	11.7	550
Zinc, Total	52.6	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.53	2
Cadmium, TCLP	0.0017 J	0.005
Cobalt, TCLP	0.0026 J	1
Lead, TCLP	0.0065 J	0.0075
Manganese, TCLP	1.7	0.15
Nickel, TCLP	0.015 J	0.1
Selenium, TCLP	0.0063 J	0.05
Silver, TCLP	0.0012 J	0.05
Zinc, TCLP	0.079 J	5

Summary Table of ISGS Site No. 2780-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	RE10-1(0-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	
Location ID	RE10-1	
Depth	0 - 1.5	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.015	0.05
Barium, SPLP	0.21 J	2
Beryllium, SPLP	0.0009 J	0.004
Cadmium, SPLP	0.0006 J	0.005
Chromium, SPLP	0.032	0.1
Copper, SPLP	0.026	0.65
Iron, SPLP	24.7	5
Lead, SPLP	0.12	0.0075
Manganese, SPLP	0.47	0.15
Nickel, SPLP	0.022 J	0.1
Zinc, SPLP	0.14	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242

Sampling Date: 02/10/14

Report to:

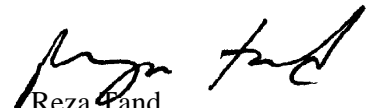
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **305**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-17	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63226.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.48 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.7	3.4	ug/kg	
71-43-2	Benzene	1.6	0.44	0.22	ug/kg	
75-27-4	Bromodichloromethane	ND	1.7	0.32	ug/kg	
75-25-2	Bromoform	ND	1.7	0.25	ug/kg	
74-83-9	Bromomethane	ND	1.7	0.85	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.7	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	4.4	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.7	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	1.7	0.24	ug/kg	
75-00-3	Chloroethane	ND	4.4	0.52	ug/kg	
67-66-3	Chloroform	ND	1.7	0.25	ug/kg	
74-87-3	Chloromethane	ND	4.4	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	1.7	0.37	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.7	0.29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.7	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.7	0.45	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.39	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.7	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.25	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.25	ug/kg	
100-41-4	Ethylbenzene	0.76	1.7	0.15	ug/kg	J
591-78-6	2-Hexanone	ND	8.7	2.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.7	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.4	1.6	ug/kg	
75-09-2	Methylene chloride	ND	1.7	1.3	ug/kg	
100-42-5	Styrene	ND	4.4	0.18	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	1.7	0.39	ug/kg	
108-88-3	Toluene	2.8	4.4	0.21	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.30	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-17	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.7	0.41	ug/kg	
75-01-4	Vinyl chloride	ND	1.7	0.50	ug/kg	
1330-20-7	Xylene (total)	1.6	1.7	0.18	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
627-27-0	3-Buten-1-ol	6.49	7.6	ug/kg	JN
108-87-2	Cyclohexane, methyl-	11.17	4.6	ug/kg	JN
	Total TIC, Volatile		12.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID:	RE10-1(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-17	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37124.D	1	02/19/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	28	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	31.5	110	11	ug/kg	J
120-12-7	Anthracene	27.9	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	151	110	14	ug/kg	
50-32-8	Benzo(a)pyrene	151	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	150	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	97.7	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	131	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	160	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RE10-1(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-17	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	29.7	110	13	ug/kg	J
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	107	280	10	ug/kg	J
206-44-0	Fluoranthene	256	110	15	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	87.4	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	30	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	75.2	110	15	ug/kg	J
129-00-0	Pyrene	227	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-130%
4165-62-2	Phenol-d5	68%		30-130%
118-79-6	2,4,6-Tribromophenol	87%		30-130%
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014 Lab Sample ID: MC28242-17 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 88.5
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	3.86	230	ug/kg	JN
541-02-6	Cyclopentasiloxane, decamethyl-	4.79	230	ug/kg	JN
	Total TIC, Semi-Volatile		460	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-17	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	2710	18	3.2	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Antimony	0.28 B	0.89	0.13	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Arsenic	7.4	0.89	0.19	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Barium	35.5	4.4	0.065	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.21 B	0.36	0.021	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.038 U	0.36	0.038	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Calcium	99000	4400	56	mg/kg	10	02/13/14	02/17/14	EAL	SW846 6010C ³	SW846 3050B ⁴
Chromium	8.9	0.89	0.085	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Cobalt	3.0 B	4.4	0.042	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Copper	15.7	2.2	0.49	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Iron	11300	8.9	0.77	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Lead	140	0.89	0.15	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Magnesium	62700	440	4.6	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Manganese	318	1.3	0.036	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.0083 U	0.038	0.0083	mg/kg	1	02/14/14	02/14/14	SA	SW846 7471B ¹	SW846 7471B ⁵
Nickel	8.9	3.6	0.039	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Potassium	559	440	7.6	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Selenium	0.31 U	0.89	0.31	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Silver	0.11 U	0.44	0.11	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Sodium	1870	440	2.9	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Strontium	33.9	0.89	0.027	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Thallium	0.35 B	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Vanadium	11.7	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Zinc	52.6	1.8	0.14	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22488
- (5) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-17	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

4.49
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.5		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-17A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.53	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0017 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0026 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0065 B	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	1.7			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.015 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0063 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0012 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.079 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: RE10-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-17B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.015		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.21 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.00090 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.032		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.026		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	24.7		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.12		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.47		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.022 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.14		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.51
4

Client / Reporting Information Company Name: <u>Western</u> Street Address: <u>750 E. Bunler Ct Ste 500</u> City/State/Zip: <u>Newton Hills IL 60061</u> Project Contact: <u>S. Babushkumar</u> Phone #: <u>847-918-4018</u> Sampler(s): <u>T. Walsh</u>		Project Information Project Name: <u>IDOT-042 Hampshire</u> Billing Information (If different from Report to) Company Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____ Project Manager: _____ Attention: _____ PO#: _____		FED-EX Tracking # _____ Accutest Quote # _____ Bottle Order Control # _____ Accutest Job # <u>MC28242</u>																			
Requested Analysis (see TEST CODE sheet) VOCs <u>X</u> SDOCs <u>X</u> Total Metals <u>X</u> TCU/SLP Metals <u>X</u> PH <u>X</u>						Matrix Codes DW - Drinking Water GW - Ground Water W: - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank																	
Accutest Sample # Field ID / Point of Collection MECH/DI Vial # Collection Date Time Sampled by Matrix # of bottles HCl NePH INSD H2SO4 NONE DI Water MEDW ENCORE Bottle(s) LAB USE ONLY																							
-1	AL19-6(0-1.5)-021014		2-10-14	0910	TW	S	3										X	X	X	X	X		
-2	AL19-8(0-1.5)-021014			0910																			
-3	RE20-2(0-1.5)-021014			0945																			
-4	AL19-8(0-1.5)-021014			1005																			
-5	PE-1(0-1.5)-021014			1025																			
-6	PE-3(0-1.5)-021014			1040																			
-7	AL13-14(0-1.5)-021014			1100																			
-8	AL13-16(0-1.5)-021014			1115																			
-9	AL13-18(0-1.5)-021014			1135																		110	
-10	AL13-20(0-1.5)-021014			1155																			
-11	AL13-22(0-1.5)-021014			1215																			
-12	AL13-24(0-1.5)-021014		2-10-14	1230	TW	S	3											X	X	X	X	X	
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>						Approved By (Accutest PM): / Date: _____						Data Deliverable Information <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>						Comments / Special Instructions					
Relinquished by Sampler: <u>1 T. Walsh</u> Date Time: <u>2-11-14/1538</u> Received By: <u>[Signature]</u> Date Time: <u>2-11-14 9:41</u>						Relinquished by Sampler: <u>2 FEO</u> Date Time: <u>2-12-14</u> Received By: <u>[Signature]</u>																	
Relinquished by Sampler: <u>3</u> Date Time: _____ Received By: <u>3</u>						Relinquished by Sampler: <u>4</u> Date Time: _____ Received By: <u>4</u>																	
Relinquished by: <u>5</u> Date Time: _____ Received By: <u>5</u>						Custody Seal # _____ <input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact On Ice <input checked="" type="checkbox"/> Copier Temp: <u>10-1-08-20</u>																	

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FED-Ex Tracking #	Bole Order Control #
Accutest Quote #	Accutest Job # MC28242

Client / Reporting Information			Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes																																												
Company Name Woraton			Project Name IDOT-042 Hampshire										<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SUCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SUCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP/SPLP metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> </div>										DW - Drinking Water GW - Ground Water LW - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																												
Street Address 750 E. Banker Ct Ste 500			Billing Information (If different from Report to)																																																																
City State Zip Nevan Hills IL 60061			Company Name																																																																
Project Contact S. Babusikumar			Street Address																																																																
Phone # 847-918-4018			City State Zip																																																																
Fax #			Client PO#																																																																
Sampler(s) Name(s) T. Walls			Project Manager Matt Maxwell																																																																
Phone #			Attention: PO#																																																																
MECHDI Val #			Date																																																																
Time			Sampled by																																																																
Matrix			# of bottles																																																																
Number of preserved bottles			<input type="checkbox"/> HCl <input type="checkbox"/> NH ₄ OH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NONE <input type="checkbox"/> ID Water <input type="checkbox"/> MECH <input type="checkbox"/> ENROUTE <input type="checkbox"/> Blank																																																																
Account Service #	Field ID / Point of Collection	MECHDI Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH ₄ OH	HNO ₃	H ₂ SO ₄	NONE	ID Water	MECH	ENROUTE	Blank	LAB USE ONLY																																																		
-13	AL13-26(0-1.5)-021014		2-10-14	1250	rw	S	3										X	X	X	X	X																																														
-14	AL13-21(0-1.5)-021014			1250																																																															
-15	RE10-2(0-1.5)-021014			1310																																																															
-16	RE10-4(0-1.5)-021014			1330																																																															
-17	RE10-1(0-1.5)-021014			1415																																																															
-18	AL8-10(0-1.5)-021014			1430																																																															
-19	AL13-1(0-1.5)-021014			1445																																																															
-20	AL13-3(0-1.5)-021014			1520																																																															
-21	AL13-5(0-1.5)-021014			1525																																																															
-22	AL13-7(0-1.5)-021014		2-10-14	1540																																																															
-23	VL15-1(0-1.5)-021114		2-11-14	0825	rw	S	3																																																												
-24	AL13-10(0-1.5)-021114		2-11-14	0835	rw	S	3																																																												
<table border="1"> <tr> <td colspan="3">Turnaround Time (Business days)</td> <td colspan="3">Approved By (Accutest PM): / Date:</td> <td colspan="6">Data Deliverable Information</td> <td colspan="6">Comments / Special Instructions</td> </tr> <tr> <td colspan="3"> <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small> </td> <td colspan="3"></td> <td colspan="6"> <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary </td> <td colspan="6"> <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____ </td> </tr> </table>																	Turnaround Time (Business days)			Approved By (Accutest PM): / Date:			Data Deliverable Information						Comments / Special Instructions						<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>						<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary						<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____																				
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5.1
5

Client / Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table with fields for Date, Time, Sampled by, Matrix, # of bottles, and various chemical analysis parameters (VOCs, SVOCs, etc.). Includes turn-around time options and sample custody documentation.

5.1 5

MC28242: Chain of Custody

Page 3 of 4



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 800 block of IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088315800 Longitude: -88.565479359
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088315800 Longitude: -88.565479359

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION VL12-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-12. SEE FIGURE 3-3 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28243

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

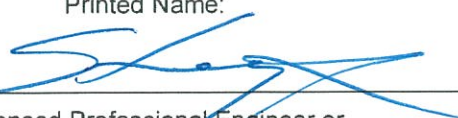
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14
 Date:



Summary Table of ISGS Site No. 2780-12
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	VL12-1(0.5-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	
Location ID	VL12-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH (s.u.)	8	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	32.2 J	900 / 1100 / 1800
Benzo(a)pyrene	35.9 J	90 / 1300 / 2100
Chrysene	45 J	88000
Fluoranthene	49.2 J	3100000
Pyrene	61.1 J	2300000
Total Metals (mg/kg)		
Aluminum, Total	8990 J	---
Antimony, Total	0.2 J	5
Arsenic, Total	5.3	11.3 / 13
Barium, Total	120 J	1500
Beryllium, Total	0.53 J	22
Cadmium, Total	0.13 J	5.2
Calcium, Total	10800 J	---
Chromium, Total	12.8 J	21
Cobalt, Total	7.9 J	20
Copper, Total	11.7	2900
Iron, Total	12100 J	15000 / 15900
Lead, Total	38.3 J	107
Magnesium, Total	8280 J	325000
Manganese, Total	434 J	630 / 636
Mercury, Total	0.013 J	0.89
Nickel, Total	11.6 J	100
Potassium, Total	776 J	
Sodium, Total	3300 J	---
Strontium, Total	12.3 J	---
Thallium, Total	0.13 J	2.6
Vanadium, Total	24.6 J	550
Zinc, Total	40.2 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	0.0096 J	0.05
Barium, TCLP	0.99	2
Beryllium, TCLP	0.0003 J	0.004
Cadmium, TCLP	0.0022 J	0.005
Cobalt, TCLP	0.073	1
Iron, TCLP	3.4	5
Lead, TCLP	0.026	0.0075
Manganese, TCLP	13.5	0.15
Nickel, TCLP	0.026 J	0.1
Zinc, TCLP	0.11	5

Summary Table of ISGS Site No. 2780-12
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	VL12-1(0.5-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	
Location ID	VL12-1	
Depth	0.5 - 1.5	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.02	0.05
Barium, SPLP	0.46 J	2
Beryllium, SPLP	0.0013 J	0.004
Cadmium, SPLP	0.0009 J	0.005
Chromium, SPLP	0.046	0.1
Cobalt, SPLP	0.019 J	1
Copper, SPLP	0.038	0.65
Iron, SPLP	46.9	5
Lead, SPLP	0.044	0.0075
Manganese, SPLP	0.92	0.15
Nickel, SPLP	0.032 J	0.1
Silver, SPLP	0.0017 J	0.05
Zinc, SPLP	0.14 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28243

Sampling Date: 02/10/14

Report to:

Weston Solutions, Inc.

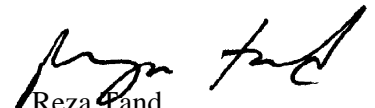
Andris.Slesers@WestonSolutions.com

ATTN: Andris Slesers

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63258.D	1	02/18/14	KD	n/a	n/a	MSM2218
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.32 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	5.4	ug/kg	
71-43-2	Benzene	ND	0.70	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.51	ug/kg	
75-25-2	Bromoform	ND	2.8	0.41	ug/kg	
74-83-9	Bromomethane	ND	2.8	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.3	ug/kg	
75-15-0	Carbon disulfide	ND	7.0	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.38	ug/kg	
75-00-3	Chloroethane	ND	7.0	0.84	ug/kg	
67-66-3	Chloroform	ND	2.8	0.40	ug/kg	
74-87-3	Chloromethane	ND	7.0	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.59	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.76	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	0.73	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.71	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.59	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.40	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.41	ug/kg	
100-41-4	Ethylbenzene	ND	2.8	0.25	ug/kg	
591-78-6	2-Hexanone	ND	14	3.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.55	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.0	2.6	ug/kg	
75-09-2	Methylene chloride	ND	2.8	2.2	ug/kg	
100-42-5	Styrene	ND	7.0	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.41	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.62	ug/kg	
108-88-3	Toluene	ND	7.0	0.34	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.48	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.8	0.66	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.80	ug/kg	
1330-20-7	Xylene (total)	ND	2.8	0.29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID:	VL12-1(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-14	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	82.8
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17744.D	1	02/19/14	KR	02/14/14	OP36843	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	560	25	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	180	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2300	280	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1100	140	ug/kg	
95-48-7	2-Methylphenol	ND	1100	45	ug/kg	
106-44-5	4-Methylphenol	ND	1100	58	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	30	ug/kg	
100-02-7	4-Nitrophenol	ND	2300	210	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	79	ug/kg	
108-95-2	Phenol	ND	560	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	28	ug/kg	
83-32-9	Acenaphthene	ND	230	30	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	27	ug/kg	
56-55-3	Benzo(a)anthracene	32.2	230	29	ug/kg	J
50-32-8	Benzo(a)pyrene	35.9	230	24	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	230	28	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	34	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	560	29	ug/kg	
85-68-7	Butyl benzyl phthalate	38.9	560	23	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	560	31	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	28	ug/kg	
86-74-8	Carbazole	ND	230	27	ug/kg	
218-01-9	Chrysene	45.0	230	28	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	560	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	560	34	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	560	41	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	560	35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VL12-1(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-14	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	82.8
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	560	29	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	560	32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	560	30	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1100	75	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1100	28	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	560	56	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	27	ug/kg	
132-64-9	Dibenzofuran	ND	230	31	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	560	60	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	560	18	ug/kg	
84-66-2	Diethyl phthalate	ND	560	28	ug/kg	
131-11-3	Dimethyl phthalate	ND	560	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	560	21	ug/kg	
206-44-0	Fluoranthene	49.2	230	31	ug/kg	J
86-73-7	Fluorene	ND	230	30	ug/kg	
118-74-1	Hexachlorobenzene	ND	560	35	ug/kg	
87-68-3	Hexachlorobutadiene	ND	560	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	280	ug/kg	
67-72-1	Hexachloroethane	ND	560	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	25	ug/kg	
78-59-1	Isophorone	ND	560	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	29	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	28	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	62	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	28	ug/kg	
91-20-3	Naphthalene	ND	230	36	ug/kg	
98-95-3	Nitrobenzene	ND	560	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	560	32	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	560	34	ug/kg	
85-01-8	Phenanthrene	ND	230	31	ug/kg	
129-00-0	Pyrene	61.1	230	26	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	560	31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		30-130%
4165-62-2	Phenol-d5	76%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	8990	19	3.4	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Antimony	0.20 B	0.95	0.14	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.3	0.95	0.20	mg/kg	1	02/13/14	02/17/14	EAL	SW846 6010C ³	SW846 3050B ⁴
Barium	120	4.8	0.069	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.53	0.38	0.023	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.13 B	0.38	0.040	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Calcium	10800	480	6.0	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Chromium	12.8	0.95	0.090	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Cobalt	7.9	4.8	0.045	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Copper	11.7	2.4	0.53	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Iron	12100	9.5	0.83	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Lead	38.3	0.95	0.16	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Magnesium	8280	480	4.9	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Manganese	434	1.4	0.038	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.013 B	0.038	0.0084	mg/kg	1	02/14/14	02/14/14	SA	SW846 7471B ¹	SW846 7471B ⁵
Nickel	11.6	3.8	0.042	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Potassium	776	480	8.1	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.48	0.12	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Sodium	3300	480	3.1	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Strontium	12.3	0.95	0.028	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Thallium	0.13 B	0.95	0.13	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Vanadium	24.6	0.95	0.13	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Zinc	40.2	1.9	0.15	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16737
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22489
- (5) Prep QC Batch: MP22491

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.8		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.0		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0096 B	D004	5.0	0.010	0.0029	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Barium	0.99	D005	100	0.50	0.00081	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Beryllium	0.00030 B			0.0040	0.00025	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Cadmium	0.0022 B	D006	1.0	0.0040	0.00050	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Cobalt	0.073			0.050	0.00040	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Iron	3.4			0.10	0.020	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Lead	0.026	D008	5.0	0.010	0.0017	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Manganese	13.5			0.015	0.00081	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/17/14	02/18/14	SA SW846 7470A ¹
Nickel	0.026 B			0.040	0.00057	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Selenium	0.0048 U	D010	1.0	0.025	0.0048	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Zinc	0.11			0.10	0.00050	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16745
- (2) Instrument QC Batch: MA16750
- (3) Prep QC Batch: MP22498
- (4) Prep QC Batch: MP22501

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: VL12-1(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-14B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.020		0.010	0.0029	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Barium	0.46 B		0.50	0.00081	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Beryllium	0.0013 B		0.0040	0.00025	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Cadmium	0.00090 B		0.0040	0.00050	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Chromium	0.046		0.010	0.0014	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Cobalt	0.019 B		0.050	0.00040	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Copper	0.038		0.025	0.0070	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Iron	46.9		0.10	0.020	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Lead	0.044		0.010	0.0017	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Manganese	0.92		0.015	0.00081	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/17/14	02/18/14 SA	SW846 7470A ¹
Nickel	0.032 B		0.040	0.00057	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Silver	0.0017 B		0.0050	0.0010	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Zinc	0.14		0.10	0.00050	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16746
- (2) Instrument QC Batch: MA16750
- (3) Prep QC Batch: MP22497
- (4) Prep QC Batch: MP22502

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 100 to 48W 800 blocks of IL 72 (between Walker Road and French Road)

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088255516 Longitude: -88.554060647
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088255516 Longitude: -88.554060647

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS AL13-1, AL13-2, AL13-5, AL13-7, AL13-8, AL3-10, AL13-11, AL13-12, AL13-15 THROUGH AL13-20, AL13-22, AL13-23, AL13-24, AND AL13-26 WERE SAMPLED ADJACENT TO ISGS SITE No. 2780-13. SEE FIGURES 3-3 AND 3-4 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242, MC28242A, MC28243, MC28243A, and MC28244

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

6/2/14

Date:



Seal:

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-1(0-1.5)-021014	AL13-2(0.5-1.5)-021014	AL13-5(0-1.5)-021014	AL13-7(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-1	AL13-2	AL13-5	AL13-7	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.8	8.7	8.5	8.2	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	22.8	ND	ND	25000
Benzene	1.7	0.97	2.3 J	1.4	30
Ethylbenzene	0.79 J	ND	0.86 J	0.4 J	13000
Methylene chloride	ND	ND	ND	ND	20
Toluene	2.9 J	0.99 J	3 J	1.8 J	12000
Xylene (Total)	1.6 J	0.48 J	1.7 J	1.2 J	5600
SVOCs (ug/kg)					
2-Methylnaphthalene	34.9 J	ND	ND	ND	---
Anthracene	21.4 J	ND	ND	ND	1.20E+07
Benzo(a)anthracene	91.5 J	ND	53.6 J	94.4 J	900 / 1100 / 1800
Benzo(a)pyrene	82.2 J	ND	57 J	98.1 J	90 / 1300 / 2100
Benzo(b)fluoranthene	84.1 J	ND	48.9 J	104 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	54.5 J	ND	74.9 J	88.6 J	2300000
Benzo(k)fluoranthene	69.5 J	ND	59.4 J	79.9 J	9000
bis(2-Ethylhexyl)phthalate	14.2 J	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	115	ND	55.5 J	110 J	88000
Dibenzo(a,h)anthracene	14.8 J	ND	ND	ND	90 / 200 / 420
Fluoranthene	179	ND	76.9 J	203 J	3100000
Indeno(1,2,3-cd)pyrene	39.9 J	ND	50.9 J	73.1 J	900 / 900 / 1600
Naphthalene, SVOC	19.7 J	ND	ND	ND	1800
Phenanthrene	119	ND	ND	78.6 J	210000
Pyrene	178	ND	69.8 J	172 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	8720	6430 J	na	na	---
Antimony, Total	ND	ND	0.52 J	ND	5
Arsenic, Total	7.3	6	3.9	6.6	11.3 / 13
Barium, Total	88.3	105 J	28.2	84.7	1500
Beryllium, Total	0.48	0.41 J	0.28 J	0.46	22
Cadmium, Total	0.14 J	ND	ND	0.082 J	5.2
Calcium, Total	28700	25600 J	108000	24400	---
Chromium, Total	16.5	10 J	22.8 J	12.7 J	21
Cobalt, Total	6.7	5.1 J	3.6 J	5.6	20
Copper, Total	11.5	9	17.9	12.2	2900
Iron, Total	13400	10400 J	11200 J	15400 J	15000 / 15900
Lead, Total	46.7	10.2 J	39.6 J	43.7 J	107
Magnesium, Total	20500	14800 J	70900	16900	325000
Manganese, Total	538	474 J	242 J	421 J	630 / 636
Mercury, Total	ND	ND	0.014 J	0.028 J	0.89
Nickel, Total	11.4	9.6 J	12.3 J	11.4 J	100
Potassium, Total	772	603 J	632	804	
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	3510	3170 J	3570	3670	---
Strontium, Total	18.9	19.4 J	na	na	---
Thallium, Total	0.23 J	0.31 J	0.13 J	ND	2.6
Vanadium, Total	23.9	21.1 J	18.2 J	26.2 J	550
Zinc, Total	41.3	31.2 J	39.9 J	40.6 J	5100

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-1(0-1.5)-021014	AL13-2(0.5-1.5)-021014	AL13-5(0-1.5)-021014	AL13-7(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-1	AL13-2	AL13-5	AL13-7	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	0.003 J	ND	0.0066 J	0.05
Barium, TCLP	0.86	0.91	0.55	1.1	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0021 J	0.0007 J	0.0011 J	0.0016 J	0.005
Chromium, TCLP	0.0017 J	ND	ND	ND	0.1
Cobalt, TCLP	0.0023 J	0.0005 J	0.027 J	0.034 J	1
Copper, TCLP	ND	ND	0.0078 J	0.011 J	0.65
Iron, TCLP	ND	ND	0.25	0.14	5
Lead, TCLP	0.0055 J	ND	ND	0.0073 J	0.0075
Manganese, TCLP	3.1	1.3	2.9	8.6	0.15
Nickel, TCLP	0.015 J	0.0067 J	0.024 J	0.021 J	0.1
Selenium, TCLP	ND	ND	0.0077 J	0.0071 J	0.05
Silver, TCLP	0.0011 J	ND	ND	ND	0.05
Zinc, TCLP	0.087 J	0.036 J	0.078 J	0.081 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.026	0.024	0.027	0.016	0.05
Barium, SPLP	0.42 J	0.64	0.57	0.47 J	2
Beryllium, SPLP	0.0017 J	0.0015 J	0.0029 J	0.0003 J	0.004
Cadmium, SPLP	0.0009 J	0.0012 J	0.0019 J	0.0005 J	0.005
Chromium, SPLP	0.061	0.048	0.086	0.016	0.1
Cobalt, SPLP	0.001 J	0.013 J	0.019 J	0.0035 J	1
Copper, SPLP	0.04	0.031	0.063	0.02 J	0.65
Iron, SPLP	48.9	47.3	80.5 J	11.3	5
Lead, SPLP	0.18	0.031	0.19	0.03	0.0075
Manganese, SPLP	0.81	0.89	0.95	0.15	0.15
Mercury, SPLP	ND	ND	0.00011 J	ND	0.002
Nickel, SPLP	0.04	0.033 J	0.063	0.011 J	0.1
Selenium, SPLP	0.0057 J	ND	ND	ND	0.05
Silver, SPLP	0.001 J	0.0018 J	ND	ND	0.05
Zinc, SPLP	0.2	0.19 J	0.37	0.06 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-8(0.5-1.5)-021014	AL13-10(0-1.5)-021114	AL13-11(0.5-1.5)-021114	AL13-12(0-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/10/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL13-8	AL13-10	AL13-11	AL13-12	
Depth	0.5 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.7	8.8	8.9	8.6	<6.25,>9.0
VOCs (ug/kg)					
Acetone	44.9	ND	ND	ND	25000
Benzene	1.7	0.79	1.8	1.2	30
Ethylbenzene	0.56 J	ND	0.36 J	0.48 J	13000
Methylene chloride	ND	ND	2.6	ND	20
Toluene	2.7 J	0.99 J	1.7 J	1.8 J	12000
Xylene (Total)	1.7 J	0.48 J	0.93 J	1.3 J	5600
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	ND	ND	ND	---
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	ND	43.5 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	42.8 J	90 / 1300 / 2100
Benzo(b)fluoranthene	15.3 J	ND	ND	43.8 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	47.8 J	2300000
Benzo(k)fluoranthene	ND	ND	ND	36.6 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	16.6 J	ND	ND	48.9 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	25.3 J	ND	ND	65.1 J	3100000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	32 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	1800
Phenanthrene	ND	ND	ND	32 J	210000
Pyrene	23.1 J	ND	ND	68.9 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	9840	na	1830	na	---
Antimony, Total	ND	ND	ND	ND	5
Arsenic, Total	7.3	4	2.2	3.8	11.3 / 13
Barium, Total	86.1	19	10.1	60.7	1500
Beryllium, Total	0.55	0.25 J	0.11 J	0.33 J	22
Cadmium, Total	0.16 J	ND	ND	ND	5.2
Calcium, Total	9010	85200	115000	86400 J	---
Chromium, Total	14.1 J	8.4 J	5 J	9.6 J	21
Cobalt, Total	6.5 J	3.1 J	1.6 J	3.4 J	20
Copper, Total	15.7	10.5	7.9	10.3	2900
Iron, Total	16400 J	8210 J	6320 J	9880 J	15000 / 15900
Lead, Total	20.7 J	17.8 J	3.3 J	36.3 J	107
Magnesium, Total	6830	51000	66800	53700 J	325000
Manganese, Total	262 J	202 J	236 J	332 J	630 / 636
Mercury, Total	0.031 J	0.0098 J	ND	0.024 J	0.89
Nickel, Total	18.9	9 J	8.2 J	7.9 J	100
Potassium, Total	872	670	453	764	
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	2750	2720	2040	2960	---
Strontium, Total	9.9	na	36.3 J	na	---
Thallium, Total	0.14 J	ND	0.12 J	ND	2.6
Vanadium, Total	22.9	21.6 J	21.3	15.8 J	550
Zinc, Total	44.2 J	24.3 J	12.8 J	36.8 J	5100

