

September 09, 2015

Mr. Kelly Rice
GEI Consultants of Michigan, P.C.
5225 Edgewater Drive
Allendale, MI 49401

Phone: (616) 844-8338

RE: Trace Project T15I019
Client Project Veterans Park

Dear Mr. Rice:

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.

Sincerely,



Jon Mink
Senior Project Manager
Enclosures



NJDEP Accreditation No. MI008

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SAMPLE SUMMARY

Trace Project ID: T15I019
Client Project ID: Veterans Park

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T15I019-01	N. Pond Composite (3)	Soil	kr	09/01/15 13:40	09/01/15 16:19
T15I019-02	S. Pond Composite (6)	Soil	kr	09/01/15 12:20	09/01/15 16:19

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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.

DATA QUALIFIERS

Trace ID: T056257-BLK2

Analysis: EPA 8081A

Decachlorobiphenyl	Note 304 : The primary surrogate (decachlorobiphenyl) recovery for this sample fell outside the laboratory established control limits. The secondary surrogate (tetrachloro-m-xylene) recovery was in control. No data require qualification.
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Trace ID: T056285-BS1

Analysis: EPA 8260B

Carbon tetrachloride	Note 112 : The LCS recovery was out of control high. Because there were no positive results for this analyte in this QC batch, no data require qualification.
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Trace ID: T151019-01

Analysis: EPA 8081A

Decachlorobiphenyl	Note 304 : The primary surrogate (decachlorobiphenyl) recovery for this sample fell outside the laboratory established control limits. The secondary surrogate (tetrachloro-m-xylene) recovery was in control. No data require qualification.
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ANALYTICAL RESULTS

Trace Project ID: T15I019
 Client Project ID: Veterans Park

Trace ID: T15I019-01 Date Collected: 09/01/15 13:40 Matrix: Soil
 Sample ID: N. Pond Composite (3) Date Received: 09/01/15 16:19

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS, TCLP

Analysis Method: EPA 8260B

Batch: T056285

Vinyl chloride	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.20
1,1-Dichloroethene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.70
2-Butanone	<0.25 mg/L	0.25	50	09/03/15	was	09/03/15	was		200
Chloroform	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		6.0
Carbon tetrachloride	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
Benzene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
1,2-Dichloroethane	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
Trichloroethene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
Tetrachloroethene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.70
Chlorobenzene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		100
1,4-Dichlorobenzene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		7.5
Surrogates:									
1,2-Dichloroethane-d4	100 %	68-133	50	09/03/15	was	09/03/15	was		
Toluene-d8	97 %	75-120	50	09/03/15	was	09/03/15	was		
4-Bromofluorobenzene	104 %	69-119	50	09/03/15	was	09/03/15	was		
1,2-Dichlorobenzene-d4	108 %	72-127	50	09/03/15	was	09/03/15	was		

SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP

Analysis Method: EPA 8270C

Batch: T056256

Pyridine	<0.40 mg/L	0.40	2	09/03/15	kbc	09/03/15	avl		5.0
2-Methylphenol (o-Cresol)	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		200
3,4-Methylphenol (m,p Cresol)	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		200
Hexachloroethane	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		3.0
Nitrobenzene	<0.020 mg/L	0.020	2	09/03/15	kbc	09/03/15	avl		2.0
Hexachlorobutadiene	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		0.50
2,4,6-Trichlorophenol	<0.020 mg/L	0.020	2	09/03/15	kbc	09/03/15	avl		2.0
2,4,5-Trichlorophenol	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		400
2,4-Dinitrotoluene	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		0.13
Hexachlorobenzene	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		0.13
Pentachlorophenol	<0.10 mg/L	0.10	2	09/03/15	kbc	09/03/15	avl		100
Surrogates:									
2-Fluorophenol	27 %	20-53	2	09/03/15	kbc	09/03/15	avl		
Phenol-d5	14 %	11-40	2	09/03/15	kbc	09/03/15	avl		
Nitrobenzene-d5	63 %	36-103	2	09/03/15	kbc	09/03/15	avl		

