Illinois Department of Transportation
2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 14, 2014

SUBJECT: FAP Route 344 (IL 83)
Project ACHSIP-0344 (058)
Section 2013-063TS
DuPage County
Contract No. 60X35
Item No. 12, April 25, 2014 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Replaced the Schedule of Prices
2. Revised page ii of the Table of Contents to the Special Provisions
3. Revised pages 116-119 of the Special Provisions
4. Added pages 139-185 to the Special Provisions
5. Revised Sheet 12 of the plans

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

John D. Baranzelli, P.E.
Acting Engineer of Design and Environment

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: John Fortmann, Region 1, District 1; Tim Kell; D; Estimates

MS/kp

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - **60X35**

State Job # - C-91-074-14

County Name - DUPAGE- -
Code - 43 - -
District - 1 - -
Section Number - 2013-063TS

Project Number
ACHSIP-0344/058/
*REVISED: APRIL 11, 2014

Route
FAP 344

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0324085	EM VEH P S LSC 20 3C	FOOT	3,152.000				
X0325938	TEMP WIR INTERCON COM	L SUM	1.000				
X8100105	CONDUIT SPLICE	EACH	4.000				
X8570226	FAC T4 CAB SPL	EACH	2.000				
X8620200	UNINTER POWER SUP SPL	EACH	5.000				
X8630104	CONT CAB TYPE IV SPL	EACH	3.000				
X8710024	FOCC62.5/125 MM12SM24	FOOT	19,561.000				
Z0030850	TEMP INFO SIGNING	SQ FT	103.000				
Z0033056	OPTIM TRAF SIGNAL SYS	EACH	1.000				
Z0073510	TEMP TR SIGNAL TIMING	EACH	4.000				
Z0076600	TRAINEES	HOUR	500.000		0.800		400.000
Z0076604	TRAINEES TPG	HOUR	500.000		15.000		7,500.000
31101200	SUB GRAN MAT B 4	SQ YD	97.000				
42001300	PROTECTIVE COAT	SQ YD	107.000				
42400200	PC CONC SIDEWALK 5	SQ FT	847.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
42400800	DETECTABLE WARNINGS	SQ FT	125.000				
44000500	COMB CURB GUTTER REM	FOOT	48.000				
44000600	SIDEWALK REM	SQ FT	259.000				
44003100	MEDIAN REMOVAL	SQ FT	32.000				
44201785	CL D PATCH T1 12	SQ YD	52.000				
60603800	COMB CC&G TB6.12	FOOT	48.000				
60624600	CORRUGATED MED	SQ FT	10.000				
*ADD 66900200	NON SPL WASTE DISPOSL	CU YD	200.000				
*ADD 66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
*ADD 66900530	SOIL DISPOSAL ANALY	EACH	4.000				
67000400	ENGR FIELD OFFICE A	CAL MO	9.000				
67100100	MOBILIZATION	L SUM	1.000				
70100310	TRAF CONT-PROT 701421	L SUM	1.000				
70102630	TR CONT & PROT 701601	L SUM	1.000				
70102635	TR CONT & PROT 701701	L SUM	1.000				

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70102640	TR CONT & PROT 701801	L SUM	1.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	3.000				
72000100	SIGN PANEL T1	SQ FT	177.000				
72000200	SIGN PANEL T2	SQ FT	207.000				
72400710	RELOC SIGN PANEL T1	SQ FT	15.000				
78000400	THPL PVT MK LINE 6	FOOT	723.000				
78000600	THPL PVT MK LINE 12	FOOT	29.000				
78000650	THPL PVT MK LINE 24	FOOT	41.000				
78300100	PAVT MARKING REMOVAL	SQ FT	119.000				
80500020	SERV INSTALL POLE MT	EACH	5.000				
81028200	UNDRGRD C GALVS 2	FOOT	5,218.000				
81028210	UNDRGRD C GALVS 2 1/2	FOOT	72.000				
81028220	UNDRGRD C GALVS 3	FOOT	565.000				
81028240	UNDRGRD C GALVS 4	FOOT	2,595.000				
81400100	HANDHOLE	EACH	6.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
81400200	HD HANDHOLE	EACH	22.000				
81400300	DBL HANDHOLE	EACH	10.000				
85000200	MAIN EX TR SIG INSTAL	EACH	3.000				
86400100	TRANSCEIVER - FIB OPT	EACH	5.000				
87300925	ELCBL C TRACER 14 1C	FOOT	19,423.000				
87301215	ELCBL C SIGNAL 14 2C	FOOT	2,397.000				
87301225	ELCBL C SIGNAL 14 3C	FOOT	5,636.000				
87301245	ELCBL C SIGNAL 14 5C	FOOT	18,967.000				
87301255	ELCBL C SIGNAL 14 7C	FOOT	2,771.000				
87301305	ELCBL C LEAD 14 1PR	FOOT	10,722.000				
87301805	ELCBL C SERV 6 2C	FOOT	321.000				
87301900	ELCBL C EGRDC 6 1C	FOOT	4,244.000				
87502440	TS POST GALVS 10	EACH	1.000				
87502500	TS POST GALVS 16	EACH	2.000				
87700150	S MAA & P 22	EACH	1.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
87700160	S MAA & P 24	EACH	5.000				
87700170	S MAA & P 26	EACH	3.000				
87700180	S MAA & P 28	EACH	1.000				
87700190	S MAA & P 30	EACH	3.000				
87700210	S MAA & P 34	EACH	1.000				
87700220	S MAA & P 36	EACH	3.000				
87700230	S MAA & P 38	EACH	1.000				
87700260	S MAA & P 44	EACH	1.000				
87700280	S MAA & P 48	EACH	1.000				
87700300	S MAA & P 52	EACH	4.000				
87700310	S MAA & P 54	EACH	1.000				
87700320	S MAA & P 55	EACH	1.000				
87700330	S MAA & P 56	EACH	1.000				
87700400	S MAA & P 60	EACH	1.000				
87700404	S MAA & P 62	EACH	1.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
87700418	S MAA & P 68	EACH	1.000				
87800100	CONC FDN TY A	FOOT	36.000				
87800150	CONC FDN TY C	FOOT	20.000				
87800400	CONC FDN TY E 30D	FOOT	209.000				
87800415	CONC FDN TY E 36D	FOOT	116.000				
87800420	CONC FDN TY E 42D	FOOT	88.000				
87900200	DRILL EX HANDHOLE	EACH	9.000				
88030020	SH LED 1F 3S MAM	EACH	55.000				
88030110	SH LED 1F 5S MAM	EACH	4.000				
88030210	SH LED 2F 3S BM	EACH	1.000				
88030220	SH LED 2F 5S BM	EACH	1.000				
88030240	SH LED 2F 1-3 1-5 BM	EACH	2.000				
88102717	PED SH LED 1F BM CDT	EACH	6.000				
88200210	TS BACKPLATE LOU ALUM	EACH	80.000				
88500100	INDUCTIVE LOOP DETECT	EACH	41.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
88600100	DET LOOP T1	FOOT	4,591.000				
88700200	LIGHT DETECTOR	EACH	3.000				
88700300	LIGHT DETECTOR AMP	EACH	1.000				
88800100	PED PUSH-BUTTON	EACH	6.000				
89000100	TEMP TR SIG INSTALL	EACH	4.000				
89500100	RELOC EX SIG HEAD	EACH	27.000				
89500200	RELOC EX PED SIG HEAD	EACH	6.000				
89500400	RELOC EX PED PUSH-BUT	EACH	6.000				
89501100	RELOC EX TS CONT	EACH	3.000				
89501150	RELOC EX TS POST	EACH	6.000				
89501400	REL EM VEH PR SYS D U	EACH	12.000				
89501410	REL EM VEH PR SYS P U	EACH	4.000				
89502200	MOD EX CONTR	EACH	2.000				
89502300	REM ELCBL FR CON	FOOT	34,084.000				
89502375	REMOV EX TS EQUIP	EACH	5.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
89502380	REMOV EX HANDHOLE	EACH	32.000				
89502382	REMOV EX DBL HANDHOLE	EACH	5.000				
89502385	REMOV EX CONC FDN	EACH	44.000				

Revised 04/16/2014

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

Revise Article 669.01 of the Standard Specifications to read:

"669.01 Description. This work shall consist of the transportation and proper disposal of contaminated soil and water. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their content and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities."