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-8(0.5-1.5)-021014	AL13-10(0-1.5)-021114	AL13-11(0.5-1.5)-021114	AL13-12(0-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL13-8	AL13-10	AL13-11	AL13-12	
Depth	0.5 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	0.0029 J	ND	ND	ND	0.05
Barium, TCLP	0.94	0.32 J	0.25 J	0.64	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0022 J	ND	ND	0.0009 J	0.005
Chromium, TCLP	ND	ND	0.0018 J	ND	0.1
Cobalt, TCLP	0.033 J	0.0007 J	0.0055 J	ND	1
Copper, TCLP	0.01 J	0.011 J	0.0085 J	ND	0.65
Iron, TCLP	0.66	0.073 J	0.42	ND	5
Lead, TCLP	0.014	ND	ND	ND	0.0075
Manganese, TCLP	7.9 J	0.47	1.6	0.67 J	0.15
Nickel, TCLP	0.03 J	0.006 J	0.011 J	0.0071 J	0.1
Selenium, TCLP	0.0076 J	0.0056 J	0.0089 J	0.0061 J	0.05
Silver, TCLP	ND	ND	0.0012 J	ND	0.05
Zinc, TCLP	0.055 J	0.023 J	0.032 J	0.043 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.038	0.0097 J	ND	0.023 J	0.05
Barium, SPLP	0.71	0.63	0.049 J	0.48 J	2
Beryllium, SPLP	0.0029 J	0.0008 J	ND	0.0025 J	0.004
Cadmium, SPLP	0.0011 J	0.0006 J	ND	0.0019 J	0.005
Chromium, SPLP	0.079	0.03	ND	0.079 J	0.1
Cobalt, SPLP	0.024 J	0.0073 J	ND	0.019 J	1
Copper, SPLP	0.068	0.023 J	ND	0.058 J	0.65
Iron, SPLP	82.6 J	23.9	0.038 J	72.3 J	5
Lead, SPLP	0.099	0.012	ND	0.22 J	0.0075
Manganese, SPLP	1.1	0.34	ND	1.1 J	0.15
Mercury, SPLP	0.00015 J	ND	ND	ND	0.002
Nickel, SPLP	0.084	0.022 J	ND	0.054	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	0.0013 J	ND	ND	ND	0.05
Zinc, SPLP	0.25	0.094 J	0.01 J	0.36 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-12(0-1.5)-021114D	AL13-15(0.5-1.5)-021014	AL13-16(0-1.5)-021014	AL13-17(0.5-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-12	AL13-15	AL13-16	AL13-17	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.6	8.4	8.3	8	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	ND	30.9	41.2	25000
Benzene	1.3	1.5	1.2	ND	30
Ethylbenzene	0.42 J	0.52 J	0.54 J	ND	13000
Methylene chloride	ND	ND	ND	ND	20
Toluene	1.7 J	2.3 J	2.1 J	ND	12000
Xylene (Total)	1.2 J	1.3 J	1.3 J	ND	5600
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	16.2 J	ND	ND	---
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	36.3 J	72.4 J	34.7 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	42 J	73.4 J	30 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	44 J	77.2 J	30.3 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	44.6 J	49.6 J	27.7 J	ND	2300000
Benzo(k)fluoranthene	39.2 J	68.7 J	29.9 J	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	18.1 J	ND	46000
Butyl benzyl phthalate	ND	ND	13.8 J	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	49.9 J	108 J	40.4 J	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	71.2 J	141	59.2 J	ND	3100000
Indeno(1,2,3-cd)pyrene	31.4 J	44.1 J	22.7 J	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	1800
Phenanthrene	37 J	113 J	44.4 J	ND	210000
Pyrene	66.7 J	172	55.6 J	ND	2300000
Total Metals (mg/kg)					
Aluminum, Total	na	8820 J	7540	11300 J	---
Antimony, Total	0.19 J	ND	ND	ND	5
Arsenic, Total	4.8	5.4	4.3	4.8	11.3 / 13
Barium, Total	53.1	86.6 J	52.2	82.6 J	1500
Beryllium, Total	0.32 J	0.52 J	0.39	0.64 J	22
Cadmium, Total	ND	0.25 J	ND	0.048 J	5.2
Calcium, Total	97800 J	26600 J	91700	2700 J	---
Chromium, Total	12.2 J	14 J	11.3	16.7 J	21
Cobalt, Total	3.6 J	5.7 J	4.8	6.9 J	20
Copper, Total	10.2	22.6	10.2	13.9	2900
Iron, Total	10700 J	13200 J	10400	13700 J	15000 / 15900
Lead, Total	54.4 J	63.4 J	26.6	23.3 J	107
Magnesium, Total	63200 J	17400 J	58400	3140 J	325000
Manganese, Total	415 J	406 J	279	208 J	630 / 636
Mercury, Total	0.021 J	0.013 J	0.042	0.013 J	0.89
Nickel, Total	7.9 J	13 J	9.2	13.8 J	100
Potassium, Total	774	978 J	763	1150 J	
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	2780	3360 J	3260	2170 J	---
Strontium, Total	na	19.8 J	34.8	8.8 J	---
Thallium, Total	ND	0.29 J	0.27 J	0.29 J	2.6
Vanadium, Total	18 J	22.7 J	18.7	26.2 J	550
Zinc, Total	39.2 J	53.2 J	29.8	37.2 J	5100

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-12(0-1.5)-021114D	AL13-15(0.5-1.5)-021014	AL13-16(0-1.5)-021014	AL13-17(0.5-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-12	AL13-15	AL13-16	AL13-17	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0.5 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	0.0071 J	0.0059 J	0.012	0.05
Barium, TCLP	0.56	1.1	0.93	0.64	2
Beryllium, TCLP	ND	ND	ND	0.0005 J	0.004
Cadmium, TCLP	0.001 J	0.0021 J	0.0013 J	0.0006 J	0.005
Chromium, TCLP	ND	0.0054 J	ND	0.0024 J	0.1
Cobalt, TCLP	ND	0.035 J	0.046 J	0.031 J	1
Copper, TCLP	0.0094 J	ND	ND	ND	0.65
Iron, TCLP	ND	0.29	0.44	3	5
Lead, TCLP	ND	0.011	0.0024 J	0.0097 J	0.0075
Manganese, TCLP	0.31 J	9.8	5.6	4.6	0.15
Nickel, TCLP	0.0076 J	0.021 J	0.024 J	0.02 J	0.1
Selenium, TCLP	0.0068 J	ND	0.0049 J	ND	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.048 J	0.096 J	0.047 J	0.061 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.0074 J	0.047	0.04	0.046	0.05
Barium, SPLP	0.19 J	1.2	0.79	1	2
Beryllium, SPLP	0.0003 J	0.003 J	0.0023 J	0.0033 J	0.004
Cadmium, SPLP	0.0005 J	0.0019 J	0.0008 J	0.0015 J	0.005
Chromium, SPLP	0.02 J	0.086	0.079	0.1	0.1
Cobalt, SPLP	0.0029 J	0.032 J	0.0056 J	0.035 J	1
Copper, SPLP	0.015 J	0.086	0.055	0.085	0.65
Iron, SPLP	11.5 J	90.7	63.2	88.1	5
Lead, SPLP	0.041 J	0.42	0.085	0.087	0.0075
Manganese, SPLP	0.22 J	1.3	0.68	1	0.15
Mercury, SPLP	ND	0.00011 J	ND	0.00012 J	0.002
Nickel, SPLP	0.0099 J	0.077	0.057	0.079	0.1
Selenium, SPLP	ND	ND	0.0063 J	ND	0.05
Silver, SPLP	ND	0.0026 J	ND	0.0028 J	0.05
Zinc, SPLP	0.074 J	0.37 J	0.2	0.3 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-18(0-1.5)-021014	AL13-19(0.5-1.5)-021014	AL13-20(0-1.5)-021014	AL13-22(0-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-18	AL13-19	AL13-20	AL13-22	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.6	9	8.3	8.4	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	ND	ND	ND	25000
Benzene	0.95	3.5	2	1.5	30
Ethylbenzene	0.52 J	1.8 J	0.63 J	ND	13000
Methylene chloride	ND	ND	ND	ND	20
Toluene	1.4 J	6	2.8 J	1.6 J	12000
Xylene (Total)	0.64 J	3.5	1.5 J	0.91 J	5600
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	ND	ND	ND	---
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	38.1 J	34.3 J	55.6 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	35.4 J	43.2 J	64.9 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	41.1 J	49.9 J	74.9 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	28.5 J	28.2 J	60 J	ND	2300000
Benzo(k)fluoranthene	26.8 J	24.6 J	48.2 J	ND	9000
bis(2-Ethylhexyl)phthalate	21.9 J	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	ND	ND	ND	ND	600
Chrysene	47.5 J	49.7 J	72.5 J	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	68.1 J	58.8 J	125	ND	3100000
Indeno(1,2,3-cd)pyrene	20.5 J	23.8 J	47.4 J	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	1800
Phenanthrene	39.3 J	42.6 J	71.3 J	ND	210000
Pyrene	63.7 J	73.6 J	113	ND	2300000
Total Metals (mg/kg)					
Aluminum, Total	6630	9860 J	9440	1910	---
Antimony, Total	0.21 J	ND	0.13 J	ND	5
Arsenic, Total	4.3	5.4	6	2.6	11.3 / 13
Barium, Total	59.6	63.3 J	87.6	13	1500
Beryllium, Total	0.36 J	0.58 J	0.51	0.12 J	22
Cadmium, Total	ND	0.064 J	0.08 J	ND	5.2
Calcium, Total	101000	35900 J	19100	145000	---
Chromium, Total	10.6	17.3 J	13.5	4.7	21
Cobalt, Total	5.7	6.8 J	6.7	1.9 J	20
Copper, Total	9.4	17	12.2	6	2900
Iron, Total	9460	14900 J	13700	5420	15000 / 15900
Lead, Total	47.4	35.7 J	17.1	4.9	107
Magnesium, Total	64100	25900 J	13800	89000	325000
Manganese, Total	541	380 J	491	203	630 / 636
Mercury, Total	ND	ND	0.18	0.02 J	0.89
Nickel, Total	8.8	19.7 J	12.7	8.4	100
Potassium, Total	830	1340 J	950	525	
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	2770	2290 J	3430	1870	---
Strontium, Total	38.7	21.4 J	15.9	45	---
Thallium, Total	0.16 J	0.3 J	0.19 J	0.35 J	2.6
Vanadium, Total	17.1	22.9 J	23	25.8	550
Zinc, Total	33.8	39.6 J	38.9	13.4	5100

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-18(0-1.5)-021014	AL13-19(0.5-1.5)-021014	AL13-20(0-1.5)-021014	AL13-22(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-18	AL13-19	AL13-20	AL13-22	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	0.003 J	0.05
Barium, TCLP	0.53	0.78	0.76	0.39 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.001 J	0.0028 J	0.0008 J	ND	0.005
Chromium, TCLP	0.0016 J	ND	ND	ND	0.1
Cobalt, TCLP	0.0018 J	0.014 J	0.0027 J	0.014 J	1
Copper, TCLP	ND	ND	ND	0.0098 J	0.65
Iron, TCLP	ND	ND	ND	0.11	5
Lead, TCLP	ND	0.052	ND	ND	0.0075
Manganese, TCLP	1.3	3.6	1.6	1.8	0.15
Nickel, TCLP	0.0075 J	0.037 J	0.009 J	0.014 J	0.1
Selenium, TCLP	0.005 J	0.0074 J	0.0058 J	0.0069 J	0.05
Silver, TCLP	ND	ND	0.0014 J	ND	0.05
Zinc, TCLP	0.05 J	0.098 J	0.043 J	0.07 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.015	0.03	0.025	0.021	0.05
Barium, SPLP	0.35 J	0.49 J	0.43 J	0.28 J	2
Beryllium, SPLP	0.0009 J	0.0021 J	0.0017 J	0.0007 J	0.004
Cadmium, SPLP	0.0006 J	0.001 J	0.0006 J	ND	0.005
Chromium, SPLP	0.037	0.055	0.058	0.021	0.1
Cobalt, SPLP	ND	0.016 J	ND	ND	1
Copper, SPLP	0.027	0.065	0.04	0.02 J	0.65
Iron, SPLP	23.3	57.8	45.5	15.1	5
Lead, SPLP	0.13	0.097	0.07	0.016	0.0075
Manganese, SPLP	0.28	0.58	0.53	0.13	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.022 J	0.063	0.042	0.015 J	0.1
Selenium, SPLP	ND	ND	0.0049 J	ND	0.05
Silver, SPLP	ND	0.0014 J	ND	ND	0.05
Zinc, SPLP	0.12	0.18 J	0.16	0.086 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-23(0.5-1.5)-021014	AL13-24(0-1.5)-021014	AL13-26(0-1.5)-021014	AL13-26(0-1.5)-021014D	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-23	AL13-24	AL13-26	AL13-26	
Depth	0.5 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.7	8.4	8.4	8.4	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	31.9	ND	ND	25000
Benzene	2.5	1.5	0.85	0.92	30
Ethylbenzene	0.86 J	0.71 J	0.52 J	0.47 J	13000
Methylene chloride	3.5	ND	ND	ND	20
Toluene	3.3 J	2.5 J	1.7 J	1.5 J	12000
Xylene (Total)	1.8 J	1.5 J	1.1 J	0.8 J	5600
SVOCs (ug/kg)					
2-Methylnaphthalene	53.5 J	ND	ND	ND	---
Anthracene	25.8 J	ND	ND	ND	1.20E+07
Benzo(a)anthracene	120	118 J	23.9 J	27.4 J	900 / 1100 / 1800
Benzo(a)pyrene	105 J	96.3 J	ND	17.8 J	90 / 1300 / 2100
Benzo(b)fluoranthene	125	100 J	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	82.4 J	81.4 J	ND	17.6 J	2300000
Benzo(k)fluoranthene	75.7 J	ND	ND	ND	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	46000
Butyl benzyl phthalate	ND	ND	ND	ND	930000
Carbazole	16.5 J	ND	ND	ND	600
Chrysene	149	122 J	28.2 J	22.4 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	193	193 J	32.7 J	40.5 J	3100000
Indeno(1,2,3-cd)pyrene	53.9 J	ND	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	28.7 J	ND	ND	ND	1800
Phenanthrene	139	109 J	23.6 J	23.4 J	210000
Pyrene	220	169 J	36.6 J	35.3 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	8160 J	7610	11900	8600	---
Antimony, Total	ND	0.22 J	ND	ND	5
Arsenic, Total	5.9	10.1	7.3	7.1	11.3 / 13
Barium, Total	110 J	59.5	155 J	71.2 J	1500
Beryllium, Total	0.52 J	0.37 J	0.64	0.48	22
Cadmium, Total	0.16 J	ND	0.045 J	ND	5.2
Calcium, Total	22800 J	99400	14500 J	88800 J	---
Chromium, Total	12.6 J	16.2	15.2	25.6	21
Cobalt, Total	7.7 J	4.7 J	8.2	5.8	20
Copper, Total	13	24.8	15.5	13.5	2900
Iron, Total	11400 J	15400	16600	13700	15000 / 15900
Lead, Total	43 J	43.9	17.7 J	79.5 J	107
Magnesium, Total	15400 J	62900	11500	51500	325000
Manganese, Total	591 J	319	609 J	493 J	630 / 636
Mercury, Total	0.013 J	0.0094 J	0.026 J	0.011 J	0.89
Nickel, Total	11.5 J	11	15.9	13.2	100
Potassium, Total	829 J	847	897	913	
Selenium, Total	0.34 J	ND	ND	ND	1.3
Sodium, Total	2540 J	4300	4070	3380	---
Strontium, Total	15.9 J	38.1	18.3 J	39.5 J	---
Thallium, Total	ND	0.25 J	0.19 J	0.43 J	2.6
Vanadium, Total	26.5 J	21.7	27.5	23.8	550
Zinc, Total	42.4 J	61.5	38.2	37.5	5100

Summary Table of ISGS Site No. 2780-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL13-23(0.5-1.5)-021014	AL13-24(0-1.5)-021014	AL13-26(0-1.5)-021014	AL13-26(0-1.5)-021014D	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL13-23	AL13-24	AL13-26	AL13-26	
Depth	0.5 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Arsenic, TCLP	0.0075 J	0.0036 J	ND	ND	0.05
Barium, TCLP	1.2	0.63	1.2	1.1	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0035 J	0.0021 J	0.0018 J	0.0014 J	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.088	0.018 J	0.029 J	0.015 J	1
Copper, TCLP	ND	0.0074 J	ND	ND	0.65
Iron, TCLP	0.45	0.15	ND	ND	5
Lead, TCLP	0.024	0.012	ND	ND	0.0075
Manganese, TCLP	18.7	3.3	5.2	3.7	0.15
Nickel, TCLP	0.037 J	0.017 J	0.023 J	0.018 J	0.1
Selenium, TCLP	ND	0.0056 J	0.0055 J	0.0056 J	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.11	0.13	0.053 J	0.049 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.028	0.027	0.046	0.067	0.05
Barium, SPLP	0.5	0.48 J	0.59 J	1 J	2
Beryllium, SPLP	0.0015 J	0.0016 J	0.0033 J	0.0049	0.004
Cadmium, SPLP	0.0012 J	0.0009 J	0.0011 J	0.0015 J	0.005
Chromium, SPLP	0.044	0.061	0.1	0.16	0.1
Cobalt, SPLP	0.016 J	ND	ND	0.0081 J	1
Copper, SPLP	0.055	0.053	0.075	0.11	0.65
Iron, SPLP	43.2	48.5	91	139	5
Lead, SPLP	0.19	0.16	0.12	0.19	0.0075
Manganese, SPLP	0.71	0.55	0.94 J	1.6 J	0.15
Mercury, SPLP	ND	ND	0.0002	0.0003	0.002
Nickel, SPLP	0.034 J	0.037 J	0.077	0.12	0.1
Selenium, SPLP	ND	0.0057 J	0.0066 J	0.0068 J	0.05
Silver, SPLP	0.0019 J	ND	0.0011 J	0.001 J	0.05
Zinc, SPLP	0.2 J	0.22	0.24 J	0.41 J	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242

Sampling Date: 02/10/14

Report to:

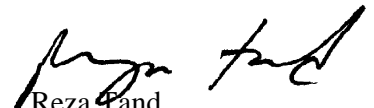
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **305**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-8	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63206.D	1	02/14/14	KD	n/a	n/a	MSM2216

Run #1	Initial Weight	Final Volume
Run #2	5.88 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.9	10	4.0	ug/kg	
71-43-2	Benzene	1.2	0.51	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.37	ug/kg	
75-25-2	Bromoform	ND	2.0	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.28	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.61	ug/kg	
67-66-3	Chloroform	ND	2.0	0.30	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.56	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.46	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/kg	
100-41-4	Ethylbenzene	0.54	2.0	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	1.9	ug/kg	
75-09-2	Methylene chloride	ND	2.0	1.6	ug/kg	
100-42-5	Styrene	ND	5.1	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.45	ug/kg	
108-88-3	Toluene	2.1	5.1	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-8	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.0	0.49	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.58	ug/kg	
1330-20-7	Xylene (total)	1.3	2.0	0.21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.08	5.8	ug/kg	JN
	Total TIC, Volatile		5.8	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	
Lab Sample ID: MC28242-8	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37073.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	96	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	74	ug/kg	
95-48-7	2-Methylphenol	ND	590	23	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	42	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	34.7	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	30.0	120	13	ug/kg	J
205-99-2	Benzo(b)fluoranthene	30.3	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	27.7	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	29.9	120	18	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	13.8	300	12	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	40.4	120	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	
Lab Sample ID: MC28242-8	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	300	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	18.1	300	11	ug/kg	J
206-44-0	Fluoranthene	59.2	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	22.7	120	13	ug/kg	J
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	44.4	120	16	ug/kg	J
129-00-0	Pyrene	55.6	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	72%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	
Lab Sample ID: MC28242-8	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
13798-23-7	Sulfur	6.81	420	ug/kg	JN
57-10-3	n-Hexadecanoic acid	8.41	380	ug/kg	JN
57-11-4	Octadecanoic acid	9.11	240	ug/kg	JN
	Total TIC, Semi-Volatile		1040	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-8	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7540	19	3.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Antimony	0.14 U	0.93	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Arsenic	4.3	0.93	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Barium	52.2	4.6	0.067	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.39	0.37	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.039 U	0.37	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Calcium	91700	4600	58	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁵
Chromium	11.3	0.93	0.088	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cobalt	4.8	4.6	0.044	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Copper	10.2	2.3	0.51	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Iron	10400	9.3	0.81	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Lead	26.6	0.93	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Magnesium	58400	460	4.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Manganese	279	1.4	0.037	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Mercury	0.042	0.034	0.0075	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	9.2	3.7	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Potassium	763	460	7.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Selenium	0.32 U	0.93	0.32	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Silver	0.12 U	0.46	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Sodium	3260	460	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Strontium	34.8	0.93	0.028	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Thallium	0.27 B	0.93	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Vanadium	18.7	0.93	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Zinc	29.8	1.9	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22486
- (5) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014 Lab Sample ID: MC28242-8 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 83.1
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.1		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.3		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-8A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0059 B	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.93	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0013 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.046 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.44			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0024 B	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	5.6			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.024 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0049 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.047 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-16(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-8B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.040		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.79		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0023 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00080 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.079		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.0056 B		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.055		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	63.2		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.085		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.68		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.057		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0063 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.20		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63218.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.94 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.8	ug/kg	
71-43-2	Benzene	0.95	0.61	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.44	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.35	ug/kg	
74-87-3	Chloromethane	ND	6.1	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	0.52	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.1	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.1	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.54	ug/kg	
108-88-3	Toluene	1.4	6.1	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.70	ug/kg	
1330-20-7	Xylene (total)	0.64	2.5	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
104-76-7	1-Hexanol, 2-ethyl-	15.79	26	ug/kg	JN
7206-25-9	9-Octadecene, (E)-	16.70	6.6	ug/kg	JN
	Total TIC, Volatile		32.6	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID:	AL13-18(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-9	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	82.5
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37074.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	97	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	74	ug/kg	
95-48-7	2-Methylphenol	ND	590	24	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	42	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	38.1	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	35.4	120	13	ug/kg	J
205-99-2	Benzo(b)fluoranthene	41.1	120	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	28.5	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	26.8	120	18	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	300	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	47.5	120	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	
Lab Sample ID: MC28242-9	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 82.5
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	300	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	40	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.3	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	21.9	300	11	ug/kg	J
206-44-0	Fluoranthene	68.1	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20.5	120	13	ug/kg	J
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	39.3	120	16	ug/kg	J
129-00-0	Pyrene	63.7	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		30-130%
4165-62-2	Phenol-d5	68%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Method: SW846 8270D SW846 3510C	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.41	330	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	290	ug/kg	JN
	Total TIC, Semi-Volatile		620	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6630	19	3.4	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Antimony	0.21 B	0.96	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	4.3	0.96	0.20	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	59.6	4.8	0.070	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.36 B	0.38	0.023	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.041 U	0.38	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	101000	4800	60	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁴
Chromium	10.6	0.96	0.091	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	5.7	4.8	0.045	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	9.4	2.4	0.53	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	9460	9.6	0.84	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	47.4	0.96	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	64100	480	4.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	541	1.4	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.0087 U	0.040	0.0087	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁵
Nickel	8.8	3.8	0.042	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	830	480	8.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.33 U	0.96	0.33	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.48	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	2770	480	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Strontium	38.7	0.96	0.029	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.16 B	0.96	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	17.1	0.96	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	33.8	1.9	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22488
- (5) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.25
4

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Project: IDOT 042 - IL 72, Hampshire, IL	

4.25
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.5		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.6		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.53	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0010 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0016 B	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0018 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	1.3			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.0075 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0050 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.050 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-18(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-9B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.015		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.35 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.00090 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.037		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.027		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	23.3		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.13		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.28		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.022 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.12		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.27
4

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	
Lab Sample ID: MC28242-10	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63219.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.71 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.8	ug/kg	
71-43-2	Benzene	2.0	0.62	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.45	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.2	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	0.63	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.2	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.2	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.55	ug/kg	
108-88-3	Toluene	2.8	6.2	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.28
 4

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.70	ug/kg	
1330-20-7	Xylene (total)	1.5	2.5	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
104-76-7	1-Hexanol, 2-ethyl-	15.80	6.4	ug/kg	JN
	Total TIC, Volatile		6.4	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.28
4

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	
Lab Sample ID: MC28242-10	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37075.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	560	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	55.6	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	64.9	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	74.9	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	60.0	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	48.2	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	72.5	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	
Lab Sample ID: MC28242-10	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	280	10	ug/kg	
206-44-0	Fluoranthene	125	110	15	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	47.4	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	71.3	110	15	ug/kg	J
129-00-0	Pyrene	113	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	91%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014 Lab Sample ID: MC28242-10 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 86.1
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	88%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.41	350	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	250	ug/kg	JN
	Total TIC, Semi-Volatile		600	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.28
4

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9440	18	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Antimony	0.13 B	0.89	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	6.0	0.89	0.18	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	87.6	4.4	0.064	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.51	0.35	0.021	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.080 B	0.35	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	19100	440	5.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	13.5	0.89	0.084	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	6.7	4.4	0.042	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	12.2	2.2	0.49	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	13700	8.9	0.77	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	17.1	0.89	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	13800	440	4.5	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	491	1.3	0.035	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.18	0.037	0.0081	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	12.7	3.5	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	950	440	7.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.31 U	0.89	0.31	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.11 U	0.44	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	3430	440	2.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Strontium	15.9	0.89	0.027	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.19 B	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	23.0	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	38.9	1.8	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Prep QC Batch: MP22488
- (4) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.28
4

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-10	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

4.28
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.1		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.3		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-10A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.76	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.00080 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0027 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	1.6			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.0090 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0058 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0014 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.043 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-20(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-10B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.025		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.43 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0017 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.058		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.040		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	45.5		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.070		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.53		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.042		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0049 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.16		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.30
4

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	
Lab Sample ID: MC28242-11	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63220.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.94 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	4.3	ug/kg	
71-43-2	Benzene	1.5	0.55	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.40	ug/kg	
75-25-2	Bromoform	ND	2.2	0.32	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.66	ug/kg	
67-66-3	Chloroform	ND	2.2	0.32	ug/kg	
74-87-3	Chloromethane	ND	5.5	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.47	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.37	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.60	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.58	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.56	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	0.20	ug/kg	
591-78-6	2-Hexanone	ND	11	2.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.44	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.5	2.0	ug/kg	
75-09-2	Methylene chloride	ND	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.5	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.49	ug/kg	
108-88-3	Toluene	1.6	5.5	0.27	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.38	ug/kg	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-11	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 91.3
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.2	0.53	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.63	ug/kg	
1330-20-7	Xylene (total)	0.91	2.2	0.23	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.31
4

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	
Lab Sample ID: MC28242-11	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37118.D	5	02/18/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1300	60	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2600	67	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2600	76	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2600	430	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5300	660	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2600	330	ug/kg	
95-48-7	2-Methylphenol	ND	2600	100	ug/kg	
106-44-5	4-Methylphenol	ND	2600	140	ug/kg	
88-75-5	2-Nitrophenol	ND	2600	71	ug/kg	
100-02-7	4-Nitrophenol	ND	5300	500	ug/kg	
87-86-5	Pentachlorophenol	ND	2600	190	ug/kg	
108-95-2	Phenol	ND	1300	75	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2600	66	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2600	65	ug/kg	
83-32-9	Acenaphthene	ND	530	71	ug/kg	
208-96-8	Acenaphthylene	ND	530	53	ug/kg	
120-12-7	Anthracene	ND	530	64	ug/kg	
56-55-3	Benzo(a)anthracene	ND	530	68	ug/kg	
50-32-8	Benzo(a)pyrene	ND	530	57	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	530	66	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	530	53	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	530	80	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1300	67	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1300	54	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1300	72	ug/kg	
106-47-8	4-Chloroaniline	ND	2600	66	ug/kg	
86-74-8	Carbazole	ND	530	62	ug/kg	
218-01-9	Chrysene	ND	530	66	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1300	62	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1300	80	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1300	95	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1300	81	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL13-22(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-11	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	91.3
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1300	68	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1300	76	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1300	70	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2600	180	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2600	66	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1300	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	530	63	ug/kg	
132-64-9	Dibenzofuran	ND	530	73	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1300	140	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1300	41	ug/kg	
84-66-2	Diethyl phthalate	ND	1300	66	ug/kg	
131-11-3	Dimethyl phthalate	ND	1300	76	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1300	49	ug/kg	
206-44-0	Fluoranthene	ND	530	72	ug/kg	
86-73-7	Fluorene	ND	530	70	ug/kg	
118-74-1	Hexachlorobenzene	ND	1300	83	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1300	76	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2600	660	ug/kg	
67-72-1	Hexachloroethane	ND	1300	64	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	530	58	ug/kg	
78-59-1	Isophorone	ND	1300	61	ug/kg	
91-57-6	2-Methylnaphthalene	ND	530	67	ug/kg	
88-74-4	2-Nitroaniline	ND	2600	66	ug/kg	
99-09-2	3-Nitroaniline	ND	2600	140	ug/kg	
100-01-6	4-Nitroaniline	ND	2600	66	ug/kg	
91-20-3	Naphthalene	ND	530	85	ug/kg	
98-95-3	Nitrobenzene	ND	1300	71	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1300	76	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1300	80	ug/kg	
85-01-8	Phenanthrene	ND	530	72	ug/kg	
129-00-0	Pyrene	ND	530	62	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	73	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		30-130%
4165-62-2	Phenol-d5	62%		30-130%
118-79-6	2,4,6-Tribromophenol	71%		30-130%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014 Lab Sample ID: MC28242-11 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 91.3
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.31
4

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-11	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1910	16	2.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Antimony	0.12 U	0.82	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	2.6	0.82	0.17	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	13.0	4.1	0.060	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.12 B	0.33	0.020	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.035 U	0.33	0.035	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	145000	4100	52	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁴
Chromium	4.7	0.82	0.078	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	1.9 B	4.1	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	6.0	2.1	0.46	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	5420	8.2	0.72	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	4.9	0.82	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	89000	4100	42	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁴
Manganese	203	1.2	0.033	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.020 B	0.036	0.0079	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁵
Nickel	8.4	3.3	0.036	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	525	410	7.0	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.29 U	0.82	0.29	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.10 U	0.41	0.10	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	1870	410	2.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Strontium	45.0	0.82	0.025	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.35 B	0.82	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	25.8	0.82	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	13.4	1.6	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22488
- (5) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-11	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.3		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.4		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.31
4

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-11A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0030 B	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.39 B	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.00050 U	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.014 B			0.050	0.00040	mg/l	1	02/19/14	02/24/14	EAL SW846 6010C ³
Copper	0.0098 B			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.11			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/24/14	EAL SW846 6010C ³
Manganese	1.8			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.014 B			0.040	0.00057	mg/l	1	02/19/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0069 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.070 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22518
- (5) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.32
4

