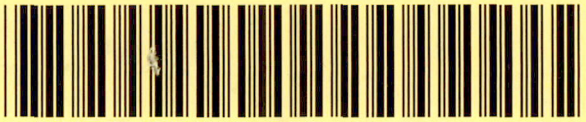
338IHSSF3122



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Summary of Sampling & Remedial Activities for 2011 & 2012 1339 Nowland Highway Nowland, North Carolina

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: **Newland**

Lot Number: **NB16042**
Date Completed: **04/04/2012**

N. Saikaly

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: NB16042

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

Sample Summary
VEC Engineering, PLLC
Lot Number: NB16042

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	P-1 0-2'	Solid	02/13/2012	02/16/2012
002	P-1 2-4'	Solid	02/13/2012	02/16/2012
003	P-1 4-6'	Solid	02/13/2012	02/16/2012
004	P-1 6-8'	Solid	02/13/2012	02/16/2012
005	P-1 8-10'	Solid	02/13/2012	02/16/2012
006	P-2 0-2'	Solid	02/13/2012	02/16/2012
007	P-2 2-4'	Solid	02/13/2012	02/16/2012
008	P-2 4-6'	Solid	02/13/2012	02/16/2012
009	P-2 6-8'	Solid	02/13/2012	02/16/2012
010	P-2 8-10'	Solid	02/13/2012	02/16/2012
011	P-3 4-6'	Solid	02/13/2012	02/16/2012
012	P-3 6-8'	Solid	02/13/2012	02/16/2012
013	P-3 8-10'	Solid	02/13/2012	02/16/2012
014	P-4 0-2'	Solid	02/13/2012	02/16/2012
015	P-4 2-4'	Solid	02/13/2012	02/16/2012
016	P-4 4-6'	Solid	02/13/2012	02/16/2012
017	P-4 6-8'	Solid	02/13/2012	02/16/2012
018	P-4 8-10'	Solid	02/13/2012	02/16/2012
019	P-5 0-2'	Solid	02/13/2012	02/16/2012
020	P-5 2-4'	Solid	02/13/2012	02/16/2012
021	P-5 4-6"	Solid	02/13/2012	02/16/2012
022	P-5 6-8'	Solid	02/13/2012	02/16/2012
023	P-5 8-10'	Solid	02/13/2012	02/16/2012
024	P-6 0-2'	Solid	02/13/2012	02/16/2012
025	P-6 2-4'	Solid	02/13/2012	02/16/2012
026	P-6 4-6'	Solid	02/13/2012	02/16/2012
027	P-6 6-8'	Solid	02/13/2012	02/16/2012
028	P-6 8-10'	Solid	02/13/2012	02/16/2012
029	P-7 0-2'	Solid	02/13/2012	02/16/2012
030	P-7 2-4'	Solid	02/13/2012	02/16/2012
031	P-7 4-6'	Solid	02/13/2012	02/16/2012
032	P-7 6-8'	Solid	02/13/2012	02/16/2012
033	P-7 8-10'	Solid	02/13/2012	02/16/2012
034	P-8 4-6'	Solid	02/13/2012	02/16/2012
035	P-8 6-8'	Solid	02/13/2012	02/16/2012
036	P-8 8-10'	Solid	02/13/2012	02/16/2012
037	P-9 0-2'	Solid	02/13/2012	02/16/2012
038	P-9 2-4'	Solid	02/13/2012	02/16/2012
039	P-9 4-6'	Solid	02/13/2012	02/16/2012
040	P-9 6-8'	Solid	02/13/2012	02/16/2012
041	P-9 8-10'	Solid	02/13/2012	02/16/2012
042	P-10 0-2'	Solid	02/13/2012	02/16/2012
043	P-10 2-4'	Solid	02/13/2012	02/16/2012
044	P-10 4-6'	Solid	02/13/2012	02/16/2012
045	P-10 6-8'	Solid	02/13/2012	02/16/2012

Sample Summary (Continued)