Revise Article 669.08 of the Standard Specifications to read:

"669.08 Contaminated Soil and/or Groundwater Monitoring. The Contractor shall hire a qualified environmental firm to monitor the area containing the regulated substances. The affected area shall be monitored with a photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID). Any field screen reading on the PID or FID in excess of background levels indicates the potential presence of contaminated material requiring handling as a non-special waste, special waste, or hazardous waste. No excavated soils can be taken to a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation with detectable PID or FID meter readings that are above background. The PID or FID meter shall be calibrated on-site and background level readings taken and recorded daily. All testing shall be done by a qualified engineer/technician. Such testing and monitoring shall be included in the work. The Contractor shall identify the exact limits of removal of non-special waste, special waste, or hazardous waste. All limits shall be approved by the Engineer prior to excavation. The Contractor shall take all necessary precautions.

Based upon the land use history of the subject property and/or PID or FID readings indicating contamination, a soil or groundwater sample shall be taken from the same location and submitted to an approved laboratory. Soil or groundwater samples shall be analyzed for the contaminants of concern, including pH, based on the property's land use history or the parameters listed in the maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605. The analytical results shall serve to document the level of soil contamination. Soil and groundwater samples may be required at the discretion of the Engineer to verify the level of soil and groundwater contamination.

Samples shall be grab samples (not combined with other locations). The samples shall be taken with decontaminated or disposable instruments. The samples shall be placed in sealed containers and transported in an insulated container to the laboratory. The container shall maintain a temperature of 39 °F (4 °C). All samples shall be clearly labeled. The labels shall indicate the sample number, date sampled, location and elevation, and any other observations.

The laboratory shall use analytical methods which are able to meet the lowest appropriate practical quantitation limits (PQL) or estimated quantitation limit (EQL) specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846 and "Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039. For parameters where the specified cleanup objective is below the acceptable detection limit (ADL), the ADL shall serve as the cleanup objective. For other parameters the ADL shall be equal to or below the specified cleanup objective."

Replace the first two paragraphs of Article 669.09 of the Standard Specifications with the following:

"669.09 Contaminated Soil and/or Groundwater Management and Disposal. The management and disposal of contaminated soil and/or groundwater shall be according to the following:

(a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605, the soil shall be managed as follows:

(b)

(1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but they are still considered within area background levels by the Engineer, the excavated soil can be utilized within the construction limits as fill, when suitable. Such soil excavated for storm sewers can be placed back into the excavated trench as backfill, when suitable, unless trench backfill is specified. If the soils cannot be utilized within the construction limits, they shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.

(2) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(5) When the Engineer determines soil cannot be managed according to Articles 669.09(a)(1) through (a)(4) above, the soil shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.

(b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the construction limits or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation for the following reason.

(1) The pH of the soil is less than 6.25 or greater than 9.0.

(2) The soil exhibited elevated photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID) readings.

(c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed TACO Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 IAC 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation.

(d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Illinois Administrative Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste.

All groundwater encountered within lateral trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench it must be removed as a special or hazardous waste. The Contractor is prohibited from managing groundwater within the trench by discharging it through any existing or new storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer."

Revise Article 669.14 of the Standard Specifications to read:

"669.14 Final Environmental Construction Report. At the end of the project, the Contractor will prepare and submit three copies of the Environmental Construction Report on the activities conducted during the life of the project, one copy shall be submitted to the Resident Engineer, one copy shall be submitted to the District's Environmental Studies Unit, and one copy shall be submitted with an electronic copy in Adode.pdf format to the Geologic and Waste Assessment Unit, Bureau of Design and Environment, IDOT, 2300 South Dirksen Parkway, Springfield, Illinois 62764. The technical report shall include all pertinent information regarding the project including, but not limited to:

(a) Measures taken to identify, monitor, handle, and dispose of soil or groundwater containing regulated substances, to prevent further migration of regulated substances, and to protect workers,

(b) Cost of identifying, monitoring, handling, and disposing of soil or groundwater containing regulated substances, the cost of preventing further migration of regulated substances, and the cost for worker protection from the regulated substances. All cost should be in the format of the contract pay items listed in the contract plans (identified by the preliminary environmental site assessment (PESA) site number),

(c) Plan sheets showing the areas containing the regulated substances,

(d) Field sampling and testing results used to identify the nature and extent of the regulated substances,

(e) Waste manifests (identified by the preliminary environmental site assessment (PESA) site number) for special or hazardous waste disposal, and

(f) Landfill tickets (identified by the preliminary environmental site assessment (PESA) site number) for non-special waste disposal."

Revise the second paragraph of Article 669.16 of the Standard Specifications to read:

"The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL."

Qualifications. The term environmental firm shall mean an environmental firm with at least five (5) documented leaking underground storage tank (LUST) cleanups or that is pre-qualified in hazardous waste by the Department. Documentation includes but not limited to verifying remediation and special waste operations for sites contaminated with gasoline, diesel, or waste oil in accordance with all Federal, State, or local regulatory requirements and shall be provided to the Engineer for approval. The environmental firm selected shall not be a former or current consultant or have any ties with any of the properties contained within and/or adjacent to this construction project.

General. This Special Provision will likely require the Contractor to subcontract for the execution of certain activities.

All contaminated materials shall be managed as either "uncontaminated soil" or non-special waste. This work shall include monitoring and potential sampling, analytical testing, and management of a material contaminated by regulated substances. The Environmental Firm shall continuously monitor all soil excavation for worker protection and soil contamination. **Phase I Preliminary Engineering information is available through the District's Environmental Studies Unit.** Soil samples or analysis without the approval of the Engineer will be at no additional cost to the Department. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit whichever is less.

The Contractor shall manage any excavated soils and sediment within the following areas:

- All soil excavated from the Northwest quadrant of IL 83 and Third Avenue (Vacant Lot, PESA Site 2785-20, 4N600 block of IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene, Benzo(b)Fluoranthene, Dibenzo(a,h)Anthracene, Arsenic, Lead, and Manganese. **Revised 04/14/2014**