Report of Analysis

Client Sample ID: AL13-22(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-11B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 91.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.021		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.28 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.00070 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.021		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.020 B		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	15.1		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.016		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.13		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.015 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.086 B		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.33
4

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	
Lab Sample ID: MC28242-12	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 80.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63221.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.38 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	31.9	14	5.5	ug/kg	
71-43-2	Benzene	1.5	0.71	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.51	ug/kg	
75-25-2	Bromoform	ND	2.8	0.41	ug/kg	
74-83-9	Bromomethane	ND	2.8	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.4	ug/kg	
75-15-0	Carbon disulfide	ND	7.1	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.38	ug/kg	
75-00-3	Chloroethane	ND	7.1	0.85	ug/kg	
67-66-3	Chloroform	ND	2.8	0.41	ug/kg	
74-87-3	Chloromethane	ND	7.1	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.60	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	0.47	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.77	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.72	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.63	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.41	ug/kg	
100-41-4	Ethylbenzene	0.71	2.8	0.25	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.56	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.1	2.6	ug/kg	
75-09-2	Methylene chloride	ND	2.8	2.2	ug/kg	
100-42-5	Styrene	ND	7.1	0.29	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.42	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.62	ug/kg	
108-88-3	Toluene	2.5	7.1	0.34	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.49	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-12	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 80.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.8	0.67	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.80	ug/kg	
1330-20-7	Xylene (total)	1.5	2.8	0.29	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	85%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	
Lab Sample ID: MC28242-12	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 80.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37119.D	5	02/18/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	69	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3000	77	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3000	88	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3000	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	6100	760	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3000	380	ug/kg	
95-48-7	2-Methylphenol	ND	3000	120	ug/kg	
106-44-5	4-Methylphenol	ND	3000	160	ug/kg	
88-75-5	2-Nitrophenol	ND	3000	81	ug/kg	
100-02-7	4-Nitrophenol	ND	6100	570	ug/kg	
87-86-5	Pentachlorophenol	ND	3000	210	ug/kg	
108-95-2	Phenol	ND	1500	87	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3000	76	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3000	75	ug/kg	
83-32-9	Acenaphthene	ND	610	81	ug/kg	
208-96-8	Acenaphthylene	ND	610	61	ug/kg	
120-12-7	Anthracene	ND	610	73	ug/kg	
56-55-3	Benzo(a)anthracene	118	610	78	ug/kg	J
50-32-8	Benzo(a)pyrene	96.3	610	65	ug/kg	J
205-99-2	Benzo(b)fluoranthene	100	610	76	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	81.4	610	61	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	610	92	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	77	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	62	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	82	ug/kg	
106-47-8	4-Chloroaniline	ND	3000	76	ug/kg	
86-74-8	Carbazole	ND	610	72	ug/kg	
218-01-9	Chrysene	122	610	76	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	71	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	93	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	110	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	93	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID:	AL13-24(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-12	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	80.9
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	79	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	87	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	81	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3000	200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3000	76	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	610	73	ug/kg	
132-64-9	Dibenzofuran	ND	610	84	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	48	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	76	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	88	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	56	ug/kg	
206-44-0	Fluoranthene	193	610	83	ug/kg	J
86-73-7	Fluorene	ND	610	81	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	95	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	88	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3000	760	ug/kg	
67-72-1	Hexachloroethane	ND	1500	73	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	610	67	ug/kg	
78-59-1	Isophorone	ND	1500	70	ug/kg	
91-57-6	2-Methylnaphthalene	ND	610	77	ug/kg	
88-74-4	2-Nitroaniline	ND	3000	76	ug/kg	
99-09-2	3-Nitroaniline	ND	3000	170	ug/kg	
100-01-6	4-Nitroaniline	ND	3000	76	ug/kg	
91-20-3	Naphthalene	ND	610	98	ug/kg	
98-95-3	Nitrobenzene	ND	1500	82	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	87	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	92	ug/kg	
85-01-8	Phenanthrene	109	610	82	ug/kg	J
129-00-0	Pyrene	169	610	71	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	1500	84	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		30-130%
4165-62-2	Phenol-d5	57%		30-130%
118-79-6	2,4,6-Tribromophenol	73%		30-130%
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014 Lab Sample ID: MC28242-12 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 80.9
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.34
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-12	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 80.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7610	19	3.5	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Antimony	0.22 B	0.97	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	10.1	0.97	0.20	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	59.5	4.8	0.070	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.37 B	0.39	0.023	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.041 U	0.39	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	99400	4800	61	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁴
Chromium	16.2	0.97	0.092	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	4.7 B	4.8	0.045	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	24.8	2.4	0.54	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	15400	9.7	0.84	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	43.9	0.97	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	62900	480	4.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	319	1.4	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.0094 B	0.039	0.0086	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁵
Nickel	11.0	3.9	0.042	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	847	480	8.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.34 U	0.97	0.34	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.48	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	4300	480	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Strontium	38.1	0.97	0.029	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.25 B	0.97	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	21.7	0.97	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	61.5	1.9	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22488
- (5) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.34
 4

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-12	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 80.9
Project: IDOT 042 - IL 72, Hampshire, IL	

4.34
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	80.9		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.4		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-12A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 80.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0036 B	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.63	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0021 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.018 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0074 B			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.15			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.012	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	3.3			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.017 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0056 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.13			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-24(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-12B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 80.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.027		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.48 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0016 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00090 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.061		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.053		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	48.5		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.16		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.55		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.037 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0057 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.22		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.36
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63222.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.15 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	4.4	ug/kg	
71-43-2	Benzene	0.85	0.57	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.41	ug/kg	
75-25-2	Bromoform	ND	2.3	0.33	ug/kg	
74-83-9	Bromomethane	ND	2.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.68	ug/kg	
67-66-3	Chloroform	ND	2.3	0.33	ug/kg	
74-87-3	Chloromethane	ND	5.7	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	0.38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	0.61	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.58	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
100-41-4	Ethylbenzene	0.52	2.3	0.20	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	2.1	ug/kg	
75-09-2	Methylene chloride	ND	2.3	1.7	ug/kg	
100-42-5	Styrene	ND	5.7	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.33	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.50	ug/kg	
108-88-3	Toluene	1.7	5.7	0.28	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.39	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.37
 4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.3	0.54	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.64	ug/kg	
1330-20-7	Xylene (total)	1.1	2.3	0.23	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-66-0	Pentane	6.48	7.1	ug/kg	JN
	Total TIC, Volatile		7.1	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	
Lab Sample ID: MC28242-13	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37120.D	1	02/18/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	94	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	72	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	23.9	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	14	ug/kg	
218-01-9	Chrysene	28.2	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	
Lab Sample ID: MC28242-13	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	32.7	110	16	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	15	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	23.6	110	16	ug/kg	J
129-00-0	Pyrene	36.6	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	67%		30-130%
118-79-6	2,4,6-Tribromophenol	85%		30-130%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8270D SW846 3510C	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
541-02-6	Cyclopentasiloxane, decamethyl-	4.79	460	ug/kg	JN
112-95-8	Eicosane	12.65	530	ug/kg	JN
	Total TIC, Semi-Volatile		990	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	11900	18	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Antimony	0.14 U	0.90	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	7.3	0.90	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	155	4.5	0.065	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.64	0.36	0.021	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.045 B	0.36	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	14500	450	5.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	15.2	0.90	0.085	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	8.2	4.5	0.042	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	15.5	2.2	0.50	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	16600	9.0	0.78	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	17.7	0.90	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	11500	450	4.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	609	1.3	0.036	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.026 B	0.037	0.0081	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	15.9	3.6	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	897	450	7.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.31 U	0.90	0.31	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.11 U	0.45	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	4070	450	3.0	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Strontium	18.3	0.90	0.027	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.19 B	0.90	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	27.5	0.90	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	38.2	1.8	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA16736

(2) Instrument QC Batch: MA16740

(3) Prep QC Batch: MP22488

(4) Prep QC Batch: MP22490

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.8		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.4		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.37
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	1.2	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0018 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.029 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	5.2			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.023 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0055 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.053 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-13B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.046		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.59		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0033 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.0011 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.10		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.075		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	91.0		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.12		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.94		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00020		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.077		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0066 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0011 B		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.24		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.39
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63223.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.41 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	5.4	ug/kg	
71-43-2	Benzene	0.92	0.69	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.50	ug/kg	
75-25-2	Bromoform	ND	2.7	0.40	ug/kg	
74-83-9	Bromomethane	ND	2.7	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.2	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.37	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.82	ug/kg	
67-66-3	Chloroform	ND	2.7	0.40	ug/kg	
74-87-3	Chloromethane	ND	6.9	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.58	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	0.75	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.7	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.7	0.70	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.7	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.58	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.40	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.40	ug/kg	
100-41-4	Ethylbenzene	0.47	2.7	0.24	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	0.54	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.9	2.5	ug/kg	
75-09-2	Methylene chloride	ND	2.7	2.1	ug/kg	
100-42-5	Styrene	ND	6.9	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.40	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.61	ug/kg	
108-88-3	Toluene	1.5	6.9	0.33	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.48	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.7	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.78	ug/kg	
1330-20-7	Xylene (total)	0.80	2.7	0.28	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID:	AL13-26(0-1.5)-021014D	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-14	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	82.6
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37121.D	1	02/18/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	96	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	74	ug/kg	
95-48-7	2-Methylphenol	ND	590	23	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	42	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	27.4	120	15	ug/kg	J
50-32-8	Benzo(a)pyrene	17.8	120	13	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17.6	120	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	300	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	22.4	120	15	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D	
Lab Sample ID: MC28242-14	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 82.6
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	300	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	40	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	300	11	ug/kg	
206-44-0	Fluoranthene	40.5	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	23.4	120	16	ug/kg	J
129-00-0	Pyrene	35.3	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	66%		30-130%
118-79-6	2,4,6-Tribromophenol	85%		30-130%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D Lab Sample ID: MC28242-14 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 82.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	3.86	300	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.85	270	ug/kg	JN
	Total TIC, Semi-Volatile		570	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-14	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	8600	19	3.5	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Antimony	0.15 U	0.97	0.15	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Arsenic	7.1	0.97	0.20	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Barium	71.2	4.8	0.070	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.48	0.39	0.023	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.041 U	0.39	0.041	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Calcium	88800	4800	61	mg/kg	10	02/13/14	02/17/14	EAL	SW846 6010C ³	SW846 3050B ⁴
Chromium	25.6	0.97	0.092	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Cobalt	5.8	4.8	0.046	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Copper	13.5	2.4	0.54	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Iron	13700	9.7	0.84	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Lead	79.5	0.97	0.16	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Magnesium	51500	480	5.0	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Manganese	493	1.5	0.039	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.011 B	0.038	0.0083	mg/kg	1	02/14/14	02/14/14	SA	SW846 7471B ¹	SW846 7471B ⁵
Nickel	13.2	3.9	0.043	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Potassium	913	480	8.3	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Selenium	0.34 U	0.97	0.34	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.48	0.12	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Sodium	3380	480	3.2	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Strontium	39.5	0.97	0.029	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Thallium	0.43 B	0.97	0.13	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Vanadium	23.8	0.97	0.13	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴
Zinc	37.5	1.9	0.16	mg/kg	1	02/13/14	02/13/14	EAL	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22488
- (5) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D Lab Sample ID: MC28242-14 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 82.6
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4.40
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.6		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.4		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-14A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	1.1	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0014 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.015 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	3.7			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.018 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0056 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.049 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.41
4

Report of Analysis

Client Sample ID: AL13-26(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-14B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 82.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.067		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	1.0		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0049		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.0015 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.16		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.0081 B		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.11		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	139		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.19		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	1.6		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00030		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.12		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0068 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 B		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.41		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.42
4

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	
Lab Sample ID: MC28242-19	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63228.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.74 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.7	ug/kg	
71-43-2	Benzene	1.7	0.61	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.44	ug/kg	
75-25-2	Bromoform	ND	2.4	0.35	ug/kg	
74-83-9	Bromomethane	ND	2.4	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.73	ug/kg	
67-66-3	Chloroform	ND	2.4	0.35	ug/kg	
74-87-3	Chloromethane	ND	6.1	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	0.40	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	0.66	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.62	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.36	ug/kg	
100-41-4	Ethylbenzene	0.79	2.4	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.1	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.4	1.9	ug/kg	
100-42-5	Styrene	ND	6.1	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.54	ug/kg	
108-88-3	Toluene	2.9	6.1	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.42	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.55
 4

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.4	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.69	ug/kg	
1330-20-7	Xylene (total)	1.6	2.4	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	
Lab Sample ID: MC28242-19	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37126.D	1	02/19/14	KR	02/14/14	OP36841	MSR1369
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	28	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	21.4	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	91.5	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	82.2	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	84.1	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	54.5	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	69.5	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	115	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	
Lab Sample ID: MC28242-19	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3510C	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	14.8	110	13	ug/kg	J
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	14.2	280	10	ug/kg	J
206-44-0	Fluoranthene	179	110	15	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39.9	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	34.9	110	14	ug/kg	J
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	30	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	19.7	110	18	ug/kg	J
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	119	110	15	ug/kg	
129-00-0	Pyrene	178	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Method: SW846 8270D SW846 3510C	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	3.86	300	ug/kg	JN
541-02-6	Cyclopentasiloxane, decamethyl-	4.79	310	ug/kg	JN
57-10-3	n-Hexadecanoic acid	8.40	310	ug/kg	JN
638-66-4	Octadecanal	11.65	240	ug/kg	JN
	Total TIC, Semi-Volatile		1160	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8720	18	3.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	7.3	0.92	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	88.3	4.6	0.067	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.48	0.37	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.14 B	0.37	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	28700	460	5.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	16.5	0.92	0.088	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	6.7	4.6	0.043	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	11.5	2.3	0.51	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	13400	9.2	0.80	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	46.7	0.92	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	20500	460	4.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	538	1.4	0.037	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.0083 U	0.038	0.0083	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	11.4	3.7	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	772	460	7.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.46	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	3510	460	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Strontium	18.9	0.92	0.028	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.23 B	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	23.9	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	41.3	1.8	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Prep QC Batch: MP22488
- (4) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.55
4

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-19	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.7		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.55
4

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-19A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.86	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0021 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0017 B	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0023 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0055 B	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	3.1			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.015 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0048 U	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0011 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.087 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-19B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.026		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.42 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0017 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00090 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.061		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.0010 B		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.040		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	48.9		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.18		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.81		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.040		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0057 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 B		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.20		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes		
Company Name Wesdon		Project Name IDOT-042 Hampshire														DW - Drinking Water GW - Ground Water WV - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank		
Street Address 750 E. Bunler Ct Ste 500		Street:																
City State Zip Nevron Hills IL 60061		City:																
Project Contact S. Babushkumar		Project#																
Phone # 847-918-4018		Client PGM																
Sampler(s) Name(s) T. W. HS		Project Manager																
Field ID / Point of Collection		MECH/DI Vial #		Collection				Number of preserved Bottles								LAB USE ONLY		
				Date	Time	Sampled by:	Matrix	# of bottles	HCl	NEPH	PHOS	H2SO4	NONE	DI Water	MEDW	ENCORE	Shutliss	
-1	AL19-6(0-1.5)-021014			2-10-14	0910	TW	S	3										X
-2	AL19-8(0-1.5)-021014				0910													X
-3	RE20-2(0-1.5)-021014				0945													X
-4	AL19-8(0-1.5)-021014				1005													X
-5	PE-1(0-1.5)-021014				1025													X
-6	PE-3(0-1.5)-021014				1040													X
-7	AL13-14(0-1.5)-021014				1100													X
-8	AL13-16(0-1.5)-021014				1115													X
-9	AL13-18(0-1.5)-021014				1135													X
-10	AL13-20(0-1.5)-021014				1155													X
-11	AL13-22(0-1.5)-021014				1215													X
-12	AL13-24(0-1.5)-021014			2-10-14	1230	TW	S	3										X
Turnaround Time (Business days)				Approved By (Accutest PM): / Date:				Data Deliverable Information				Comments / Special Instructions						
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>								<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>										
Sample Custody must be documented below each time samples change possession, including courier delivery.												CHICAGO SC						
Relinquished by Sampler: 1 T. W. HS		Date Time: 2-11-14/1530		Received By: [Signature]		Date Time: 2-11-14 9:41		Relinquished By: 2 FEO		Date Time: 2-12-14		Received By: [Signature]						
Relinquished by Sampler: 3		Date Time:		Received By: 3		Date Time:		Relinquished By: 4		Date Time:		Received By: 4						
Relinquished by: 5		Date Time:		Received By: 5		Date Time:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable <input type="checkbox"/> On Ice <input checked="" type="checkbox"/> 10-1-08-20		Copier Temp: <input checked="" type="checkbox"/> 10-1-08-20				

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FED-Ex Tracking #	Bole Order Control #
Accutest Quote #	Accutest Job # MC28242

Client / Reporting Information		Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes					
Company Name Woraton		Project Name IDOT-042 Hampshire										<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SNOs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP/SPLP metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> </div>										DW - Drinking Water GW - Ground Water LW - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank					
Street Address 750 E. Banker Ct Ste 500		Billing Information (If different from Report to)																									
City State Zip Nevan Hills IL 60061		Company Name																									
Project Contact S. Babusikumar		Street Address																									
Phone # 847-918-4018		City State Zip																									
Fax #		Client PO#																									
Sampler(s) Name(s) T. Walls		Project Manager Matt Maxwell																									
Phone #		Attention: PO#																									
MECHDI Val #		Date																									
Time		Sampled by																									
Matrix		# of bottles																									
Number of preserved bottles		<input type="checkbox"/> HCl <input type="checkbox"/> NH ₄ OH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NONE <input type="checkbox"/> D ₂ O Water <input type="checkbox"/> MECH <input type="checkbox"/> ENCORE <input type="checkbox"/> Blank																									
LAB USE ONLY																											
Account Service #	Field ID / Point of Collection	MECHDI Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH ₄ OH	HNO ₃	H ₂ SO ₄	NONE	D ₂ O Water	MECH	ENCORE	Blank											
	-13 AL13-26(0-1.5)-021014		2-10-14	1250	rw	S	3										X	X	X	X	X						
	-14 AL13-21(0-1.5)-021014			1250																							
	-15 RE10-2(0-1.5)-021014			1310																							
	-16 RE10-4(0-1.5)-021014			1330																							
	-17 RE10-1(0-1.5)-021014			1415																							
	-18 AL8-10(0-1.5)-021014			1430																							
	-19 AL13-1(0-1.5)-021014			1445																							
	-20 AL13-3(0-1.5)-021014			1520																							
	-21 AL13-5(0-1.5)-021014			1525																							
	-22 AL13-7(0-1.5)-021014		2-10-14	1540																							
	23 VL15-1(0-1.5)-021114		2-11-14	0825	rw	S	3										X	X	X	X	X						
	24 AL13-10(0-1.5)-021114		2-11-14	0835	rw	S	3										X	X	X	X	X						
Turnaround Time (Business days)										Data Deliverable Information										Comments / Special Instructions							
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM): / Date:		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other																					
Emergency & Rush T/A data available VIA Lablink										Commercial "A" = Results Only Commercial "B" = Results + QC Summary																	
Sample Custody must be documented below each time samples change possession, including courier delivery.										CHICAGO SC																	
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:											
1 T. Walls		2-11-14 1538		Matt Maxwell		2-11-14 341		Fiona		2-11-14		Stephanie															
3				3				4				4															
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		<input type="checkbox"/> Preserved where applicable <input type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp.		1.0-1.1-08-2.0													
5				5																							

5.1
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Client / Reporting Information		Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name Weston		Project Name IDOT-042 Hampshire										VOCs SVOCs Total Metals TCLP/SPLP Metals PH										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address 750 E. Bunker Ct Ste 500		Billing Information (If different from Report to)																					
City State Zip Jerman Hills IL 60061		Company Name																					
Project Contact S. Babusini Kumar		Street Address																					
Phone # Fax # 847-918-4018		City State Zip																					
Sampler(s) Name(s) T. Wallis		Project Manager Matt Mowell		Attention:								FO#											
Accutest Sample #	Field ID / Point of Collection	MECH/DI Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNOC	H2SO4	NDME	DI Water	MECH	ENCLOSURE	Insulation	LAB USE ONLY						
25	ALB-12(0-1.5)-021114		2-11-14	0915	TW	S	3										X X X X X						
26	AL13-12(0-1.5)-021114D			0915																			
27	FS18-1(0-1.5)-021114			0935																			
28	FS18-3(0-1.5)-021114			0950																			
29	AL19-1(0-1.5)-021114			1005																			
30	AL19-3(0-1.5)-021114			1025																			
31	AL19-5(0-1.5)-021114			1040																			
32	ALB-11(0-1.5)-021114			1130																			
33	ALB-13(0-1.5)-021114			1145																			
34	ALB-15(0-1.5)-021114			1200																			
35	ALB-17(0-1.5)-021114			1215	TW	S	3										X X X X X						
36	ALB-19(0-1.5)-021114		2-11-14	1240	TW	S	3										X X X X X						
Data Deliverable Information																	Comments / Special Instructions						
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM) / Date: _____		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: 1 Z. Wallis		Date Time: 2-11-14/1538		Received By: Matt Mowell				Date Time: 2-11-14 3:41				Relinquished By: 2 FEDX		Date Time: 2-12-14		Received By: 2 CHICAGO SC							
Relinquished by Sampler: 3		Date Time: _____		Received By: 3				Date Time: _____				Relinquished By: 4		Date Time: _____		Received By: 4							
Relinquished by: 5		Date Time: _____		Received By: 5				Date Time: _____				Custody Seal #		<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact		On Ice: _____ Cooler Temp: 1.0-1.0-2.0							

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Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242A

Sampling Dates: 02/10/14 - 02/11/14

Report to:

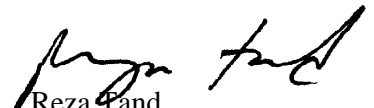
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **273**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL13-5(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.4
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.60	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.72	ug/kg	
1330-20-7	Xylene (total)	1.7	2.5	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.07	7.3	ug/kg	JN
109-66-0	Pentane	6.49	9.8	ug/kg	JN
627-27-0	3-Buten-1-ol	7.84	4.9	ug/kg	JN
	Total TIC, Volatile		22	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
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Report of Analysis

Client Sample ID:	AL13-5(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.4
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37106.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	580	26	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1200	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1200	34	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1200	190	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2300	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1200	150	ug/kg	
95-48-7	2-Methylphenol	ND	1200	46	ug/kg	
106-44-5	4-Methylphenol	ND	1200	59	ug/kg	
88-75-5	2-Nitrophenol	ND	1200	31	ug/kg	
100-02-7	4-Nitrophenol	ND	2300	220	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	82	ug/kg	
108-95-2	Phenol	ND	580	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1200	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1200	29	ug/kg	
83-32-9	Acenaphthene	ND	230	31	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	28	ug/kg	
56-55-3	Benzo(a)anthracene	53.6	230	30	ug/kg	J
50-32-8	Benzo(a)pyrene	57.0	230	25	ug/kg	J
205-99-2	Benzo(b)fluoranthene	48.9	230	29	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	74.9	230	23	ug/kg	J
207-08-9	Benzo(k)fluoranthene	59.4	230	35	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	580	29	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	580	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	580	32	ug/kg	
106-47-8	4-Chloroaniline	ND	1200	29	ug/kg	
86-74-8	Carbazole	ND	230	27	ug/kg	
218-01-9	Chrysene	55.5	230	29	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	580	27	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	580	35	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	580	42	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	580	36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL13-5(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.4
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	580	30	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	580	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	580	31	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1200	78	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1200	29	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	580	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	28	ug/kg	
132-64-9	Dibenzofuran	ND	230	32	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	580	62	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	580	18	ug/kg	
84-66-2	Diethyl phthalate	ND	580	29	ug/kg	
131-11-3	Dimethyl phthalate	ND	580	34	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	580	22	ug/kg	
206-44-0	Fluoranthene	76.9	230	32	ug/kg	J
86-73-7	Fluorene	ND	230	31	ug/kg	
118-74-1	Hexachlorobenzene	ND	580	36	ug/kg	
87-68-3	Hexachlorobutadiene	ND	580	34	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1200	290	ug/kg	
67-72-1	Hexachloroethane	ND	580	28	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	50.9	230	26	ug/kg	J
78-59-1	Isophorone	ND	580	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	30	ug/kg	
88-74-4	2-Nitroaniline	ND	1200	29	ug/kg	
99-09-2	3-Nitroaniline	ND	1200	64	ug/kg	
100-01-6	4-Nitroaniline	ND	1200	29	ug/kg	
91-20-3	Naphthalene	ND	230	37	ug/kg	
98-95-3	Nitrobenzene	ND	580	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	580	33	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	580	35	ug/kg	
85-01-8	Phenanthrene	ND	230	31	ug/kg	
129-00-0	Pyrene	69.8	230	27	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	580	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	72%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-5(0-1.5)-021014 Lab Sample ID: MC28242-21 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 84.4
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	99%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: AL13-5(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.52 B	0.95	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	3.9	0.95	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	28.2	4.7	0.069	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.28 B	0.38	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	108000	4700	60	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	22.8	0.95	0.090	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	3.6 B	4.7	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	17.9	2.4	0.53	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	11200	9.5	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	39.6	0.95	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	70900	470	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	242	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.014 B	0.036	0.0079	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	12.3	3.8	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	632	470	8.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	3570	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.13 B	0.95	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	18.2	0.95	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	39.9	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16752
- (4) Prep QC Batch: MP22493
- (5) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-5(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.4
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.4		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.5		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: AL13-5(0-1.5)-021014 Lab Sample ID: MC28242-21A Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 84.4
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Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Barium	0.55	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Cobalt	0.027 B			0.050	0.00040	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Copper	0.0078 B			0.025	0.0070	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Iron	0.25			0.10	0.020	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Manganese	2.9			0.015	0.00081	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.024 B			0.040	0.00057	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Selenium	0.0077 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²
Zinc	0.078 B			0.10	0.00050	mg/l	1	02/23/14	02/24/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16780
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261.6/96) B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID: AL13-5(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-21B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.027		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.57		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0029 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0019 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.086		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.019 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.063		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	80.5		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.19		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.95		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00011 B		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.063		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.37		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	
Lab Sample ID: MC28242-22	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63299.D	1	02/20/14	KD	n/a	n/a	MSM2220

Run #1	Initial Weight	Final Volume
Run #2	4.50 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	5.0	ug/kg	
71-43-2	Benzene	1.4	0.64	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.46	ug/kg	
75-25-2	Bromoform	ND	2.6	0.37	ug/kg	
74-83-9	Bromomethane	ND	2.6	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.35	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.77	ug/kg	
67-66-3	Chloroform	ND	2.6	0.37	ug/kg	
74-87-3	Chloromethane	ND	6.4	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	0.43	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	0.70	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.65	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.57	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.37	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.37	ug/kg	
100-41-4	Ethylbenzene	0.40	2.6	0.23	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	0.51	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.4	2.4	ug/kg	
75-09-2	Methylene chloride	ND	2.6	2.0	ug/kg	
100-42-5	Styrene	ND	6.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.38	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.57	ug/kg	
108-88-3	Toluene	1.8	6.4	0.31	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.45	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-22	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.6	0.61	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.73	ug/kg	
1330-20-7	Xylene (total)	1.2	2.6	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	
Lab Sample ID: MC28242-22	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37107.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	560	25	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	180	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2300	280	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1100	140	ug/kg	
95-48-7	2-Methylphenol	ND	1100	45	ug/kg	
106-44-5	4-Methylphenol	ND	1100	58	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	30	ug/kg	
100-02-7	4-Nitrophenol	ND	2300	210	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	79	ug/kg	
108-95-2	Phenol	ND	560	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	28	ug/kg	
83-32-9	Acenaphthene	ND	230	30	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	27	ug/kg	
56-55-3	Benzo(a)anthracene	94.4	230	29	ug/kg	J
50-32-8	Benzo(a)pyrene	98.1	230	24	ug/kg	J
205-99-2	Benzo(b)fluoranthene	104	230	28	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	88.6	230	23	ug/kg	J
207-08-9	Benzo(k)fluoranthene	79.9	230	34	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	560	29	ug/kg	
85-68-7	Butyl benzyl phthalate	32.7	560	23	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	560	31	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	28	ug/kg	
86-74-8	Carbazole	ND	230	27	ug/kg	
218-01-9	Chrysene	110	230	28	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	560	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	560	34	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	560	41	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	560	35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL13-7(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-22	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	560	29	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	560	32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	560	30	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1100	75	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1100	28	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	560	56	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	27	ug/kg	
132-64-9	Dibenzofuran	ND	230	31	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	560	60	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	560	18	ug/kg	
84-66-2	Diethyl phthalate	ND	560	28	ug/kg	
131-11-3	Dimethyl phthalate	ND	560	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	560	21	ug/kg	
206-44-0	Fluoranthene	203	230	31	ug/kg	J
86-73-7	Fluorene	ND	230	30	ug/kg	
118-74-1	Hexachlorobenzene	ND	560	35	ug/kg	
87-68-3	Hexachlorobutadiene	ND	560	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	280	ug/kg	
67-72-1	Hexachloroethane	ND	560	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	73.1	230	25	ug/kg	J
78-59-1	Isophorone	ND	560	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	29	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	28	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	62	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	28	ug/kg	
91-20-3	Naphthalene	ND	230	36	ug/kg	
98-95-3	Nitrobenzene	ND	560	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	560	32	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	560	34	ug/kg	
85-01-8	Phenanthrene	78.6	230	31	ug/kg	J
129-00-0	Pyrene	172	230	26	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	560	31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	98%		30-130%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014 Lab Sample ID: MC28242-22 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 86.6
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	101%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-22	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	6.6	0.92	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	84.7	4.6	0.067	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.46	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.082 B	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	24400	460	5.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	12.7	0.92	0.087	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	5.6	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	12.2	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	15400	9.2	0.80	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	43.7	0.92	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	16900	460	4.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	421	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.028 B	0.034	0.0076	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	11.4	3.7	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	804	460	7.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.11 U	0.46	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3670	460	3.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	26.2	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	40.6	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16752
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.4
 4

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-22	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.6		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.2		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.4
 4

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-22A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0066 B	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Barium	1.1	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0016 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.034 B			0.050	0.00040	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Copper	0.011 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Iron	0.14			0.10	0.020	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Lead	0.0073 B	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Manganese	8.6			0.015	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.021 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0071 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Zinc	0.081 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.5
4