Lot Number: NB16042

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
046	P-11 0-2'	Solid	02/13/2012	02/16/2012
047	P-11 2-4'	Solid	02/13/2012	02/16/2012
048	P-11 4-6'	Solid	02/13/2012	02/16/2012
049	P-11 6-8'	Solid	02/13/2012	02/16/2012
050	P-12 0-2'	Solid	02/13/2012	02/16/2012
051	P-12 2-4'	Solid	02/13/2012	02/16/2012
052	P-12 4-6'	Solid	02/13/2012	02/16/2012
053	P-12 6-8'	Solid	02/13/2012	02/16/2012
054	P-12 8-10'	Solid	02/13/2012	02/16/2012
055	P-13 0-2'	Solid	02/13/2012	02/16/2012
056	P-13 2-4'	Solid	02/13/2012	02/16/2012
057	P-13 4-6'	Solid	02/13/2012	02/16/2012
058	P-13 6-8'	Solid	02/13/2012	
059	P-13 8-10'	Solid	02/13/2012	
060	P-14 '0-2	Solid	02/13/2012	02/16/2012
061	P-14 2-4'	Solid	02/13/2012	02/16/2012
062	P-14 4-6'	Solid	02/13/2012	02/16/2012
063	P-14 6-8'	Solid	02/13/2012	02/16/2012
064	P-14 8-10'	Solid	02/13/2012	02/16/2012

(64 samples)

Executive Summary
VEC Engineering, PLLC
Lot Number: NB16042

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	P-1 0-2'	Solid	alpha-Chlordane	8081B	780		ug/kg	8
001	P-1 0-2'	Solid	gamma-Chlordane	8081B	1200		ug/kg	8
001	P-1 0-2'	Solid	4,4'-DDT	8081B	4000		ug/kg	8
001	P-1 0-2'	Solid	Dieldrin	8081B	6700		ug/kg	8
001	P-1 0-2'	Solid	Heptachlor	8081B	630		ug/kg	8
001	P-1 0-2'	Solid	Toxaphene	8081B	51000		ug/kg	8
002	P-1 2-4'	Solid	4,4'-DDT	8081B	2.4		ug/kg	9
002	P-1 2-4'	Solid	Dieldrin	8081B	3.1		ug/kg	9
003	P-1 4-6'	Solid	alpha-Chlordane	8081B	65		ug/kg	10
003	P-1 4-6'	Solid	gamma-Chlordane	8081B	140		ug/kg	10
003	P-1 4-6'	Solid	4,4'-DDD	8081B	120	P	ug/kg	10
003	P-1 4-6'	Solid	4,4'-DDE	8081B	76		ug/kg	10
003	P-1 4-6'	Solid	4,4'-DDT	8081B	750		ug/kg	10
003	P-1 4-6'	Solid	Dieldrin	8081B	210		ug/kg	10
003	P-1 4-6'	Solid	Endosulfan sulfate	8081B	80	P	ug/kg	10
003	P-1 4-6'	Solid	Endrin	8081B	56	P	ug/kg	10
003	P-1 4-6'	Solid	Endrin aldehyde	8081B	52		ug/kg	10
003	P-1 4-6'	Solid	Endrin ketone	8081B	54		ug/kg	10
003	P-1 4-6'	Solid	Heptachlor	8081B	63		ug/kg	10
003	P-1 4-6'	Solid	Heptachlor epoxide	8081B	27		ug/kg	10
006	P-2 0-2'	Solid	4,4'-DDT	8081B	4.9		ug/kg	13
006	P-2 0-2'	Solid	Dieldrin	8081B	2.7		ug/kg	13
007	P-2 2-4'	Solid	alpha-Chlordane	8081B	2.4		ug/kg	14
007	P-2 2-4'	Solid	gamma-Chlordane	8081B	4.7		ug/kg	14
007	P-2 2-4'	Solid	4,4'-DDE	8081B	2.9	P	ug/kg	14
007	P-2 2-4'	Solid	4,4'-DDT	8081B	14		ug/kg	14
007	P-2 2-4'	Solid	Dieldrin	8081B	34		ug/kg	14
007	P-2 2-4'	Solid	Endrin	8081B	4.8		ug/kg	14
007	P-2 2-4'	Solid	Endrin aldehyde	8081B	4.1		ug/kg	14
007	P-2 2-4'	Solid	Toxaphene	8081B	120		ug/kg	14
008	P-2 4-6'	Solid	4,4'-DDT	8081B	5.1		ug/kg	15
008	P-2 4-6'	Solid	Dieldrin	8081B	12		ug/kg	15
009	P-2 6-8'	Solid	Dieldrin	8081B	5.0		ug/kg	16
011	P-3 4-6'	Solid	4,4'-DDD	8081B	100		ug/kg	18
011	P-3 4-6'	Solid	4,4'-DDE	8081B	94		ug/kg	18
011	P-3 4-6'	Solid	4,4'-DDT	8081B	380		ug/kg	18
011	P-3 4-6'	Solid	Dieldrin	8081B	67		ug/kg	18
014	P-4 0-2'	Solid	gamma-Chlordane	8081B	12		ug/kg	21
014	P-4 0-2'	Solid	4,4'-DDD	8081B	54		ug/kg	21
014	P-4 0-2'	Solid	4,4'-DDE	8081B	44		ug/kg	21
014	P-4 0-2'	Solid	4,4'-DDT	8081B	630		ug/kg	21
014	P-4 0-2'	Solid	Dieldrin	8081B	37		ug/kg	21
014	P-4 0-2'	Solid	Endrin aldehyde	8081B	20	P	ug/kg	21
014	P-4 0-2'	Solid	Toxaphene	8081B	730		ug/kg	21
015	P-4 2-4'	Solid	Dieldrin	8081B	3.6		ug/kg	22

