



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

December 28, 2017

SUBJECT: FAU 4304 (Rathje Road)  
Section 04-00045-01-FP (Peotone)  
Will County  
Contract No. 61E30  
Item 91  
January 19, 2018 Letting  
Addendum (B)

## NOTICE TO PROSPECTIVE BIDDERS:

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

- 1. Revised the Special Provisions Table of Contents.**
- 2. Added pages 60a thru 60r.**

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

Very truly yours,

Maureen M. Addis, P.E.  
Engineer of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger P.E.".

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

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## 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: Rathje Road Redevelopment Office Phone Number, if available: 708-258-3279

Physical Site Location (address, including number and street):  
Joliet Road to W. Corning Avenue

City: Peotone State: IL Zip Code: 60468

County: Will Township: Peotone

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

Latitude: 41.334644444444 Longitude: -80464722222222  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS  Map Interpolation  Photo Interpolation  Survey  Other

Coordinates obtained from Google Earth.

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

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Village of Peotone

Name: \_\_\_\_\_

Street Address: 208 E. Main Street

Street Address: \_\_\_\_\_

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Peotone State: IL

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip Code: 60468 Phone: 708-258-3279

Zip Code: \_\_\_\_\_ Phone: \_\_\_\_\_

Contact: Bob Hennke

Contact: \_\_\_\_\_

Email, if available: hennke4@gmail.com

Email, if available: \_\_\_\_\_

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

Project Name: Rathje Road Redevelopment

Latitude: 41.3346444444444 Longitude: -80464722222222

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)]:

A grab soil sample, identified as HA1, was collected using a hand auger at a depth of 6" to 1' below surface grade in the area of the proposed roadway improvements on Rathje Road. See attached map.

- 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]:

Sample HA1 was tested by an accredited laboratory for VOCs, SVOCs, Pesticides, RCRA 8 Total Metals and pH. Pursuant to 35 IAC 1100 dated August 27, 2012, sample HA1 was reported to meet the objectives of the IEPA MAC Table dated August 27, 2012.

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

I, Kenneth K. Rippy, P.E. (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.

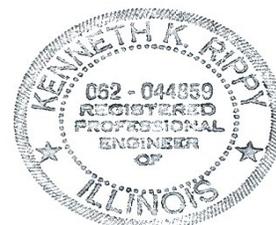
***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: GEOCON Professional Services, LLC  
 Street Address: 9370 W. Laraway Road, Suite D  
 City: Frankfort State: IL Zip Code: 60423  
 Phone: 815-806-9986

