

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444-2673



231-773-5998 Phone  
888-979-4469 Fax  
www.trace-labs.com

September 26, 2017

Mr. Brian Majka  
GEI Consultants of Michigan, P.C.  
5225 Edgewater Drive  
Allendale, MI 49401

Phone: (616) 384-2710

RE: Trace Project T171329  
Client Project GEI - 1

Dear Mr. Majka:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at [jmink@trace-labs.com](mailto:jmink@trace-labs.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Jon Mink".

Jon Mink  
Senior Project Manager  
Enclosures



NJDEP Accreditation No. MI008

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### SAMPLE SUMMARY

Trace Project ID: T171329  
Client Project ID: GEI - 1

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T171329-01	GEI - 1	Soil	Client	09/11/17 15:30	09/11/17 15:46

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**AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT**

**DEFINITIONS**

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.  
 Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

**DATA QUALIFIERS**

Trace ID: T072073-MS1

***Analysis: EPA 8270C***

<b>2-Fluorophenol</b>	Note 301 : A dilution of 1:5 or greater was required on this sample. Consequently, surrogate recoveries are not available.
<b>Phenol-d5</b>	Note 301 : A dilution of 1:5 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T171329-01

***Analysis: EPA 8270C***

<b>2-Fluorophenol</b>	Note 301 : A dilution of 1:5 or greater was required on this sample. Consequently, surrogate recoveries are not available.
<b>Phenol-d5</b>	Note 301 : A dilution of 1:5 or greater was required on this sample. Consequently, surrogate recoveries are not available.

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### ANALYTICAL RESULTS

Trace Project ID: T171329  
 Client Project ID: GEI - 1

Trace ID: T171329-01 Date Collected: 09/11/17 15:30 Matrix: Soil  
 Sample ID: GEI - 1 Date Received: 09/11/17 15:46

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
<b>METALS, TCLP</b>										
<b>Analysis Method: EPA 6010B</b>										
<i>Batch: T072037</i>										
Arsenic	<0.30	mg/L	0.30	1	09/20/17	nws	09/21/17	nws		5.0
Barium	<1.0	mg/L	1.0	1	09/20/17	nws	09/21/17	nws		100
Cadmium	<0.10	mg/L	0.10	1	09/20/17	nws	09/21/17	nws		1.0
Chromium	<0.50	mg/L	0.50	1	09/20/17	nws	09/21/17	nws		5.0
Copper	<0.50	mg/L	0.50	1	09/20/17	nws	09/21/17	nws		
Lead	<0.50	mg/L	0.50	1	09/20/17	nws	09/21/17	nws		5.0
Selenium	<0.60	mg/L	0.60	1	09/20/17	nws	09/21/17	nws		1.0
Silver	<0.10	mg/L	0.10	1	09/20/17	nws	09/21/17	nws		5.0
Zinc	<0.50	mg/L	0.50	1	09/20/17	nws	09/21/17	nws		
<b>Analysis Method: EPA 7470A</b>										
<i>Batch: T072051</i>										
Mercury	<0.010	mg/L	0.010	1	09/20/17	nws	09/20/17	dtm		0.20
<b>SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP</b>										
<b>Analysis Method: EPA 8270C</b>										
<i>Batch: T072073</i>										
Pyridine	<1.0	mg/L	1.0	5	09/21/17	kbc	09/23/17	avl		5.0
2-Methylphenol (o-Cresol)	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		200
3,4-Methylphenol (m,p Cresol)	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		200
Hexachloroethane	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		3.0
Nitrobenzene	<0.050	mg/L	0.050	5	09/21/17	kbc	09/23/17	avl		2.0
Hexachlorobutadiene	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		0.50
2,4,6-Trichlorophenol	<0.050	mg/L	0.050	5	09/21/17	kbc	09/23/17	avl		2.0
2,4,5-Trichlorophenol	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		400
2,4-Dinitrotoluene	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		0.13
Hexachlorobenzene	<0.12	mg/L	0.12	5	09/21/17	kbc	09/23/17	avl		0.13
Pentachlorophenol	<0.25	mg/L	0.25	5	09/21/17	kbc	09/23/17	avl		100
<b>Surrogates:</b>										
2-Fluorophenol	*	%	20-53	5	09/21/17	kbc	09/23/17	avl	301	
Phenol-d5	*	%	11-40	5	09/21/17	kbc	09/23/17	avl	301	
Nitrobenzene-d5		48 %	36-103	5	09/21/17	kbc	09/23/17	avl		