- All soil excavated from the Southwest quadrant of IL 83 and Third Avenue (West Shore and Magellan Pipeline Station, PESA Site 2785-22, 4N500 block of IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Northeast quadrant of IL 83 and Third Avenue (West Shore and Magellan Pipeline Station, PESA Site 2785-22, 4N500 block of IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene, Lead, and Manganese.
- All soil excavated from the Southeast quadrant of IL 83 and Third Avenue (Residence, PESA Site 2785-23, 4N553 block of IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Northeast quadrant of IL 83 and Grove Avenue (Fenton Community High School, PESA Site 2785-16, 1000 West Green Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- All soil excavated from the Southeast quadrant of IL 83 and Grove Avenue (Royal Grove Apartments, PESA Site 2785-18, 1100-1182 Grove Avenue). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Iron, Lead, and Manganese.
- All soil excavated from the Southwest quadrant of IL 83 and Grove Avenue (Residence, PESA Site 2785-17, 143 Sherwood Drive). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Arsenic, Lead, and Manganese.
- All soil excavated from the Northwest quadrant of IL 83 and Hillside Drive (Residence, PESA Site 2785-10, 1201 West Hillside Drive). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Southwest quadrant of IL 83 and Hillside Drive (Residence, PESA Site 2785-12, 1202 West Hillside Drive). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Northeast quadrant of IL 83 and Hillside Drive (Vacant Lot, PESA Site 2785-11, 1117 West Hillside Drive). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Southeast quadrant of IL 83 and Hillside Drive (Residence, PESA Site 2785-13, 1114 West Hillside Drive). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Northwest quadrant of IL 83 and Foster Avenue (Shell Gasoline Station, PESA Site 2785-5, 600 North IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Southwest quadrant of IL 83 and Foster Avenue (BP Gasoline Station, PESA Site 2785-7, 550 North IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Northeast quadrant of IL 83 and Foster Avenue (St. Johns United Church of Christ, PESA Site 2785-6, 601 North IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Southeast quadrant of IL 83 and Foster Avenue (Road Ranger Gasoline Station, PESA Site 2785-8, 1188 Foster Avenue). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene and Manganese.
- All soil excavated from the Southwest quadrant of IL 83 and Mark Street (Thorndale Office Center, PESA Site 2785-3, 1050 North IL 83). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- All soil excavated from the Northeast quadrant of IL 83 and Mark Street (Center Point Business Center, PESA Site 2785-2, 2501-2591 Busse Road). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Arsenic, Lead, and Manganese.
- All soil excavated from the Southeast quadrant of IL 83 and Mark Street (Center Point Business Center, PESA Site 2785-2, 2501-2591 Busse Road). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.

IEPA FORM 663

Illinois Environmental Protection Agency

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 344 (IL 83) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
1050 N IL 83

City: Bensenville State: IL Zip Code: _____

County: DuPage Township: 40N

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

Latitude: 41.98838 (Decimal Degrees) Longitude: -87.95977 (-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.

IL 532-2922
LPC 663 Rev. 8/2012

Project Name: FAP 344 (IL 83)

Latitude: 41.98838 Longitude: -87.95977

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 2785-3-B01 WAS SAMPLED ADJACENT TO SITE No. 2785-3. SEE FIGURE 6 AND TABLE 3c OF THE REVISED PRELIMINARY SITE INVESTIGATION

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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-72116-3

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

I, Steven Gobelman (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, Bureau of Design and Environment

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:

4/10/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS
P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation **"No Contaminants of Concern Noted"** were below the most stringent MAC.

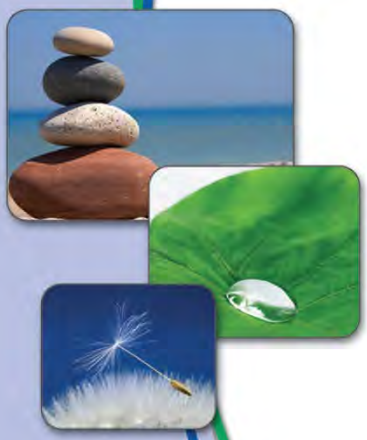
The laboratory report for site soils follows this summary table.

ISGS Site 2785-3
Thorndale Office Center

Sample ID	2785-3-B01							
Sample Depth (ft)	0-4							
Sample Date	2/24/2014							
PID	0							
Sample pH	8.2	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Matrix	Soil							
Semivolatile Organic Compounds (mg/kg)								
Benzo[a]pyrene	0.23	1.2	0.09	0.09	0.98	1.3	2.1	NA

Andrews Engineering, Inc.
3/7/2014

T:\DOT2013\IDOT2013-057\MON\663\AES WO 057 663 Tables



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-72116-3
Client Project/Site: IDOT - Bensenville I83 - WO 057

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
3/3/2014 12:59:43 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-3

Client Sample ID: 2785-3-B01
Date Collected: 02/24/14 10:00
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-3
Matrix: Solid
Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0045		0.0045	0.0019	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Benzene	<0.0045		0.0045	0.00062	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Bromodichloromethane	<0.0045		0.0045	0.00078	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Bromoform	<0.0045		0.0045	0.0010	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Bromomethane	<0.0045		0.0045	0.0014	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Carbon disulfide	<0.0045		0.0045	0.00067	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Carbon tetrachloride	<0.0045		0.0045	0.00082	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Chlorobenzene	<0.0045		0.0045	0.00046	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Chloroethane	<0.0045		0.0045	0.0012	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Chloroform	<0.0045		0.0045	0.00052	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Chloromethane	<0.0045		0.0045	0.00095	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00064	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.00059	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Dibromochloromethane	<0.0045		0.0045	0.00078	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,1-Dichloroethane	<0.0045		0.0045	0.00071	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,1-Dichloroethene	<0.0045		0.0045	0.00073	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,2-Dichloropropane	<0.0045		0.0045	0.00068	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.00059	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Ethylbenzene	<0.0045		0.0045	0.00091	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
2-Hexanone	<0.0045		0.0045	0.0013	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Methylene Chloride	<0.0045		0.0045	0.0012	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0012	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Methyl tert-butyl ether	<0.0045		0.0045	0.00074	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Styrene	<0.0045		0.0045	0.00059	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00091	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Tetrachloroethene	<0.0045		0.0045	0.00069	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Toluene	<0.0045		0.0045	0.00063	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.00062	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.00081	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.00067	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00081	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Trichloroethene	<0.0045		0.0045	0.00074	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Vinyl acetate	<0.0045		0.0045	0.00071	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Vinyl chloride	<0.0045		0.0045	0.00095	mg/Kg		02/25/14 07:00	02/26/14 15:58	1
Xylenes, Total	<0.0090		0.0090	0.00041	mg/Kg		02/25/14 07:00	02/26/14 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*	*02/25/14 07:00*	*02/26/14 15:58*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/25/14 07:00*	*02/26/14 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*	*02/25/14 07:00*	*02/26/14 15:58*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*	*02/25/14 07:00*	*02/26/14 15:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg		02/25/14 06:48	02/25/14 19:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg		02/25/14 06:48	02/25/14 19:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg		02/25/14 06:48	02/25/14 19:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg		02/25/14 06:48	02/25/14 19:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-3

Client Sample ID: 2785-3-B01
Date Collected: 02/24/14 10:00
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-3
Matrix: Solid
Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Acenaphthylene	0.020	J	0.038	0.0051	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Phenanthrene	0.080		0.038	0.0054	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Anthracene	0.035	J	0.038	0.0065	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Carbazole	<0.19		0.19	0.10	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Fluoranthene	0.26		0.038	0.0072	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Pyrene	0.23		0.038	0.0077	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Benzo[a]anthracene	0.17		0.038	0.0052	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-3