Executive Summary (Continued)

Lot Number: NB16042

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
016	P-4 4-6'	Solid	4,4'-DDT	8081B	2.5		ug/kg	23
019	P-5 0-2'	Solid	4,4'-DDD	8081B	22		ug/kg	24
019	P-5 0-2'	Solid	4,4'-DDE	8081B	140		ug/kg	24
019	P-5 0-2'	Solid	4,4'-DDT	8081B	170		ug/kg	24
019	P-5 0-2'	Solid	Dieldrin	8081B	22		ug/kg	24
019	P-5 0-2'	Solid	Toxaphene	8081B	520		ug/kg	24
020	P-5 2-4'	Solid	alpha-Chlordane	8081B	85		ug/kg	25
020	P-5 2-4'	Solid	gamma-Chlordane	8081B	84		ug/kg	25
020	P-5 2-4'	Solid	4,4'-DDD	8081B	260		ug/kg	25
020	P-5 2-4'	Solid	4,4'-DDE	8081B	350		ug/kg	25
020	P-5 2-4'	Solid	4,4'-DDT	8081B	740		ug/kg	25
020	P-5 2-4'	Solid	Dieldrin	8081B	590		ug/kg	25
020	P-5 2-4'	Solid	Endrin	8081B	160		ug/kg	25
020	P-5 2-4'	Solid	Endrin aldehyde	8081B	210		ug/kg	25
020	P-5 2-4'	Solid	Toxaphene	8081B	6400		ug/kg	25
021	P-5 4-6"	Solid	4,4'-DDD	8081B	7.7		ug/kg	26
021	P-5 4-6"	Solid	4,4'-DDE	8081B	23		ug/kg	26
021	P-5 4-6"	Solid	4,4'-DDT	8081B	42		ug/kg	26
021	P-5 4-6"	Solid	Dieldrin	8081B	17		ug/kg	26
021	P-5 4-6"	Solid	Toxaphene	8081B	230		ug/kg	26
025	P-6 2-4'	Solid	4,4'-DDD	8081B	100		ug/kg	30
025	P-6 2-4'	Solid	4,4'-DDE	8081B	130		ug/kg	30
025	P-6 2-4'	Solid	4,4'-DDT	8081B	100		ug/kg	30
025	P-6 2-4'	Solid	Dieldrin	8081B	150		ug/kg	30
025	P-6 2-4'	Solid	Endrin	8081B	14		ug/kg	30
025	P-6 2-4'	Solid	Endrin aldehyde	8081B	50	P	ug/kg	30
025	P-6 2-4'	Solid	Toxaphene	8081B	580		ug/kg	30
026	P-6 4-6'	Solid	alpha-Chlordane	8081B	4.7	P	ug/kg	31
026	P-6 4-6'	Solid	gamma-Chlordane	8081B	3.3		ug/kg	31
026	P-6 4-6'	Solid	4,4'-DDD	8081B	53		ug/kg	31
026	P-6 4-6'	Solid	4,4'-DDE	8081B	77		ug/kg	31
026	P-6 4-6'	Solid	4,4'-DDT	8081B	80		ug/kg	31
026	P-6 4-6'	Solid	Dieldrin	8081B	65		ug/kg	31
026	P-6 4-6'	Solid	Endrin	8081B	6.9		ug/kg	31
026	P-6 4-6'	Solid	Endrin aldehyde	8081B	24	P	ug/kg	31
026	P-6 4-6'	Solid	Endrin ketone	8081B	6.2	P	ug/kg	31
026	P-6 4-6'	Solid	Toxaphene	8081B	550		ug/kg	31
029	P-7 0-2'	Solid	4,4'-DDE	8081B	9.0		ug/kg	34
029	P-7 0-2'	Solid	4,4'-DDT	8081B	13		ug/kg	34
029	P-7 0-2'	Solid	Dieldrin	8081B	2.4		ug/kg	34
030	P-7 2-4'	Solid	4,4'-DDE	8081B	150		ug/kg	35
030	P-7 2-4'	Solid	4,4'-DDT	8081B	180		ug/kg	35
030	P-7 2-4'	Solid	Dieldrin	8081B	89		ug/kg	35
034	P-8 4-6'	Solid	alpha-BHC	8081B	3.3		ug/kg	39
034	P-8 4-6'	Solid	4,4'-DDD	8081B	5.0		ug/kg	39
034	P-8 4-6'	Solid	4,4'-DDE	8081B	2.8		ug/kg	39
034	P-8 4-6'	Solid	4,4'-DDT	8081B	16		ug/kg	39
034	P-8 4-6'	Solid	Dieldrin	8081B	2.7		ug/kg	39