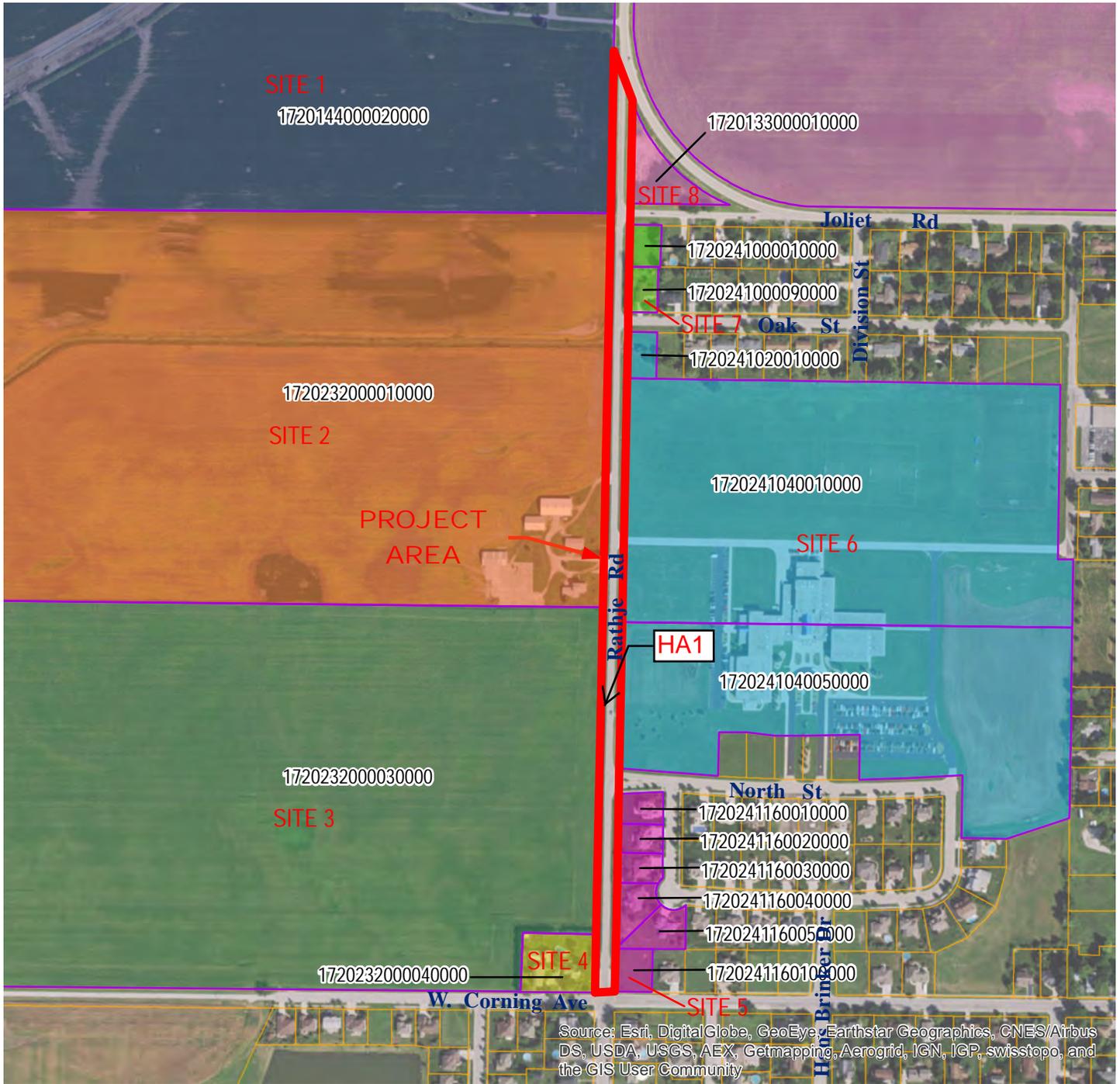
Kenneth K. Rippy, P.E.  
 Printed Name:



12/7/17  
 Date:



Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:



THIS FIGURE IS A REPRODUCTION OF  
ESRI ONLINE MAPS AERIAL PHOTOGRAPH.