Client Sample ID: 2785-3-B01
Date Collected: 02/24/14 10:00
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-3
Matrix: Solid
Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19		0.038	0.011	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Benzo[b]fluoranthene	0.29		0.038	0.0084	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Benzo[k]fluoranthene	0.098		0.038	0.011	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Benzo[a]pyrene	0.23		0.038	0.0075	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Indeno[1,2,3-cd]pyrene	0.16		0.038	0.010	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Dibenz(a,h)anthracene	0.055		0.038	0.0075	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
Benzo[g,h,i]perylene	0.21		0.038	0.012	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/25/14 06:48	02/25/14 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*73*		*25 - 110*	*02/25/14 06:48*	*02/25/14 19:33*	*1*
Phenol-d5	*53*		*31 - 110*	*02/25/14 06:48*	*02/25/14 19:33*	*1*
Nitrobenzene-d5	*57*		*25 - 115*	*02/25/14 06:48*	*02/25/14 19:33*	*1*
2-Fluorobiphenyl	*68*		*25 - 119*	*02/25/14 06:48*	*02/25/14 19:33*	*1*
2,4,6-Tribromophenol	*77*		*35 - 137*	*02/25/14 06:48*	*02/25/14 19:33*	*1*
Terphenyl-d14	*98*		*36 - 134*	*02/25/14 06:48*	*02/25/14 19:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Arsenic	6.7		0.60	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Barium	64		0.60	0.065	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Beryllium	0.62		0.24	0.048	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Boron	8.4		3.0	0.60	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Cadmium	0.28	B	0.12	0.015	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Calcium	49000	B	120	33	mg/Kg	☼	02/26/14 10:00	02/27/14 15:08	10
Chromium	17		0.60	0.070	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Cobalt	11		0.30	0.060	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Copper	23		0.60	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Iron	19000		12	5.0	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Lead	17		0.30	0.090	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Magnesium	19000	B	6.0	1.2	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Manganese	420	B	0.60	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Nickel	28		0.60	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Potassium	2100		30	1.8	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Selenium	0.44	J	0.60	0.21	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Sodium	140		60	8.1	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Thallium	<0.60		0.60	0.26	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Vanadium	22		0.30	0.045	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1
Zinc	61		1.2	0.24	mg/Kg	☼	02/26/14 10:00	02/26/14 20:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		03/01/14 13:45	03/01/14 21:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/01/14 13:45	03/01/14 21:40	1
Manganese	0.014	J	0.025	0.010	mg/L		03/01/14 13:45	03/01/14 21:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-3

Client Sample ID: 2785-3-B01
Date Collected: 02/24/14 10:00
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-3
Matrix: Solid

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J	0.50	0.050	mg/L		02/26/14 09:30	02/26/14 21:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/14 09:30	02/26/14 21:16	1
Boron	1.3	B	0.10	0.050	mg/L		02/26/14 09:30	02/26/14 21:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/14 09:30	02/26/14 21:16	1
Chromium	0.045		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:16	1
Iron	35		0.20	0.20	mg/L		02/26/14 09:30	02/26/14 21:16	1
Lead	0.033		0.0075	0.0075	mg/L		02/26/14 09:30	02/26/14 21:16	1
Manganese	0.19		0.025	0.010	mg/L		02/26/14 09:30	02/27/14 12:50	1
Nickel	0.039		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:16	1
Selenium	<0.050		0.050	0.010	mg/L		02/26/14 09:30	02/26/14 21:16	1
Silver	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:16	1
Zinc	0.28	B	0.10	0.020	mg/L		02/26/14 09:30	02/26/14 21:16	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/14 09:30	02/26/14 16:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/14 09:30	02/26/14 16:01	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000040	J B	0.00020	0.000020	mg/L		02/26/14 16:30	02/27/14 13:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0071	mg/Kg	☼	02/25/14 14:45	02/26/14 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			02/27/14 15:14	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-3

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
POL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: IL 83 DuPage Co Project No.: IDOT 2013-057 TAT: [X] 15 BD [ ] 10 BD [ ] 5 BD [ ] 2 BD ___ Other Sampler: KMA, ZK (AEI)	COC No.: 1 of 1 Lab Job No.: 500-72116 Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key: W: Water; S: Soil; SL: Sludge; S: Sediment; L: Leachate; DW: Drinking Water; OL: Oil; O: Other

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	ANALYSES: VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization				Comments
3	2785-3-B01	2/24/14	10:00	S	X	X					X	X	X	X					0-4

Relinquished by:	Date/Time	Received by:	Date/Time
[signature] (AEI)	2/24/14 2:15 PM	[signature] TA	2/24/14 1715
[signature] TA 2/24/14	Date/Time 1520	Received by: [signature]	Date/Time 2/25/14 0630
Relinquished by:	Date/Time	Received by:	Date/Time

Andrews Engineering, Inc.

Page 11 of 12

J:\IDOT2013\Forms\COCs\AEI - IDOT2013 COC (TAL).

3/3/2014

Illinois Environmental Protection Agency

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 344 (IL 83) Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
1100 Block of Busse Road

City: Bensenville State: IL Zip Code: _____

County: DuPage Township: 40N

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

Latitude: 41.98879 (Decimal Degrees) Longitude: -87.95952 (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: 0314143001 BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

	Site Owner		Site Operator	
Name:	Illinois Department of Transportation		Illinois Department of Transportation	
Street Address:	201 West Center Court		201 West Center Court	
PO Box:				
City:	Schaumburg	State: IL	Schaumburg	State: IL
Zip Code:	60196-1096	Phone: 847-705-4101	60196-1096	Phone: 847-705-4101
Contact:	Sam Mead		Sam Mead	
Email, if available:	Sam.Mead@illinois.gov		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.

IL 532-2922
LPC 663 Rev. 8/2012

Project Name: FAP 344 (IL 83)

Latitude: 41.98879 Longitude: -87.95952

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 2785-4-B02 WAS SAMPLED ADJACENT TO SITE No. 2785-4. SEE FIGURE 6 AND TABLE 3d OF THE REVISED PRELIMINARY SITE INVESTIGATION

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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-72116-4

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

I, Steven Gobelman (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, Bureau of Design and Environment

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:

4/10/17
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

P.E. or L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

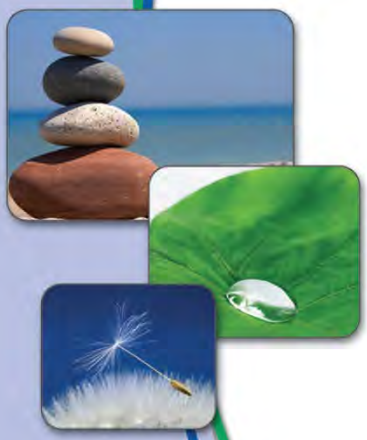
The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation **"No Contaminants of Concern Noted"** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 2785-4
Intersection of IL 83 and Mark Street Roadway ROW

Sample ID	2785-4-B02-1	2785-4-B02-2	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparisons Only
Sample Depth (ft)	0-7	7-14						
Sample Date	2/24/2014	2/24/2014						
PID	0	0						
Sample pH	7.7	7.63						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-72116-4
Client Project/Site: IDOT - Bensenville I83 - WO 057