Report of Analysis

Client Sample ID: AL13-7(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-22B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.6
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.016		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.47 B		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.00030 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00050 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.016		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0035 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.020 B		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	11.3		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.030		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.15		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.011 B		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.060 B		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.6
4

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 89.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63301.D	1	02/20/14	KD	n/a	n/a	MSM2220
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.47 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.9	ug/kg	
71-43-2	Benzene	0.79	0.62	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.45	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.34	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.75	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.2	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.68	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	ND	2.5	0.22	ug/kg	
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.2	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.2	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.37	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.55	ug/kg	
108-88-3	Toluene	0.99	6.2	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 89.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.59	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.71	ug/kg	
1330-20-7	Xylene (total)	0.48	2.5	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
627-27-0	3-Buten-1-ol	6.49	7.3	ug/kg	JN
	Total TIC, Volatile		7.3	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	
Lab Sample ID: MC28242-24	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 89.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37108.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	270	12	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	550	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	550	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	550	89	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	550	68	ug/kg	
95-48-7	2-Methylphenol	ND	550	22	ug/kg	
106-44-5	4-Methylphenol	ND	550	28	ug/kg	
88-75-5	2-Nitrophenol	ND	550	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	550	38	ug/kg	
108-95-2	Phenol	ND	270	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	550	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	550	13	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	14	ug/kg	
50-32-8	Benzo(a)pyrene	ND	110	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	110	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	110	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	270	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	270	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	270	15	ug/kg	
106-47-8	4-Chloroaniline	ND	550	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	ND	110	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	270	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	17	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	
Lab Sample ID: MC28242-24	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 89.9
Project: IDOT 042 - IL 72, Hampshire, IL	

4.10
4

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	270	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	270	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	550	36	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	550	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	8.5	ug/kg	
84-66-2	Diethyl phthalate	ND	270	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	270	10	ug/kg	
206-44-0	Fluoranthene	ND	110	15	ug/kg	
86-73-7	Fluorene	ND	110	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	550	140	ug/kg	
67-72-1	Hexachloroethane	ND	270	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	12	ug/kg	
78-59-1	Isophorone	ND	270	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	550	14	ug/kg	
99-09-2	3-Nitroaniline	ND	550	30	ug/kg	
100-01-6	4-Nitroaniline	ND	550	14	ug/kg	
91-20-3	Naphthalene	ND	110	17	ug/kg	
98-95-3	Nitrobenzene	ND	270	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	16	ug/kg	
85-01-8	Phenanthrene	ND	110	15	ug/kg	
129-00-0	Pyrene	ND	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	82%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114 Lab Sample ID: MC28242-24 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 89.9
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.10
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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 89.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.13 U	0.89	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	4.0	0.89	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	19.0	4.4	0.065	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.25 B	0.36	0.021	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.038 U	0.36	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	85200	4400	56	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	8.4	0.89	0.085	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	3.1 B	4.4	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	10.5	2.2	0.49	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	8210	8.9	0.77	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	17.8	0.89	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	51000	440	4.6	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	202	1.3	0.036	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.0098 B	0.033	0.0072	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	9.0	3.6	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	670	440	7.6	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.31 U	0.89	0.31	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.11 U	0.44	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2720	440	2.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 U	0.89	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	21.6	0.89	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	24.3	1.8	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16752
- (4) Prep QC Batch: MP22493
- (5) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.10
 4

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-24	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 89.9
Project: IDOT 042 - IL 72, Hampshire, IL	

4.10
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	89.9		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-24A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 89.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Barium	0.32 B	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cadmium	0.00050 U	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cobalt	0.00070 B			0.050	0.00040	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Copper	0.011 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Iron	0.073 B			0.10	0.020	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Manganese	0.47			0.015	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.0060 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Selenium	0.0056 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Zinc	0.023 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.11
4

Report of Analysis

Client Sample ID: AL13-10(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-24B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 89.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0097 B		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.63		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.00080 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00060 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.030		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0073 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.023 B		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	23.9		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.012		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.34		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.022 B		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.094 B		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.12
4

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-25	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63302.D	1	02/20/14	KD	n/a	n/a	MSM2220

Run #1	Initial Weight	Final Volume
Run #2	4.90 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.6	ug/kg	
71-43-2	Benzene	1.2	0.59	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.43	ug/kg	
75-25-2	Bromoform	ND	2.4	0.34	ug/kg	
74-83-9	Bromomethane	ND	2.4	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.32	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.71	ug/kg	
67-66-3	Chloroform	ND	2.4	0.34	ug/kg	
74-87-3	Chloromethane	ND	5.9	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.50	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	0.39	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	0.64	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.4	0.62	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.60	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.53	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.50	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.34	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.34	ug/kg	
100-41-4	Ethylbenzene	0.48	2.4	0.21	ug/kg	J
591-78-6	2-Hexanone	ND	12	2.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	0.47	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.9	2.2	ug/kg	
75-09-2	Methylene chloride	ND	2.4	1.8	ug/kg	
100-42-5	Styrene	ND	5.9	0.24	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.35	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.52	ug/kg	
108-88-3	Toluene	1.8	5.9	0.29	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.41	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-25	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.4	0.56	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.67	ug/kg	
1330-20-7	Xylene (total)	1.3	2.4	0.24	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114	
Lab Sample ID: MC28242-25	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37109.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	570	26	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	190	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2300	280	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1100	140	ug/kg	
95-48-7	2-Methylphenol	ND	1100	45	ug/kg	
106-44-5	4-Methylphenol	ND	1100	58	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	30	ug/kg	
100-02-7	4-Nitrophenol	ND	2300	210	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	80	ug/kg	
108-95-2	Phenol	ND	570	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	28	ug/kg	
83-32-9	Acenaphthene	ND	230	30	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	27	ug/kg	
56-55-3	Benzo(a)anthracene	43.5	230	29	ug/kg	J
50-32-8	Benzo(a)pyrene	42.8	230	24	ug/kg	J
205-99-2	Benzo(b)fluoranthene	43.8	230	28	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	47.8	230	23	ug/kg	J
207-08-9	Benzo(k)fluoranthene	36.6	230	34	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	570	29	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	570	23	ug/kg	
91-58-7	2-Chloronaphthalene	ND	570	31	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	28	ug/kg	
86-74-8	Carbazole	ND	230	27	ug/kg	
218-01-9	Chrysene	48.9	230	28	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	570	27	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	570	35	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	570	41	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	570	35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL13-12(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-25	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	570	29	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	570	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	570	30	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1100	76	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1100	28	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	570	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	27	ug/kg	
132-64-9	Dibenzofuran	ND	230	31	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	570	60	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	570	18	ug/kg	
84-66-2	Diethyl phthalate	ND	570	28	ug/kg	
131-11-3	Dimethyl phthalate	ND	570	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	570	21	ug/kg	
206-44-0	Fluoranthene	65.1	230	31	ug/kg	J
86-73-7	Fluorene	ND	230	30	ug/kg	
118-74-1	Hexachlorobenzene	ND	570	36	ug/kg	
87-68-3	Hexachlorobutadiene	ND	570	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	280	ug/kg	
67-72-1	Hexachloroethane	ND	570	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	32.0	230	25	ug/kg	J
78-59-1	Isophorone	ND	570	26	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	29	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	28	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	62	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	28	ug/kg	
91-20-3	Naphthalene	ND	230	37	ug/kg	
98-95-3	Nitrobenzene	ND	570	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	570	33	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	570	34	ug/kg	
85-01-8	Phenanthrene	32.0	230	31	ug/kg	J
129-00-0	Pyrene	68.9	230	27	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	570	31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	99%		30-130%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114 Lab Sample ID: MC28242-25 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.5
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	100%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-25	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	3.8	0.92	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	60.7	4.6	0.067	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.33 B	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.039 U	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	86400	4600	58	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	9.6	0.92	0.088	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	3.4 B	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	10.3	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	9880	9.2	0.80	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	36.3	0.92	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	53700	460	4.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	332	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.024 B	0.034	0.0075	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	7.9	3.7	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	764	460	7.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.46	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2960	460	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	15.8	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	36.8	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA16742

(2) Instrument QC Batch: MA16748

(3) Instrument QC Batch: MA16752

(4) Prep QC Batch: MP22493

(5) Prep QC Batch: MP22509

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114 Lab Sample ID: MC28242-25 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 86.5
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.5		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.6		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-25A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Barium	0.64	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.00090 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.00040 U			0.050	0.00040	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Manganese	0.67			0.015	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.0071 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0061 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Zinc	0.043 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-25B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.023		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.48 B		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0025 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0019 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.079		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.019 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.058		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	72.3		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.22		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	1.1		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.054		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.36		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D	
Lab Sample ID: MC28242-26	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 84.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63303.D	1	02/20/14	KD	n/a	n/a	MSM2220
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.60 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	5.0	ug/kg	
71-43-2	Benzene	1.3	0.64	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	0.47	ug/kg	
75-25-2	Bromoform	ND	2.6	0.37	ug/kg	
74-83-9	Bromomethane	ND	2.6	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	0.35	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.77	ug/kg	
67-66-3	Chloroform	ND	2.6	0.37	ug/kg	
74-87-3	Chloromethane	ND	6.4	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	0.43	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	0.70	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.6	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.6	0.65	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.6	0.57	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	0.37	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	0.37	ug/kg	
100-41-4	Ethylbenzene	0.42	2.6	0.23	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	0.51	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.4	2.4	ug/kg	
75-09-2	Methylene chloride	ND	2.6	2.0	ug/kg	
100-42-5	Styrene	ND	6.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	0.38	ug/kg	
127-18-4	Tetrachloroethene	ND	2.6	0.57	ug/kg	
108-88-3	Toluene	1.7	6.4	0.31	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.6	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	0.45	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28242-26	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.6	0.61	ug/kg	
75-01-4	Vinyl chloride	ND	2.6	0.73	ug/kg	
1330-20-7	Xylene (total)	1.2	2.6	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL13-12(0-1.5)-021114D	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-26	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37110.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.8 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	550	25	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	28	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	180	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2200	270	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1100	140	ug/kg	
95-48-7	2-Methylphenol	ND	1100	43	ug/kg	
106-44-5	4-Methylphenol	ND	1100	56	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	29	ug/kg	
100-02-7	4-Nitrophenol	ND	2200	200	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	77	ug/kg	
108-95-2	Phenol	ND	550	31	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	27	ug/kg	
83-32-9	Acenaphthene	ND	220	29	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	26	ug/kg	
56-55-3	Benzo(a)anthracene	36.3	220	28	ug/kg	J
50-32-8	Benzo(a)pyrene	42.0	220	24	ug/kg	J
205-99-2	Benzo(b)fluoranthene	44.0	220	27	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	44.6	220	22	ug/kg	J
207-08-9	Benzo(k)fluoranthene	39.2	220	33	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	550	28	ug/kg	
85-68-7	Butyl benzyl phthalate	26.7	550	22	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	550	30	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	27	ug/kg	
86-74-8	Carbazole	ND	220	26	ug/kg	
218-01-9	Chrysene	49.9	220	27	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	550	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	550	33	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	550	39	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	550	33	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL13-12(0-1.5)-021114D	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-26	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	550	28	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	550	31	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	550	29	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1100	73	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1100	27	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	550	55	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	26	ug/kg	
132-64-9	Dibenzofuran	ND	220	30	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	550	58	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	550	17	ug/kg	
84-66-2	Diethyl phthalate	ND	550	27	ug/kg	
131-11-3	Dimethyl phthalate	ND	550	32	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	550	20	ug/kg	
206-44-0	Fluoranthene	71.2	220	30	ug/kg	J
86-73-7	Fluorene	ND	220	29	ug/kg	
118-74-1	Hexachlorobenzene	ND	550	34	ug/kg	
87-68-3	Hexachlorobutadiene	ND	550	32	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	270	ug/kg	
67-72-1	Hexachloroethane	ND	550	26	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	31.4	220	24	ug/kg	J
78-59-1	Isophorone	ND	550	25	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	28	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	27	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	60	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	27	ug/kg	
91-20-3	Naphthalene	ND	220	35	ug/kg	
98-95-3	Nitrobenzene	ND	550	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	550	31	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	550	33	ug/kg	
85-01-8	Phenanthrene	37.0	220	30	ug/kg	J
129-00-0	Pyrene	66.7	220	26	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	550	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	91%		30-130%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D Lab Sample ID: MC28242-26 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 84.7
---	--

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
629-94-7	Heneicosane	11.08	620	ug/kg	JN
	Total TIC, Semi-Volatile		620	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.16
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Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28242-26	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.19 B	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	4.8	0.94	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	53.1	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.32 B	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.040 U	0.37	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	97800	4700	59	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	12.2	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	3.6 B	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	10.2	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	10700	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	54.4	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	63200	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	415	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.021 B	0.037	0.0081	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	7.9	3.7	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	774	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	2780	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.12 U	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	18.0	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	39.2	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16752
- (4) Prep QC Batch: MP22493
- (5) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28242-26	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.7
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.7		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.6		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28242-26A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Barium	0.56	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cadmium	0.0010 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cobalt	0.00040 U			0.050	0.00040	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Copper	0.0094 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Manganese	0.31			0.015	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.0076 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Selenium	0.0068 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Zinc	0.048 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261.6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL13-12(0-1.5)-021114D	Date Sampled: 02/11/14
Lab Sample ID: MC28242-26B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0074 B		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.19 B		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.00030 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00050 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.020		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0029 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.015 B		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	11.5		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.041		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.22		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.0099 B		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.074 B		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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FED-EX Tracking #	Accutest Quote #	Matrix Codes
Accutest Job #	Accutest Job #	Matrix Codes
<p>Requested Analysis (see TEST CODE sheet)</p> <p style="text-align: center;"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OJ - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </p>		<p>Matrix Codes</p> <p>DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OJ - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank</p>
<p>LAB USE ONLY</p>		

Client / Reporting Information		Project Information						Requested Analysis (see TEST CODE sheet)																	
Company Name Wesbon		Project Name IBOT-042 Hampshire						<p style="text-align: center;"> 110CS 5NDCS Total Metals TSP/SPLP metals PH </p>																	
Street Address 750 E. Boulder Ct Ste 500		Street Jennon Hills FL 30061																							
City Jennon Hills FL 30061		Billing Information (If different from Report to)																							
Project Contact S. Babusahumar		Company Name																							
Phone # 817-918-4018		Street Address																							
Fax #		City						State						Zip											
Sampler(s) Name(s) T. Williams		Project Manager						Attention:						PO#											
Accutest Sample #	Field ID / Point of Collection	MECHUDI Val #	Collection				Matrix	# of bottles	Number of preserved Bottles																
			Date	Time	Sampled by				HCl	NH ₃ H	INCO	USEDA	NONE	Dl Water	MESH	ENCORE	Boat/Bottle								
-1	AL19-6(0-1.5)-021014		2-10-14	0910	TW	S	3											X	X	X	X	X			
-2	AL19-8(0-1.5)-021014			0910																					
-3	RE20-2(0-1.5)-021014			0945																					
-4	AL19-8(0-1.5)-021014			1005																					
-5	PG-1(0-1.5)-021014			1025																					
-6	PG-3(0-1.5)-021014			1040																					
-7	AL13-14(0-1.5)-021014			1100																					
-8	AL13-16(0-1.5)-021014			1115																					
-9	AL13-18(0-1.5)-021014			1135																					110
-10	AL13-20(0-1.5)-021014			1155																					
-11	AL13-22(0-1.5)-021014			1215																					
-12	AL13-24(0-1.5)-021014		2-10-14	1230	TW	S	3																		

Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information		Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days	<input type="checkbox"/> Std. 5 Business Days (By Contract only)			<input type="checkbox"/> Commercial "A" (Level 1)	<input type="checkbox"/> NYASP Category A		
<input type="checkbox"/> 5 Day RUSH	<input type="checkbox"/> 3 Day EMERGENCY			<input type="checkbox"/> Commercial "B" (Level 2)	<input type="checkbox"/> NYASP Category B		
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> 1 Day EMERGENCY			<input type="checkbox"/> FULLT1 (Level 3+4)	<input type="checkbox"/> State Forms		
Emergency & Rush T/A data available VIA Lablink				<input type="checkbox"/> CT RCP	<input type="checkbox"/> EDD Format		
				<input type="checkbox"/> MA MCP	<input type="checkbox"/> Other		
				Commercial "A" = Results Only Commercial "B" = Results + QC Summary			

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 [Signature]	Date Time: 2-11-14/1538	Received By: [Signature]	Date Time: 2-11-14 3:41	Relinquished By: 2 FEO	Date Time: 2-12-14	Received By: 2 [Signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Date Time:	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Date Time:	Custody Seal #	<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not intact	

On Ice: 10-11-38-20

CHICAGO SC

5.1
5

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

Client / Reporting Information		Project Information						Requested Analysis (see TEST CODE sheet)											Matrix Codes			
Company Name Woston		Project Name IDOT-042 Hampshire						<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SNOs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP/SPLP Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> </div>											DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank			
Street Address 750 E. Banker Ct Ste 500		Street																				
City State Zip Deerfield IL 60015		Billing Information (If different from Report to)																				
Project Contact S. Subramanian		Company Name																				
Phone # Fax # 847-918-4018		Street Address																				
Sampler(s) Name(s) T. Walls		Project PO#		City State Zip		Attention: PO#																
Accutest Sample #	Field ID / Point of Collection	MECH/CI Viol #	Collection			Matrix	# of bottles	Number of preserved bottles											LAB USE ONLY			
			Date	Time	Sampled by			HCl	NH ₄ OH	HNO ₃	H ₂ SO ₄	HNO ₂	Dil Water	MESOH	ENCORE	Shrinker						
-13	AL13-26(0-1.5)-021014		2-10-14	1250	rw s	3												X	X	X	X	X
-14	AL13-26(0-1.5)-021014			250																		
-15	RE10-2(0-1.5)-021014			1310																		
-16	RE10-4(0-1.5)-021014			1330																		
-17	RE10-1(0-1.5)-021014			1415																		
-18	AL8-10(0-1.5)-021014			1430																		
-19	AL13-1(0-1.5)-021014			1445																		
-20	AL13-3(0-1.5)-021014			1520																		
-21	AL13-5(0-1.5)-021014			1525																		
-22	AL13-7(0-1.5)-021014		2-10-14	1540																		
-23	VL15-1(0-1.5)-021114		2-11-14	0825																		
-24	AL13-10(0-1.5)-021114		2-11-14	0835	rw s	3												X	X	X	X	X
Turnaround Time (Business Days)							Data Deliverable Information							Comments / Special Instructions								
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM) / Date:		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP			<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____															
Emergency & Rush TIA data available VIA Lablink																						
Sample Custody must be documented below each time samples change possession, including courier delivery.														CHICAGO SC								
Relinquished by Sampler: 1 T. Walls		Date Time: 2-11-14 / 1538		Received By: [Signature]		Date Time: 2-11-14 3:41		Relinquished By: 2 Fiona		Date Time: 2-11-14		Received By: 2 [Signature]										
Relinquished by Sampler: 3		Date Time:		Received By: 3		Date Time:		Relinquished By: 4		Date Time:		Received By: 4										
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable		On Ice Cooler Temp. 1.0-1.1-08-2.0								

5.1
5

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking # _____ B-Title Order Control # _____
Accutest Quote # _____ Accutest Job # **MC28242A**

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes								
Company Name Weston		Project Name IDOT-042 Hampshire				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SVOCs Total Metals TCRP/SPLP Metals PH </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>										LAB USE ONLY								
Street Address 750 E. Banker Ct. Ste 500		Billing Information (If different from Report to)																						
City, State, Zip Vernon Hills IL 60061		Company Name																						
Project Contact S. Babusinkumar		Street Address																						
Phone #, Fax # 047-918-4018		City, State, Zip																						
Sampler(s) Name(s) T. Wallis		Project Manager Matt McNeill																						
Access Sample #	Field ID / Point of Collection	MECH/CI Val #	Date	Time	Sampled By	Matrix	# of bottles	Number of preserved bottles																
								KCI	MSOH	MSO3	MS204	NONE	DI Water	MSOH	ENCORE	Bottle								
25	ALB-12(0-1.5)-021114		2-11-14	0915	TW	S	3										X	X	X	X	X			
26	AL13-12(0-1.5)-021114D			0915																				
27	FS18-1(0-1.5)-021114			0935																				
28	FS18-3(0-1.5)-021114			0950																				
29	AL19-1(0-1.5)-021114			1005																				
30	AL19-3(0-1.5)-021114			1025																				
31	AL19-5(0-1.5)-021114			1040																				
32	ALB-11(0-1.5)-021114			1130																				
33	ALB-13(0-1.5)-021114			1145																				
34	ALB-15(0-1.5)-021114			1200																				
35	ALB-17(0-1.5)-021114			1215																				
36	ALB-19(0-1.5)-021114		2-11-14	1240	TW	S	3										X	X	X	X	X			
Data Deliverable Information										Comments / Special Instructions														
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink					Approved By (Accutest PM) / Date: _____					<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary														
Sample Custody must be documented below each time samples change possession, including courier delivery.															CHICAGO SC									
Relinquished by Sampler: 1 T. Wallis		Date Time: 2-11-14/1538		Received By: <i>[Signature]</i>		Date Time: 2-11-14 5:41		Relinquished By: 2 FEDX		Date Time: 2-12-14		Received By: 2 <i>[Signature]</i>												
Relinquished by Sampler: 3		Date Time:		Received By: 3		Date Time:		Relinquished By: 4		Date Time:		Received By: 4												
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact		On Ice: 0-11-08-20 Cooler Temp:												

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Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28243A

Sampling Date: 02/10/14

Report to:

Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **87**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	AL13-8(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63314.D	1	02/20/14	KD	n/a	n/a	MSM2220
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.13 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	44.9	11	4.4	ug/kg	
71-43-2	Benzene	1.7	0.57	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.41	ug/kg	
75-25-2	Bromoform	ND	2.3	0.33	ug/kg	
74-83-9	Bromomethane	ND	2.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.31	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.68	ug/kg	
67-66-3	Chloroform	ND	2.3	0.33	ug/kg	
74-87-3	Chloromethane	ND	5.7	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.48	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	0.38	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	0.62	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.3	0.59	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.3	0.58	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	0.51	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.33	ug/kg	
100-41-4	Ethylbenzene	0.56	2.3	0.20	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.7	2.1	ug/kg	
75-09-2	Methylene chloride	ND	2.3	1.8	ug/kg	
100-42-5	Styrene	ND	5.7	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.50	ug/kg	
108-88-3	Toluene	2.7	5.7	0.28	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.40	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-8(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.7
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.3	0.54	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.65	ug/kg	
1330-20-7	Xylene (total)	1.7	2.3	0.23	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
107-81-3	Pentane, 2-bromo-	7.84	6.5	ug/kg	JN
110-54-3	Hexane	8.46	9.3	ug/kg	JN
10574-37-5	2-Pentene, 2,3-dimethyl-	11.18	7.9	ug/kg	JN
	Total TIC, Volatile		23.7	ug/kg	J

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4.1
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Report of Analysis

Client Sample ID:	AL13-8(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37090.D	1	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	94	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	72	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	15	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	15.3	120	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	14	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	16.6	120	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

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Report of Analysis

Client Sample ID:	AL13-8(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-21	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	25.3	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	14	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	14	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	23.1	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	71%		30-130%
118-79-6	2,4,6-Tribromophenol	88%		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

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Report of Analysis

Client Sample ID: AL13-8(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.7
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
13798-23-7	Sulfur	6.85	470	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	260	ug/kg	JN
	Total TIC, Semi-Volatile		730	ug/kg	J

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Report of Analysis

Client Sample ID: AL13-8(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-21	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	9840	19	3.4	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Antimony	0.14 U	0.96	0.14	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	7.3	0.96	0.20	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Barium	86.1	4.8	0.069	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.55	0.38	0.023	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.16 B	0.38	0.040	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Calcium	9010	480	6.0	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Chromium	14.1	0.96	0.091	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	6.5	4.8	0.045	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Copper	15.7	2.4	0.53	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Iron	16400	9.6	0.83	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Lead	20.7	0.96	0.16	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	6830	480	4.9	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Manganese	262	1.4	0.038	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.031 B	0.034	0.0076	mg/kg	1	02/18/14	02/19/14	SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	18.9	3.8	0.042	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Potassium	872	480	8.2	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.33 U	0.96	0.33	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.48	0.12	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Sodium	2750	480	3.2	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Strontium	9.9	0.96	0.029	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.14 B	0.96	0.13	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	22.9	0.96	0.13	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³
Zinc	44.2	1.9	0.15	mg/kg	1	02/17/14	02/18/14	EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16753
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.1
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Report of Analysis

Client Sample ID: AL13-8(0.5-1.5)-021014 Lab Sample ID: MC28243-21 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 85.7
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.7		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.7		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: AL13-8(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-21A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 B	D004	5.0	0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.94	D005	100	0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.0022 B	D006	1.0	0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.033 B			0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.010 B			0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	0.66			0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.014	D008	5.0	0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	7.9			0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.030 B			0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0076 B	D010	1.0	0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.055 B			0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16765
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22528
- (4) Prep QC Batch: MP22530

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID: AL13-8(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-21B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.7
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.038		0.010	0.0029	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Barium	0.71		0.50	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Beryllium	0.0029 B		0.0040	0.00025	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cadmium	0.0011 B		0.0040	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Chromium	0.079		0.010	0.0014	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Cobalt	0.024 B		0.050	0.00040	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Copper	0.068		0.025	0.0070	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Iron	82.6		0.10	0.020	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Lead	0.099		0.010	0.0017	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Manganese	1.1		0.015	0.00081	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Mercury	0.00015 B		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.084		0.040	0.00057	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Silver	0.0013 B		0.0050	0.0010	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²
Zinc	0.25		0.10	0.00050	mg/l	1	02/19/14	02/20/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16759
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22522
- (4) Prep QC Batch: MP22523

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.3
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # mc28243A
Client / Reporting Information	
Project Information	
Requested Analysis (see TEST CODE sheet)	
Matrix Codes	
DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
LAB USE ONLY	

Company Name Weston		Project Name IDOT-042	
Street Address 750 E Bunker Ct. Suite 500		Street IL 72	
City State Zip Vernon Hills, IL 60061		City Hampshire, IL	
Project Contact S. Babusukumar		Project #	
Phone # 847-918-4019		Client PO#	
Sampler(s) Name(s) Dan Cukierki: 224-895-0504		Project Manager	
Field ID / Point of Collection		MECH/ID/ Vial #	
Date		Time	
Sampled by		Matrix	
# of bottles		Number of preserved bottles	
HCL		HNO3	
H2SO4		H2O2	
NONE		DI Water	
MESH		ENCORE	
Bottle		Bottle	

Sample #	Field ID / Point of Collection	MECH/ID/ Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCL	HNO3	H2SO4	H2O2	NONE	DI Water	MESH	ENCORE	Bottle	Requested Analysis	Matrix Codes	
-1	RE20-1 (0.5-1.5)-021014	100	2/10/14	0940	DC	S	3										X	X	
-2	RE20-1 (0.5-1.5)-021014	100	2/10/14	0940	DC	S	3										X	X	
-3	AL19-9 (0.5-1.5)-021014		2/10/14	1005	DC	S	3										X	X	
-4	AL19-9 (0.5-1.5)-021014		2/10/14	1005	DC	S	3										X	X	
-5	PG-2 (0.5-1.5)-021014		2/10/14	1050	DC	S	3										X	X	
-6	FS16-1 (0.5-1.5)-021014		2/10/14	1105	DC	S	3										X	X	
-7	AL13-15 (0.5-1.5)-021014		2/10/14	1120	DC	S	3										X	X	
-8	AL13-17 (0.5-1.5)-021014		2/10/14	1145	DC	S	3										X	X	
-9	AL13-19 (0.5-1.5)-021014		2/10/14	1200	DC	S	3										X	X	11D
-10	AL13-21 (0.5-1.5)-021014		2/10/14	1220	DC	S	3										X	X	
-11	AL13-23 (0.5-1.5)-021014		2/10/14	1240	DC	S	3										X	X	
-12	AL13-25 (0.5-1.5)-021014		2/10/14	1300	DC	S	3										X	X	

Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information		Comments / Special Instructions	
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other		Commercial "A" = Results Only Commercial "B" = Results + QC Summary	
Emergency & Rush T/A data available VIA Lablink							

Sample Custody must be documented below each time samples change possession, including courier delivery.				CHICAGO SC			
Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:
1	2/11/14 1537	2/11/14 5:39	2-12-14	2	2-12-14	2	2-12-14
3		3		4		4	
5		5		Custody Seal #		Preserved where applicable	
				<input type="checkbox"/> Intact <input type="checkbox"/> Not intact		On Ice <input checked="" type="checkbox"/> Cooler Temp. 1.0-1.1-0.8-2.0	

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244

Sampling Date: 02/11/14

Report to:

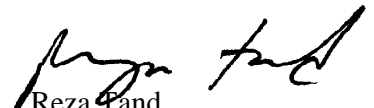
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	AL13-11(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63277.D	1	02/19/14	KD	n/a	n/a	MSM2219
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.35 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.9	3.9	ug/kg	
71-43-2	Benzene	1.8	0.50	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.36	ug/kg	
75-25-2	Bromoform	ND	2.0	0.29	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.97	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.9	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.27	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.60	ug/kg	
67-66-3	Chloroform	ND	2.0	0.29	ug/kg	
74-87-3	Chloromethane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.42	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.33	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.54	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.52	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.51	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.44	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.29	ug/kg	
100-41-4	Ethylbenzene	0.36	2.0	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	9.9	2.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.39	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.8	ug/kg	
75-09-2	Methylene chloride	2.6	2.0	1.5	ug/kg	
100-42-5	Styrene	ND	5.0	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.44	ug/kg	
108-88-3	Toluene	1.7	5.0	0.24	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-11(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 93.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.0	0.47	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.57	ug/kg	
1330-20-7	Xylene (total)	0.93	2.0	0.20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	85%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID:	AL13-11(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W17709.D	10	02/18/14	KR	02/14/14	OP36851	MSW778
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	2600	120	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	5200	130	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	5200	150	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	5200	850	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	10000	1300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	5200	660	ug/kg	
95-48-7	2-Methylphenol	ND	5200	210	ug/kg	
106-44-5	4-Methylphenol	ND	5200	270	ug/kg	
88-75-5	2-Nitrophenol	ND	5200	140	ug/kg	
100-02-7	4-Nitrophenol	ND	10000	980	ug/kg	
87-86-5	Pentachlorophenol	ND	5200	370	ug/kg	
108-95-2	Phenol	ND	2600	150	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	5200	130	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	5200	130	ug/kg	
83-32-9	Acenaphthene	ND	1000	140	ug/kg	
208-96-8	Acenaphthylene	ND	1000	100	ug/kg	
120-12-7	Anthracene	ND	1000	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1000	140	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1000	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1000	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1000	100	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1000	160	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2600	130	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2600	110	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2600	140	ug/kg	
106-47-8	4-Chloroaniline	ND	5200	130	ug/kg	
86-74-8	Carbazole	ND	1000	120	ug/kg	
218-01-9	Chrysene	ND	1000	130	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2600	120	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2600	160	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2600	190	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2600	160	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL13-11(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	93.9
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2600	140	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2600	150	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2600	140	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	5200	350	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	5200	130	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2600	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1000	120	ug/kg	
132-64-9	Dibenzofuran	ND	1000	140	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2600	280	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2600	82	ug/kg	
84-66-2	Diethyl phthalate	ND	2600	130	ug/kg	
131-11-3	Dimethyl phthalate	ND	2600	150	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2600	97	ug/kg	
206-44-0	Fluoranthene	ND	1000	140	ug/kg	
86-73-7	Fluorene	ND	1000	140	ug/kg	
118-74-1	Hexachlorobenzene	ND	2600	160	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2600	150	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	5200	1300	ug/kg	
67-72-1	Hexachloroethane	ND	2600	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1000	120	ug/kg	
78-59-1	Isophorone	ND	2600	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1000	130	ug/kg	
88-74-4	2-Nitroaniline	ND	5200	130	ug/kg	
99-09-2	3-Nitroaniline	ND	5200	290	ug/kg	
100-01-6	4-Nitroaniline	ND	5200	130	ug/kg	
91-20-3	Naphthalene	ND	1000	170	ug/kg	
98-95-3	Nitrobenzene	ND	2600	140	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2600	150	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	2600	160	ug/kg	
85-01-8	Phenanthrene	ND	1000	140	ug/kg	
129-00-0	Pyrene	ND	1000	120	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2600	140	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		30-130%
4165-62-2	Phenol-d5	42%		30-130%
118-79-6	2,4,6-Tribromophenol	53%		30-130%
4165-60-0	Nitrobenzene-d5	42%		30-130%
321-60-8	2-Fluorobiphenyl	45%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL13-11(0.5-1.5)-021114 Lab Sample ID: MC28244-3 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 93.9
---	--

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	54%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: AL13-11(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 93.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1830	17	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Antimony	0.13 U	0.87	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Arsenic	2.2	0.87	0.18	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Barium	10.1	4.4	0.063	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.11 B	0.35	0.021	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.037 U	0.35	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Calcium	115000	4400	55	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁵
Chromium	5.0	0.87	0.083	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cobalt	1.6 B	4.4	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Copper	7.9	2.2	0.48	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Iron	6320	8.7	0.76	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Lead	3.3	0.87	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Magnesium	66800	440	4.5	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Manganese	236	1.3	0.035	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Mercury	0.0074 U	0.034	0.0074	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.2	3.5	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Potassium	453	440	7.5	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Selenium	0.30 U	0.87	0.30	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Silver	0.11 U	0.44	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Sodium	2040	440	2.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Strontium	36.3	0.87	0.026	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Thallium	0.12 B	0.87	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Vanadium	21.3	0.87	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵
Zinc	12.8	1.7	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ²	SW846 3050B ⁵

- (1) Instrument QC Batch: MA16737
- (2) Instrument QC Batch: MA16742
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22491
- (5) Prep QC Batch: MP22492

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.7
 4

Report of Analysis

Client Sample ID: AL13-11(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 93.9
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.9		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.9		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.7
4

Report of Analysis

Client Sample ID: AL13-11(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-3A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 93.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Barium	0.25 B	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Cadmium	0.00050 U	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Chromium	0.0018 B	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Cobalt	0.0055 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14 EAL	SW846 6010C ³
Copper	0.0085 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Iron	0.42			0.10	0.020	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14 EAL	SW846 6010C ³
Manganese	1.6			0.015	0.00081	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.011 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14 EAL	SW846 6010C ³
Selenium	0.0089 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Silver	0.0012 B	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²
Zinc	0.032 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: AL13-11(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-3B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 93.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.049 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00025 U		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.0014 U		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.0070 U		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	0.038 B		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.0017 U		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.00081 U		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.00057 U		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.010 B		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.9
4



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 800 block of IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088245334 Longitude: -88.557331788

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088245334 Longitude: -88.557331788

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION VL15-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-15. SEE FIGURE 3-3 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242A

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

6/2/14

Date:



Seal:

Summary Table of ISGS Site No. 2780-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	VL15-1(0-1.5)-021114	Soil Reference Concentrations^A
Sample Date	2/11/2014	
Location ID	VL15-1	
Depth	0 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.1	<6.25,>9.0
VOCs (ug/kg)		
Acetone	33.4	25000
Xylene (Total)	0.51 J	5600
SVOCs (ug/kg)		
Fluoranthene	17.1 J	3100000
Pyrene	20.2 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	7.4	11.3 / 13
Barium, Total	78.3	1500
Beryllium, Total	0.65	22
Cadmium, Total	0.067 J	5.2
Calcium, Total	1740	---
Chromium, Total	16.2 J	21
Cobalt, Total	7.1	20
Copper, Total	12.8	2900
Iron, Total	17800 J	15000 / 15900
Lead, Total	11.9 J	107
Magnesium, Total	2810	325000
Manganese, Total	494 J	630 / 636
Mercury, Total	0.032 J	0.89
Nickel, Total	15.5 J	100
Potassium, Total	959	
Sodium, Total	3210	---
Vanadium, Total	31.5 J	550
Zinc, Total	39.9 J	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.74	2
Cadmium, TCLP	0.0006 J	0.005
Cobalt, TCLP	0.0009 J	1
Copper, TCLP	0.011 J	0.65
Iron, TCLP	0.11	5
Manganese, TCLP	0.78	0.15
Nickel, TCLP	0.0043 J	0.1
Selenium, TCLP	0.0053 J	0.05
Zinc, TCLP	0.033 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.044	0.05
Barium, SPLP	1.1	2
Beryllium, SPLP	0.0054	0.004
Cadmium, SPLP	0.002 J	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.038 J	1
Copper, SPLP	0.11	0.65
Iron, SPLP	151	5
Lead, SPLP	0.13	0.0075
Manganese, SPLP	2.5	0.15
Mercury, SPLP	0.00029	0.002
Nickel, SPLP	0.13	0.1
Zinc, SPLP	0.49	5

Summary Table of ISGS Site No. 2780-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242A

Sampling Dates: 02/10/14 - 02/11/14

Report to:

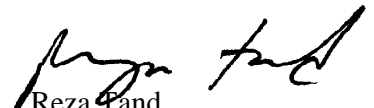
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **273**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114	
Lab Sample ID: MC28242-23	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 84.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63300.D	1	02/20/14	KD	n/a	n/a	MSM2220
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.02 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	33.4	15	5.7	ug/kg	
71-43-2	Benzene	ND	0.74	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	2.9	0.53	ug/kg	
75-25-2	Bromoform	ND	2.9	0.43	ug/kg	
74-83-9	Bromomethane	ND	2.9	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	4.6	ug/kg	
75-15-0	Carbon disulfide	ND	7.4	0.22	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.9	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	2.9	0.40	ug/kg	
75-00-3	Chloroethane	ND	7.4	0.88	ug/kg	
67-66-3	Chloroform	ND	2.9	0.43	ug/kg	
74-87-3	Chloromethane	ND	7.4	1.8	ug/kg	
124-48-1	Dibromochloromethane	ND	2.9	0.63	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.9	0.49	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.9	0.80	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.9	0.77	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.9	0.75	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.9	0.66	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.9	0.62	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.9	0.43	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.9	0.43	ug/kg	
100-41-4	Ethylbenzene	ND	2.9	0.26	ug/kg	
591-78-6	2-Hexanone	ND	15	3.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.9	0.58	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.4	2.7	ug/kg	
75-09-2	Methylene chloride	ND	2.9	2.3	ug/kg	
100-42-5	Styrene	ND	7.4	0.30	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.9	0.43	ug/kg	
127-18-4	Tetrachloroethene	ND	2.9	0.65	ug/kg	
108-88-3	Toluene	ND	7.4	0.36	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.9	0.27	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.9	0.51	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.5
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.9	0.70	ug/kg	
75-01-4	Vinyl chloride	ND	2.9	0.84	ug/kg	
1330-20-7	Xylene (total)	0.51	2.9	0.30	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID:	VL15-1(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-23	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37105.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	95	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	73	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	13.6	290	12	ug/kg	JB
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	ND	120	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VL15-1(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-23	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	290	11	ug/kg	
206-44-0	Fluoranthene	17.1	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	150	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	15	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	18	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	20.2	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	68%		30-130%
118-79-6	2,4,6-Tribromophenol	83%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114 Lab Sample ID: MC28242-23 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 84.5
---	--

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
638-66-4	Octadecanal	11.65	290	ug/kg	JN
67860-04-2	Oxirane, heptadecyl-	12.45	270	ug/kg	JN
	Total TIC, Semi-Volatile		560	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.15 U	0.96	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	7.4	0.96	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	78.3	4.8	0.070	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.65	0.38	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.067 B	0.38	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	1740	480	6.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	16.2	0.96	0.091	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	7.1	4.8	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	12.8	2.4	0.53	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	17800	9.6	0.84	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	11.9	0.96	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	2810	480	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	494	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.032 B	0.036	0.0080	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	15.5	3.8	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	959	480	8.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.33 U	0.96	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.48	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3210	480	3.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.13 U	0.96	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	31.5	0.96	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	39.9	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16752
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.7
 4

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-23	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.5
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.5		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.1		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.7
4

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-23A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Barium	0.74	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cadmium	0.00060 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cobalt	0.00090 B			0.050	0.00040	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Copper	0.011 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Iron	0.11			0.10	0.020	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Manganese	0.78			0.015	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.0043 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Selenium	0.0053 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Zinc	0.033 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: VL15-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-23B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analized By	Method
Arsenic	0.044		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	1.1		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0054		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0020 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.15		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.038 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.11		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	151		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.13		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.5		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00029		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.13		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.49		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.9
4

FED-EX Tracking #		Accutest Job #	
Accutest Quote #		MC28242A	
Client / Reporting Information		Project Information	
Company Name <i>Wesdon</i>		Project Name <i>IBOT-042 Hampshire</i>	
Street Address <i>750 E. Boulder Ct Ste 500</i>		Street:	
City <i>Newton Hills IL 60061</i>		Billing Information (If different from Report to)	
Project Contact <i>S. Babusahumar</i>		Company Name	
Phone # <i>847-918-4018</i>		Street Address	
Fax #		City State Zip	
Sampler(s) Name(s) <i>T. Williams</i>		Project Manager	
Phone #		Attention:	
Project PO#		PO#	
Matrix		Requested Analysis (see TEST CODE sheet)	
MECHUDI Val #		Matrix Codes	
Date		DW - Drinking Water	
Time		GW - Ground Water	
Sampled by		WW - Water	
Matrix		SW - Surface Water	
# of bottles		SO - Soil	
HCl		SL - Sludge	
NH3		SED - Sediment	
INCO		OI - Oil	
TDS04		LIO - Other Liquid	
NONE		AIR - Air	
DI Water		SOL - Other Solid	
MECH		WP - Wipe	
ENCORE		FB - Field Blank	
Bottle#		EB - Equipment Blank	
		RB - Rinse Blank	
		TB - Trip Blank	
LAB USE ONLY			
-1 AL19-6(0-1.5)-021014		2-10-14 0910 TW S 3	
-2 AL19-8(0-1.5)-021014		0910	
-3 RE20-2(0-1.5)-021014		0945	
-4 AL19-8(0-1.5)-021014		1005	
-5 P6-1(0-1.5)-021014		1025	
-6 P6-3(0-1.5)-021014		1040	
-7 AL13-14(0-1.5)-021014		1100	
-8 AL13-16(0-1.5)-021014		1115	
-9 AL13-18(0-1.5)-021014		1135	
-10 AL13-20(0-1.5)-021014		1155	
-11 AL13-22(0-1.5)-021014		1215	
-12 AL13-24(0-1.5)-021014		2-10-14 1230 TW S 3	
Turnaround Time (Business days)		Data Deliverable Information	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other Commercial "A" = Results Only Commercial "B" = Results + QC Summary	
Approved By (Accutest PM): / Date:		Comments / Special Instructions	
Relinquished by Sampler: <i>1 T. Williams</i>		Date Time: <i>2-11-14/1538</i>	
Received By: <i>[Signature]</i>		Date Time: <i>2-11-14 3:41</i>	
Relinquished by Sampler: <i>3</i>		Date Time: <i>2-11-14 1538</i>	
Received By: <i>[Signature]</i>		Date Time: <i>2-12-14</i>	
Relinquished by Sampler: <i>5</i>		Date Time: <i>2-12-14</i>	
Received By: <i>[Signature]</i>		Date Time: <i>2-12-14</i>	
Custody Seal #		Preserved where applicable	
<input type="checkbox"/> Intact		<input type="checkbox"/> Preserved where applicable	
<input type="checkbox"/> Not intact		<input type="checkbox"/> Preserved where applicable	
On Ice		Copter Temp.	
<input checked="" type="checkbox"/> On Ice		<i>10-11-38-20</i>	

5.1
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MC28242A: Chain of Custody

Page 1 of 3



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

48W 130 block of IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088343393 Longitude: -88.551027855

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088343393 Longitude: -88.551027855

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATIONS PG-1, PG-2, AND PG-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2780-17. SEE FIGURE 3-4 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242 AND MC28243

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G

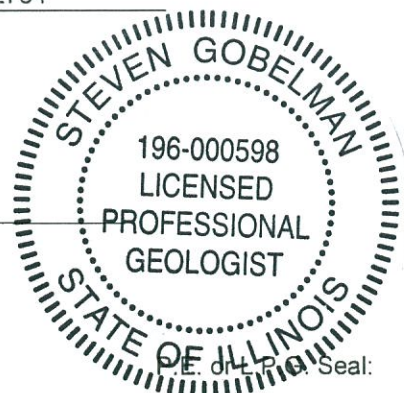
Printed Name:



 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14

 Date:



Summary Table of ISGS Site No. 2780-17
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	PG-1(0-1.5)-021014	PG-2(0.5-1.5)-021014	PG-3(0-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	
Location ID	PG-1	PG-2	PG-3	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter				
Laboratory pH (s.u.)	8.4	8.2	8.3	<6.25,>9.0
VOCs (ug/kg)				
Acetone	16.7	ND	ND	25000
Benzene	1.2	ND	1.1	30
Ethylbenzene	0.49 J	ND	0.51 J	13000
Toluene	1.7 J	ND	1.8 J	12000
Xylene (Total)	0.9 J	ND	1.1 J	5600
SVOCs (ug/kg)				
Benzo(a)anthracene	ND	ND	27.5 J	900 / 1100 / 1800
Benzo(a)pyrene	65 J	ND	28.1 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	29.6 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	61 J	ND	29.8 J	2300000
Benzo(k)fluoranthene	ND	ND	25.8 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	19.1 J	46000
Chrysene	85.2 J	ND	35.5 J	88000
Dibenzo(a,h)anthracene	ND	ND	13.3 J	90 / 200 / 420
Fluoranthene	101 J	39.1 J	42.8 J	3100000
Indeno(1,2,3-cd)pyrene	ND	ND	22.6 J	900 / 900 / 1600
Phenanthrene	ND	ND	29.7 J	210000
Pyrene	101 J	36.8 J	46.2 J	2300000
Total Metals (mg/kg)				
Aluminum, Total	4330	11500 J	6640	---
Antimony, Total	0.13 J	ND	ND	5
Arsenic, Total	4.7	7.4	4.6	11.3 / 13
Barium, Total	62.3	120 J	62.5	1500
Beryllium, Total	0.28 J	0.71 J	0.37	22
Cadmium, Total	ND	0.13 J	0.053 J	5.2
Calcium, Total	122000	3970 J	83300	---
Chromium, Total	11.1	16.9 J	11	21
Cobalt, Total	3.9 J	8.4 J	5.5	20
Copper, Total	9.4	18.4	11.5	2900
Iron, Total	8340	17500 J	10800	15000 / 15900
Lead, Total	22.1	15.9 J	26.5	107
Magnesium, Total	79100	4510 J	51500	325000
Manganese, Total	540	605 J	462	630 / 636
Mercury, Total	0.044	0.018 J	0.048	0.89
Nickel, Total	8.1	20.8 J	10.6	100
Potassium, Total	746	905 J	797	---
Sodium, Total	1940	3630 J	3360	---
Strontium, Total	43.1	15.4 J	33.1	---
Thallium, Total	0.26 J	ND	0.23 J	2.6
Vanadium, Total	14	27.5 J	18	550
Zinc, Total	31.2	44.4 J	42.7	5100

Summary Table of ISGS Site No. 2780-17
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	PG-1(0-1.5)-021014	PG-2(0.5-1.5)-021014	PG-3(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/10/2014	2/10/2014	2/10/2014	
Location ID	PG-1	PG-2	PG-3	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter				
TCLP Metals (mg/l)				
Barium, TCLP	0.73	0.72	0.85	2
Beryllium, TCLP	ND	0.0003 J	ND	0.004
Cadmium, TCLP	0.0011 J	0.0006 J	0.0018 J	0.005
Chromium, TCLP	ND	0.0014 J	ND	0.1
Cobalt, TCLP	0.016 J	0.0019 J	0.015 J	1
Iron, TCLP	ND	0.2	ND	5
Manganese, TCLP	4.4	1.3	4.8	0.15
Nickel, TCLP	0.014 J	0.013 J	0.017 J	0.1
Selenium, TCLP	0.0059 J	0.0051 J	0.0051 J	0.05
Silver, TCLP	0.0011 J	ND	0.0011 J	0.05
Zinc, TCLP	0.099 J	0.03 J	0.047 J	5
SPLP Metals (mg/l)				
Arsenic, SPLP	0.015	0.046	0.025	0.05
Barium, SPLP	0.29 J	0.9	0.53	2
Beryllium, SPLP	0.001 J	0.0033 J	0.0016 J	0.004
Cadmium, SPLP	0.0005 J	0.0015 J	0.0007 J	0.005
Chromium, SPLP	0.033	0.095	0.053	0.1
Cobalt, SPLP	ND	0.02 J	ND	1
Copper, SPLP	0.024 J	0.091	0.044	0.65
Iron, SPLP	22.2	104	45.4	5
Lead, SPLP	0.046	0.075	0.069	0.0075
Manganese, SPLP	0.28	0.92	0.46	0.15
Mercury, SPLP	ND	0.00014 J	ND	0.002
Nickel, SPLP	0.022 J	0.092	0.04	0.1
Selenium, SPLP	ND	ND	0.0061 J	0.05
Silver, SPLP	ND	0.0025 J	ND	0.05
Zinc, SPLP	0.12	0.29 J	0.16	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242

Sampling Date: 02/10/14

Report to:

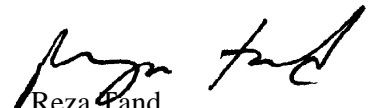
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **305**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014	
Lab Sample ID: MC28242-5	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63203.D	1	02/14/14	KD	n/a	n/a	MSM2216
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.51 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	16.7	10	4.0	ug/kg	
71-43-2	Benzene	1.2	0.51	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.37	ug/kg	
75-25-2	Bromoform	ND	2.1	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.1	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.28	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.61	ug/kg	
67-66-3	Chloroform	ND	2.1	0.30	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	0.56	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.46	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.30	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.30	ug/kg	
100-41-4	Ethylbenzene	0.49	2.1	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	1.9	ug/kg	
75-09-2	Methylene chloride	ND	2.1	1.6	ug/kg	
100-42-5	Styrene	ND	5.1	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.45	ug/kg	
108-88-3	Toluene	1.7	5.1	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014		Date Sampled: 02/10/14
Lab Sample ID: MC28242-5		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 88.5
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.1	0.49	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.58	ug/kg	
1330-20-7	Xylene (total)	0.90	2.1	0.21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID:	PG-1(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-5	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37070.D	5	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	63	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	71	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	460	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5600	700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	350	ug/kg	
95-48-7	2-Methylphenol	ND	2800	110	ug/kg	
106-44-5	4-Methylphenol	ND	2800	140	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	75	ug/kg	
100-02-7	4-Nitrophenol	ND	5600	520	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	200	ug/kg	
108-95-2	Phenol	ND	1400	79	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	70	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	69	ug/kg	
83-32-9	Acenaphthene	ND	560	75	ug/kg	
208-96-8	Acenaphthylene	ND	560	56	ug/kg	
120-12-7	Anthracene	ND	560	67	ug/kg	
56-55-3	Benzo(a)anthracene	ND	560	72	ug/kg	
50-32-8	Benzo(a)pyrene	65.0	560	60	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	560	70	ug/kg	
191-24-2	Benzo(g,h,i)perylene	61.0	560	56	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	560	84	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	71	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	57	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	76	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	70	ug/kg	
86-74-8	Carbazole	ND	560	66	ug/kg	
218-01-9	Chrysene	85.2	560	69	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	66	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	85	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	86	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PG-1(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-5	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1400	72	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	80	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1400	74	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	70	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	140	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	560	67	ug/kg	
132-64-9	Dibenzofuran	ND	560	77	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	44	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	70	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	81	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	52	ug/kg	
206-44-0	Fluoranthene	101	560	76	ug/kg	J
86-73-7	Fluorene	ND	560	74	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	87	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	81	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	560	62	ug/kg	
78-59-1	Isophorone	ND	1400	64	ug/kg	
91-57-6	2-Methylnaphthalene	ND	560	71	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	70	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	150	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	70	ug/kg	
91-20-3	Naphthalene	ND	560	90	ug/kg	
98-95-3	Nitrobenzene	ND	1400	75	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	80	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	84	ug/kg	
85-01-8	Phenanthrene	ND	560	76	ug/kg	
129-00-0	Pyrene	101	560	66	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	1400	77	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		30-130%
4165-62-2	Phenol-d5	60%		30-130%
118-79-6	2,4,6-Tribromophenol	77%		30-130%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014 Lab Sample ID: MC28242-5 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 88.5
---	--

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.13
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4330	18	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Antimony	0.13 B	0.89	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Arsenic	4.7	0.89	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Barium	62.3	4.4	0.065	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.28 B	0.36	0.021	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.038 U	0.36	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Calcium	122000	4400	56	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁵
Chromium	11.1	0.89	0.085	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cobalt	3.9 B	4.4	0.042	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Copper	9.4	2.2	0.49	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Iron	8340	8.9	0.77	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Lead	22.1	0.89	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Magnesium	79100	440	4.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Manganese	540	1.3	0.036	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Mercury	0.044	0.035	0.0078	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.1	3.6	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Potassium	746	440	7.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Selenium	0.31 U	0.89	0.31	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Silver	0.11 U	0.44	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Sodium	1940	440	2.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Strontium	43.1	0.89	0.027	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Thallium	0.26 B	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Vanadium	14.0	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Zinc	31.2	1.8	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22486
- (5) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.13
4

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.5		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.4		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-5A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.73	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.016 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	4.4			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.014 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0059 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0011 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.099 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PG-1(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-5B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.5
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.015		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.29 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0010 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00050 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.033		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.024 B		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	22.2		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.046		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.28		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.022 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.12		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.15
4

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014	
Lab Sample ID: MC28242-6	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 90.0
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63204.D	1	02/14/14	KD	n/a	n/a	MSM2216
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.88 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.4	3.7	ug/kg	
71-43-2	Benzene	1.1	0.47	0.23	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.34	ug/kg	
75-25-2	Bromoform	ND	1.9	0.27	ug/kg	
74-83-9	Bromomethane	ND	1.9	0.92	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.4	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.25	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.57	ug/kg	
67-66-3	Chloroform	ND	1.9	0.27	ug/kg	
74-87-3	Chloromethane	ND	4.7	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.40	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.9	0.31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.9	0.51	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.9	0.49	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.48	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.40	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.27	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.28	ug/kg	
100-41-4	Ethylbenzene	0.51	1.9	0.17	ug/kg	J
591-78-6	2-Hexanone	ND	9.4	2.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.9	0.37	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.7	1.7	ug/kg	
75-09-2	Methylene chloride	ND	1.9	1.5	ug/kg	
100-42-5	Styrene	ND	4.7	0.19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.28	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.42	ug/kg	
108-88-3	Toluene	1.8	4.7	0.23	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.33	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.16
 4

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014		Date Sampled: 02/10/14
Lab Sample ID: MC28242-6		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 90.0
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.9	0.45	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.54	ug/kg	
1330-20-7	Xylene (total)	1.1	1.9	0.19	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.16
4

Report of Analysis

Client Sample ID:	PG-3(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-6	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	90.0
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37071.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	270	12	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	540	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	540	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	540	88	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	540	68	ug/kg	
95-48-7	2-Methylphenol	ND	540	22	ug/kg	
106-44-5	4-Methylphenol	ND	540	28	ug/kg	
88-75-5	2-Nitrophenol	ND	540	14	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	540	38	ug/kg	
108-95-2	Phenol	ND	270	15	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	540	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	540	13	ug/kg	
83-32-9	Acenaphthene	ND	110	14	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	27.5	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	28.1	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	29.6	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	29.8	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	25.8	110	16	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	270	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	270	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	270	15	ug/kg	
106-47-8	4-Chloroaniline	ND	540	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	35.5	110	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	270	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PG-3(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-6	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	90.0
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	270	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	270	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	540	36	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	540	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	13.3	110	13	ug/kg	J
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	8.5	ug/kg	
84-66-2	Diethyl phthalate	ND	270	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	19.1	270	10	ug/kg	J
206-44-0	Fluoranthene	42.8	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	540	140	ug/kg	
67-72-1	Hexachloroethane	ND	270	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	22.6	110	12	ug/kg	J
78-59-1	Isophorone	ND	270	12	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	540	14	ug/kg	
99-09-2	3-Nitroaniline	ND	540	30	ug/kg	
100-01-6	4-Nitroaniline	ND	540	14	ug/kg	
91-20-3	Naphthalene	ND	110	17	ug/kg	
98-95-3	Nitrobenzene	ND	270	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	16	ug/kg	
85-01-8	Phenanthrene	29.7	110	15	ug/kg	J
129-00-0	Pyrene	46.2	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	270	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-130%
4165-62-2	Phenol-d5	67%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014		Date Sampled: 02/10/14
Lab Sample ID: MC28242-6		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 90.0
Method: SW846 8270D SW846 3510C		
Project: IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.40	320	ug/kg	JN
57-11-4	Octadecanoic acid	9.11	250	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	290	ug/kg	JN
	Total TIC, Semi-Volatile		860	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.16
4

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-6	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 90.0
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6640	18	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Antimony	0.13 U	0.89	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Arsenic	4.6	0.89	0.18	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Barium	62.5	4.4	0.065	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.37	0.36	0.021	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.053 B	0.36	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Calcium	83300	4400	56	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁵
Chromium	11.0	0.89	0.084	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cobalt	5.5	4.4	0.042	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Copper	11.5	2.2	0.49	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Iron	10800	8.9	0.77	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Lead	26.5	0.89	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Magnesium	51500	440	4.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Manganese	462	1.3	0.036	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Mercury	0.048	0.035	0.0076	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	10.6	3.6	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Potassium	797	440	7.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Selenium	0.31 U	0.89	0.31	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Silver	0.11 U	0.44	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Sodium	3360	440	2.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Strontium	33.1	0.89	0.027	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Thallium	0.23 B	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Vanadium	18.0	0.89	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Zinc	42.7	1.8	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22486
- (5) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-6	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 90.0
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	90		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.3		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.16
4

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014 Lab Sample ID: MC28242-6A Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 90.0
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Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.85	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0018 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.015 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	4.8			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.017 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0051 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0011 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.047 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PG-3(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-6B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 90.0
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.025		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.53		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0016 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00070 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.053		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.044		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	45.4		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.069		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.46		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.040		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0061 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.16		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.18
4

Client / Reporting Information		Project Information						Requested Analysis (see TEST CODE sheet)											Matrix Codes																
Company Name Weston		Project Name IDOT-042 Hampshire						<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOCs SDOCs Total Metals TCU/SLP Metals PH </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> DW - Drinking Water GW - Ground Water W - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>											LAB USE ONLY																
Street Address 750 E. Bunler Ct Ste 500		Street: Neveon Hills IL 60061																																	
City State Zip Neveon Hills IL 60061		Billing Information (If different from Report to) Company Name Street Address City State Zip																																	
Project Contact S. Babushkumar		Project Manager Attention: PO#																																	
Phone # 847-918-4018		Project PO#																																	
Sampler(s) Name(s) T. Williams		MECH/DI Vial #		Collection Date Time		Sampled By Matrix # of bottles		Number of preserved Bottles HCl NH3 HNO3 H2SO4 NONE DI Water ENCORE Bubbles																											
Field ID / Point of Collection																																			
-1 AL19-6(0-1.5)-021014				2-10-14 0910		TW S 3		X X X X X																											
-2 AL19-8(0-1.5)-021014				0910																															
-3 RE20-2(0-1.5)-021014				0945																															
-4 AL19-8(0-1.5)-021014				1005																															
-5 PG-1(0-1.5)-021014				1025																															
-6 PG-3(0-1.5)-021014				1040																															
-7 AL13-14(0-1.5)-021014				1100																															
-8 AL13-16(0-1.5)-021014				1115																															
-9 AL13-18(0-1.5)-021014				1135																															
-10 AL13-20(0-1.5)-021014				1155																															
-11 AL13-22(0-1.5)-021014				1215																															
-12 AL13-24(0-1.5)-021014				2-10-14 1230		TW S 3		X X X X X																											
Turnaround Time (Business days)												Data Deliverable Information												Comments / Special Instructions											
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY												<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP												<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other											
Emergency & Rush T/A data available VIA Lablink												Commercial "A" = Results Only Commercial "B" = Results + QC Summary																							
Sample Custody must be documented below each time samples change possession, including courier delivery.												CHICAGO SC																							
Relinquished by Sampler: 1 T. Williams				Date Time: 2-11-14/1530				Received By: [Signature]				Date Time: 2-11-14 9:41				Relinquished By: 2 FEOX				Date Time: 2-12-14				Received By: [Signature]											
Relinquished by Sampler: 3				Date Time:				Received By: 3				Date Time:				Relinquished By: 4				Date Time:				Received By: 4											
Relinquished by: 5				Date Time:				Received By: 5				Date Time:				Custody Seal #				<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact				<input type="checkbox"/> Preserved where applicable <input checked="" type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp. 10-1-28-20											

5.1 5

FED-Ex Tracking #	Boite Order Control #
Accutest Quote #	Accutest Job # MC28242

Client / Reporting Information				Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name Woraton				Project Name IDOT-042 Hampshire										<div style="display: flex; flex-direction: column; align-items: center;"> <p>SOCs</p> <p>SOCs</p> <p>Total Metals</p> <p>TCLP/SPLP metals</p> <p>DH</p> </div>										DW - Drinking Water GW - Ground Water LW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address 750 E. Banker Ct Ste 500				Billing Information (if different from Report to)																					
City State Zip Nevan Hills IL 60061				Company Name																					
Project Contact S. Babusikumar				Street Address																					
Phone # Fax # 847-918-4018				City State Zip																					
Sampler(s) Name(s) Phone # T. Walls				Client PO#																					
				Project Manager Matt Maxwell																					
				Attention: PO#																					
				Collection																					
				Number of preserved bottles																					
Account Service #	Field ID / Point of Collection	MECHDI Val #	Date	Time	Sampled by	Matrix	# of bottles	ICI	INCH	INCS	INSDA	INONE	ID Water	MECH	EMC/RE	Blindfold	LAB USE ONLY								
-13	AL13-26(0-1.5)-021014		2-10-14	1250	rw	S	3										X	X	X	X	X				
-14	AL13-21(0-1.5)-021014			1250																					
-15	RE10-2(0-1.5)-021014			1310																					
-16	RE10-4(0-1.5)-021014			1330																					
-17	RE10-1(0-1.5)-021014			1415																					
-18	AL8-10(0-1.5)-021014			1430																					
-19	AL13-1(0-1.5)-021014			1445																					
-20	AL13-3(0-1.5)-021014			1520																					
-21	AL13-5(0-1.5)-021014			1525																					
-22	AL13-7(0-1.5)-021014		2-10-14	1540																					
-23	VL15-1(0-1.5)-021114		2-11-14	0825	rw	S	3										X	X	X	X	X				
-24	AL13-10(0-1.5)-021114		2-11-14	0835	rw	S	3										X	X	X	X	X				
Turnaround Time (Business days)										Data Deliverable Information										Comments / Special Instructions					
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>				Approved By (Accutest PM): / Date:				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP				<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>													
Sample Custody must be documented below each time samples change possession, including courier delivery.										CHICAGO SC															
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:									
1 T. Walls		2-11-14 1538		Matt Maxwell		2-11-14 341		F. Ivo		2-11-14		Stephanie													
3				3				4				4													
Relinquished by:		Date Time:		Received By:		Date Time:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable		On Ice		Cooler Temp:									
5				5										<input checked="" type="checkbox"/>		1.0-1.1-08-2.0									

5.1 5

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28243

Sampling Date: 02/10/14

Report to:

Weston Solutions, Inc.