**FIGURE 2: PROJECT AREA AERIAL MAP**

**RATHJE ROAD RECONSTRUCTION  
JOLIET ROAD TO W. CORNING AVENUE  
PEOTONE, WILL COUNTY, ILLINOIS 60468**

**PROJECT NO: 16-G0566**

**DATE: 08/18/2016**

**16-G0566-FIG-2**



**SUMMARY OF ANALYTICAL TESTING RESULTS (PAGE 1 OF 6)**

**SITE: Rathje Road Reconstruction**  
**Joliet Road to W. Corning Avenue, Peotone, Illinois 60468**

**SAMPLE DATE: November 27, 2017**  
**LAB: First Environmental Laboratories, Inc.**

**CLIENT: Robinson Engineering, Ltd.**

**MATRIX: Soil**  
**GEOCON PROJECT 17-G0779**

ANALYTE	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
		HA1
<b>VOLATILE ORGANIC COMPOUNDS (VOCs)</b>		
ACETONE	25	ND
BENZENE	0.03	ND
BROMODICHLOROMETHANE	0.6	ND
BROMOFORM	0.8	ND
BROMOMETHANE	---	ND
2-BUTANONE (METHYL ETHYL KETONE)	17	ND
CARBON DISULFIDE	9	ND
CARBON TETRACHLORIDE	0.07	ND
CHLOROBENZENE	1	ND
CHLORODIBROMOMETHANE	0.4	ND
CHLOROETHANE	---	ND
CHLOROFORM	0.3	ND
CHLOROMETHANE	---	ND
1,1-DICHLOROETHANE	23	ND
1,2-DICHLOROETHANE	0.02	ND
1,1-DICHLOROETHENE	0.06	ND
CIS-1,2-DICHLOROETHENE	0.4	ND
TRANS-1,2-DICHLOROETHENE	0.7	ND
1,2-DICHLOROPROPANE	0.03	ND
CIS-1,3-DICHLOROPROPANE	0.005	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND
ETHYLBENZENE	13	ND
2-HEXANONE	---	ND
METHYL TERTIARY-BUTYL ETHER (MTBE)	0.32	ND
4-METHYL-2-PENTANONE (MIBK)	---	ND
METHYLENE CHLORIDE	0.02	ND
STYRENE	4	ND

**TABLE NOTES:**  
 ALL RESULTS ARE EXPRESSED IN PARTS-PER-MILLION (mg/kg) CONCENTRATIONS.  
 THE SAMPLE RESULTS WERE COMPARED TO THE *SUMMARY OF MAXIMUM ALLOWABLE CONCENTRATIONS (MAC) OF CHEMICAL CONSTITUENTS IN UNCONTAMINATED SOILS USED AS FILL MATERIAL AT REGULATED FILL OPERATIONS (35 ILLINOIS ADMINISTRATIVE CODE (IAC) 1100.SUBPART F) DATED AUGUST 27, 2012*  
 ---: NO REMEDIATION OBJECTIVE ESTABLISHED BY THE IEPA FOR THIS CHEMICAL.  
 ND: ANALYTE NOT DETECTED ABOVE THE REPORTING LIMIT OF THE LABORATORY  
 THE LABORATORY REPORTING LIMITS AND THE SW-846 TEST METHODS USED ARE PROVIDED IN THE LABORATORY REPORT.

SUMMARY OF ANALYTICAL TESTING RESULTS (PAGE 2 OF 6)

<b>SITE: Rathje Road Reconstruction</b> <b>Joliet Road to W. Corning Avenue, Peotone, Illinois 60468</b>	<b>SAMPLE DATE: November 27, 2017</b> <b>LAB: First Environmental Laboratories, Inc.</b> <b>MATRIX: Soil</b> <b>GEOCON PROJECT 17-G0779</b>
<b>CLIENT: Robinson Engineering, Ltd.</b>	

ANALYTE	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
<b>VOCs</b>		<b>HA1</b>
1,1,2,2-TETRACHLOROETHANE	---	ND
TETRACHLOROETHENE (PERCHLOROETHYLENE)	0.06	ND
TOLUENE	12	ND
1,1,1-TRICHLOROETHANE	2	ND
1,1,2-TRICHLOROETHANE	0.02	ND
TRICHLOROETHENE	0.06	ND
VINYL ACETATE	10	ND
VINYL CHLORIDE	0.01	ND
XYLENES (TOTAL)	5.6	ND