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
3/3/2014 1:00:38 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-1
Date Collected: 02/24/14 09:15
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-6
Matrix: Solid
Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.28		0.28	0.074	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Benzene	<0.014		0.014	0.0042	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Bromodichloromethane	<0.11		0.11	0.019	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Bromoform	<0.11		0.11	0.025	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Bromomethane	<0.11		0.11	0.039	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
2-Butanone (MEK)	<0.28		0.28	0.083	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Carbon disulfide	<0.28		0.28	0.024	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Carbon tetrachloride	<0.057		0.057	0.015	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Chlorobenzene	<0.057		0.057	0.0081	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Chloroethane	<0.11		0.11	0.025	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Chloroform	<0.057		0.057	0.012	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Chloromethane	<0.11		0.11	0.026	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
cis-1,2-Dichloroethene	<0.057		0.057	0.0070	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
cis-1,3-Dichloropropene	<0.057		0.057	0.010	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Dibromochloromethane	<0.11		0.11	0.020	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,1-Dichloroethane	<0.057		0.057	0.010	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,2-Dichloroethane	<0.057		0.057	0.016	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,1-Dichloroethene	<0.057		0.057	0.017	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,2-Dichloropropane	<0.057		0.057	0.011	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,3-Dichloropropene, Total	<0.057		0.057	0.010	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Ethylbenzene	<0.014		0.014	0.0071	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
2-Hexanone	<0.28		0.28	0.032	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Methylene Chloride	<0.28		0.28	0.039	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
4-Methyl-2-pentanone (MIBK)	<0.28		0.28	0.019	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Methyl tert-butyl ether	<0.11		0.11	0.024	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Styrene	<0.057		0.057	0.0056	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,1,2,2-Tetrachloroethane	<0.057		0.057	0.013	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Tetrachloroethene	<0.057		0.057	0.0095	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Toluene	<0.014		0.014	0.0065	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
trans-1,2-Dichloroethene	<0.057		0.057	0.014	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
trans-1,3-Dichloropropene	<0.057		0.057	0.012	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,1,1-Trichloroethane	<0.057		0.057	0.011	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
1,1,2-Trichloroethane	<0.057		0.057	0.016	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Trichloroethene	<0.028		0.028	0.011	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Vinyl acetate	<0.11		0.11	0.019	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Vinyl chloride	<0.014		0.014	0.0059	mg/Kg		02/24/14 09:15	02/26/14 13:53	50
Xylenes, Total	<0.028		0.028	0.0039	mg/Kg		02/24/14 09:15	02/26/14 13:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*	*02/24/14 09:15*	*02/26/14 13:53*	*50*
Dibromofluoromethane	*108*		*75 - 120*	*02/24/14 09:15*	*02/26/14 13:53*	*50*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 125*	*02/24/14 09:15*	*02/26/14 13:53*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*02/24/14 09:15*	*02/26/14 13:53*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg		02/25/14 06:48	02/25/14 20:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg		02/25/14 06:48	02/25/14 20:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg		02/25/14 06:48	02/25/14 20:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg		02/25/14 06:48	02/25/14 20:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-1
Date Collected: 02/24/14 09:15
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-6
Matrix: Solid
Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.046	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Naphthalene	0.13		0.037	0.0058	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2-Methylnaphthalene	0.11		0.037	0.0069	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Acenaphthene	0.085		0.037	0.0068	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Dibenzofuran	0.063	J	0.19	0.044	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Fluorene	0.081		0.037	0.0053	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
4,6-Dinitro-2-methylphenol	<0.37		0.37	0.30	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Phenanthrene	0.29		0.037	0.0052	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Anthracene	0.055		0.037	0.0063	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Fluoranthene	0.15		0.037	0.0070	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Pyrene	0.12		0.037	0.0075	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Benzo[a]anthracene	0.044		0.037	0.0051	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-1
Date Collected: 02/24/14 09:15
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-6
Matrix: Solid
Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.056		0.037	0.010	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Benzo[b]fluoranthene	0.047		0.037	0.0081	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Benzo[k]fluoranthene	0.018	J	0.037	0.011	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Benzo[a]pyrene	0.031	J	0.037	0.0073	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.037	0.0097	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
Benzo[g,h,i]perylene	0.041		0.037	0.012	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/25/14 06:48	02/25/14 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*78*		*25 - 110*	*02/25/14 06:48*	*02/25/14 20:23*	*1*
Phenol-d5	*49*		*31 - 110*	*02/25/14 06:48*	*02/25/14 20:23*	*1*
Nitrobenzene-d5	*52*		*25 - 115*	*02/25/14 06:48*	*02/25/14 20:23*	*1*
2-Fluorobiphenyl	*55*		*25 - 119*	*02/25/14 06:48*	*02/25/14 20:23*	*1*
2,4,6-Tribromophenol	*75*		*35 - 137*	*02/25/14 06:48*	*02/25/14 20:23*	*1*
Terphenyl-d14	*103*		*36 - 134*	*02/25/14 06:48*	*02/25/14 20:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Arsenic	9.9		0.56	0.11	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Barium	55		0.56	0.060	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Beryllium	0.54		0.22	0.045	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Boron	12		2.8	0.56	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Cadmium	0.27	B	0.11	0.014	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Calcium	59000	B	110	30	mg/Kg	☼	02/26/14 10:00	02/27/14 15:20	10
Chromium	14		0.56	0.065	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Cobalt	18		0.28	0.056	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Copper	35		0.56	0.11	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Iron	19000		11	4.6	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Lead	28		0.28	0.083	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Magnesium	27000	B	5.6	1.2	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Manganese	340	B	0.56	0.11	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Nickel	35		0.56	0.11	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Potassium	2300		28	1.7	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Selenium	0.71		0.56	0.20	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Sodium	720		56	7.5	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Thallium	0.56		0.56	0.24	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Vanadium	17		0.28	0.041	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1
Zinc	69		1.1	0.23	mg/Kg	☼	02/26/14 10:00	02/26/14 21:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		02/26/14 09:30	02/26/14 21:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/14 09:30	02/26/14 21:40	1
Boron	1.3	B	0.10	0.050	mg/L		02/26/14 09:30	02/26/14 21:40	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-1
Date Collected: 02/24/14 09:15
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-6
Matrix: Solid

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/14 09:30	02/26/14 21:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:40	1
Iron	0.45		0.20	0.20	mg/L		02/26/14 09:30	02/26/14 21:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/14 09:30	02/26/14 21:40	1
Manganese	0.090		0.025	0.010	mg/L		02/26/14 09:30	02/27/14 13:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:40	1
Selenium	<0.050		0.050	0.010	mg/L		02/26/14 09:30	02/26/14 21:40	1
Silver	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:40	1
Zinc	0.19	B	0.10	0.020	mg/L		02/26/14 09:30	02/26/14 21:40	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/14 09:30	02/26/14 16:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/14 09:30	02/26/14 16:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000052	J B	0.00020	0.000020	mg/L		02/26/14 16:30	02/27/14 13:59	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0074	mg/Kg	☼	02/25/14 14:45	02/26/14 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			02/27/14 15:17	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-2
Date Collected: 02/24/14 09:20
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-7
Matrix: Solid
Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0089		0.0047	0.0020	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Benzene	<0.0047		0.0047	0.00065	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Bromodichloromethane	<0.0047		0.0047	0.00081	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Bromoform	<0.0047		0.0047	0.0011	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Bromomethane	<0.0047		0.0047	0.0014	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Carbon disulfide	<0.0047		0.0047	0.00071	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Carbon tetrachloride	<0.0047		0.0047	0.00086	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Chlorobenzene	<0.0047		0.0047	0.00048	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Chloroethane	<0.0047		0.0047	0.0013	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Chloroform	<0.0047		0.0047	0.00054	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Chloromethane	<0.0047		0.0047	0.00099	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00067	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.00062	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Dibromochloromethane	<0.0047		0.0047	0.00082	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,1-Dichloroethane	<0.0047		0.0047	0.00075	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,1-Dichloroethene	<0.0047		0.0047	0.00076	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,2-Dichloropropane	<0.0047		0.0047	0.00072	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,3-Dichloropropene, Total	<0.0047		0.0047	0.00062	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Ethylbenzene	<0.0047		0.0047	0.00096	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
2-Hexanone	<0.0047		0.0047	0.0014	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Methylene Chloride	<0.0047		0.0047	0.0013	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0012	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Methyl tert-butyl ether	<0.0047		0.0047	0.00078	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Styrene	<0.0047		0.0047	0.00062	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00096	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Tetrachloroethene	<0.0047		0.0047	0.00072	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Toluene	<0.0047		0.0047	0.00068	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.00065	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.00085	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.00071	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00064	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Trichloroethene	<0.0047		0.0047	0.00078	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Vinyl acetate	<0.0047		0.0047	0.00074	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Vinyl chloride	<0.0047		0.0047	0.00099	mg/Kg		02/25/14 07:00	02/26/14 17:09	1
Xylenes, Total	<0.0095		0.0095	0.00043	mg/Kg		02/25/14 07:00	02/26/14 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*	*02/25/14 07:00*	*02/26/14 17:09*	*1*
Dibromofluoromethane	*107*		*75 - 120*	*02/25/14 07:00*	*02/26/14 17:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*02/25/14 07:00*	*02/26/14 17:09*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*	*02/25/14 07:00*	*02/26/14 17:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg		02/25/14 06:48	02/25/14 21:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg		02/25/14 06:48	02/25/14 21:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg		02/25/14 06:48	02/25/14 21:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg		02/25/14 06:48	02/25/14 21:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-2
Date Collected: 02/24/14 09:20
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-7
Matrix: Solid
Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Carbazole	<0.19		0.19	0.099	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-2
Date Collected: 02/24/14 09:20
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-7
Matrix: Solid
Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
Benzo[g,h,i]perylene	0.012	J	0.038	0.012	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/25/14 06:48	02/25/14 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*66*		*25 - 110*	*02/25/14 06:48*	*02/25/14 21:45*	*1*
Phenol-d5	*47*		*31 - 110*	*02/25/14 06:48*	*02/25/14 21:45*	*1*
Nitrobenzene-d5	*53*		*25 - 115*	*02/25/14 06:48*	*02/25/14 21:45*	*1*
2-Fluorobiphenyl	*57*		*25 - 119*	*02/25/14 06:48*	*02/25/14 21:45*	*1*
2,4,6-Tribromophenol	*76*		*35 - 137*	*02/25/14 06:48*	*02/25/14 21:45*	*1*
Terphenyl-d14	*93*		*36 - 134*	*02/25/14 06:48*	*02/25/14 21:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Arsenic	8.2		0.58	0.11	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Barium	39		0.58	0.062	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Beryllium	0.62		0.23	0.046	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Boron	9.4		2.9	0.58	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Cadmium	0.24	B	0.12	0.015	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Calcium	28000	B	12	3.1	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Chromium	18		0.58	0.067	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Cobalt	12		0.29	0.058	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Copper	22		0.58	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Iron	24000		12	4.7	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Lead	14		0.29	0.086	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Magnesium	19000	B	5.8	1.2	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Manganese	220	B	0.58	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Nickel	35		0.58	0.12	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Potassium	2600		29	1.7	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Sodium	130		58	7.7	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Vanadium	21		0.29	0.043	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1
Zinc	70		1.2	0.23	mg/Kg	☼	02/26/14 10:00	02/26/14 21:20	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.17	J	0.50	0.050	mg/L		02/26/14 09:30	02/26/14 21:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/26/14 09:30	02/26/14 21:44	1
Boron	1.1	B	0.10	0.050	mg/L		02/26/14 09:30	02/26/14 21:44	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Client Sample ID: 2785-4-B02-2
Date Collected: 02/24/14 09:20
Date Received: 02/24/14 14:15