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ANALYTICAL RESULTS

Trace Project ID: T15I019
Client Project ID: Veterans Park

Trace ID: T15I019-01 Date Collected: 09/01/15 13:40 Matrix: Soil
Sample ID: N. Pond Composite (3) Date Received: 09/01/15 16:19

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP

2-Fluorobiphenyl	72 %	36-119	2	09/03/15	kbc	09/03/15	avl		
2,4,6-Tribromophenol	72 %	30-105	2	09/03/15	kbc	09/03/15	avl		
Terphenyl-d14	78 %	37-109	2	09/03/15	kbc	09/03/15	avl		

PESTICIDES/PCBS, TCLP

Analysis Method: EPA 8081A

Batch: T056257

Chlordane	<0.00050 mg/L	0.00050	1	09/03/15	kbc	09/04/15	tml		0.030
Endrin	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.020
gamma-BHC (Lindane)	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.40
Heptachlor	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.0080
Heptachlor epoxide	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.0080
Methoxychlor	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		10
Toxaphene	<0.0050 mg/L	0.0050	1	09/03/15	kbc	09/04/15	tml		0.50

Surrogates:

Tetrachloro-m-xylene	77 %	38-94	1	09/03/15	kbc	09/04/15	tml	N	
Decachlorobiphenyl	* 97 %	40-93	1	09/03/15	kbc	09/04/15	tml	304, N	

HERBICIDES, TCLP

Analysis Method: EPA 8151A

Batch: T056258

2,4-D	<0.050 mg/L	0.050	1	09/03/15	kbc	09/08/15	tml	N	10
2,4,5-TP (Silvex)	<0.025 mg/L	0.025	1	09/03/15	kbc	09/08/15	tml	N	1.0

Surrogates:

2,4-Dichlorophenylacetic acid	62 %	39-125	1	09/03/15	kbc	09/08/15	tml	N	
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METALS, TCLP

Analysis Method: EPA 6010B

Batch: T056251

Arsenic	<0.30 mg/L	0.30	1	09/03/15	nws	09/04/15	dtm		5.0
Barium	<1.0 mg/L	1.0	1	09/03/15	nws	09/04/15	dtm		100
Cadmium	<0.10 mg/L	0.10	1	09/03/15	nws	09/04/15	dtm		1.0
Chromium	<0.50 mg/L	0.50	1	09/03/15	nws	09/04/15	dtm		5.0
Lead	<0.50 mg/L	0.50	1	09/03/15	nws	09/04/15	dtm		5.0
Selenium	<0.60 mg/L	0.60	1	09/03/15	nws	09/04/15	dtm		1.0
Silver	<0.10 mg/L	0.10	1	09/03/15	nws	09/08/15	dtm		5.0

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ANALYTICAL RESULTS

Trace Project ID: T15I019
 Client Project ID: Veterans Park

Trace ID: T15I019-01 Date Collected: 09/01/15 13:40 Matrix: Soil
 Sample ID: N. Pond Composite (3) Date Received: 09/01/15 16:19

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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METALS, TCLP

Analysis Method: EPA 7470A

Batch: T056264

Mercury	<0.010	mg/L	0.010	1	09/03/15	nws	09/04/15	dtm	0.20
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ANALYTICAL RESULTS

Trace Project ID: T15I019
Client Project ID: Veterans Park

Trace ID: T15I019-02 Date Collected: 09/01/15 12:20 Matrix: Soil
Sample ID: S. Pond Composite (6) Date Received: 09/01/15 16:19

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS, TCLP									
<i>Analysis Method: EPA 8260B</i>									
<i>Batch: T056285</i>									
Vinyl chloride	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.20
1,1-Dichloroethene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.70
2-Butanone	<0.25 mg/L	0.25	50	09/03/15	was	09/03/15	was		200
Chloroform	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		6.0
Carbon tetrachloride	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
Benzene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
1,2-Dichloroethane	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
Trichloroethene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.50
Tetrachloroethene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		0.70
Chlorobenzene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		100
1,4-Dichlorobenzene	<0.050 mg/L	0.050	50	09/03/15	was	09/03/15	was		7.5
Surrogates:									
1,2-Dichloroethane-d4	103 %	68-133	50	09/03/15	was	09/03/15	was		
Toluene-d8	98 %	75-120	50	09/03/15	was	09/03/15	was		
4-Bromofluorobenzene	100 %	69-119	50	09/03/15	was	09/03/15	was		
1,2-Dichlorobenzene-d4	104 %	72-127	50	09/03/15	was	09/03/15	was		

SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP

Analysis Method: EPA 8270C

Batch: T056256

Pyridine	<0.40 mg/L	0.40	2	09/03/15	kbc	09/03/15	avl		5.0
2-Methylphenol (o-Cresol)	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		200
3,4-Methylphenol (m,p Cresol)	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		200
Hexachloroethane	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		3.0
Nitrobenzene	<0.020 mg/L	0.020	2	09/03/15	kbc	09/03/15	avl		2.0
Hexachlorobutadiene	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		0.50
2,4,6-Trichlorophenol	<0.020 mg/L	0.020	2	09/03/15	kbc	09/03/15	avl		2.0
2,4,5-Trichlorophenol	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		400
2,4-Dinitrotoluene	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		0.13
Hexachlorobenzene	<0.050 mg/L	0.050	2	09/03/15	kbc	09/03/15	avl		0.13
Pentachlorophenol	<0.10 mg/L	0.10	2	09/03/15	kbc	09/03/15	avl		100
Surrogates:									
2-Fluorophenol	29 %	20-53	2	09/03/15	kbc	09/03/15	avl		
Phenol-d5	16 %	11-40	2	09/03/15	kbc	09/03/15	avl		
Nitrobenzene-d5	67 %	36-103	2	09/03/15	kbc	09/03/15	avl		

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ANALYTICAL RESULTS

Trace Project ID: T15I019
Client Project ID: Veterans Park

Trace ID: T15I019-02 Date Collected: 09/01/15 12:20 Matrix: Soil
Sample ID: S. Pond Composite (6) Date Received: 09/01/15 16:19

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS, TCLP

2-Fluorobiphenyl	76 %	36-119	2	09/03/15	kbc	09/03/15	avl		
2,4,6-Tribromophenol	84 %	30-105	2	09/03/15	kbc	09/03/15	avl		
Terphenyl-d14	88 %	37-109	2	09/03/15	kbc	09/03/15	avl		

PESTICIDES/PCBS, TCLP

Analysis Method: EPA 8081A

Batch: T056257

Chlordane	<0.00050 mg/L	0.00050	1	09/03/15	kbc	09/04/15	tml		0.030
Endrin	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.020
gamma-BHC (Lindane)	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.40
Heptachlor	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.0080
Heptachlor epoxide	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		0.0080
Methoxychlor	<0.00010 mg/L	0.00010	1	09/03/15	kbc	09/04/15	tml		10
Toxaphene	<0.0050 mg/L	0.0050	1	09/03/15	kbc	09/04/15	tml		0.50

Surrogates:

Tetrachloro-m-xylene	64 %	38-94	1	09/03/15	kbc	09/04/15	tml	N	
Decachlorobiphenyl	70 %	40-93	1	09/03/15	kbc	09/04/15	tml	N	

HERBICIDES, TCLP

Analysis Method: EPA 8151A

Batch: T056258

2,4-D	<0.050 mg/L	0.050	1	09/03/15	kbc	09/08/15	tml	N	10
2,4,5-TP (Silvex)	<0.025 mg/L	0.025	1	09/03/15	kbc	09/08/15	tml	N	1.0

Surrogates:

2,4-Dichlorophenylacetic acid	60 %	39-125	1	09/03/15	kbc	09/08/15	tml	N	
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METALS, TCLP

Analysis Method: EPA 6010B

Batch: T056251

Arsenic	<0.30 mg/L	0.30	1	09/03/15	nws	09/04/15	dtm		5.0
Barium	<1.0 mg/L	1.0	1	09/03/15	nws	09/04/15	dtm		100
Cadmium	<0.10 mg/L	0.10	1	09/03/15	nws	09/04/15	dtm		1.0
Chromium	<0.50 mg/L	0.50	1	09/03/15	nws	09/04/15	dtm		5.0
Lead	<0.50 mg/L	0.50	1	09/03/15	nws	09/04/15	dtm		5.0
Selenium	<0.60 mg/L	0.60	1	09/03/15	nws	09/04/15	dtm		1.0
Silver	<0.10 mg/L	0.10	1	09/03/15	nws	09/08/15	dtm		5.0