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
ACENAPHTHENE	570	ND
ACENAPHTHYLENE	---	ND
ANTHRACENE	12,000	ND
BENZIDINE	---	ND
BENZO(a)ANTHRACENE (within Chicago corporate limits) <sup>a</sup>	1.1	
BENZO(a)ANTHRACENE (within MSA excluding Chicago) <sup>a</sup>	1.8	ND
BENZO(a)ANTHRACENE (within non-MSA or outside populated area) <sup>a</sup>	0.9	
BENZO(a)PYRENE (within Chicago corporate limits) <sup>a</sup>	1.3	
BENZO(a)PYRENE (within MSA excluding Chicago) <sup>a</sup>	2.1	ND
BENZO(a)PYRENE (within non-MSA) <sup>a</sup>	0.98	
BENZO(a)PYRENE (outside a populated area) <sup>a</sup>	0.09	
BENZO(b)FLUORANTHENE (within Chicago corporate limits) <sup>a</sup>	1.5	
BENZO(b)FLUORANTHENE (within MSA excluding Chicago) <sup>a</sup>	2.1	ND
BENZO(b)FLUORANTHENE (within non-MSA or outside populated area) <sup>a</sup>	0.9	
BENZO(k)FLUORANTHENE	9	ND
BENZO(g,h,i)PERYLENE	---	ND
BENZOIC ACID	400	ND
BENZYL ALCOHOL	---	ND

**TABLE NOTES:**  
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<sup>a</sup> THE LOCATION OF THE CCDD FILL SITE DETERMINES THE ALLOWABLE CONCENTRATION.

SUMMARY OF ANALYTICAL TESTING RESULTS (PAGE 3 of 6)

SITE: Rathje Road Reconstruction  
 Joliet Road to W. Corning Avenue, Peotone, Illinois 60468

SAMPLE DATE: November 27, 2017  
 LAB: First Environmental Laboratories, Inc.

CLIENT: Robinson Engineering, Ltd.

MATRIX: Soil  
 GEOCON PROJECT 17-G0779

ANALYTE	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
		HA1
<b>SVOCs</b>		
BIS(2-CHLOROETHOXY)METHANE	---	ND
BIS(2-CHLOROETHYL)ETHER	0.66	ND
BIS(2-CHLOROISOPROPYL)ETHER	---	ND
BIS(2-ETHYLHEXYL)PHTHALATE	46	ND
4-BROMOPHENYL-PHENYLEETHER	---	ND
BUTYLBENZYLPHTHALATE	930	ND
CARBAZOLE	0.6	ND
4-CHLOROANILINE	0.7	ND
4-CHLORO-3-METHYLPHENOL	---	ND
2-CHLORONAPHTHALENE	---	ND
2-CHLOROPHENOL	1.5	ND
4-CHLOROPHENYL-PHENYLEETHER	---	ND
CHRYSENE	88	ND
DIBENZO(a,h)ANTHRACENE (within Chicago corporate limits) <sup>a</sup>	0.20	
DIBENZO(a,h)ANTHRACENE (within MSA excluding Chicago) <sup>a</sup>	0.42	ND
DIBENZO(a,h)ANTHRACENE (within non-MSA) <sup>a</sup>	0.15	
DIBENZO(a,h)ANTHRACENE (outside populated area) <sup>a</sup>	0.09	
DIBENZOFURAN	---	ND
1,2-DICHLOROBENZENE	17	ND
1,3-DICHLOROBENZENE	---	ND
1,4-DICHLOROBENZENE	2	ND
3,3'-DICHLOROBENZIDINE	1.3	ND
2,4-DICHLOROPHENOL	0.48	ND
DIETHYLPHTHALTE	470	ND
2,4-DIMETHYLPHENOL	9	ND
DIMETHYLPHTHALATE	---	ND
Di-n-BUTYLPHTHALATE	2,300	ND
4,6-DINITRO-2-METHYLPHENOL	---	ND
2,4-DINITROPHENOL	3.3	ND
2,4-DINITROTOLUENE	0.25	ND
2,6-DINITROTOLUENE	0.26	ND

**TABLE NOTES:**

ALL RESULTS ARE EXPRESSED IN PARTS-PER-MILLION (mg/kg) CONCENTRATIONS.  
 THE SAMPLE RESULTS WERE COMPARED TO THE SUMMARY OF MAXIMUM ALLOWABLE CONCENTRATIONS (MAC) OF CHEMICAL CONSTITUENTS IN UNCONTAMINATED SOILS USED AS FILL MATERIAL AT REGULATED FILL OPERATIONS (35 ILLINOIS ADMINISTRATIVE CODE (IAC) 1100.SUBPART F) DATED AUGUST 27, 2012  
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 THE LABORATORY REPORTING LIMITS AND THE SW-846 TEST METHODS USED ARE PROVIDED IN THE LABORATORY REPORT.  
<sup>a</sup> THE LOCATION OF THE CCDD FILL SITE DETERMINES THE ALLOWABLE CONCENTRATION.