Executive Summary (Continued)

Lot Number: NB16042

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
034	P-8 4-6'	Solid	Endrin	8081B	4.1		ug/kg	39
037	P-9 0-2'	Solid	alpha-BHC	8081B	1800		ug/kg	42
037	P-9 0-2'	Solid	Toxaphene	8081B	600		ug/kg	42
038	P-9 2-4'	Solid	alpha-BHC	8081B	6.3		ug/kg	43
039	P-9 4-6'	Solid	alpha-BHC	8081B	260		ug/kg	44
042	P-10 0-2'	Solid	alpha-BHC	8081B	59		ug/kg	46
042	P-10 0-2'	Solid	4,4'-DDD	8081B	52		ug/kg	46
042	P-10 0-2'	Solid	4,4'-DDE	8081B	44		ug/kg	46
042	P-10 0-2'	Solid	4,4'-DDT	8081B	65		ug/kg	46
042	P-10 0-2'	Solid	Dieldrin	8081B	49		ug/kg	46
042	P-10 0-2'	Solid	Endrin	8081B	12		ug/kg	46
042	P-10 0-2'	Solid	Toxaphene	8081B	450	P	ug/kg	46
046	P-11 0-2'	Solid	alpha-BHC	8081B	150		ug/kg	48
046	P-11 0-2'	Solid	gamma-BHC (Lindane)	8081B	49		ug/kg	48
046	P-11 0-2'	Solid	4,4'-DDD	8081B	22		ug/kg	48
046	P-11 0-2'	Solid	4,4'-DDE	8081B	44	P	ug/kg	48
046	P-11 0-2'	Solid	4,4'-DDT	8081B	160		ug/kg	48
046	P-11 0-2'	Solid	Dieldrin	8081B	30		ug/kg	48
046	P-11 0-2'	Solid	Toxaphene	8081B	1400		ug/kg	48
050	P-12 0-2'	Solid	gamma-Chlordane	8081B	40	P	ug/kg	50
050	P-12 0-2'	Solid	4,4'-DDD	8081B	240		ug/kg	50
050	P-12 0-2'	Solid	4,4'-DDE	8081B	87	P	ug/kg	50
050	P-12 0-2'	Solid	4,4'-DDT	8081B	330		ug/kg	50
050	P-12 0-2'	Solid	Dieldrin	8081B	230		ug/kg	50
050	P-12 0-2'	Solid	Toxaphene	8081B	3700		ug/kg	50
051	P-12 2-4'	Solid	alpha-BHC	8081B	12		ug/kg	51
051	P-12 2-4'	Solid	gamma-BHC (Lindane)	8081B	10		ug/kg	51
051	P-12 2-4'	Solid	4,4'-DDD	8081B	27		ug/kg	51
051	P-12 2-4'	Solid	4,4'-DDE	8081B	13		ug/kg	51
051	P-12 2-4'	Solid	4,4'-DDT	8081B	16		ug/kg	51
051	P-12 2-4'	Solid	Dieldrin	8081B	10	P	ug/kg	51
060	P-14 '0-2	Solid	4,4'-DDT	8081B	6.2		ug/kg	58