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ANALYTICAL RESULTS

Trace Project ID: T15I019
 Client Project ID: Veterans Park

Trace ID: T15I019-02 Date Collected: 09/01/15 12:20 Matrix: Soil
 Sample ID: S. Pond Composite (6) Date Received: 09/01/15 16:19

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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METALS, TCLP

Analysis Method: EPA 7470A

Batch: T056264

Mercury	<0.010	mg/L	0.010	1	09/03/15	nws	09/04/15	dtm	0.20
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QUALITY CONTROL RESULTS

Trace Project ID: T15I019

Client Project ID: Veterans Park

QC Batch: T056249

Analysis Description: TCLP Extraction, SVOC

QC Batch Method: Leaching procedures

Analysis Method: EPA 1311

Trace Project ID: T15I019

Client Project ID: Veterans Park

QC Batch: T056251

Analysis Description: Silver, TCLP

QC Batch Method: EPA 3015 Microwave Assisted Digestions
for Liquids

Analysis Method: EPA 6010B

METHOD BLANK: T056251-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	
Lead	mg/L	<0.50	0.50	
Selenium	mg/L	<0.60	0.60	

METHOD BLANK: T056251-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	
Lead	mg/L	<0.50	0.50	
Selenium	mg/L	<0.60	0.60	

LABORATORY CONTROL SAMPLE: T056251-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	<0.10	95	80-120	
Arsenic	mg/L	0.100	<0.30	107	80-120	
Barium	mg/L	1.60	1.70	106	80-120	
Cadmium	mg/L	0.0500	<0.10	103	80-120	
Chromium	mg/L	0.0500	<0.50	120	80-120	
Lead	mg/L	0.100	<0.50	110	80-120	
Selenium	mg/L	0.100	<0.60	107	80-120	

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Trace Project ID: T15I019
Client Project ID: Veterans Park

QC Batch: T056264	Analysis Description: Mercury, TCLP
QC Batch Method: EPA 7470A Prep	Analysis Method: EPA 7470A

METHOD BLANK: T056264-BLK1

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

METHOD BLANK: T056264-BLK2

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

LABORATORY CONTROL SAMPLE: T056264-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	<0.010	102	80-120	

Trace Project ID: T15I019
Client Project ID: Veterans Park

QC Batch: T056248	Analysis Description: TCLP Extraction, Metals
QC Batch Method: Leaching procedures	Analysis Method: EPA 1311

Trace Project ID: T15I019
Client Project ID: Veterans Park

QC Batch: T056250	Analysis Description: TCLP ZHE, Volatiles
QC Batch Method: Leaching procedures	Analysis Method: EPA 1311

Trace Project ID: T15I019
Client Project ID: Veterans Park

QC Batch: T056257	Analysis Description: TCLP Pesticides
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.	Analysis Method: EPA 8081A

METHOD BLANK: T056257-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chlordane	mg/L	<0.000050	0.000050	
Endrin	mg/L	<0.000010	0.000010	
gamma-BHC (Lindane)	mg/L	<0.000010	0.000010	
Heptachlor	mg/L	<0.000010	0.000010	
Heptachlor epoxide	mg/L	<0.000010	0.000010	
Methoxychlor	mg/L	<0.000010	0.000010	
Toxaphene	mg/L	<0.000050	0.000050	

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METHOD BLANK: T056257-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Tetrachloro-m-xylene (S)	%	46	38-94	
Decachlorobiphenyl (S)	%	72	40-93	