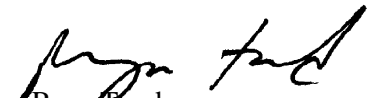
Andris.Slesers@WestonSolutions.com

ATTN: Andris Slesers

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	
Lab Sample ID: MC28243-5	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63249.D	1	02/18/14	KD	n/a	n/a	MSM2218

Run #1	Initial Weight	Final Volume
Run #2	4.78 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.8	ug/kg	
71-43-2	Benzene	ND	0.61	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.45	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.35	ug/kg	
74-87-3	Chloromethane	ND	6.1	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	ND	2.5	0.22	ug/kg	
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.1	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.1	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.54	ug/kg	
108-88-3	Toluene	ND	6.1	0.30	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	2.5	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	
Lab Sample ID: MC28243-5	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17736.D	1	02/18/14	KR	02/14/14	OP36843	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	580	26	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1200	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1200	34	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1200	190	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	2300	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1200	150	ug/kg	
95-48-7	2-Methylphenol	ND	1200	46	ug/kg	
106-44-5	4-Methylphenol	ND	1200	60	ug/kg	
88-75-5	2-Nitrophenol	ND	1200	31	ug/kg	
100-02-7	4-Nitrophenol	ND	2300	220	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	82	ug/kg	
108-95-2	Phenol	ND	580	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1200	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1200	29	ug/kg	
83-32-9	Acenaphthene	ND	230	31	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	28	ug/kg	
56-55-3	Benzo(a)anthracene	ND	230	30	ug/kg	
50-32-8	Benzo(a)pyrene	ND	230	25	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	230	29	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	35	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	580	30	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	580	24	ug/kg	
91-58-7	2-Chloronaphthalene	ND	580	32	ug/kg	
106-47-8	4-Chloroaniline	ND	1200	29	ug/kg	
86-74-8	Carbazole	ND	230	28	ug/kg	
218-01-9	Chrysene	ND	230	29	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	580	27	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	580	36	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	580	42	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	580	36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PG-2(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-5	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	580	30	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	580	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	580	31	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1200	78	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1200	29	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	580	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	28	ug/kg	
132-64-9	Dibenzofuran	ND	230	32	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	580	62	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	580	18	ug/kg	
84-66-2	Diethyl phthalate	ND	580	29	ug/kg	
131-11-3	Dimethyl phthalate	ND	580	34	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	42.6	580	22	ug/kg	J
206-44-0	Fluoranthene	39.1	230	32	ug/kg	J
86-73-7	Fluorene	ND	230	31	ug/kg	
118-74-1	Hexachlorobenzene	ND	580	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	580	34	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1200	290	ug/kg	
67-72-1	Hexachloroethane	ND	580	28	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	26	ug/kg	
78-59-1	Isophorone	ND	580	27	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	30	ug/kg	
88-74-4	2-Nitroaniline	ND	1200	29	ug/kg	
99-09-2	3-Nitroaniline	ND	1200	64	ug/kg	
100-01-6	4-Nitroaniline	ND	1200	29	ug/kg	
91-20-3	Naphthalene	ND	230	37	ug/kg	
98-95-3	Nitrobenzene	ND	580	32	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	580	33	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	580	35	ug/kg	
85-01-8	Phenanthrene	ND	230	32	ug/kg	
129-00-0	Pyrene	36.8	230	27	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	580	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	70%		30-130%
118-79-6	2,4,6-Tribromophenol	89%		30-130%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	
Lab Sample ID: MC28243-5	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.13
4

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	11500	18	3.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	7.4	0.92	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	120	4.6	0.067	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.71	0.37	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.13 B	0.37	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	3970	460	5.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	16.9	0.92	0.088	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	8.4	4.6	0.043	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	18.4	2.3	0.51	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	17500	9.2	0.80	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	15.9	0.92	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	4510	460	4.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	605	1.4	0.037	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.018 B	0.037	0.0082	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	20.8	3.7	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	905	460	7.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.46	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	3630	460	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Strontium	15.4	0.92	0.028	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	27.5	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	44.4	1.8	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Prep QC Batch: MP22489
- (4) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-5	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.2		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.2		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.13
4

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-5A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Barium	0.72	D005	100	0.50	0.00081	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Beryllium	0.00030 B			0.0040	0.00025	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Cadmium	0.00060 B	D006	1.0	0.0040	0.00050	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Chromium	0.0014 B	D007	5.0	0.010	0.0014	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Cobalt	0.0019 B			0.050	0.00040	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Iron	0.20			0.10	0.020	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Manganese	1.3			0.015	0.00081	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/17/14	02/18/14	SA SW846 7470A ¹
Nickel	0.013 B			0.040	0.00057	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Selenium	0.0051 B	D010	1.0	0.025	0.0048	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Zinc	0.030 B			0.10	0.00050	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16745
- (2) Instrument QC Batch: MA16750
- (3) Prep QC Batch: MP22498
- (4) Prep QC Batch: MP22501

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.14
4

Report of Analysis

Client Sample ID: PG-2(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-5B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.2
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.046		0.010	0.0029	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Barium	0.90		0.50	0.00081	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Beryllium	0.0033 B		0.0040	0.00025	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Cadmium	0.0015 B		0.0040	0.00050	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Chromium	0.095		0.010	0.0014	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Cobalt	0.020 B		0.050	0.00040	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Copper	0.091		0.025	0.0070	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Iron	104		0.10	0.020	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Lead	0.075		0.010	0.0017	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Manganese	0.92		0.015	0.00081	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Mercury	0.00014 B		0.00020	0.00010	mg/l	1	02/17/14	02/18/14 SA	SW846 7470A ¹
Nickel	0.092		0.040	0.00057	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Silver	0.0025 B		0.0050	0.0010	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Zinc	0.29		0.10	0.00050	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16746
- (2) Instrument QC Batch: MA16750
- (3) Prep QC Batch: MP22497
- (4) Prep QC Batch: MP22502

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.15
4



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

**Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)**

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

47W 800 to 48W 00-99 block of IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088337552 Longitude: -88.547880108

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088337552 Longitude: -88.547880108

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS AL19-1 THROUGH AL19-8 WERE SAMPLED ADJACENT TO ISGS SITE No. 2780-19. SEE FIGURE 3-4 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242, MC28242A, MC28243, AND MC28244

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

6/2/14
 Date:



Seal:

Summary Table of ISGS Site No. 2780-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL19-1(0-1.5)-021114	AL19-2(0.5-1.5)-021114	AL19-3(0-1.5)-021114	AL19-4(0.5-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL19-1	AL19-2	AL19-3	AL19-4	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH (s.u.)	8.8	8.8	8.4	8.8	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	30.5	ND	ND	25000
Benzene	ND	0.9	1.7	1.2	30
Ethylbenzene	ND	0.29 J	0.48 J	0.48 J	13000
Methylene chloride	ND	ND	ND	2.2	20
Toluene	ND	1 J	3.1 J	1.9 J	12000
Xylene (Total)	ND	0.5 J	2 J	1.1 J	5600
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	ND	18 J	ND	---
Anthracene	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	118 J	41.6 J	112 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	139 J	33.4 J	119 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	33.7 J	154 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	24 J	ND	2300000
Benzo(k)fluoranthene	ND	ND	26.3 J	108 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	19.8 J	ND	46000
Carbazole	ND	ND	ND	ND	600
Chrysene	ND	144 J	43.7 J	119 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	ND	225 J	56.7 J	233 J	3100000
Indeno(1,2,3-cd)pyrene	ND	ND	18.9 J	ND	900 / 900 / 1600
Phenanthrene	ND	123 J	29.7 J	128 J	210000
Pyrene	14.6 J	207 J	55.4 J	194 J	2300000
Total Metals (mg/kg)					
Aluminum, Total	na	7740	na	6050	---
Antimony, Total	ND	ND	ND	ND	5
Arsenic, Total	6.7	8.4	5.8	4.5	11.3 / 13
Barium, Total	125	57.9	64.8	64.6	1500
Beryllium, Total	0.55	1.1	0.4	0.34 J	22
Cadmium, Total	0.13 J	ND	0.12 J	ND	5.2
Calcium, Total	19200	80800	44600	71600	---
Chromium, Total	13.8 J	11.4 J	12.4 J	11 J	21
Cobalt, Total	6.2	4.9	5.2	4.2 J	20
Copper, Total	13.2	17.9	14.4	11.5	2900
Iron, Total	15300 J	15300 J	13300 J	11700 J	15000 / 15900
Lead, Total	16.8 J	48.6 J	105 J	42.7 J	107
Magnesium, Total	13500	49900	32300	44900	325000
Manganese, Total	643 J	260 J	486 J	395 J	630 / 636
Mercury, Total	0.03 J	0.021 J	0.016 J	0.014 J	0.89
Nickel, Total	13 J	12.1 J	10.7 J	9.2 J	100
Potassium, Total	835	937	760	770	---
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	3210	3460	2880	3280	---
Strontium, Total	na	30.7 J	na	28.8 J	---
Thallium, Total	ND	ND	ND	ND	2.6
Vanadium, Total	26 J	19.8	21.3 J	16.6	550
Zinc, Total	44.2 J	55.3 J	51.8 J	46.8 J	5100

Summary Table of ISGS Site No. 2780-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL19-1(0-1.5)-021114	AL19-2(0.5-1.5)-021114	AL19-3(0-1.5)-021114	AL19-4(0.5-1.5)-021114	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/11/2014	2/11/2014	2/11/2014	
Location ID	AL19-1	AL19-2	AL19-3	AL19-4	
Depth	0 - 1.5	0.5 - 1.5	0 - 1.5	0.5 - 1.5	
Parameter					
TCLP Metals (mg/l)					
Barium, TCLP	0.66	0.83	0.85	0.81	2
Cadmium, TCLP	0.001 J	0.002 J	0.0012 J	0.0015 J	0.005
Cobalt, TCLP	0.0019 J	0.038 J	0.0004 J	0.0006 J	1
Copper, TCLP	ND	0.011 J	0.01 J	0.012 J	0.65
Iron, TCLP	0.13	0.074 J	0.02 J	ND	5
Lead, TCLP	ND	0.0065 J	0.0022 J	ND	0.0075
Manganese, TCLP	1.8	4.6	0.71	1.1	0.15
Nickel, TCLP	0.0092 J	0.019 J	0.0061 J	0.013 J	0.1
Selenium, TCLP	0.0057 J	0.0088 J	0.007 J	0.0097 J	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.029 J	0.079 J	0.036 J	0.087 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.12	0.019	0.11	0.0092 J	0.05
Barium, SPLP	1.3	0.51	1.5	0.25 J	2
Beryllium, SPLP	0.011	0.0015 J	0.009	0.0008 J	0.004
Cadmium, SPLP	0.0027 J	0.001 J	0.003 J	0.0005 J	0.005
Chromium, SPLP	0.29	0.046	0.25	0.027	0.1
Cobalt, SPLP	0.092	0.015 J	0.063	0.007 J	1
Copper, SPLP	0.23	0.049	0.2	0.023 J	0.65
Iron, SPLP	356	45.6	293	20.6	5
Lead, SPLP	0.35	0.13	0.77	0.11	0.0075
Manganese, SPLP	3.1	0.52	2.6	0.41	0.15
Mercury, SPLP	0.00063	ND	0.00038	ND	0.002
Nickel, SPLP	0.23	0.038 J	0.19	0.02 J	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.87	0.22	0.82	0.12	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

 Shaded values indicate concentration **exceeds** Reference Concentration.

Summary Table of ISGS Site No. 2780-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL19-5(0-1.5)-021114	AL19-6(0-1.5)-021014	AL19-6(0-1.5)-021014D	AL19-7(0.5-1.5)-021014	AL19-8(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL19-5	AL19-6	AL19-6	AL19-7	AL19-8	
Depth	0 - 1.5	0 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter						
Laboratory pH (s.u.)	8.5	7.9	8	8.3	8.6	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Benzene	2.5	1.7	2	1.1	1.9	30
Ethylbenzene	0.78 J	0.81 J	0.72 J	0.63 J	0.81 J	13000
Methylene chloride	ND	ND	ND	ND	ND	20
Toluene	3.9 J	2.9 J	2.9 J	2.1 J	3 J	12000
Xylene (Total)	2.5 J	0.96 J	1.6 J	1.3 J	1.5 J	5600
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	15.5 J	---
Anthracene	ND	15.4 J	28.3 J	ND	ND	1.20E+07
Benzo(a)anthracene	28 J	79.5 J	126	ND	39.5 J	900 / 1100 / 1800
Benzo(a)pyrene	19.3 J	85.3 J	139	ND	31.7 J	90 / 1300 / 2100
Benzo(b)fluoranthene	19.7 J	105 J	164	ND	33 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	22.3 J	87 J	135	ND	28 J	2300000
Benzo(k)fluoranthene	ND	67.8 J	118 J	ND	27.6 J	9000
bis(2-Ethylhexyl)phthalate	ND	23.2 J	37.5 J	ND	14.2 J	46000
Carbazole	ND	ND	15.8 J	ND	ND	600
Chrysene	24.4 J	105 J	168	ND	43.5 J	88000
Dibenzo(a,h)anthracene	ND	ND	30.4 J	ND	ND	90 / 200 / 420
Fluoranthene	50.3 J	194	282	ND	62 J	3100000
Indeno(1,2,3-cd)pyrene	11.8 J	69 J	107 J	ND	20.8 J	900 / 900 / 1600
Phenanthrene	42.9 J	99.6 J	124	ND	44.4 J	210000
Pyrene	49 J	168	248	ND	67.8 J	2300000
Total Metals (mg/kg)						
Aluminum, Total	na	4780 J	8440 J	7000 J	6940	---
Antimony, Total	ND	0.61 J	0.23 J	0.22 J	0.17 J	5
Arsenic, Total	3.8	3.8	5.4	6.7	4.9	11.3 / 13
Barium, Total	69.8	60.2	80	78.4 J	55.6	1500
Beryllium, Total	0.31 J	0.31 J	0.47	0.41 J	0.38	22
Cadmium, Total	0.18 J	ND	0.12 J	0.057 J	ND	5.2
Calcium, Total	23300	102000 J	42700 J	47100 J	98200	---
Chromium, Total	9 J	10.3	12.7	11 J	10.4	21
Cobalt, Total	5 J	3.9 J	5.3	5.4 J	4.3 J	20
Copper, Total	10.1	10.9	14.1	13.9	11.7	2900
Iron, Total	9250 J	8640	12700	12600 J	10800	15000 / 15900
Lead, Total	61.1 J	53.4	62.8	36.1 J	32.6	107
Magnesium, Total	12900	58200	30200	32200 J	63400	325000
Manganese, Total	360 J	423	417	487 J	431	630 / 636
Mercury, Total	0.016 J	0.045	0.055	0.021 J	0.049	0.89
Nickel, Total	8.9	8.2	11.4	11.6 J	9.9	100
Potassium, Total	523	723	885	780 J	794	---
Selenium, Total	ND	0.35 J	ND	ND	ND	1.3
Sodium, Total	2020	2780	3670	2630 J	2550	---
Strontium, Total	na	35.8	25.4	25.1 J	34.7	---
Thallium, Total	0.2 J	0.26 J	ND	0.32 J	0.38 J	2.6
Vanadium, Total	15.6	14.8	19.9	20.4 J	17.5	550
Zinc, Total	43 J	40	47.6	41.4 J	30.6	5100

Summary Table of ISGS Site No. 2780-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	AL19-5(0-1.5)-021114	AL19-6(0-1.5)-021014	AL19-6(0-1.5)-021014D	AL19-7(0.5-1.5)-021014	AL19-8(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/11/2014	2/10/2014	2/10/2014	2/10/2014	2/10/2014	
Location ID	AL19-5	AL19-6	AL19-6	AL19-7	AL19-8	
Depth	0 - 1.5	0 - 1.5	0 - 1.5	0.5 - 1.5	0 - 1.5	
Parameter						
TCLP Metals (mg/l)						
Barium, TCLP	1	0.82	0.73	1	0.69	2
Cadmium, TCLP	0.0024 J	0.0015 J	0.0017 J	0.0011 J	0.0014 J	0.005
Cobalt, TCLP	0.0075 J	0.0016 J	0.0026 J	0.0029 J	0.0014 J	1
Copper, TCLP	0.013 J	0.012 J	ND	ND	0.011 J	0.65
Iron, TCLP	ND	0.071 J	ND	0.23	ND	5
Lead, TCLP	0.013	ND	0.0022 J	ND	ND	0.0075
Manganese, TCLP	5.4	1.4	1.8	2	1.1	0.15
Nickel, TCLP	0.019 J	0.0098 J	0.01 J	0.012 J	0.011 J	0.1
Selenium, TCLP	0.0056 J	ND	0.007 J	ND	0.0063 J	0.05
Silver, TCLP	ND	0.001 J	0.001 J	ND	0.0012 J	0.05
Zinc, TCLP	0.095 J	0.072 J	0.077 J	0.039 J	0.047 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.0097 J	0.02 J	0.0037 J	0.037	0.021	0.05
Barium, SPLP	0.27 J	0.35 J	0.036 J	0.99	0.41 J	2
Beryllium, SPLP	0.0006 J	0.0013 J	ND	0.0023 J	0.0012 J	0.004
Cadmium, SPLP	0.0008 J	0.0008 J	ND	0.0015 J	0.0007 J	0.005
Chromium, SPLP	0.026	0.044 J	0.0048 J	0.072	0.044	0.1
Cobalt, SPLP	0.0058 J	ND	ND	0.019 J	ND	1
Copper, SPLP	0.024 J	0.032 J	ND	0.06	0.035	0.65
Iron, SPLP	18.5	36.3 J	2.8 J	75.1	36	5
Lead, SPLP	0.095	0.11 J	0.011 J	0.093	0.095	0.0075
Manganese, SPLP	0.27	0.37 J	0.039 J	0.85	0.33	0.15
Mercury, SPLP	ND	ND	ND	0.00015 J	ND	0.002
Nickel, SPLP	0.017 J	0.029 J	0.0029 J	0.059	0.03 J	0.1
Selenium, SPLP	ND	ND	ND	ND	0.005 J	0.05
Silver, SPLP	ND	ND	ND	0.0024 J	ND	0.05
Zinc, SPLP	0.12	0.16	0.025 J	0.28 J	0.15	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242

Sampling Date: 02/10/14

Report to:

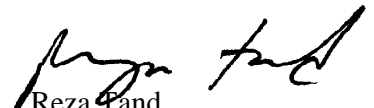
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **305**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63199.D	1	02/14/14	KD	n/a	n/a	MSM2216
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.70 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	4.8	ug/kg	
71-43-2	Benzene	1.7	0.62	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.45	ug/kg	
75-25-2	Bromoform	ND	2.5	0.36	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.8	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.33	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.2	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.41	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.67	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.63	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.52	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
100-41-4	Ethylbenzene	0.81	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	12	3.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.2	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.2	0.25	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.55	ug/kg	
108-88-3	Toluene	2.9	6.2	0.30	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.22	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.43	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
 4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.59	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.70	ug/kg	
1330-20-7	Xylene (total)	0.96	2.5	0.25	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID:	AL19-6(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-1	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37066.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	92	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	71	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	15.4	110	14	ug/kg	J
56-55-3	Benzo(a)anthracene	79.5	110	15	ug/kg	J
50-32-8	Benzo(a)pyrene	85.3	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	105	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	87.0	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	67.8	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	105	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-6(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-1	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	23.2	280	10	ug/kg	J
206-44-0	Fluoranthene	194	110	16	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	69.0	110	13	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	99.6	110	15	ug/kg	J
129-00-0	Pyrene	168	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		30-130%
4165-62-2	Phenol-d5	75%		30-130%
118-79-6	2,4,6-Tribromophenol	96%		30-130%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8270D SW846 3510C	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
1000333-19-5	cis-9-Hexadecenoic acid	8.35	300	ug/kg	JN
2416-20-8	Hexadecenoic acid, Z-11-	8.38	520	ug/kg	JN
57-10-3	n-Hexadecanoic acid	8.41	830	ug/kg	JN
506-17-2	cis-Vaccenic acid	9.05	520	ug/kg	JN
57-11-4	Octadecanoic acid	9.11	450	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	630	ug/kg	JN
544-76-3	Hexadecane	11.10	260	ug/kg	JN
661-19-8	Behenic alcohol	11.91	300	ug/kg	JN
630-04-6	Hentriacontane	12.67	230	ug/kg	JN
	Total TIC, Semi-Volatile		4040	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4780	18	3.2	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Antimony	0.61 B	0.91	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Arsenic	3.8	0.91	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Barium	60.2	4.5	0.066	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.31 B	0.36	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.038 U	0.36	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Calcium	102000	4500	57	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁵
Chromium	10.3	0.91	0.086	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cobalt	3.9 B	4.5	0.043	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Copper	10.9	2.3	0.50	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Iron	8640	9.1	0.79	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Lead	53.4	0.91	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Magnesium	58200	450	4.6	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Manganese	423	1.4	0.036	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Mercury	0.045	0.036	0.0080	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.2	3.6	0.040	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Potassium	723	450	7.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Selenium	0.35 B	0.91	0.31	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Silver	0.11 U	0.45	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Sodium	2780	450	3.0	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Strontium	35.8	0.91	0.027	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Thallium	0.26 B	0.91	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Vanadium	14.8	0.91	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Zinc	40.0	1.8	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22486
- (5) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.1
 4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.1		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	7.9		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.82	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0015 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0016 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.012 B			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.071 B			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	1.4			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.0098 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0048 U	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.072 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-1B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.020		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.35 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0013 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00080 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.044		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.032		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	36.3		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.11		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.37		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.029 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.16		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	
Lab Sample ID: MC28242-2	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 84.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63200.D	1	02/14/14	KD	n/a	n/a	MSM2216

Run #1	Initial Weight	Final Volume
Run #2	4.44 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	5.2	ug/kg	
71-43-2	Benzene	2.0	0.66	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.48	ug/kg	
75-25-2	Bromoform	ND	2.7	0.39	ug/kg	
74-83-9	Bromomethane	ND	2.7	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	4.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.6	0.20	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.36	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.79	ug/kg	
67-66-3	Chloroform	ND	2.7	0.38	ug/kg	
74-87-3	Chloromethane	ND	6.6	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	0.44	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	0.72	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.7	0.69	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.7	0.67	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.7	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.56	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.38	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.39	ug/kg	
100-41-4	Ethylbenzene	0.72	2.7	0.24	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	0.53	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.6	2.5	ug/kg	
75-09-2	Methylene chloride	ND	2.7	2.0	ug/kg	
100-42-5	Styrene	ND	6.6	0.27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.59	ug/kg	
108-88-3	Toluene	2.9	6.6	0.32	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.46	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.9
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.7	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.76	ug/kg	
1330-20-7	Xylene (total)	1.6	2.7	0.27	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID:	AL19-6(0-1.5)-021014D	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-2	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37067.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	580	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	580	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	580	94	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	580	72	ug/kg	
95-48-7	2-Methylphenol	ND	580	23	ug/kg	
106-44-5	4-Methylphenol	ND	580	30	ug/kg	
88-75-5	2-Nitrophenol	ND	580	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	580	41	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	580	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	580	14	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	28.3	120	14	ug/kg	J
56-55-3	Benzo(a)anthracene	126	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	139	120	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	164	120	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	135	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	118	120	18	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	580	14	ug/kg	
86-74-8	Carbazole	15.8	120	14	ug/kg	J
218-01-9	Chrysene	168	120	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-6(0-1.5)-021014D	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-2	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	580	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	580	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	30.4	120	14	ug/kg	J
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	37.5	290	11	ug/kg	J
206-44-0	Fluoranthene	282	120	16	ug/kg	
86-73-7	Fluorene	ND	120	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	580	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	107	120	13	ug/kg	J
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	580	14	ug/kg	
99-09-2	3-Nitroaniline	ND	580	32	ug/kg	
100-01-6	4-Nitroaniline	ND	580	14	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	124	120	16	ug/kg	
129-00-0	Pyrene	248	120	14	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-130%
4165-62-2	Phenol-d5	69%		30-130%
118-79-6	2,4,6-Tribromophenol	87%		30-130%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.9
Method: SW846 8270D SW846 3510C	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
1000333-19-5	cis-9-Hexadecenoic acid	8.35	310	ug/kg	JN
2416-20-8	Hexadecenoic acid, Z-11-	8.38	700	ug/kg	JN
57-10-3	n-Hexadecanoic acid	8.41	760	ug/kg	JN
693-71-0	trans-13-Octadecenoic acid	9.05	600	ug/kg	JN
57-11-4	Octadecanoic acid	9.11	360	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	470	ug/kg	JN
2425-54-9	Tetradecane, 1-chloro-	11.10	320	ug/kg	JN
638-66-4	Octadecanal	11.66	260	ug/kg	JN
1000351-80-7	Octadecyl pentafluoropropionate	11.91	460	ug/kg	JN
14811-95-1	1,19-Eicosadiene	12.47	330	ug/kg	JN
83-47-6	.gamma.-Sitosterol	13.98	990	ug/kg	JN
1058-61-3	Stigmast-4-en-3-one	14.79	600	ug/kg	JN
	Total TIC, Semi-Volatile		6160	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8440	19	3.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Antimony	0.23 B	0.93	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.4	0.93	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	80.0	4.6	0.067	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.47	0.37	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.12 B	0.37	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	42700	460	5.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	12.7	0.93	0.088	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	5.3	4.6	0.044	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	14.1	2.3	0.51	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	12700	9.3	0.81	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	62.8	0.93	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	30200	460	4.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	417	1.4	0.037	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.055	0.034	0.0075	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ³
Nickel	11.4	3.7	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	885	460	7.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.32 U	0.93	0.32	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.46	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	3670	460	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Strontium	25.4	0.93	0.028	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.12 U	0.93	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	19.9	0.93	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	47.6	1.9	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Prep QC Batch: MP22486
- (4) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.4
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-2	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.9
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.9		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.0		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.4
 4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-2A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.73	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0017 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0026 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0022 B	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	1.8			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.010 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0070 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.077 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.5
4

Report of Analysis

Client Sample ID: AL19-6(0-1.5)-021014D	Date Sampled: 02/10/14
Lab Sample ID: MC28242-2B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 84.9
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0037 B		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.036 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.00025 U		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00050 U		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.0048 B		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.0070 U		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	2.8		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.011		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.039		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.0029 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.025 B		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.6
4