Lab Sample ID: 500-72116-7
Matrix: Solid

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/26/14 09:30	02/26/14 21:44	1
Chromium	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:44	1
Cobalt	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:44	1
Iron	0.88		0.20	0.20	mg/L		02/26/14 09:30	02/26/14 21:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/26/14 09:30	02/26/14 21:44	1
Manganese	0.026		0.025	0.010	mg/L		02/26/14 09:30	02/27/14 13:26	1
Nickel	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:44	1
Selenium	<0.050		0.050	0.010	mg/L		02/26/14 09:30	02/26/14 21:44	1
Silver	<0.025		0.025	0.010	mg/L		02/26/14 09:30	02/26/14 21:44	1
Zinc	0.16	B	0.10	0.020	mg/L		02/26/14 09:30	02/26/14 21:44	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/26/14 09:30	02/26/14 16:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/26/14 09:30	02/26/14 16:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000060	J B	0.00020	0.000020	mg/L		02/26/14 16:30	02/27/14 14:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0075	mg/Kg	☼	02/25/14 14:45	02/26/14 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			02/27/14 15:18	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72116-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
POL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory		
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: **Test America - Chicago** Address: **2417 Bond Street** **University Park, IL 60484** Phone: **708-534-5200** Contact: **Dick Wright** email: richard.wright@testamericainc.com	Project Name: IL 83 DuPage Co Project No.: IDOT 2013-057 TAT: ☒15 BD ☐10 BD ☐5 BD ☐2 BD ___ Other Sampler: KAM, ZK (AEI)	COC No.: 1 of 1 Lab Job No.: 500-72116 Sample Temp:

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter.

Matrix Key: W: Water; S: Soil; SL: Sludge; S: Sediment; L: Leachate; DW: Drinking Water; OL: Oil; O: Other

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
4	2785-4-B01-1	2/24/14	9:35	S	X	X					X	X	X	X						0-7.5
5	2785-4-B01-2	2/24/14	9:40	S	X	X					X	X	X	X						7.5-15
6	2785-4-B02-1	2/24/14	9:15	S	X	X					X	X	X	X						0-7
7	2785-4-B02-2	2/24/14	9:20	S	X	X					X	X	X	X						7-14

Relinquished by:	Date/Time	Received by:	Date/Time
[signature] (AEI)	2/24/14 2:15 PM	[signature] TA 2/24/14	1415
[signature] TA 2/24/14	1520	[signature]	2/25/14 0630

Andrews Engineering, Inc. Page 26 of 27 3/3/2014

Illinois Environmental Protection Agency

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 344 (IL 83) Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
5N200 Block of IL 83

City: Bensenville State: IL Zip Code: _____

County: DuPage Township: 40N

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

Latitude: 41.95535 (Decimal Degrees) Longitude: -87.95955 (-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		Illinois Department of Transportation	
Street Address:	201 West Center Court		201 West Center Court	
PO Box:				
City:	Schaumburg	State: IL	Schaumburg	State: IL
Zip Code:	60196-1096	Phone: 847-705-4101	60196-1096	Phone: 847-705-4101
Contact:	Sam Mead		Sam Mead	
Email, if available:	Sam.Mead@illinois.gov		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.

IL 532-2922
LPC 663 Rev. 8/2012

Project Name: FAP 344 (IL 83)

Latitude: 41.95535 Longitude: -87.95955

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 2785-19-B03 WAS SAMPLED ADJACENT TO SITE No. 2785-19. SEE FIGURE 3 AND TABLE 3I OF THE REVISED PRELIMINARY SITE INVESTIGATION

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]:

TESTAMERICA ANALYTICAL REPORT - TESTAMERICA JOB ID: 500-72231-9

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

I, Steven Gobelman (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, Bureau of Design and Environment

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:

4/10/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

P.E. and L.P.G. Seal:

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Volatile Organic Compounds (mg/kg)
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropene
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Methyl-tert-butyl-ether (MTBE)
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl Acetate
Vinyl Chloride
Xylenes, total
m-Xylene
o-Xylene
p-Xylene
Semivolatile Organic Compounds (mg/kg)
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
2-Methylnaphthalene
2-Methylphenol
2-Nitroaniline
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Methylphenol
4-Nitroaniline
4-Nitrophenol
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene

THIS TABLE LISTS THE PARAMETERS ANALYZED IN SITE SOIL SAMPLES

Analytical Parameters

Semivolatile Organic Compounds (mg/kg) (cont.)
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Chrysene
Dibenzo (a,h) anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Inorganic Compounds, Total (mg/kg)
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
TCLP/SPLP Inorganics (mg/L)
Antimony
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Iron
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

The following table summarizes the results of laboratory analysis of site soil samples. In reading the table,

- Only parameters reported at concentrations above the most stringent MAC are listed.
- Samples with the notation **"No Contaminants of Concern Noted"** were below the most stringent MAC.

The laboratory report for site soils follows this summary table.

ISGS Site 2785-19
Intersection of IL 83 and Grove Ave.

Sample ID	2785-19-B03-1	2785-19-B03-2	[1] Most Stringent MAC	[2] Outside a Populated Area MAC	[3] Populated non-Metropolitan Statistical Area MAC	[4] Within Chicago Corporate Limits MAC	[5] Metropolitan Statistical Area MAC	[6] Class I Soil TCLP/SPLP Comparesins Only
Sample Depth (ft)	0-7	7-14						
Sample Date	2/25/2014	2/25/2014						
PID	0.	0.						
Sample pH	7.5	8.19						
Matrix	Soil	Soil						
No Contaminants of Concern Noted.								