METHOD BLANK: T056257-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Chlordane	mg/L	<0.00050	0.00050	
Endrin	mg/L	<0.00010	0.00010	
gamma-BHC (Lindane)	mg/L	<0.00010	0.00010	
Heptachlor	mg/L	<0.00010	0.00010	
Heptachlor epoxide	mg/L	<0.00010	0.00010	
Methoxychlor	mg/L	<0.00010	0.00010	
Toxaphene	mg/L	<0.0050	0.0050	
Tetrachloro-m-xylene (S)	%	85	38-94	
Decachlorobiphenyl (S)	%	127	40-93	304

LABORATORY CONTROL SAMPLE: T056257-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Endrin	mg/L	0.0000500	0.0000356	71	42-145	
gamma-BHC (Lindane)	mg/L	0.0000500	0.0000304	61	43-124	
Heptachlor	mg/L	0.0000500	0.0000226	45	21-142	
Heptachlor epoxide	mg/L	0.0000500	0.0000298	60	40-132	
Methoxychlor	mg/L	0.0000500	0.0000315	63	47-137	
Tetrachloro-m-xylene (S)	%	0.000100	0.0000577	58	38-94	
Decachlorobiphenyl (S)	%	0.000100	0.0000883	88	40-93	

Trace Project ID: T15I019

Client Project ID: Veterans Park

QC Batch: T056258	Analysis Description: TCLP Herbicides
QC Batch Method: EPA 8151	Analysis Method: EPA 8151A

METHOD BLANK: T056258-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
2,4-D	mg/L	<0.0020	0.0020	
2,4,5-TP (Silvex)	mg/L	<0.0010	0.0010	
2,4-Dichlorophenylacetic acid (S)	%	65	39-125	

METHOD BLANK: T056258-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
2,4-D	mg/L	<0.050	0.050	

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METHOD BLANK: T056258-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
2,4,5-TP (Silvex)	mg/L	<0.025	0.025	
2,4-Dichlorophenylacetic acid (S)	%	61	39-125	

LABORATORY CONTROL SAMPLE: T056258-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2,4-D	mg/L	0.00400	0.00361	90	40-129	
2,4,5-TP (Silvex)	mg/L	0.00400	0.00328	82	56-121	
2,4-Dichlorophenylacetic acid (S)	%	0.00800	0.00795	99	39-125	

Trace Project ID: T15I019

Client Project ID: Veterans Park

QC Batch: T056256

Analysis Description: TCLP Semi-Volatiles

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

Analysis Method: EPA 8270C

METHOD BLANK: T056256-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)	%	27	20-53	
Phenol-d5 (S)	%	15	11-40	
Nitrobenzene-d5 (S)	%	61	36-103	
2-Fluorobiphenyl (S)	%	66	36-119	
2,4,6-Tribromophenol (S)	%	68	30-105	
Terphenyl-d14 (S)	%	71	37-109	

METHOD BLANK: T056256-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	

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METHOD BLANK: T056256-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
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	
2-Fluorophenol (S)	%	29	20-53	
Phenol-d5 (S)	%	16	11-40	
Nitrobenzene-d5 (S)	%	68	36-103	
2-Fluorobiphenyl (S)	%	72	36-119	
2,4,6-Tribromophenol (S)	%	75	30-105	
Terphenyl-d14 (S)	%	78	37-109	

LABORATORY CONTROL SAMPLE: T056256-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2,4-Dinitrotoluene	mg/L	0.0505	0.0382	76	39-105	
Pentachlorophenol	mg/L	0.100	0.0735	73	38-102	
2-Fluorophenol (S)	%	0.102	0.0334	33	20-53	
Phenol-d5 (S)	%	0.102	0.0189	19	11-40	
Nitrobenzene-d5 (S)	%	0.101	0.0726	72	36-103	
2-Fluorobiphenyl (S)	%	0.101	0.0801	79	36-119	
2,4,6-Tribromophenol (S)	%	0.100	0.0855	85	30-105	
Terphenyl-d14 (S)	%	0.100	0.0849	85	37-109	

Trace Project ID: T15I019

Client Project ID: Veterans Park

QC Batch: T056285

Analysis Description: TCLP Volatiles

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T056285-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	
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)	%	100	68-133	