**SUMMARY OF ANALYTICAL TESTING RESULTS (PAGE 4 OF 6)**

**SITE: Rathje Road Reconstruction**  
**Joliet Road to W. Corning Avenue, Peotone, Illinois 60468**

**SAMPLE DATE: November 27, 2017**  
**LAB: First Environmental Laboratories, Inc.**

**CLIENT: Robinson Engineering, Ltd.**

**MATRIX: Soil**  
**GEOCON PROJECT 17-G0779**

ANALYTE	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
SVOCs		HA1
DI-n-OCTYLPHTHALATE	1,600	ND
FLUORANTHENE	3,100	ND
FLUORENE	560	ND
HEXACHLOROBENZENE	0.4	ND
HEXACHLOROBUTADIENE	---	ND
HEXACHLOROCYCLOPENTADIENE	1.1	ND
HEXACHLOROETHANE	0.5	ND
INDENO(1,2,3-cd)PYRENE <i>(within MSA excluding Chicago)<sup>a</sup></i>	1.6	ND
INDENO(1,2,3-cd)PYRENE <i>(within Chicago corporate limits or within a populated area in a non-MSA or outside populated area)<sup>a</sup></i>	0.9	ND
ISOPHORONE	8	ND
2-METHYLNAPHTHALENE	---	ND
2-METHYLPHENOL	15	ND
3&4-METHYPHENOL	---	ND
NAPHTHALENE	1.8	ND
2-NITROANILINE	---	ND
3-NITROANILINE	---	ND
4-NITROANILINE	---	ND
NITROBENZENE	0.26	ND
2-NITROPHENOL	---	ND
4-NITROPHENOL	---	ND
N-NITROSO-DI-n-PROPYLAMINE	0.0018	ND
n-NITROSODIMETHYLAMINE	---	ND
n-NITROSODIPHENYLAMINE	1	ND
PENTACHLOROPHENOL	0.02	ND
PHENANTHRENE	---	ND
PHENOL	100	ND
PYRENE	2,300	ND
PYRIDINE	---	ND
1,2,4-TRICHLOROBENZENE	5	ND
2,4,5-TRICHLOROPHENOL	26	ND
2,4,6-TRICHLOROPHENOL	0.66	ND

**TABLE NOTES:**  
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 USED AS FILL MATERIAL AT REGULATED FILL OPERATIONS (35 ILLINOIS ADMINISTRATIVE CODE (IAC) 1100.SUBPART F) DATED AUGUST 27, 2012  
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<sup>a</sup> THE LOCATION OF THE CCDD FILL SITE DETERMINES THE ALLOWABLE CONCENTRATION.