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014	
Lab Sample ID: MC28242-4	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63202.D	1	02/14/14	KD	n/a	n/a	MSM2216
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.67 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.0	ug/kg	
71-43-2	Benzene	1.9	0.51	0.25	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.37	ug/kg	
75-25-2	Bromoform	ND	2.0	0.30	ug/kg	
74-83-9	Bromomethane	ND	2.0	0.99	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.28	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.61	ug/kg	
67-66-3	Chloroform	ND	2.0	0.29	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	0.34	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	0.55	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.52	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.46	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.43	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/kg	
100-41-4	Ethylbenzene	0.81	2.0	0.18	ug/kg	J
591-78-6	2-Hexanone	ND	10	2.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.1	1.9	ug/kg	
75-09-2	Methylene chloride	ND	2.0	1.6	ug/kg	
100-42-5	Styrene	ND	5.1	0.21	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.45	ug/kg	
108-88-3	Toluene	3.0	5.1	0.25	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.35	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-4	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.0	0.48	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.58	ug/kg	
1330-20-7	Xylene (total)	1.5	2.0	0.21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.49	11	ug/kg	JN
115-11-7	1-Propene, 2-methyl-	8.46	5.6	ug/kg	JN
6728-26-3	2-Hexenal, (E)-	11.18	6.6	ug/kg	JN
	Total TIC, Volatile		23.2	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-8(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-4	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37069.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	69	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	28	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	39.5	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	31.7	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	33.0	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	28.0	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	27.6	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	43.5	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-8(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-4	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	14.2	280	10	ug/kg	J
206-44-0	Fluoranthene	62.0	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20.8	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	15.5	110	14	ug/kg	J
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	30	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	44.4	110	15	ug/kg	J
129-00-0	Pyrene	67.8	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		30-130%
4165-62-2	Phenol-d5	66%		30-130%
118-79-6	2,4,6-Tribromophenol	85%		30-130%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014 Lab Sample ID: MC28242-4 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 86.4
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.40	390	ug/kg	JN
57-11-4	Octadecanoic acid	9.11	220	ug/kg	JN
301-02-0	9-Octadecenamide, (Z)-	9.87	370	ug/kg	JN
629-62-9	Pentadecane	11.10	260	ug/kg	JN
	Total TIC, Semi-Volatile		1240	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-4	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6940	18	3.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Antimony	0.17 B	0.92	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Arsenic	4.9	0.92	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Barium	55.6	4.6	0.067	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Beryllium	0.38	0.37	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cadmium	0.039 U	0.37	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Calcium	98200	4600	58	mg/kg	10	02/13/14	02/17/14	EAL SW846 6010C ³	SW846 3050B ⁵
Chromium	10.4	0.92	0.087	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Cobalt	4.3 B	4.6	0.043	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Copper	11.7	2.3	0.51	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Iron	10800	9.2	0.80	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Lead	32.6	0.92	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Magnesium	63400	460	4.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Manganese	431	1.4	0.037	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Mercury	0.049	0.035	0.0077	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	9.9	3.7	0.040	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Potassium	794	460	7.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Silver	0.11 U	0.46	0.11	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Sodium	2550	460	3.0	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Strontium	34.7	0.92	0.027	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Thallium	0.38 B	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Vanadium	17.5	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵
Zinc	30.6	1.8	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁵

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Instrument QC Batch: MA16748
- (4) Prep QC Batch: MP22486
- (5) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-4	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.4		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.6		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.10
4

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-4A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	0.69	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0014 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.0014 B			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.011 B			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	1.1			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.011 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0063 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0012 B	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.047 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.11
4

Report of Analysis

Client Sample ID: AL19-8(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-4B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.021		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.41 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0012 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00070 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.044		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.035		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	36.0		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.095		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.33		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.030 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0050 B		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.15		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.12
4

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes
Company Name Weslow		Project Name IDOT-042 Hampshire														DW - Drinking Water GW - Ground Water W-W - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address 750 E. Bunler Ct Ste 500		Street:														
City State Zip Nevron Hills IL 60061		Billing Information (If different from Report to)														
Project Contact S. Babushkumar		Company Name														
Phone # 847-918-4018		Street Address														
Fax #		City State Zip														
Sampler(s) Name(s) T. W. HS		Attention: PO#														
Phone #		Project Manager														
MECHDI: Vial #		Collection														
Field ID / Point of Collection		Date Time														
Sample #		Sampled by: Matrix # of bottles														
		Number of preserved bottles														
		HCl NH3 HNO3 H2SO4 NONE DI Water MCHRE Bubbles														
-1 AL19-6(0-1.5)-021014		2-10-14 0910 TW S 3				VOCs X SNOCs X Total Metals X TC/PC/SLP Metals X PH X										
-2 AL19-8(0-1.5)-021014		0910														
-3 RE20-2(0-1.5)-021014		0945														
-4 AL19-8(0-1.5)-021014		1005														
-5 PG-1(0-1.5)-021014		1025														
-6 PG-3(0-1.5)-021014		1040														
-7 AL13-14(0-1.5)-021014		1100														
-8 AL13-16(0-1.5)-021014		1115														
-9 AL13-18(0-1.5)-021014		1135														110
-10 AL13-20(0-1.5)-021014		1155														
-11 AL13-22(0-1.5)-021014		1215														
-12 AL13-24(0-1.5)-021014		2-10-14 1230 TW S 3				VOCs X SNOCs X Total Metals X TC/PC/SLP Metals X PH X										
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:				Data Deliverable Information										Comments / Special Instructions
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY						<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary										
Emergency & Rush T/A data available VIA Lablink																
Sample Custody must be documented below each time samples change possession, including courier delivery.														CHICAGO SC		
Relinquished by Sampler: 1 T. W. HS		Date Time: 2-11-14/1530		Received By: [Signature]		Date Time: 2-11-14 9:41		Relinquished By: 2 FEOX		Date Time: 2-12-14		Received By: [Signature]				
Relinquished by Sampler: 3		Date Time:		Received By: 3		Date Time:		Relinquished By: 4		Date Time:		Received By: 4				
Relinquished by: 5		Date Time:		Received By: 5		Date Time:		Custody Seal #		Intact <input type="checkbox"/> Not Intact <input type="checkbox"/>		Preserved where applicable <input type="checkbox"/>		On Ice <input checked="" type="checkbox"/> Copier Temp. 10-1-08-20		

5.1
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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC28242

Client / Reporting Information			Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name Weston			Project Name IDOT-042 Hampshire										<div style="display: flex; justify-content: space-around;"> <div>VOCs</div> <div>SVOCs</div> <div>Total Metals</div> <div>TCLP/SPLP Metals</div> <div>PH</div> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address 750 E. Banker Ct Ste 500			Billing Information (If different from Report to)																					
City Jermon Hills IL 60061			Company Name																					
Project Contact S. Babusini Kumar			Street Address																					
Phone # 847-918-4018			City State Zip																					
Sampler(s) Name(s) T. Wallis			Project Manager Matt Murrell										Attention: FOR											
Accutest Sample #	Field ID / Point of Collection	MECH/DI Val #	Collection						Number of preserved bottles										LAB USE ONLY					
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNOC	HSO4	NONE	DI Water	MEOH	ENCLOSURE	Insulation								
25	ALB-12(0-1.5)-021114		2-11-14	0915	TW	S	3												X	X	X	X	X	
26	AL13-12(0-1.5)-021114D			0915																				
27	FS18-1(0-1.5)-021114			0935																				
28	FS18-3(0-1.5)-021114			0950																				
29	AL19-1(0-1.5)-021114			1005																				
30	AL19-3(0-1.5)-021114			1025																				
31	AL19-5(0-1.5)-021114			1040																				
32	ALB-11(0-1.5)-021114			1130																				
33	ALB-13(0-1.5)-021114			1145																				
34	ALB-15(0-1.5)-021114			1200																				
35	ALB-17(0-1.5)-021114			1215	TW	S	3																	
36	ALB-19(0-1.5)-021114		2-11-14	1240	TW	S	3																	
Turnaround Time (Business days)			Approved By (Accutest PM) / Date:										Data Deliverable Information										Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY													<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary											
Emergency & Rush T/A data available VIA Lablink			Sample Custody must be documented below each time samples change possession, including courier delivery.										CHICAGO SC											
Relinquished by Sampler:		Date Time:	Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:		Date Time:		Received By:	
1 Z. Wallis		2-11-14/1538	[Signature]		2-11-14 5:41		2 FEDX		2-12-14		[Signature]		4		[Signature]		4		[Signature]		4		[Signature]	
3			3				4				4				4				4				4	
5			5				Intact		Preserved where applicable		On Ice		Cooler Temp.										10-11-20-20	

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5

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242A

Sampling Dates: 02/10/14 - 02/11/14

Report to:

Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **273**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	
Lab Sample ID: MC28242-29	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 81.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63306.D	1	02/20/14	KD	n/a	n/a	MSM2220

Run #1	Initial Weight	Final Volume
Run #2	1.94 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	32	12	ug/kg	
71-43-2	Benzene	ND	1.6	0.79	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	1.2	ug/kg	
75-25-2	Bromoform	ND	6.4	0.92	ug/kg	
74-83-9	Bromomethane	ND	6.4	3.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	32	9.8	ug/kg	
75-15-0	Carbon disulfide	ND	16	0.48	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	3.7	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.86	ug/kg	
75-00-3	Chloroethane	ND	16	1.9	ug/kg	
67-66-3	Chloroform	ND	6.4	0.92	ug/kg	
74-87-3	Chloromethane	ND	16	3.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	1.7	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	1.6	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.92	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.93	ug/kg	
100-41-4	Ethylbenzene	ND	6.4	0.56	ug/kg	
591-78-6	2-Hexanone	ND	32	7.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.4	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	16	5.9	ug/kg	
75-09-2	Methylene chloride	ND	6.4	4.9	ug/kg	
100-42-5	Styrene	ND	16	0.65	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.94	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	1.4	ug/kg	
108-88-3	Toluene	ND	16	0.77	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.57	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	1.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-29	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.3
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	6.4	1.5	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	1.8	ug/kg	
1330-20-7	Xylene (total)	ND	6.4	0.65	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	
Lab Sample ID: MC28242-29	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 81.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37113.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	310	14	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	610	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	610	18	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	610	99	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	610	76	ug/kg	
95-48-7	2-Methylphenol	ND	610	24	ug/kg	
106-44-5	4-Methylphenol	ND	610	31	ug/kg	
88-75-5	2-Nitrophenol	ND	610	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	610	43	ug/kg	
108-95-2	Phenol	ND	310	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	610	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	610	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	16	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	310	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	310	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	310	17	ug/kg	
106-47-8	4-Chloroaniline	ND	610	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	ND	120	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	310	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	310	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	310	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	310	19	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	
Lab Sample ID: MC28242-29	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 81.3
Project: IDOT 042 - IL 72, Hampshire, IL	

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ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	310	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	310	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	310	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	610	41	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	610	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	310	31	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	15	ug/kg	
132-64-9	Dibenzofuran	ND	120	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	310	32	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	310	9.5	ug/kg	
84-66-2	Diethyl phthalate	ND	310	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	310	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	310	11	ug/kg	
206-44-0	Fluoranthene	ND	120	17	ug/kg	
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	310	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	310	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	610	150	ug/kg	
67-72-1	Hexachloroethane	ND	310	15	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	310	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	610	15	ug/kg	
99-09-2	3-Nitroaniline	ND	610	33	ug/kg	
100-01-6	4-Nitroaniline	ND	610	15	ug/kg	
91-20-3	Naphthalene	ND	120	20	ug/kg	
98-95-3	Nitrobenzene	ND	310	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	310	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	310	18	ug/kg	
85-01-8	Phenanthrene	ND	120	17	ug/kg	
129-00-0	Pyrene	14.6	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	310	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		30-130%
4165-62-2	Phenol-d5	71%		30-130%
118-79-6	2,4,6-Tribromophenol	90%		30-130%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114 Lab Sample ID: MC28242-29 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 81.3
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	97%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.40	250	ug/kg	JN
	Total TIC, Semi-Volatile		250	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
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Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-29	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.15 U	0.98	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	6.7	0.98	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	125	4.9	0.071	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.55	0.39	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.13 B	0.39	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	19200	490	6.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	13.8	0.98	0.093	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	6.2	4.9	0.046	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	13.2	2.4	0.54	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	15300	9.8	0.85	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	16.8	0.98	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	13500	490	5.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	643	1.5	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.030 B	0.038	0.0083	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	13.0	3.9	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	835	490	8.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.34 U	0.98	0.34	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.12 U	0.49	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	3210	490	3.2	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.13 U	0.98	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	26.0	0.98	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	44.2	2.0	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16752
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114 Lab Sample ID: MC28242-29 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 81.3
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.3		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

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Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-29A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Barium	0.66	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cadmium	0.0010 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Cobalt	0.0019 B			0.050	0.00040	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Iron	0.13			0.10	0.020	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Manganese	1.8			0.015	0.00081	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.0092 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Selenium	0.0057 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²
Zinc	0.029 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-1(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-29B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 81.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.12		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	1.3		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.011		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0027 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.29		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.092		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.23		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	356		0.50	0.10	mg/l	5	02/23/14	02/25/14 EAL	SW846 6010C ³
Lead	0.35		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	3.1		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00063		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.23		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.87		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Instrument QC Batch: MA16787
- (4) Prep QC Batch: MP22540
- (5) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.27
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Report of Analysis

Client Sample ID:	AL19-3(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-30	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.8
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63307.D	1	02/20/14	KD	n/a	n/a	MSM2220
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.43 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	5.0	ug/kg	
71-43-2	Benzene	1.7	0.64	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.46	ug/kg	
75-25-2	Bromoform	ND	2.5	0.37	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.4	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.34	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.76	ug/kg	
67-66-3	Chloroform	ND	2.5	0.37	ug/kg	
74-87-3	Chloromethane	ND	6.4	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.42	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.69	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.65	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.57	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.37	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.37	ug/kg	
100-41-4	Ethylbenzene	0.48	2.5	0.23	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.4	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	2.0	ug/kg	
100-42-5	Styrene	ND	6.4	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.37	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.56	ug/kg	
108-88-3	Toluene	3.1	6.4	0.31	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.44	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-30	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

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VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.60	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.72	ug/kg	
1330-20-7	Xylene (total)	2.0	2.5	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	
Lab Sample ID: MC28242-30	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 88.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37114.D	1	02/18/14	KR	02/14/14	OP36852	MSR1369
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	29	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	13	ug/kg	
56-55-3	Benzo(a)anthracene	41.6	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	33.4	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	33.7	110	14	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	24.0	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	26.3	110	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	43.7	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-3(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-30	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	88.8
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	19.8	280	10	ug/kg	J
206-44-0	Fluoranthene	56.7	110	15	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18.9	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	18.0	110	14	ug/kg	J
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	31	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	29.7	110	15	ug/kg	J
129-00-0	Pyrene	55.4	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-130%
4165-62-2	Phenol-d5	67%		30-130%
118-79-6	2,4,6-Tribromophenol	92%		30-130%
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	
Lab Sample ID: MC28242-30	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 88.8
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	99%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	8.40	220	ug/kg	JN
	Total TIC, Semi-Volatile		220	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-30	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.8
Project: IDOT 042 - IL 72, Hampshire, IL	

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Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.14 U	0.92	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Arsenic	5.8	0.92	0.19	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Barium	64.8	4.6	0.066	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Beryllium	0.40	0.37	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cadmium	0.12 B	0.37	0.039	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Calcium	44600	460	5.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Chromium	12.4	0.92	0.087	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Cobalt	5.2	4.6	0.043	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Copper	14.4	2.3	0.51	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Iron	13300	9.2	0.80	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Lead	105	0.92	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Magnesium	32300	460	4.7	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Manganese	486	1.4	0.037	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Mercury	0.016 B	0.036	0.0080	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ²	SW846 7471B ⁴
Nickel	10.7	3.7	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Potassium	760	460	7.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Silver	0.11 U	0.46	0.11	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Sodium	2880	460	3.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Vanadium	21.3	0.92	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³
Zinc	51.8	1.8	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16752
- (3) Prep QC Batch: MP22493
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-30	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.8
Project: IDOT 042 - IL 72, Hampshire, IL	

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.8		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.4		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-30A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Barium	0.85	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0012 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.00040 B			0.050	0.00040	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Copper	0.010 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Iron	0.020 B			0.10	0.020	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Lead	0.0022 B	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Manganese	0.71			0.015	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.0061 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0070 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Zinc	0.036 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-3(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-30B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 88.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.11		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	1.5		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.0090		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.0030 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.25		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.063		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.20		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	293		0.50	0.10	mg/l	5	02/23/14	02/25/14 EAL	SW846 6010C ³
Lead	0.77		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	2.6		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00038		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.19		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.82		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Instrument QC Batch: MA16787
- (4) Prep QC Batch: MP22540
- (5) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114	
Lab Sample ID: MC28242-31	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 94.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	M63308.D	1	02/20/14	KD	n/a	n/a	MSM2220

Run #1	Initial Weight	Final Volume
Run #2	2.62 g	5.0 ml

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	7.9	ug/kg	
71-43-2	Benzene	2.5	1.0	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	4.0	0.73	ug/kg	
75-25-2	Bromoform	ND	4.0	0.59	ug/kg	
74-83-9	Bromomethane	ND	4.0	2.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	20	6.3	ug/kg	
75-15-0	Carbon disulfide	ND	10	0.31	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.0	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	4.0	0.55	ug/kg	
75-00-3	Chloroethane	ND	10	1.2	ug/kg	
67-66-3	Chloroform	ND	4.0	0.58	ug/kg	
74-87-3	Chloromethane	ND	10	2.5	ug/kg	
124-48-1	Dibromochloromethane	ND	4.0	0.86	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.0	0.67	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.0	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.0	0.90	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.0	0.85	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	0.58	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	0.59	ug/kg	
100-41-4	Ethylbenzene	0.78	4.0	0.36	ug/kg	J
591-78-6	2-Hexanone	ND	20	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	0.80	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	3.7	ug/kg	
75-09-2	Methylene chloride	ND	4.0	3.1	ug/kg	
100-42-5	Styrene	ND	10	0.42	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	0.60	ug/kg	
127-18-4	Tetrachloroethene	ND	4.0	0.89	ug/kg	
108-88-3	Toluene	3.9	10	0.49	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	4.0	0.36	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.0	0.70	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114		Date Sampled: 02/11/14
Lab Sample ID: MC28242-31		Date Received: 02/12/14
Matrix: SO - Soil		Percent Solids: 94.4
Method: SW846 8260C		
Project: IDOT 042 - IL 72, Hampshire, IL		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	4.0	0.96	ug/kg	
75-01-4	Vinyl chloride	ND	4.0	1.2	ug/kg	
1330-20-7	Xylene (total)	2.5	4.0	0.41	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
107-83-5	Pentane, 2-methyl-	7.84	10	ug/kg	JN
108-87-2	Cyclohexane, methyl-	11.18	11	ug/kg	JN
	Total TIC, Volatile		21	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	AL19-5(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-31	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	94.4
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37084.D	1	02/18/14	KR	02/15/14	OP36856	MSR1368
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	260	12	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	520	13	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	520	15	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	520	85	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	520	65	ug/kg	
95-48-7	2-Methylphenol	ND	520	21	ug/kg	
106-44-5	4-Methylphenol	ND	520	27	ug/kg	
88-75-5	2-Nitrophenol	ND	520	14	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	97	ug/kg	
87-86-5	Pentachlorophenol	ND	520	37	ug/kg	
108-95-2	Phenol	ND	260	15	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	520	13	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	520	13	ug/kg	
83-32-9	Acenaphthene	ND	100	14	ug/kg	
208-96-8	Acenaphthylene	ND	100	10	ug/kg	
120-12-7	Anthracene	ND	100	13	ug/kg	
56-55-3	Benzo(a)anthracene	28.0	100	13	ug/kg	J
50-32-8	Benzo(a)pyrene	19.3	100	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	19.7	100	13	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	22.3	100	10	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	100	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	260	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	260	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	260	14	ug/kg	
106-47-8	4-Chloroaniline	ND	520	13	ug/kg	
86-74-8	Carbazole	ND	100	12	ug/kg	
218-01-9	Chrysene	24.4	100	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	260	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	260	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	260	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	260	16	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-5(0-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28242-31	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	94.4
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	260	13	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	260	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	260	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	520	35	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	520	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	260	26	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	100	12	ug/kg	
132-64-9	Dibenzofuran	ND	100	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	260	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	260	8.1	ug/kg	
84-66-2	Diethyl phthalate	ND	260	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	260	15	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	260	9.6	ug/kg	
206-44-0	Fluoranthene	50.3	100	14	ug/kg	J
86-73-7	Fluorene	ND	100	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	260	16	ug/kg	
87-68-3	Hexachlorobutadiene	ND	260	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	520	130	ug/kg	
67-72-1	Hexachloroethane	ND	260	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	11.8	100	11	ug/kg	J
78-59-1	Isophorone	ND	260	12	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	13	ug/kg	
88-74-4	2-Nitroaniline	ND	520	13	ug/kg	
99-09-2	3-Nitroaniline	ND	520	28	ug/kg	
100-01-6	4-Nitroaniline	ND	520	13	ug/kg	
91-20-3	Naphthalene	ND	100	17	ug/kg	
98-95-3	Nitrobenzene	ND	260	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	260	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	260	16	ug/kg	
85-01-8	Phenanthrene	42.9	100	14	ug/kg	J
129-00-0	Pyrene	49.0	100	12	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	260	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	74%		30-130%
118-79-6	2,4,6-Tribromophenol	98%		30-130%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114 Lab Sample ID: MC28242-31 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 94.4
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	100%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

4.31
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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-31	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 94.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.13 U	0.84	0.13	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Arsenic	3.8	0.84	0.17	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Barium	69.8	4.2	0.061	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Beryllium	0.31 B	0.34	0.020	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cadmium	0.18 B	0.34	0.036	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Calcium	23300	420	5.3	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Chromium	9.0	0.84	0.080	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Cobalt	5.0	4.2	0.040	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Copper	10.1	2.1	0.47	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Iron	9250	8.4	0.73	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Lead	61.1	0.84	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Magnesium	12900	420	4.3	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Manganese	360	1.3	0.034	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Mercury	0.016 B	0.034	0.0075	mg/kg	1	02/18/14	02/19/14 SA	SW846 7471B ¹	SW846 7471B ⁴
Nickel	8.9	3.4	0.037	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Potassium	523	420	7.2	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Selenium	0.29 U	0.84	0.29	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Silver	0.11 U	0.42	0.11	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Sodium	2020	420	2.8	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Thallium	0.20 B	0.84	0.11	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Vanadium	15.6	0.84	0.11	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³
Zinc	43.0	1.7	0.14	mg/kg	1	02/17/14	02/18/14 EAL	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16752
- (2) Instrument QC Batch: MA16755
- (3) Prep QC Batch: MP22500
- (4) Prep QC Batch: MP22509

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114 Lab Sample ID: MC28242-31 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 94.4
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.4		%	1	02/17/14	BF	SM21 2540 B MOD.
pH	8.5		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-31A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 94.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Barium	1.0	D005	100	0.50	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cadmium	0.0024 B	D006	1.0	0.0040	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Cobalt	0.0075 B			0.050	0.00040	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Copper	0.013 B			0.025	0.0070	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Lead	0.013	D008	5.0	0.010	0.0017	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Manganese	5.4			0.015	0.00081	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/23/14	02/24/14	SA SW846 7470A ¹
Nickel	0.019 B			0.040	0.00057	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Selenium	0.0056 B	D010	1.0	0.025	0.0048	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²
Zinc	0.095 B			0.10	0.00050	mg/l	1	02/23/14	02/25/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16773
- (2) Instrument QC Batch: MA16787
- (3) Prep QC Batch: MP22539
- (4) Prep QC Batch: MP22543

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-5(0-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28242-31B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 94.4
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0097 B		0.010	0.0029	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Barium	0.27 B		0.50	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Beryllium	0.00060 B		0.0040	0.00025	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cadmium	0.00080 B		0.0040	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Chromium	0.026		0.010	0.0014	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Cobalt	0.0058 B		0.050	0.00040	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Copper	0.024 B		0.025	0.0070	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Iron	18.5		0.10	0.020	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Lead	0.095		0.010	0.0017	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Manganese	0.27		0.015	0.00081	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/23/14	02/24/14 SA	SW846 7470A ¹
Nickel	0.017 B		0.040	0.00057	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²
Zinc	0.12		0.10	0.00050	mg/l	1	02/23/14	02/24/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16774
- (2) Instrument QC Batch: MA16781
- (3) Prep QC Batch: MP22540
- (4) Prep QC Batch: MP22544

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.33
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Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28243

Sampling Date: 02/10/14

Report to:

Weston Solutions, Inc.

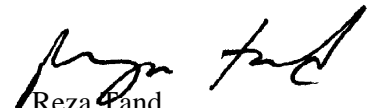
Andris.Slesers@WestonSolutions.com

ATTN: Andris Slesers

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	
Lab Sample ID: MC28243-3	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8260C	Percent Solids: 83.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63231.D	1	02/17/14	KD	n/a	n/a	MSM2217
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.36 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	14	5.4	ug/kg	
71-43-2	Benzene	1.1	0.69	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	2.8	0.50	ug/kg	
75-25-2	Bromoform	ND	2.8	0.40	ug/kg	
74-83-9	Bromomethane	ND	2.8	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	14	4.3	ug/kg	
75-15-0	Carbon disulfide	ND	6.9	0.21	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.8	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.8	0.37	ug/kg	
75-00-3	Chloroethane	ND	6.9	0.83	ug/kg	
67-66-3	Chloroform	ND	2.8	0.40	ug/kg	
74-87-3	Chloromethane	ND	6.9	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.8	0.59	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.8	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.8	0.75	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.8	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.8	0.70	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.8	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.8	0.58	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.8	0.40	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.8	0.40	ug/kg	
100-41-4	Ethylbenzene	0.63	2.8	0.24	ug/kg	J
591-78-6	2-Hexanone	ND	14	3.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.8	0.55	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.9	2.5	ug/kg	
75-09-2	Methylene chloride	ND	2.8	2.1	ug/kg	
100-42-5	Styrene	ND	6.9	0.28	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.8	0.41	ug/kg	
127-18-4	Tetrachloroethene	ND	2.8	0.61	ug/kg	
108-88-3	Toluene	2.1	6.9	0.34	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.8	0.25	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.8	0.48	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7
 4

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.3
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.8	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	2.8	0.78	ug/kg	
1330-20-7	Xylene (total)	1.3	2.8	0.28	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	
Lab Sample ID: MC28243-3	Date Sampled: 02/10/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 83.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17734.D	5	02/18/14	KR	02/14/14	OP36843	MSW779
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	67	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3000	75	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3000	85	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3000	480	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5900	740	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3000	370	ug/kg	
95-48-7	2-Methylphenol	ND	3000	120	ug/kg	
106-44-5	4-Methylphenol	ND	3000	150	ug/kg	
88-75-5	2-Nitrophenol	ND	3000	79	ug/kg	
100-02-7	4-Nitrophenol	ND	5900	550	ug/kg	
87-86-5	Pentachlorophenol	ND	3000	210	ug/kg	
108-95-2	Phenol	ND	1500	84	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3000	74	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3000	73	ug/kg	
83-32-9	Acenaphthene	ND	590	79	ug/kg	
208-96-8	Acenaphthylene	ND	590	59	ug/kg	
120-12-7	Anthracene	ND	590	71	ug/kg	
56-55-3	Benzo(a)anthracene	ND	590	76	ug/kg	
50-32-8	Benzo(a)pyrene	ND	590	63	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	590	74	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	590	59	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	590	89	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	75	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	60	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	80	ug/kg	
106-47-8	4-Chloroaniline	ND	3000	74	ug/kg	
86-74-8	Carbazole	ND	590	70	ug/kg	
218-01-9	Chrysene	ND	590	73	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	69	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	90	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	110	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	90	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AL19-7(0.5-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28243-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	76	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	84	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	78	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3000	200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3000	74	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	590	70	ug/kg	
132-64-9	Dibenzofuran	ND	590	82	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	160	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	46	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	74	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	85	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	55	ug/kg	
206-44-0	Fluoranthene	ND	590	81	ug/kg	
86-73-7	Fluorene	ND	590	78	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	92	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	85	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3000	740	ug/kg	
67-72-1	Hexachloroethane	ND	1500	71	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	590	65	ug/kg	
78-59-1	Isophorone	ND	1500	68	ug/kg	
91-57-6	2-Methylnaphthalene	ND	590	75	ug/kg	
88-74-4	2-Nitroaniline	ND	3000	74	ug/kg	
99-09-2	3-Nitroaniline	ND	3000	160	ug/kg	
100-01-6	4-Nitroaniline	ND	3000	74	ug/kg	
91-20-3	Naphthalene	ND	590	95	ug/kg	
98-95-3	Nitrobenzene	ND	1500	80	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	84	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	89	ug/kg	
85-01-8	Phenanthrene	ND	590	80	ug/kg	
129-00-0	Pyrene	ND	590	69	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	81	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		30-130%
4165-62-2	Phenol-d5	76%		30-130%
118-79-6	2,4,6-Tribromophenol	91%		30-130%
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	87%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.3
Method: SW846 8270D SW846 3546	
Project: IDOT 042 - IL 72, Hampshire, IL	

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7000	19	3.4	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Antimony	0.22 B	0.95	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Arsenic	6.7	0.95	0.20	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Barium	78.4	4.7	0.069	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Beryllium	0.41	0.38	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cadmium	0.057 B	0.38	0.040	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Calcium	47100	470	5.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Chromium	11.0	0.95	0.090	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Cobalt	5.4	4.7	0.044	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Copper	13.9	2.4	0.52	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Iron	12600	9.5	0.82	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Lead	36.1	0.95	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Magnesium	32200	470	4.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Manganese	487	1.4	0.038	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Mercury	0.021 B	0.039	0.0087	mg/kg	1	02/14/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ⁴
Nickel	11.6	3.8	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Potassium	780	470	8.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Silver	0.12 U	0.47	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Sodium	2630	470	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Strontium	25.1	0.95	0.028	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Thallium	0.32 B	0.95	0.13	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Vanadium	20.4	0.95	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³
Zinc	41.4	1.9	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA16736
- (2) Instrument QC Batch: MA16740
- (3) Prep QC Batch: MP22489
- (4) Prep QC Batch: MP22490

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.7
4

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014 Lab Sample ID: MC28243-3 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 83.3
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.3		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.3		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.7
4