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METHOD BLANK: T056285-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Toluene-d8 (S)	%	98	75-120	
4-Bromofluorobenzene (S)	%	108	69-119	
1,2-Dichlorobenzene-d4 (S)	%	111	72-127	

LABORATORY CONTROL SAMPLE: T056285-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Vinyl chloride	mg/L	1.00	0.786	79	47-184	
1,1-Dichloroethene	mg/L	1.00	1.07	107	64-156	
2-Butanone	mg/L	1.00	1.05	105	70-130	
Chloroform	mg/L	1.00	1.06	106	80-120	
Carbon tetrachloride	mg/L	1.00	1.90	190	79-141	112
Benzene	mg/L	1.00	0.911	91	80-120	
1,2-Dichloroethane	mg/L	1.00	1.01	101	80-120	
Trichloroethene	mg/L	1.00	0.966	97	69-133	
Tetrachloroethene	mg/L	1.00	1.09	109	70-120	
Chlorobenzene	mg/L	1.00	0.982	98	80-120	
1,4-Dichlorobenzene	mg/L	1.00	1.00	100	80-120	
1,2-Dichloroethane-d4 (S)	%	50.0	48.7	97	68-133	
Toluene-d8 (S)	%	50.0	49.1	98	75-120	
4-Bromofluorobenzene (S)	%	50.0	53.7	107	69-119	
1,2-Dichlorobenzene-d4 (S)	%	50.0	54.2	108	72-127	

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CHAIN-OF-CUSTODY RECORD

TRACE ID NO.
T151019

Page 1 of

Company Name: GEI
Report to: Kelly Rice
Mailing Address: 5225 Edgewater Drive
City, State, Zip Code: Attendale, MI 49401
Phone: 616-384-2710 Fax: 616-384-2709
Email Address: krice@geiconsultants.com
Cell #: 616-844-8338
Project Name & #: Veterans Park
Billing Address (if different): same
City, State, Zip Code:
Attn:
Phone:
PO #:

Report Results To:
Mailing Address: 5225 Edgewater Drive
City, State, Zip Code: Attendale, MI 49401
Phone: 616-384-2710 Fax: 616-384-2709
Email Address: krice@geiconsultants.com
Cell #: 616-844-8338
Project Name & #: Veterans Park
Billing Address (if different): same
City, State, Zip Code:
Attn:
Phone:
PO #:

TRACE USE ONLY
Logged By:
Received on ice: Yes No
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:
Regulatory Requirements: MERA TMDLs, Drinking Water, NPDES, Special
Turnaround Requirements: Standard 3 Day, 4 Day, 48 Hour, 24 Hour, Requires Prior Approval
Matrix Key: S = Soil/Solid, W = Water, SL = Sludge, OI = Oil
WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water
ANALYSIS REQUESTED

Table with columns: TRACE NO., DATE TAKEN, TIME TAKEN, CLIENT SAMPLE ID, METALS FIELD FILTERED, MATRIX, NUMBER OF CONTAINERS, COOL, HCL, HNO3, H2SO4, NaOH, Other, PRESENTATION, REMARKS, POSSIBLE HEALTH HAZARDS. Includes handwritten entries for samples 1 and 2.

Table with columns: PLEASE SIGN, RELEASED BY, RECEIVED BY, DATE, TIME, RELEASED BY, RECEIVED BY, DATE, TIME, RELEASED BY, RECEIVED BY, DATE, TIME. Includes handwritten signatures and dates.

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/coctermis.php

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SAMPLE LOG IN CHECKLIST

Trace ID #: T151019 Date: 9/1/15 Package Description: Cooler
Client Name: GET Time: 16:32 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: _____
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue Ice :
No Coolant Present:

Cooler Temperature

Correction Factor: IR Thermometer -0.6 °C (Plastic or Glass -circle one)
Digital Stick Thermometer +0.2 °C
Temperature Blank: 17.3 °C (Use Digital Stick Thermometer)
Range of 3 samples: 15.7-20.3 °C (Use IR Thermometer)
Melt Water: none °C (Use Digital Stick Thermometer)
Ice still present upon receipt: Yes No N/A

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: HC549420 pH 11.0-13.0 Lot: HC547328
 Other: _____

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