**SUMMARY OF ANALYTICAL TESTING RESULTS (PAGE 5 OF 6)**

**SITE: Rathje Road Reconstruction**  
**Joliet Road to W. Corning Avenue, Peotone, Illinois 60468**

**SAMPLE DATE: November 27, 2017**  
**LAB: First Environmental Laboratories, Inc.**

**CLIENT: Robinson Engineering, Ltd.**

**MATRIX: Soil**  
**GEOCON PROJECT 17-G0779**

ANALYTE	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
		HA1
<b>PESTICIDES</b>		
ALDRIN	<b>0.94</b>	ND
ALPHA-BHC	<b>0.0074</b>	ND
BETA-BHC	---	ND
DELTA-BHC	---	ND
GAMMA-BHC (LINDANE)	<b>0.009</b>	ND
ALPHA-CHLORDANE	---	ND
GAMMA-CHLORDANE	---	ND
4,4'-DDD	<b>3</b>	ND
4,4'-DDE	<b>2</b>	ND
4,4'-DDT	<b>2</b>	ND
DIELDRIN	<b>0.603</b>	ND
ENDOSULFAN I	<b>18</b>	ND
ENDOSULFAN II	<b>18</b>	ND
ENDOSULFAN SULFATE	---	ND
ENDRIN	<b>1</b>	ND
ENDRIN ALDEHYDE	---	ND
ENDRIN KETONE	---	ND
HEPTACHLOR	<b>0.871</b>	ND
HEPTACHLOR EPOXIDE	<b>1.005</b>	ND
METHOXYCHLOR	<b>160</b>	ND
TOXAPHENE	<b>0.6</b>	ND

**TABLE NOTES:**

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---: NO REMEDIATION OBJECTIVE ESTABLISHED BY THE IEPA FOR THIS CHEMICAL.

ND: ANALYTE NOT DETECTED ABOVE THE REPORTING LIMIT OF THE LABORATORY

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**SUMMARY OF ANALYTICAL TESTING RESULTS (PAGE 6 OF 6)**

**SITE:** Rathje Road Reconstruction  
 Joliet Road to W. Corning Avenue, Peotone, Illinois 60468

**SAMPLE DATE:** November 27, 2017  
**LAB:** First Environmental Laboratories, Inc.

**CLIENT:** Robinson Engineering, Ltd.

**MATRIX:** Soil  
**GEOCON PROJECT** 17-G0779

ANALYTE	MAXIMUM ALLOWABLE CONCENTRATIONS (MACs)	SAMPLE IDENTIFICATION
		HA1
pH	6.25 to 9.0	7.63
<b>TOTAL METALS</b>		
ARSENIC ( <i>within MSA</i> ) <sup>d</sup>	13	5.8
ARSENIC ( <i>within non-MSA</i> ) <sup>d</sup>	11.3	
BARIUM <sup>c</sup>	1,500	106
CADMIUM <sup>c</sup>	5.2	ND
CHROMIUM (TOTAL) <sup>c</sup>	21	16.4
LEAD <sup>c</sup>	107	17.1
SELENIUM <sup>c</sup>	1.3	ND
SILVER <sup>c</sup>	4.4	0.4
MERCURY ( <i>ionic</i> ) <sup>c</sup>	0.89	ND
MERCURY ( <i>elemental</i> )	0.1	
	<b>SOIL COMPONENT OF GROUNDWATER INGESTION-CLASS I - RESIDENTIAL (mg/L)</b>	
<b>SPLP METALS</b>		
ARSENIC <sup>e</sup>		
BARIUM	2	
CADMIUM	0.005	
CHROMIUM	0.1	
LEAD	0.0075	
SELENIUM	0.05	
SILVER	0.05	
MERCURY	0.002	

**TABLE NOTES:**

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---: NO REMEDIATION OBJECTIVE ESTABLISHED BY THE IEPA FOR THIS CHEMICAL.

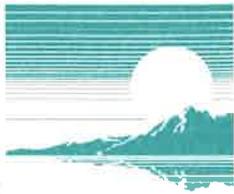
ND: ANALYTE NOT DETECTED ABOVE THE REPORTING LIMIT OF THE LABORATORY

THE LABORATORY REPORTING LIMITS AND THE SW-846 TEST METHODS USED ARE PROVIDED IN THE LABORATORY REPORT.

<sup>c</sup> AS AN ALTERNATIVE TO THE MAC VALUE, COMPLIANCE VERIFICATION MAY BE DETERMINED BY COMPARING SOIL SAMPLE EXTRACTION RESULTS (TCLP/SPLP) FOR THIS CONSTITUENT TO THE RESPECTIVE TACO CLASS I SOIL COMPONENT OF THE GROUNDWATER INGESTION EXPOSURE ROUTE OBJECTIVES (35 IAC 742.APPENDIX B, TABLE A)

<sup>d</sup> THE LOCATION OF THE CCDD FILL SITE DETERMINES THE ALLOWABLE CONCENTRATION.