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### ANALYTICAL RESULTS

Trace Project ID: T171329  
 Client Project ID: GEI - 1

Trace ID: T171329-01 Date Collected: 09/11/17 15:30 Matrix: Soil  
 Sample ID: GEI - 1 Date Received: 09/11/17 15:46

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
<b>SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP</b>									
2-Fluorobiphenyl	53 %	36-119	5	09/21/17	kbc	09/23/17	avl		
2,4,6-Tribromophenol	48 %	30-105	5	09/21/17	kbc	09/23/17	avl		
Terphenyl-d14	64 %	37-109	5	09/21/17	kbc	09/23/17	avl		
<b>VOLATILE ORGANIC COMPOUNDS, TCLP</b>									
<b>Analysis Method: EPA 8260B</b>									
<i>Batch: T072103</i>									
Vinyl chloride	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.20
1,1-Dichloroethene	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.70
2-Butanone	<0.50 mg/L	0.50	100	09/21/17	was	09/26/17	was		200
Chloroform	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		6.0
Carbon tetrachloride	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.50
Benzene	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.50
1,2-Dichloroethane	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.50
Trichloroethene	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.50
Tetrachloroethene	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		0.70
Chlorobenzene	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		100
1,4-Dichlorobenzene	<0.10 mg/L	0.10	100	09/21/17	was	09/26/17	was		7.5
<b>Surrogates:</b>									
1,2-Dichloroethane-d4	95 %	68-133	100	09/21/17	was	09/26/17	was		
Toluene-d8	111 %	75-120	100	09/21/17	was	09/26/17	was		
4-Bromofluorobenzene	112 %	69-119	100	09/21/17	was	09/26/17	was		
1,2-Dichlorobenzene-d4	96 %	72-127	100	09/21/17	was	09/26/17	was		

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**QUALITY CONTROL RESULTS**

Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T072071	Analysis Description: TCLP Extraction, SVOC
QC Batch Method: Leaching procedures	Analysis Method: EPA 1311

Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T072037	Analysis Description: Silver, TCLP
QC Batch Method: EPA 3015 Microwave Assisted Digestions for Liquids	Analysis Method: EPA 6010B

**METHOD BLANK: T072037-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.10	0.10	
Arsenic	mg/L	<0.30	0.30	
Barium	mg/L	<1.0	1.0	
Cadmium	mg/L	<0.10	0.10	
Chromium	mg/L	<0.50	0.50	
Copper	mg/L	<0.50	0.50	
Lead	mg/L	<0.50	0.50	
Selenium	mg/L	<0.60	0.60	
Zinc	mg/L	<0.50	0.50	

**METHOD BLANK: T072037-BLK2**

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.10	0.10	
Arsenic	mg/L	<0.30	0.30	
Barium	mg/L	<1.0	1.0	
Cadmium	mg/L	<0.10	0.10	
Chromium	mg/L	<0.50	0.50	
Copper	mg/L	<0.50	0.50	
Lead	mg/L	<0.50	0.50	
Selenium	mg/L	<0.60	0.60	
Zinc	mg/L	<0.50	0.50	

**LABORATORY CONTROL SAMPLE: T072037-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	<0.10	88	80-120	
Arsenic	mg/L	0.100	<0.30	89	80-120	

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**LABORATORY CONTROL SAMPLE: T072037-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Barium	mg/L	1.60	1.53	96	80-120	
Cadmium	mg/L	0.0500	<0.10	93	80-120	
Chromium	mg/L	0.0500	<0.50	96	80-120	
Copper	mg/L	1.60	1.51	95	80-120	
Lead	mg/L	0.100	<0.50	92	80-120	
Selenium	mg/L	0.100	<0.60	93	80-120	
Zinc	mg/L	1.60	1.46	92	80-120	

Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T072051  
 QC Batch Method: EPA 7470A Prep

Analysis Description: Mercury, TCLP  
 Analysis Method: EPA 7470A

**METHOD BLANK: T072051-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.010	0.010	

**METHOD BLANK: T072051-BLK2**

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	mg/L	<0.010	0.010	

**LABORATORY CONTROL SAMPLE: T072051-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	<0.010	106	80-120	

Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T072030  
 QC Batch Method: Leaching procedures

Analysis Description: TCLP Extraction, Metals  
 Analysis Method: EPA 1311

Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T072072  
 QC Batch Method: Leaching procedures

Analysis Description: TCLP ZHE, Volatiles  
 Analysis Method: EPA 1311

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Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T071726  
 QC Batch Method: EPA 200.2

Analysis Description: Metals Digestion  
 Analysis Method: EPA 200.2

Trace Project ID: T171329  
 Client Project ID: GEI - 1

QC Batch: T072073  
 QC Batch Method: EPA 3510C Separatory Funnel  
 Liquid-Liquid Extr.