Andrews Engineering, Inc.
3/7/2014

T:\IDOT2013\IDOT2013\357\MON\663\AES WO 057 663 Tables

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-72231-9
Client Project/Site: IDOT - Bensenville I83 - WO 057

For:
Andrews Engineering Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711

Attn: Mike Nelson

Authorized for release by:
3/5/2014 4:13:25 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-1
Date Collected: 02/25/14 14:25
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-29
Matrix: Solid
Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.039		0.0054	0.0023	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Benzene	<0.0054		0.0054	0.00074	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Bromodichloromethane	<0.0054		0.0054	0.00093	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Bromoform	<0.0054		0.0054	0.0012	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Bromomethane	<0.0054		0.0054	0.0016	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
2-Butanone (MEK)	0.0055		0.0054	0.0020	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Carbon disulfide	<0.0054		0.0054	0.00081	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Carbon tetrachloride	<0.0054		0.0054	0.00099	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Chlorobenzene	<0.0054		0.0054	0.00055	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Chloroethane	<0.0054		0.0054	0.0015	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Chloroform	<0.0054		0.0054	0.00062	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Chloromethane	<0.0054		0.0054	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
cis-1,2-Dichloroethene	<0.0054		0.0054	0.00077	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
cis-1,3-Dichloropropene	<0.0054		0.0054	0.00071	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Dibromochloromethane	<0.0054		0.0054	0.00094	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,1-Dichloroethane	<0.0054		0.0054	0.00086	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,2-Dichloroethane	<0.0054		0.0054	0.00080	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,1-Dichloroethene	<0.0054		0.0054	0.00087	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,2-Dichloropropane	<0.0054		0.0054	0.00082	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,3-Dichloropropene, Total	<0.0054		0.0054	0.00071	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Ethylbenzene	<0.0054		0.0054	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
2-Hexanone	<0.0054		0.0054	0.0016	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Methylene Chloride	<0.0054		0.0054	0.0015	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0014	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Methyl tert-butyl ether	<0.0054		0.0054	0.00089	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Styrene	<0.0054		0.0054	0.00071	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,1,2,2-Tetrachloroethane	<0.0054		0.0054	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Tetrachloroethene	<0.0054		0.0054	0.00083	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Toluene	<0.0054		0.0054	0.00076	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
trans-1,2-Dichloroethene	<0.0054		0.0054	0.00074	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
trans-1,3-Dichloropropene	<0.0054		0.0054	0.00097	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,1,1-Trichloroethane	<0.0054		0.0054	0.00081	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
1,1,2-Trichloroethane	<0.0054		0.0054	0.00074	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Trichloroethene	<0.0054		0.0054	0.00089	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Vinyl acetate	<0.0054		0.0054	0.00085	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Vinyl chloride	<0.0054		0.0054	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:18	1
Xylenes, Total	<0.011		0.011	0.00049	mg/Kg		02/26/14 11:05	03/01/14 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*	*02/26/14 11:05*	*03/01/14 06:18*	*1*
Dibromofluoromethane	*106*		*75 - 120*	*02/26/14 11:05*	*03/01/14 06:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*	*02/26/14 11:05*	*03/01/14 06:18*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*	*02/26/14 11:05*	*03/01/14 06:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg		02/27/14 08:07	03/01/14 00:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-1
Date Collected: 02/25/14 14:25
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-29
Matrix: Solid
Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Isophorone	<0.19		0.19	0.044	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Anthracene	<0.038		0.038	0.0065	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Carbazole	<0.19		0.19	0.10	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Pyrene	<0.038		0.038	0.0077	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg		02/27/14 08:07	03/01/14 00:39	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg		02/27/14 08:07	03/01/14 00:39	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-1
Date Collected: 02/25/14 14:25
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-29
Matrix: Solid
Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/27/14 08:07	03/01/14 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*53*		*25 - 110*	*02/27/14 08:07*	*03/01/14 00:39*	*1*
Phenol-d5	*49*		*31 - 110*	*02/27/14 08:07*	*03/01/14 00:39*	*1*
Nitrobenzene-d5	*54*		*25 - 115*	*02/27/14 08:07*	*03/01/14 00:39*	*1*
2-Fluorobiphenyl	*64*		*25 - 119*	*02/27/14 08:07*	*03/01/14 00:39*	*1*
2,4,6-Tribromophenol	*53*		*35 - 137*	*02/27/14 08:07*	*03/01/14 00:39*	*1*
Terphenyl-d14	*82*		*36 - 134*	*02/27/14 08:07*	*03/01/14 00:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Arsenic	7.9		0.59	0.12	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Barium	94		0.59	0.063	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Beryllium	0.92		0.23	0.047	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Boron	8.3		2.9	0.59	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Cadmium	0.047	J	0.12	0.015	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Calcium	8600		12	3.2	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Chromium	24		0.59	0.068	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Cobalt	17		0.29	0.059	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Copper	28		0.59	0.12	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Iron	24000		12	4.8	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Lead	19		0.29	0.087	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Magnesium	9100		5.9	1.2	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Manganese	400		0.59	0.12	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Nickel	51		0.59	0.12	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Potassium	2400		29	1.8	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Sodium	410		59	7.9	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Thallium	0.37	J	0.59	0.25	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Vanadium	29		0.29	0.043	mg/Kg	☼	02/28/14 09:00	03/02/14 01:19	1
Zinc	72		1.2	0.24	mg/Kg	☼	02/28/14 09:00	03/02/14 23:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		02/27/14 10:00	02/27/14 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/14 10:00	02/27/14 21:00	1
Boron	1.8		0.10	0.050	mg/L		02/27/14 10:00	02/27/14 21:00	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-1
Date Collected: 02/25/14 14:25
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-29
Matrix: Solid