<sup>e</sup> ALTERNATIVE SPLP/TCLP VALUES CANNOT BE USED FOR ARSENIC. THE MAC OBJECTIVE MUST BE USED FOR TOTAL ARSENIC.



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IL ELAP / NELAC Accreditation # 100292

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December 06, 2017

Ms. Erin Curley  
**GEOCON Professional Services, LLC**  
9370 West Laraway Road  
Suite D  
Frankfort, IL 60423

Project ID: Rathje Road Reconstruction, Peotone, IL  
First Environmental File ID: 17-6532  
Date Received: November 27, 2017

Dear Ms. Erin Curley:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

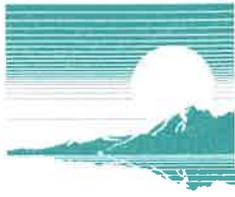
All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004212: effective 08/10/2017 through 02/28/2018.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,



Stan Zaworski  
Project Manager



## Case Narrative

**GEOCON Professional Services, LLC**

Lab File ID: **17-6532**

Project ID: **Rathje Road Reconstruction, Peotone, IL**

Date Received: **November 27, 2017**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
17-6532-001	HA1	11/27/17 10:20

### Sample Batch Comments:

Sample acceptance criteria were met.

---



### Case Narrative

**GEOCON Professional Services, LLC**

Lab File ID: **17-6532**

Project ID: **Rathje Road Reconstruction, Peotone, IL**

Date Received: **November 27, 2017**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.



**Analytical Report**

**Client:** GEOCON Professional Services, LLC  
**Project ID:** Rathje Road Reconstruction, Peotone, IL  
**Sample ID:** HA1  
**Sample No:** 17-6532-001

**Date Collected:** 11/27/17  
**Time Collected:** 10:20  
**Date Received:** 11/27/17  
**Date Reported:** 12/06/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540B</b>		
Analysis Date: 11/27/17				
Total Solids	71.61		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 11/29/17				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butyl ether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



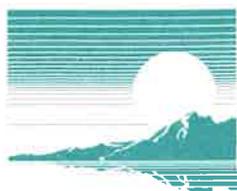
**Analytical Report**

**Client:** GEOCON Professional Services, LLC  
**Project ID:** Rathje Road Reconstruction, Peotone, IL  
**Sample ID:** HA1  
**Sample No:** 17-6532-001

**Date Collected:** 11/27/17  
**Time Collected:** 10:20  
**Date Received:** 11/27/17  
**Date Reported:** 12/06/17

Results are reported on a dry weight basis.

Analyte	Result	R.I.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 11/29/17				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 11/29/17				
Preparation Date: 11/27/17				
Acenaphthenc	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophcnol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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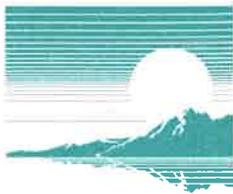
**Analytical Report**

**Client:** GEOCON Professional Services, LLC  
**Project ID:** Rathje Road Reconstruction, Peotone, IL  
**Sample ID:** HA1  
**Sample No:** 17-6532-001

**Date Collected:** 11/27/17  
**Time Collected:** 10:20  
**Date Received:** 11/27/17  
**Date Reported:** 12/06/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 11/29/17		Preparation Date: 11/27/17		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachlorooctane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



**Analytical Report**

**Client:** GEOCON Professional Services, LLC  
**Project ID:** Rathje Road Reconstruction, Peotone, IL  
**Sample ID:** HA1  
**Sample No:** 17-6532-001