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-3A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Barium	1.0	D005	100	0.50	0.00081	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Cadmium	0.0011 B	D006	1.0	0.0040	0.00050	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Cobalt	0.0029 B			0.050	0.00040	mg/l	1	02/17/14	02/19/14	EAL SW846 6010C ³
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Iron	0.23			0.10	0.020	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/17/14	02/19/14	EAL SW846 6010C ³
Manganese	2.0			0.015	0.00081	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/17/14	02/18/14	SA SW846 7470A ¹
Nickel	0.012 B			0.040	0.00057	mg/l	1	02/17/14	02/19/14	EAL SW846 6010C ³
Selenium	0.0048 U	D010	1.0	0.025	0.0048	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²
Zinc	0.039 B			0.10	0.00050	mg/l	1	02/17/14	02/17/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16745
- (2) Instrument QC Batch: MA16750
- (3) Instrument QC Batch: MA16763
- (4) Prep QC Batch: MP22498
- (5) Prep QC Batch: MP22501

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: AL19-7(0.5-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28243-3B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 83.3
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.037		0.010	0.0029	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Barium	0.99		0.50	0.00081	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Beryllium	0.0023 B		0.0040	0.00025	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Cadmium	0.0015 B		0.0040	0.00050	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Chromium	0.072		0.010	0.0014	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Cobalt	0.019 B		0.050	0.00040	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Copper	0.060		0.025	0.0070	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Iron	75.1		0.10	0.020	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Lead	0.093		0.010	0.0017	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Manganese	0.85		0.015	0.00081	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Mercury	0.00015 B		0.00020	0.00010	mg/l	1	02/17/14	02/18/14 SA	SW846 7470A ¹
Nickel	0.059		0.040	0.00057	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Silver	0.0024 B		0.0050	0.0010	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²
Zinc	0.28		0.10	0.00050	mg/l	1	02/14/14	02/17/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16746
- (2) Instrument QC Batch: MA16750
- (3) Prep QC Batch: MP22497
- (4) Prep QC Batch: MP22502

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.9
4

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28244

Sampling Date: 02/11/14

Report to:

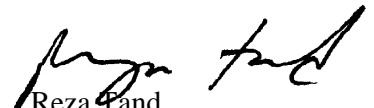
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **310**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	AL19-2(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-7	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.1
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63281.D	1	02/19/14	KD	n/a	n/a	MSM2219
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	6.12 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30.5	9.6	3.7	ug/kg	
71-43-2	Benzene	0.90	0.48	0.24	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.35	ug/kg	
75-25-2	Bromoform	ND	1.9	0.28	ug/kg	
74-83-9	Bromomethane	ND	1.9	0.94	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.6	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	4.8	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.26	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.58	ug/kg	
67-66-3	Chloroform	ND	1.9	0.28	ug/kg	
74-87-3	Chloromethane	ND	4.8	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.41	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.9	0.32	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.9	0.52	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.9	0.50	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	0.49	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.43	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.41	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.28	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.28	ug/kg	
100-41-4	Ethylbenzene	0.29	1.9	0.17	ug/kg	J
591-78-6	2-Hexanone	ND	9.6	2.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.9	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.8	1.8	ug/kg	
75-09-2	Methylene chloride	ND	1.9	1.5	ug/kg	
100-42-5	Styrene	ND	4.8	0.20	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.28	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.42	ug/kg	
108-88-3	Toluene	1.0	4.8	0.23	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.33	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-7	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.9	0.46	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.55	ug/kg	
1330-20-7	Xylene (total)	0.50	1.9	0.20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	89%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.07	4.3	ug/kg	JN
	Total TIC, Volatile		4.3	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114	
Lab Sample ID: MC28244-7	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W17714.D	5	02/18/14	KR	02/14/14	OP36851	MSW778
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	66	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	74	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	84	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	470	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5800	730	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	360	ug/kg	
95-48-7	2-Methylphenol	ND	2900	120	ug/kg	
106-44-5	4-Methylphenol	ND	2900	150	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	78	ug/kg	
100-02-7	4-Nitrophenol	ND	5800	550	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	210	ug/kg	
108-95-2	Phenol	ND	1500	83	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	73	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	72	ug/kg	
83-32-9	Acenaphthene	ND	580	78	ug/kg	
208-96-8	Acenaphthylene	ND	580	58	ug/kg	
120-12-7	Anthracene	ND	580	70	ug/kg	
56-55-3	Benzo(a)anthracene	118	580	75	ug/kg	J
50-32-8	Benzo(a)pyrene	139	580	63	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	580	73	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	580	58	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	580	88	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	74	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	59	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	79	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	73	ug/kg	
86-74-8	Carbazole	ND	580	69	ug/kg	
218-01-9	Chrysene	144	580	72	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	68	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	89	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	89	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID:	AL19-2(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-7	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.1
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	75	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	83	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	77	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	73	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	580	69	ug/kg	
132-64-9	Dibenzofuran	ND	580	81	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	46	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	73	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	84	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	54	ug/kg	
206-44-0	Fluoranthene	225	580	80	ug/kg	J
86-73-7	Fluorene	ND	580	77	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	91	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	84	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	730	ug/kg	
67-72-1	Hexachloroethane	ND	1500	70	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	580	64	ug/kg	
78-59-1	Isophorone	ND	1500	67	ug/kg	
91-57-6	2-Methylnaphthalene	ND	580	74	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	73	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	160	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	73	ug/kg	
91-20-3	Naphthalene	ND	580	93	ug/kg	
98-95-3	Nitrobenzene	ND	1500	79	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	83	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	88	ug/kg	
85-01-8	Phenanthrene	123	580	79	ug/kg	J
129-00-0	Pyrene	207	580	68	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	1500	80	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	74%		30-130%
118-79-6	2,4,6-Tribromophenol	82%		30-130%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114 Lab Sample ID: MC28244-7 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.1
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-7	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7740	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.95	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	8.4	0.95	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	57.9	4.7	0.069	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	1.1	0.38	0.023	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	80800	4700	60	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	11.4	0.95	0.090	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	4.9	4.7	0.045	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	17.9	2.4	0.53	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	15300	9.5	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	48.6	0.95	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	49900	470	4.9	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	260	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.021 B	0.037	0.0081	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	12.1	3.8	0.042	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	937	470	8.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.95	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	3460	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	30.7	0.95	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.13 U	0.95	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	19.8	0.95	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	55.3	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16751
- (4) Prep QC Batch: MP22492
- (5) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114 Lab Sample ID: MC28244-7 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.1
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

4.19
4

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-7A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	0.83	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0020 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.038 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Copper	0.011 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.074 B			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0065 B	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Manganese	4.6			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.019 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0088 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.079 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.20
4

Report of Analysis

Client Sample ID: AL19-2(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-7B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.1
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.019		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.51		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.0015 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.0010 B		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.046		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.015 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.049		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	45.6		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.13		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.52		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.038 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.22		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.21
4

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-8	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63282.D	1	02/19/14	KD	n/a	n/a	MSM2219
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.28 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	4.3	ug/kg	
71-43-2	Benzene	1.2	0.55	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.40	ug/kg	
75-25-2	Bromoform	ND	2.2	0.32	ug/kg	
74-83-9	Bromomethane	ND	2.2	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.66	ug/kg	
67-66-3	Chloroform	ND	2.2	0.32	ug/kg	
74-87-3	Chloromethane	ND	5.5	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.47	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.37	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.60	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.58	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.56	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.32	ug/kg	
100-41-4	Ethylbenzene	0.48	2.2	0.20	ug/kg	J
591-78-6	2-Hexanone	ND	11	2.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.44	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.5	2.0	ug/kg	
75-09-2	Methylene chloride	2.2	2.2	1.7	ug/kg	
100-42-5	Styrene	ND	5.5	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.32	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.49	ug/kg	
108-88-3	Toluene	1.9	5.5	0.27	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.38	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.22
 4

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-8	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.2	0.52	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.63	ug/kg	
1330-20-7	Xylene (total)	1.1	2.2	0.23	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Unknown	5.04	27	ug/kg	JN
109-66-0	Pentane	6.49	5.9	ug/kg	JN
	Total TIC, Volatile		32.9	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114	
Lab Sample ID: MC28244-8	Date Sampled: 02/11/14
Matrix: SO - Soil	Date Received: 02/12/14
Method: SW846 8270D SW846 3546	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	W17715.D	5	02/18/14	KR	02/14/14	OP36851	MSW778
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1400	64	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2800	71	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2800	81	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2800	460	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5600	700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	350	ug/kg	
95-48-7	2-Methylphenol	ND	2800	110	ug/kg	
106-44-5	4-Methylphenol	ND	2800	140	ug/kg	
88-75-5	2-Nitrophenol	ND	2800	75	ug/kg	
100-02-7	4-Nitrophenol	ND	5600	530	ug/kg	
87-86-5	Pentachlorophenol	ND	2800	200	ug/kg	
108-95-2	Phenol	ND	1400	80	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2800	70	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2800	69	ug/kg	
83-32-9	Acenaphthene	ND	560	75	ug/kg	
208-96-8	Acenaphthylene	ND	560	56	ug/kg	
120-12-7	Anthracene	ND	560	68	ug/kg	
56-55-3	Benzo(a)anthracene	112	560	73	ug/kg	J
50-32-8	Benzo(a)pyrene	119	560	61	ug/kg	J
205-99-2	Benzo(b)fluoranthene	154	560	70	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	560	56	ug/kg	
207-08-9	Benzo(k)fluoranthene	108	560	85	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	1400	71	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	58	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	76	ug/kg	
106-47-8	4-Chloroaniline	ND	2800	70	ug/kg	
86-74-8	Carbazole	ND	560	67	ug/kg	
218-01-9	Chrysene	119	560	70	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	66	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	86	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	100	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	86	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID:	AL19-4(0.5-1.5)-021114	Date Sampled:	02/11/14
Lab Sample ID:	MC28244-8	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	85.8
Method:	SW846 8270D SW846 3546		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1400	73	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	81	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1400	75	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2800	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2800	70	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1400	140	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	560	67	ug/kg	
132-64-9	Dibenzofuran	ND	560	78	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	150	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	44	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	70	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	81	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	52	ug/kg	
206-44-0	Fluoranthene	233	560	77	ug/kg	J
86-73-7	Fluorene	ND	560	75	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	88	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	82	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2800	700	ug/kg	
67-72-1	Hexachloroethane	ND	1400	68	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	560	62	ug/kg	
78-59-1	Isophorone	ND	1400	65	ug/kg	
91-57-6	2-Methylnaphthalene	ND	560	71	ug/kg	
88-74-4	2-Nitroaniline	ND	2800	70	ug/kg	
99-09-2	3-Nitroaniline	ND	2800	150	ug/kg	
100-01-6	4-Nitroaniline	ND	2800	70	ug/kg	
91-20-3	Naphthalene	ND	560	90	ug/kg	
98-95-3	Nitrobenzene	ND	1400	76	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	81	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	85	ug/kg	
85-01-8	Phenanthrene	128	560	76	ug/kg	J
129-00-0	Pyrene	194	560	66	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	1400	78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		30-130%
4165-62-2	Phenol-d5	66%		30-130%
118-79-6	2,4,6-Tribromophenol	72%		30-130%
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114 Lab Sample ID: MC28244-8 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.8
--	--

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-8	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6050	19	3.4	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Antimony	0.14 U	0.94	0.14	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Arsenic	4.5	0.94	0.20	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Barium	64.6	4.7	0.068	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Beryllium	0.34 B	0.38	0.022	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cadmium	0.040 U	0.38	0.040	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Calcium	71600	4700	59	mg/kg	10	02/14/14	02/17/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	11.0	0.94	0.089	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Cobalt	4.2 B	4.7	0.044	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Copper	11.5	2.3	0.52	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Iron	11700	9.4	0.82	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Lead	42.7	0.94	0.16	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Magnesium	44900	470	4.8	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Manganese	395	1.4	0.038	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Mercury	0.014 B	0.036	0.0079	mg/kg	1	02/18/14	02/19/14	SA SW846 7471B ³	SW846 7471B ⁵
Nickel	9.2	3.8	0.041	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Potassium	770	470	8.0	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Selenium	0.33 U	0.94	0.33	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Silver	0.12 U	0.47	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Sodium	3280	470	3.1	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Strontium	28.8	0.94	0.028	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Thallium	0.13 U	0.94	0.13	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Vanadium	16.6	0.94	0.12	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴
Zinc	46.8	1.9	0.15	mg/kg	1	02/14/14	02/14/14	EAL SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16742
- (2) Instrument QC Batch: MA16748
- (3) Instrument QC Batch: MA16751
- (4) Prep QC Batch: MP22492
- (5) Prep QC Batch: MP22508

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.22
 4

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114 Lab Sample ID: MC28244-8 Matrix: SO - Soil Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/11/14 Date Received: 02/12/14 Percent Solids: 85.8
---	--

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4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.8		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/14/14	MA	SW846 9045D

RL = Reporting Limit

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-8A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Barium	0.81	D005	100	0.50	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cadmium	0.0015 B	D006	1.0	0.0040	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Cobalt	0.00060 B			0.050	0.00040	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Copper	0.012 B			0.025	0.0070	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Iron	0.020 U			0.10	0.020	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Manganese	1.1			0.015	0.00081	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/21/14	02/24/14	SA SW846 7470A ¹
Nickel	0.013 B			0.040	0.00057	mg/l	1	02/21/14	02/24/14	EAL SW846 6010C ³
Selenium	0.0097 B	D010	1.0	0.025	0.0048	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²
Zinc	0.087 B			0.10	0.00050	mg/l	1	02/21/14	02/22/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16771
- (2) Instrument QC Batch: MA16778
- (3) Instrument QC Batch: MA16780
- (4) Prep QC Batch: MP22534
- (5) Prep QC Batch: MP22538

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AL19-4(0.5-1.5)-021114	Date Sampled: 02/11/14
Lab Sample ID: MC28244-8B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 85.8
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0092 B		0.010	0.0029	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Barium	0.25 B		0.50	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Beryllium	0.00080 B		0.0040	0.00025	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cadmium	0.00050 B		0.0040	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Chromium	0.027		0.010	0.0014	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Cobalt	0.0070 B		0.050	0.00040	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Copper	0.023 B		0.025	0.0070	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Iron	20.6		0.10	0.020	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Lead	0.11		0.010	0.0017	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Manganese	0.41		0.015	0.00081	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/20/14	02/21/14 SA	SW846 7470A ¹
Nickel	0.020 B		0.040	0.00057	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²
Zinc	0.12		0.10	0.00050	mg/l	1	02/20/14	02/21/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16766
- (2) Instrument QC Batch: MA16778
- (3) Prep QC Batch: MP22529
- (4) Prep QC Batch: MP22531

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.24
4



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd) Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

47W 800 IL 72

City: Hampshire State: IL Zip Code: _____

County: Kane Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.088343111 Longitude: -88.545810435

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms

Project Name: FAP 348: IL 72 (DeKalb County Line to French Rd)

Latitude: 42.088343111 Longitude: -88.545810435

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

LOCATION RE20-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2780-20. SEE FIGURE 3-4 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC28242

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Steven Gobelman, P.E., L.P.G (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Illinois Department of Transportation

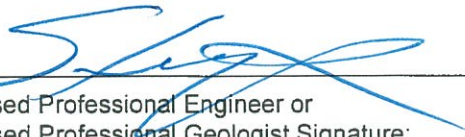
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

6/2/14

Date:



Seal:

Summary Table of ISGS Site No. 2780-20
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	RE20-2(0-1.5)-021014	Soil Reference Concentrations^A
Sample Date	2/10/2014	
Location ID	RE20-2	
Depth	0 - 1.5	
Parameter		
Laboratory pH (s.u.)	8.8	<6.25,>9.0
VOCs (ug/kg)		
Acetone	43.1	25000
Benzene	1.4	30
Ethylbenzene	0.58 J	13000
Toluene	2.3 J	12000
Xylene (Total)	0.84 J	5600
SVOCs (ug/kg)		
Benzo(a)pyrene	12.3 J	90 / 1300 / 2100
Benzo(g,h,i)perylene	12.1 J	2300000
bis(2-Ethylhexyl)phthalate	24.2 J	46000
Chrysene	17.4 J	88000
Fluoranthene	25.6 J	3100000
Phenanthrene	16.4 J	210000
Pyrene	24.6 J	2300000
Total Metals (mg/kg)		
Aluminum, Total	8090	--
Antimony, Total	0.18 J	5
Arsenic, Total	6	11.3 / 13
Barium, Total	67.5	1500
Beryllium, Total	0.44	22
Cadmium, Total	0.065 J	5.2
Calcium, Total	41600	---
Chromium, Total	12	21
Cobalt, Total	5.9	20
Copper, Total	12.7	2900
Iron, Total	12300	15000 / 15900
Lead, Total	55.1	107
Magnesium, Total	29200	325000
Manganese, Total	458	630 / 636
Mercury, Total	0.033 J	0.89
Nickel, Total	10.2	100
Potassium, Total	957	---
Sodium, Total	2640	---
Strontium, Total	21.8	---
Vanadium, Total	20.7	550
Zinc, Total	40.1	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	0.004 J	0.05
Barium, TCLP	1.1	2
Cadmium, TCLP	0.0023 J	0.005
Cobalt, TCLP	0.052	1
Iron, TCLP	0.21	5
Lead, TCLP	0.018	0.0075
Manganese, TCLP	9.4	0.15
Nickel, TCLP	0.029 J	0.1
Selenium, TCLP	0.0051 J	0.05
Zinc, TCLP	0.082 J	5

Summary Table of ISGS Site No. 2780-20
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 557: Illinois Route 72 (Oak Knoll Road); Dekalb County Line to French Road
Hampshire/Hampshire Township, Kane County, Illinois

Field Sample ID	RE20-2(0-1.5)-021014	Soil Reference Concentrations ^A
Sample Date	2/10/2014	
Location ID	RE20-2	
Depth	0 - 1.5	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.028	0.05
Barium, SPLP	0.36 J	2
Beryllium, SPLP	0.0018 J	0.004
Cadmium, SPLP	0.0008 J	0.005
Chromium, SPLP	0.057	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.039	0.65
Iron, SPLP	51.1	5
Lead, SPLP	0.11	0.0075
Manganese, SPLP	0.53	0.15
Nickel, SPLP	0.038 J	0.1
Zinc, SPLP	0.18	5

Notes:

--- - not applicable or value not available.

^A - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

J - Estimated concentration.

Shaded values indicate concentration **exceeds** Reference Concentration.

Technical Report for

Weston Solutions, Inc.

IDOT 042 - IL 72, Hampshire, IL

Accutest Job Number: MC28242

Sampling Date: 02/10/14

Report to:

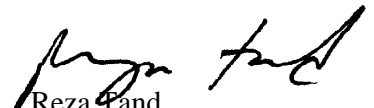
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, IL 60061
andris.slesers@westonsolutions.com

ATTN: Andris Slesres

Total number of pages in report: **305**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	RE20-2(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.0
Method:	SW846 8260C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63201.D	1	02/14/14	KD	n/a	n/a	MSM2216
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.62 g	5.0 ml
Run #2		

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	43.1	13	4.9	ug/kg	
71-43-2	Benzene	1.4	0.63	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.46	ug/kg	
75-25-2	Bromoform	ND	2.5	0.37	ug/kg	
74-83-9	Bromomethane	ND	2.5	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.9	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.34	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.75	ug/kg	
67-66-3	Chloroform	ND	2.5	0.36	ug/kg	
74-87-3	Chloromethane	ND	6.3	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	0.42	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	0.68	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.5	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.64	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.56	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.37	ug/kg	
100-41-4	Ethylbenzene	0.58	2.5	0.22	ug/kg	J
591-78-6	2-Hexanone	ND	13	3.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	0.50	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.3	2.3	ug/kg	
75-09-2	Methylene chloride	ND	2.5	1.9	ug/kg	
100-42-5	Styrene	ND	6.3	0.26	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.37	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.56	ug/kg	
108-88-3	Toluene	2.3	6.3	0.31	ug/kg	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.23	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.44	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RE20-2(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.0
Method: SW846 8260C	
Project: IDOT 042 - IL 72, Hampshire, IL	

VOSL

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	2.5	0.60	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.72	ug/kg	
1330-20-7	Xylene (total)	0.84	2.5	0.26	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
78-78-4	Butane, 2-methyl-	6.08	8.7	ug/kg	JN
10574-37-5	2-Pentene, 2,3-dimethyl-	11.17	6.4	ug/kg	JN
	Total TIC, Volatile		15.1	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID:	RE20-2(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.0
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R37068.D	1	02/17/14	KR	02/14/14	OP36841	MSR1367
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	94	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	570	72	ug/kg	
95-48-7	2-Methylphenol	ND	570	23	ug/kg	
106-44-5	4-Methylphenol	ND	570	29	ug/kg	
88-75-5	2-Nitrophenol	ND	570	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	110	ug/kg	
87-86-5	Pentachlorophenol	ND	570	40	ug/kg	
108-95-2	Phenol	ND	290	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	ND	110	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	110	15	ug/kg	
50-32-8	Benzo(a)pyrene	12.3	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	12.1	110	11	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	110	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	290	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	16	ug/kg	
106-47-8	4-Chloroaniline	ND	570	14	ug/kg	
86-74-8	Carbazole	ND	110	14	ug/kg	
218-01-9	Chrysene	17.4	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	290	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RE20-2(0-1.5)-021014	Date Sampled:	02/10/14
Lab Sample ID:	MC28242-3	Date Received:	02/12/14
Matrix:	SO - Soil	Percent Solids:	86.0
Method:	SW846 8270D SW846 3510C		
Project:	IDOT 042 - IL 72, Hampshire, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	290	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	290	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	290	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	38	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	29	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	14	ug/kg	
132-64-9	Dibenzofuran	ND	110	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	290	9.0	ug/kg	
84-66-2	Diethyl phthalate	ND	290	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	24.2	290	11	ug/kg	J
206-44-0	Fluoranthene	25.6	110	16	ug/kg	J
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	140	ug/kg	
67-72-1	Hexachloroethane	ND	290	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	110	13	ug/kg	
78-59-1	Isophorone	ND	290	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	15	ug/kg	
88-74-4	2-Nitroaniline	ND	570	14	ug/kg	
99-09-2	3-Nitroaniline	ND	570	31	ug/kg	
100-01-6	4-Nitroaniline	ND	570	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	290	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	17	ug/kg	
85-01-8	Phenanthrene	16.4	110	16	ug/kg	J
129-00-0	Pyrene	24.6	110	13	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	290	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-130%
4165-62-2	Phenol-d5	67%		30-130%
118-79-6	2,4,6-Tribromophenol	91%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RE20-2(0-1.5)-021014 Lab Sample ID: MC28242-3 Matrix: SO - Soil Method: SW846 8270D SW846 3510C Project: IDOT 042 - IL 72, Hampshire, IL	Date Sampled: 02/10/14 Date Received: 02/12/14 Percent Solids: 86.0
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ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
13798-23-7	Sulfur	6.80	400	ug/kg	JN
112-95-8	Eicosane	11.89	240	ug/kg	JN
	Total TIC, Semi-Volatile		640	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
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Report of Analysis

Client Sample ID: RE20-2(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.0
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8090	18	3.3	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Antimony	0.18 B	0.92	0.14	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Arsenic	6.0	0.92	0.19	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Barium	67.5	4.6	0.067	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.44	0.37	0.022	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.065 B	0.37	0.039	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Calcium	41600	460	5.8	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Chromium	12.0	0.92	0.088	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Cobalt	5.9	4.6	0.043	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Copper	12.7	2.3	0.51	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Iron	12300	9.2	0.80	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Lead	55.1	0.92	0.16	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Magnesium	29200	460	4.7	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Manganese	458	1.4	0.037	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Mercury	0.033 B	0.036	0.0079	mg/kg	1	02/13/14	02/14/14	SA SW846 7471B ¹	SW846 7471B ³
Nickel	10.2	3.7	0.041	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Potassium	957	460	7.9	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Selenium	0.32 U	0.92	0.32	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Silver	0.12 U	0.46	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Sodium	2640	460	3.1	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Strontium	21.8	0.92	0.028	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Thallium	0.12 U	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Vanadium	20.7	0.92	0.12	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴
Zinc	40.1	1.8	0.15	mg/kg	1	02/13/14	02/13/14	EAL SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA16731
- (2) Instrument QC Batch: MA16740
- (3) Prep QC Batch: MP22486
- (4) Prep QC Batch: MP22488

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

4.7
 4

Report of Analysis

Client Sample ID: RE20-2(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-3	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.0
Project: IDOT 042 - IL 72, Hampshire, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86		%	1	02/14/14	MC	SM21 2540 B MOD.
pH	8.8		su	1	02/13/14	MA	SW846 9045D

RL = Reporting Limit

4.7
 4

Report of Analysis

Client Sample ID: RE20-2(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-3A	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.0
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0040 B	D004	5.0	0.010	0.0029	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Barium	1.1	D005	100	0.50	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cadmium	0.0023 B	D006	1.0	0.0040	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Chromium	0.0014 U	D007	5.0	0.010	0.0014	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Cobalt	0.052			0.050	0.00040	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Copper	0.0070 U			0.025	0.0070	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Iron	0.21			0.10	0.020	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Lead	0.018	D008	5.0	0.010	0.0017	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Manganese	9.4			0.015	0.00081	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Mercury	0.00010 U	D009	0.20	0.00020	0.00010	mg/l	1	02/19/14	02/20/14	SA SW846 7470A ¹
Nickel	0.029 B			0.040	0.00057	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Selenium	0.0051 B	D010	1.0	0.025	0.0048	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²
Zinc	0.082 B			0.10	0.00050	mg/l	1	02/19/14	02/20/14	EAL SW846 6010C ²

- (1) Instrument QC Batch: MA16758
- (2) Instrument QC Batch: MA16768
- (3) Prep QC Batch: MP22518
- (4) Prep QC Batch: MP22521

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID: RE20-2(0-1.5)-021014	Date Sampled: 02/10/14
Lab Sample ID: MC28242-3B	Date Received: 02/12/14
Matrix: SO - Soil	Percent Solids: 86.0
Project: IDOT 042 - IL 72, Hampshire, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.028		0.010	0.0029	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Barium	0.36 B		0.50	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Beryllium	0.0018 B		0.0040	0.00025	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cadmium	0.00080 B		0.0040	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Chromium	0.057		0.010	0.0014	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Cobalt	0.00040 U		0.050	0.00040	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Copper	0.039		0.025	0.0070	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Iron	51.1		0.10	0.020	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Lead	0.11		0.010	0.0017	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Manganese	0.53		0.015	0.00081	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Mercury	0.00010 U		0.00020	0.00010	mg/l	1	02/19/14	02/20/14 SA	SW846 7470A ¹
Nickel	0.038 B		0.040	0.00057	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Selenium	0.0048 U		0.025	0.0048	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²
Zinc	0.18		0.10	0.00050	mg/l	1	02/18/14	02/19/14 EAL	SW846 6010C ²

- (1) Instrument QC Batch: MA16756
- (2) Instrument QC Batch: MA16763
- (3) Prep QC Batch: MP22495
- (4) Prep QC Batch: MP22513

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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4

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # MC28242	
Client / Reporting Information		Project Information	
Company Name Weston		Project Name IDOT-042 Hampshire	
Street Address 750 E. Banker Ct Ste 500		Street: Jermon Hills IL 60061	
City Jermon Hills IL 60061		Billing Information (if different from Report to)	
State IL		Company Name	
Zip 60061		Street Address	
Project Contact S. Babusini Kumar		City	
E-mail		State	
Phone # 847-918-4018		Zip	
Fax #		Client POC	
Project Manager T. Wallis		Attention:	
Phone #		FO#	
Sampler(s) Name(s)		FO#	
T. Wallis		Matt Mornell	
Accutest Sample #		Collection	
Field ID / Point of Collection		MECH/DI Val #	
Date		Time	
Sampled by		Matrix	
# of bottles		Number of preserved bottles	
HCl		HNO3	
H2SO4		H2O2	
DI Water		MEOCH	
ENGLURE		Stabilizer	
LAB USE ONLY		LAB USE ONLY	
25 ALB-12(0-1.5)-021114		2-11-14 0915 TW S 3	
26 AL13-12(0-1.5)-021114D		0915	
27 F318-1(0-1.5)-021114		0935	
28 F318-3(0-1.5)-021114		0950	
29 AL19-1(0-1.5)-021114		1005	
30 AL19-3(0-1.5)-021114		1025	
31 AL19-5(0-1.5)-021114		1040	
32 ALB-11(0-1.5)-021114		1130	
33 ALB-13(0-1.5)-021114		1145	
34 ALB-15(0-1.5)-021114		1200	
35 ALB-17(0-1.5)-021114		2-11-14 1215 TW S 3	
36 ALB-19(0-1.5)-021114		2-11-14 1240 TW S 3	
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:	
<input checked="" type="checkbox"/> Std. 10 Business Days		_____	
<input type="checkbox"/> Std. 5 Business Days (By Contract only)		_____	
<input type="checkbox"/> 5 Day RUSH		_____	
<input type="checkbox"/> 3 Day EMERGENCY		_____	
<input type="checkbox"/> 2 Day EMERGENCY		_____	
<input type="checkbox"/> 1 Day EMERGENCY		_____	
Emergency & Rush T/A data available VIA Lablink		Commercial "A" = Results Only	
<input type="checkbox"/> Commercial "A" (Level 1)		<input type="checkbox"/> NYASP Category A	
<input type="checkbox"/> Commercial "B" (Level 2)		<input type="checkbox"/> NYASP Category B	
<input type="checkbox"/> FULLT1 (Level 3+4)		<input type="checkbox"/> State Forms	
<input type="checkbox"/> CT RCP		<input type="checkbox"/> EDD Format	
<input type="checkbox"/> MA MCP		<input type="checkbox"/> Other _____	
Commercial "A" = Results Only		Commercial "B" = Results + QC Summary	
Data Deliverable Information		Comments / Special Instructions	
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
1 Z. Wallis	2-11-14/1538	[Signature]	2-12-14
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
3		[Signature]	
Relinquished by:	Date Time:	Received By:	Date Time:
5		[Signature]	
Custody Seal #	<input type="checkbox"/> Intact	Preserved where applicable	On Ice - <input type="checkbox"/>
	<input type="checkbox"/> Not Intact	<input type="checkbox"/>	Cooler Temp: 1.0-1.0-2.0

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