Analysis Description: TCLP Semi-Volatiles  
 Analysis Method: EPA 8270C

**METHOD BLANK: T072073-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Pyridine	mg/L	<0.020	0.020	
2-Methylphenol (o-Cresol)	mg/L	<0.0025	0.0025	
3,4-Methylphenol (m,p Cresol)	mg/L	<0.0025	0.0025	
Hexachloroethane	mg/L	<0.0025	0.0025	
Nitrobenzene	mg/L	<0.0010	0.0010	
Hexachlorobutadiene	mg/L	<0.0025	0.0025	
2,4,6-Trichlorophenol	mg/L	<0.0010	0.0010	
2,4,5-Trichlorophenol	mg/L	<0.0025	0.0025	
2,4-Dinitrotoluene	mg/L	<0.0025	0.0025	
Hexachlorobenzene	mg/L	<0.0025	0.0025	
Pentachlorophenol	mg/L	<0.0050	0.0050	
2-Fluorophenol (S)	%	30	20-53	
Phenol-d5 (S)	%	18	11-40	
Nitrobenzene-d5 (S)	%	65	36-103	
2-Fluorobiphenyl (S)	%	73	36-119	
2,4,6-Tribromophenol (S)	%	72	30-105	
Terphenyl-d14 (S)	%	87	37-109	

**METHOD BLANK: T072073-BLK2**

Parameter	Units	Blank Result	Reporting Limit	Notes
Pyridine	mg/L	<0.20	0.20	
2-Methylphenol (o-Cresol)	mg/L	<0.025	0.025	
3,4-Methylphenol (m,p Cresol)	mg/L	<0.025	0.025	
Hexachloroethane	mg/L	<0.025	0.025	
Nitrobenzene	mg/L	<0.010	0.010	
Hexachlorobutadiene	mg/L	<0.025	0.025	
2,4,6-Trichlorophenol	mg/L	<0.010	0.010	
2,4,5-Trichlorophenol	mg/L	<0.025	0.025	
2,4-Dinitrotoluene	mg/L	<0.025	0.025	
Hexachlorobenzene	mg/L	<0.025	0.025	
Pentachlorophenol	mg/L	<0.050	0.050	

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**METHOD BLANK: T072073-BLK2**

Parameter	Units	Blank Result	Reporting Limit	Notes
2-Fluorophenol (S)	%	24	20-53	
Phenol-d5 (S)	%	14	11-40	
Nitrobenzene-d5 (S)	%	64	36-103	
2-Fluorobiphenyl (S)	%	72	36-119	
2,4,6-Tribromophenol (S)	%	78	30-105	
Terphenyl-d14 (S)	%	93	37-109	

**LABORATORY CONTROL SAMPLE: T072073-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2,4-Dinitrotoluene	mg/L	0.0505	0.0432	86	39-105	
Pentachlorophenol	mg/L	0.100	0.0849	85	38-102	
2-Fluorophenol (S)	%	0.101	0.0320	32	20-53	
Phenol-d5 (S)	%	0.101	0.0196	19	11-40	
Nitrobenzene-d5 (S)	%	0.100	0.0767	77	36-103	
2-Fluorobiphenyl (S)	%	0.0998	0.0832	83	36-119	
2,4,6-Tribromophenol (S)	%	0.101	0.0893	88	30-105	
Terphenyl-d14 (S)	%	0.100	0.103	103	37-109	

**MATRIX SPIKE: T072073-MS1**

Original: T171329-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
2,4-Dinitrotoluene	mg/L	0	0.505	0.269	53	28-106	
Pentachlorophenol	mg/L	0	1.00	0.518	52	30-109	
<b>2-Fluorophenol (S)</b>	%		<b>1.01</b>	0.00		<b>20-53</b>	<b>301</b>
<b>Phenol-d5 (S)</b>	%		<b>1.01</b>	0.00		<b>11-40</b>	<b>301</b>
Nitrobenzene-d5 (S)	%		1.00	0.578	58	36-103	
2-Fluorobiphenyl (S)	%		0.998	0.638	64	36-119	
2,4,6-Tribromophenol (S)	%		1.01	0.598	59	30-105	
Terphenyl-d14 (S)	%		1.00	0.740	74	37-109	