**Date Collected:** 11/27/17  
**Time Collected:** 10:20  
**Date Received:** 11/27/17  
**Date Reported:** 12/06/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 11/29/17		Preparation Date: 11/27/17		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Pesticides</b>				
<b>Method: 8081A</b>		<b>Preparation Method 3546</b>		
Analysis Date: 11/28/17		Preparation Date: 11/27/17		
Aldrin	< 8.0	8.0	ug/kg	
alpha-BHC	< 2.0	2.0	ug/kg	
beta-BHC	< 8.0	8.0	ug/kg	
delta-BHC	< 8.0	8.0	ug/kg	
gamma-BHC (Lindane)	< 8.0	8.0	ug/kg	
alpha-Chlordane	< 80.0	80.0	ug/kg	
gamma-Chlordane	< 80.0	80.0	ug/kg	
4,4'-DDD	< 16.0	16.0	ug/kg	
4,4'-DDE	< 16.0	16.0	ug/kg	
4,4'-DDT	< 16.0	16.0	ug/kg	
Dieldrin	< 16.0	16.0	ug/kg	
Endosulfan I	< 8.0	8.0	ug/kg	
Endosulfan II	< 16.0	16.0	ug/kg	
Endosulfan sulfate	< 16.0	16.0	ug/kg	
Endrin	< 16.0	16.0	ug/kg	
Endrin aldehyde	< 16.0	16.0	ug/kg	
Endrin ketone	< 16.0	16.0	ug/kg	
Heptachlor	< 8.0	8.0	ug/kg	
Heptachlor epoxide	< 8.0	8.0	ug/kg	
Methoxychlor	< 80.0	80	ug/kg	
Toxaphene	< 160	160	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 11/30/17		Preparation Date: 11/29/17		
Arsenic	5.8	1.0	mg/kg	
Barium	106	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	16.4	0.5	mg/kg	
Lead	17.1	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	



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**Analytical Report**

**Client:** GEOCON Professional Services, LLC  
**Project ID:** Rathje Road Reconstruction, Peotone, IL  
**Sample ID:** HA1  
**Sample No:** 17-6532-001

**Date Collected:** 11/27/17  
**Time Collected:** 10:20  
**Date Received:** 11/27/17  
**Date Reported:** 12/06/17

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Total Mercury</b>		<b>Method: 7471B</b>		
Analysis Date: 12/01/17				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>		<b>Method: 9045D 2004</b>		
Analysis Date: 11/28/17 11:30				
pH @ 25°C, 1:2	7.63		Units	



# CHAIN OF CUSTODY RECORD

**First Environmental Laboratories**  
 1600 Shore Road, Suite D  
 Naperville, Illinois 60563  
 Phone: (630) 778-1200 • Fax: (630) 778-1233  
 E-mail: firstinfo@firstenv.com • www.firstenv.com  
 IEPA Certification #100292

Company Name: GECON Professional Services, LLC  
 Street Address: 9370 W. Laraway Road, Suite D  
 City: Frankfort State: IL Zip: 60423  
 Phone: 815-806-9986 e-mail: ecurley@geconcompanies.com  
 Send Report To: Erin Curley  
 Sampled By: Erin Curley

			Analyses							
Date/Time Taken	Sample Description	Matrix	VOCs	SVOCs	Pesticides	PCPAB Total Metals	P.H.	Hold - Do Not Analyze	Comments	Lab I.D.
11/27/17 10:20	HAI	S	X	X	X	X				17-6532-001

**FOR LAB USE ONLY:**  
 Cooler Temperature: 0.1-6°C Yes  No  5 °C  
 Received within 6 hrs. of collection:    
 Ice Present: Yes  No   
 Sample Refrigerated: Yes  No   
 Refrigerator Temperature: \_\_\_\_\_ °C  
 5035 Vials Frozen: Yes  No   
 Freezer Temperature: \_\_\_\_\_ °C  
 Program:  TACO/SRP  CCDD  NPDES  LUST  SDWA

Notes and Special Instructions: \_\_\_\_\_

Relinquished By: Erin Curley Date/Time: 11/27/17 11:30 Received By: MJ Date/Time: 11/27/17 11:30  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: Added 12/28/2017