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/14 10:00	02/27/14 21:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:00	1
Cobalt	<0.025		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:00	1
Iron	0.54		0.20	0.20	mg/L		02/27/14 10:00	02/27/14 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/27/14 10:00	02/27/14 21:00	1
Manganese	0.017	J	0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:00	1
Nickel	<0.025		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:00	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/14 10:00	02/27/14 21:00	1
Silver	<0.025		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:00	1
Zinc	0.28		0.10	0.020	mg/L		02/27/14 10:00	02/27/14 21:00	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/27/14 10:00	02/27/14 20:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/14 10:00	02/27/14 20:26	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000033	J	0.00020	0.000020	mg/L		02/27/14 10:30	02/28/14 11:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0076	mg/Kg	☼	02/27/14 14:30	02/28/14 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.50		0.200	0.200	SU			02/28/14 10:30	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-2
Date Collected: 02/25/14 14:30
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-30
Matrix: Solid
Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0079		0.0041	0.0018	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Benzene	<0.0041		0.0041	0.00056	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Bromoform	<0.0041		0.0041	0.00093	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Bromomethane	<0.0041		0.0041	0.0012	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Carbon disulfide	<0.0041		0.0041	0.00061	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Carbon tetrachloride	<0.0041		0.0041	0.00074	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Chlorobenzene	<0.0041		0.0041	0.00041	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Chloroethane	<0.0041		0.0041	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Chloroform	<0.0041		0.0041	0.00047	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Chloromethane	<0.0041		0.0041	0.00085	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00057	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00053	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Dibromochloromethane	<0.0041		0.0041	0.00071	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,1-Dichloroethane	<0.0041		0.0041	0.00064	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,1-Dichloroethene	<0.0041		0.0041	0.00066	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,2-Dichloropropane	<0.0041		0.0041	0.00062	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.00053	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Ethylbenzene	<0.0041		0.0041	0.00082	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
2-Hexanone	<0.0041		0.0041	0.0012	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Methylene Chloride	<0.0041		0.0041	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0011	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00067	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Styrene	<0.0041		0.0041	0.00053	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00082	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Tetrachloroethene	<0.0041		0.0041	0.00062	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Toluene	<0.0041		0.0041	0.00057	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.00056	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.00073	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00061	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00055	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Trichloroethene	<0.0041		0.0041	0.00067	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Vinyl acetate	<0.0041		0.0041	0.00064	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Vinyl chloride	<0.0041		0.0041	0.00085	mg/Kg		02/26/14 11:05	03/01/14 06:41	1
Xylenes, Total	<0.0081		0.0081	0.00037	mg/Kg		02/26/14 11:05	03/01/14 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*	*02/26/14 11:05*	*03/01/14 06:41*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*02/26/14 11:05*	*03/01/14 06:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*	*02/26/14 11:05*	*03/01/14 06:41*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*	*02/26/14 11:05*	*03/01/14 06:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg		02/27/14 08:07	03/01/14 01:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-2
Date Collected: 02/25/14 14:30
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-30
Matrix: Solid
Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
N-Nitrosodi-n-propylamine	<0.19		0.19	0.047	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Isophorone	<0.19		0.19	0.043	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Fluorene	<0.038		0.038	0.0054	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
4,6-Dinitro-2-methylphenol	<0.38		0.38	0.31	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Anthracene	<0.038		0.038	0.0064	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Carbazole	<0.19		0.19	0.099	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Pyrene	<0.038		0.038	0.0076	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg		02/27/14 08:07	03/01/14 01:02	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg		02/27/14 08:07	03/01/14 01:02	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-2
Date Collected: 02/25/14 14:30
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-30
Matrix: Solid
Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/27/14 08:07	03/01/14 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*52*		*25 - 110*	*02/27/14 08:07*	*03/01/14 01:02*	*1*
Phenol-d5	*52*		*31 - 110*	*02/27/14 08:07*	*03/01/14 01:02*	*1*
Nitrobenzene-d5	*56*		*25 - 115*	*02/27/14 08:07*	*03/01/14 01:02*	*1*
2-Fluorobiphenyl	*67*		*25 - 119*	*02/27/14 08:07*	*03/01/14 01:02*	*1*
2,4,6-Tribromophenol	*54*		*35 - 137*	*02/27/14 08:07*	*03/01/14 01:02*	*1*
Terphenyl-d14	*72*		*36 - 134*	*02/27/14 08:07*	*03/01/14 01:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Arsenic	3.4		0.54	0.11	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Barium	29		0.54	0.058	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Beryllium	0.40		0.22	0.043	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Boron	6.6		2.7	0.54	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Cadmium	0.070	J	0.11	0.014	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Calcium	32000		11	2.9	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Chromium	11		0.54	0.063	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Cobalt	6.5		0.27	0.054	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Copper	13		0.54	0.11	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Iron	11000		11	4.4	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Lead	8.3		0.27	0.081	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Magnesium	16000		5.4	1.1	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Manganese	200		0.54	0.11	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Nickel	19		0.54	0.11	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Potassium	1500		27	1.6	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Sodium	98		54	7.3	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Thallium	0.29	J	0.54	0.23	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Vanadium	12		0.27	0.040	mg/Kg	☼	02/28/14 09:00	03/02/14 01:24	1
Zinc	32		1.1	0.22	mg/Kg	☼	02/28/14 09:00	03/02/14 23:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.20		0.20	0.20	mg/L		03/04/14 08:45	03/04/14 17:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/14 08:45	03/04/14 17:43	1

Client Sample Results

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Client Sample ID: 2785-19-B03-2
Date Collected: 02/25/14 14:30
Date Received: 02/26/14 10:00

Lab Sample ID: 500-72231-30
Matrix: Solid

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34	J	0.50	0.050	mg/L		02/27/14 10:00	02/27/14 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/27/14 10:00	02/27/14 21:08	1
Boron	1.4		0.10	0.050	mg/L		02/27/14 10:00	02/27/14 21:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/27/14 10:00	02/27/14 21:08	1
Chromium	0.024	J	0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:08	1
Cobalt	<0.025		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:08	1
Iron	17		0.20	0.20	mg/L		02/27/14 10:00	02/27/14 21:08	1
Lead	0.017		0.0075	0.0075	mg/L		02/27/14 10:00	02/27/14 21:08	1
Manganese	0.11		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:08	1
Nickel	0.021	J	0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:08	1
Selenium	<0.050		0.050	0.010	mg/L		02/27/14 10:00	02/27/14 21:08	1
Silver	<0.025		0.025	0.010	mg/L		02/27/14 10:00	02/27/14 21:08	1
Zinc	0.26		0.10	0.020	mg/L		02/27/14 10:00	02/27/14 21:08	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/27/14 10:00	02/27/14 20:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/27/14 10:00	02/27/14 20:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000061	J	0.00020	0.000020	mg/L		02/27/14 10:30	02/28/14 11:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0073	mg/Kg	☼	02/27/14 14:30	02/28/14 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			02/28/14 10:34	1

Definitions/Glossary

Client: Andrews Engineering Inc.
Project/Site: IDOT - Bensenville I83 - WO 057

TestAmerica Job ID: 500-72231-9

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

ANDREWS ENGINEERING INC

CHAIN OF CUSTODY RECORD

Client Contact	Laboratory	Project	COC No.: 1 of 1
Andrews Engineering, Inc. 3300 Ginger Creek Drive Springfield, IL 62711 217-787-2334 Contact: Colleen Grey email: cgrey@andrews-eng.com	Lab: Test America - Chicago Address: 2417 Bond Street University Park, IL 60484 Phone: 708-534-5200 Contact: Dick Wright email: richard.wright@testamericainc.com	Project Name: IL 83 DuPage Co Project No.: IDOT 2013-057 TAT: ☒ 15 BD ☐ 10 BD ☐ 5 BD ☐ 2 BD ___ Other Sampler: KMM, ZK (AEI)	Lab Job No.: 500-72231 Sample Temp: 2.3, 2.7, 2.6

Special Instructions:

See Table 2 for complete parameter lists and minimum reporting limits.

* If Total RCRA metal (mg/kg) result exceeds the Soil Toxicity Characteristics Limit (Table 3), run TCLP for that specific RCRA metal.

** If SPLP result exceeds Class I Standard, run TCLP for that specific parameter

Matrix Key: W: Water, S: Soil, SL: Sludge, S: Sediment, L: Leachate, DW: Drinking Water, OL: Oil, O: Other

ANALYSES

Lab ID	Sample ID	Sample Date	Sample Time	Matrix	VOCs	SVOCs	BETX & MTBE	PNAs	Pesticides	PCBs	* Total Metals	SPLP/** TCLP Metals	pH	% Solids	Waste Characterization					Comments
26	2785-19-B01-1		2:35	S	X	X					X	X	X	X						0'-7'
27	2785-19-B01-2		2:40																	7'-14'
28	2785-19-B01-3		2:45																	14'-21'
	~~2785-19-B02-1~~																			
	~~2785-19-B02-1 DUP~~																			
	~~2785-19-B02-2~~																			
29	2785-19-B03-1		2:25																	0'-7'
30	2785-19-B03-2		2:30																	7'-14'
	~~2785-19-B04-1~~																			
	~~2785-19-B04-2~~																			
	~~2785-19-B04-3~~			S	X	X					X	X	X	X						

Relinquished by	Date/Time	Received by	Date/Time
Relinquished by: [signature] (AEI)	Date/Time 2/25/14 3:47	Received by: [signature] TA 2/25/14	Date/Time 1550
Relinquished by: [signature] TA 2/26/14	Date/Time 1008	Received by: [signature]	Date/Time 2/26/14 1000
Relinquished by:	Date/Time	Received by:	Date/Time

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