Trace Project ID: T171329

Client Project ID: GEI - 1

QC Batch: T072103

QC Batch Method: EPA 5035 Purge-and-Trap for Solids and Wastes

Analysis Description: TCLP Volatiles

Analysis Method: EPA 8260B

**METHOD BLANK: T072103-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
Vinyl chloride	mg/L	<0.050	0.050	
1,1-Dichloroethene	mg/L	<0.050	0.050	

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**METHOD BLANK: T072103-BLK1**

Parameter	Units	Blank Result	Reporting Limit	Notes
2-Butanone	mg/L	<0.25	0.25	
Chloroform	mg/L	<0.050	0.050	
Carbon tetrachloride	mg/L	<0.050	0.050	
Benzene	mg/L	<0.050	0.050	
1,2-Dichloroethane	mg/L	<0.050	0.050	
Trichloroethene	mg/L	<0.050	0.050	
Tetrachloroethene	mg/L	<0.050	0.050	
Chlorobenzene	mg/L	<0.050	0.050	
1,4-Dichlorobenzene	mg/L	<0.050	0.050	
1,2-Dichloroethane-d4 (S)	%	96	68-133	
Toluene-d8 (S)	%	113	75-120	
4-Bromofluorobenzene (S)	%	116	69-119	
1,2-Dichlorobenzene-d4 (S)	%	99	72-127	

**LABORATORY CONTROL SAMPLE: T072103-BS1**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Vinyl chloride	mg/L	1.00	0.890	89	47-184	
1,1-Dichloroethene	mg/L	1.00	0.988	99	64-156	
2-Butanone	mg/L	1.00	0.869	87	70-130	
Chloroform	mg/L	1.00	0.868	87	80-120	
Carbon tetrachloride	mg/L	1.00	0.941	94	79-141	
Benzene	mg/L	1.00	0.874	87	80-120	
1,2-Dichloroethane	mg/L	1.00	0.820	82	80-120	
Trichloroethene	mg/L	1.00	1.07	107	69-133	
Tetrachloroethene	mg/L	1.00	1.07	107	70-120	
Chlorobenzene	mg/L	1.00	0.889	89	80-120	
1,4-Dichlorobenzene	mg/L	1.00	0.969	97	80-120	
1,2-Dichloroethane-d4 (S)	%	10.0	9.29	93	68-133	
Toluene-d8 (S)	%	10.0	11.0	110	75-120	
4-Bromofluorobenzene (S)	%	12.0	13.5	113	69-119	
1,2-Dichlorobenzene-d4 (S)	%	12.0	13.4	112	72-127	

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## TRACE

ANALYTICAL LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

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2241 Black Creek Road  
Muskegon, MI 49444-2673  
Phone 231.773.5998  
Fax 888.979.4469  
www.trace-labs.com

Report Results To:

Company Name: GEI Consultants Inc PO #  
 Report To: Brian Makra Contact Name:  
 Mailing Address: 5255 Edwards Dr Billing Address (if different):  
 City, State, Zip Code: Aliville MI 49401 City, State, Zip Code:  
 Office Phone: Cell Phone:  
 Email Address: bmakra@geiconsultants.com Phone Number:  
 Billing Email Address:

Trace Use:  
 Logged By: GEI  
 Checked By: TS  
 Soil Volatiles Preserved (circle if applicable):  
 MEOH  Low Level  Lab  
 Sampling Time:  
 Trace ID No. TH1620  
9-15-12

Turnaround Requirements:  
 Standard  48 Hour  
 4 Day  24 Hour  
 2 Day  
 \* Requires Prior Approval

Matrix Key:  
 S = Soil / Solid  
 W = Water  
 SL = Sludge  
 OI = Oil  
 WI = Wipes  
 LW = Liquid Waste  
 A = Air  
 D = Drinking Water

Trace No.	Date Collected	Time Collected	Client Sample ID	Sampled By:	Matrix		Preservation			Remarks	Possible Health Hazards?	
					Metals Field Filtered (Y/N)	Number of Containers	Cool	Other				
								HCl	HNO <sub>3</sub>			H <sub>2</sub> SO <sub>4</sub>
1	9/11/12	3:30	GEI 1									

Please Sign

1) [Signature] Released By: [Signature] Date: 9/17 Time: 1546

2) [Signature] Released By: [Signature] Date: [ ] Time: [ ]

3) [Signature] Released By: [Signature] Date: [ ] Time: [ ]

4) [Signature] Released By: [Signature] Date: [ ] Time: [ ]

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

CERTIFICATE OF ANALYSIS