(125 detections)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-1 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-001**
Matrix: **Solid**
% Solids: **83.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	500	03/14/2012 2347	NCM	02/27/2012 1013	78736
2	3550C	8081B	100	03/20/2012 2207	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		200	ug/kg	2
alpha-BHC	319-84-6	8081B	ND		200	ug/kg	2
beta-BHC	319-85-7	8081B	ND		200	ug/kg	2
delta-BHC	319-86-8	8081B	ND		200	ug/kg	2
gamma-BHC (Lindane)	58-89-9	8081B	ND		200	ug/kg	2
alpha-Chlordane	**5103-71-9**	**8081B**	**780**		**200**	**ug/kg**	**2**
gamma-Chlordane	**5103-74-2**	**8081B**	**1200**		**1000**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		1000	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1000	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**4000**		**1000**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**6700**		**1000**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		200	ug/kg	2
Endosulfan II	33213-65-9	8081B	ND		1000	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1000	ug/kg	1
Endrin	72-20-8	8081B	ND		1000	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1000	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1000	ug/kg	1
Heptachlor	**76-44-8**	**8081B**	**630**		**200**	**ug/kg**	**2**
Heptachlor epoxide	1024-57-3	8081B	ND		200	ug/kg	2
Methoxychlor	72-43-5	8081B	ND		4000	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**51000**		**9800**	**ug/kg**	**2**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		113	51-134		111	51-134
Tetrachloro-m-xylene		103	51-104		82	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-1 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-002**
Matrix: **Solid**
% Solids: **87.1** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0007	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**2.4**		**1.9**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**3.1**		**1.9**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		101	51-134
Tetrachloro-m-xylene		83	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-1 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-003**
Matrix: **Solid**
% Solids: **82.7** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	03/14/2012 0026	NCM	02/27/2012 1013	78736
2	3550C	8081B	50	03/20/2012 2246	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		20	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		20	ug/kg	1
beta-BHC	319-85-7	8081B	ND		20	ug/kg	1
delta-BHC	319-86-8	8081B	ND		20	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		20	ug/kg	1
alpha-Chlordane	**5103-71-9**	**8081B**	**65**		**20**	**ug/kg**	**1**
gamma-Chlordane	**5103-74-2**	**8081B**	**140**		**20**	**ug/kg**	**1**
4,4'-DDD	**72-54-8**	**8081B**	**120**	**P**	**20**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**76**		**20**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**750**		**100**	**ug/kg**	**2**
Dieldrin	**60-57-1**	**8081B**	**210**		**20**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		20	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		20	ug/kg	1
Endosulfan sulfate	**1031-07-8**	**8081B**	**80**	**P**	**20**	**ug/kg**	**1**
Endrin	**72-20-8**	**8081B**	**56**	**P**	**20**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**52**		**20**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**54**		**20**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**63**		**20**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**27**		**20**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		80	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		5000	ug/kg	2

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		100	51-134		110	51-134
Tetrachloro-m-xylene		86	51-104		88	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-1 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-004**
Matrix: **Solid**
% Solids: **87.6** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/28/2012 2118	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		94	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		112	51-134
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-1 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-005**
Matrix: **Solid**
% Solids: **84.3** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/28/2012 2216	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		98	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		106	51-134
Tetrachloro-m-xylene		83	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-2 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-006**
Matrix: **Solid**
% Solids: **86.0** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0046	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**4.9**		**1.9**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**2.7**		**1.9**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		94	51-134
Tetrachloro-m-xylene		74	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-2 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-007**
Matrix: **Solid**
% Solids: **89.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0105	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	**5103-71-9**	**8081B**	**2.4**		**1.9**	**ug/kg**	**1**
gamma-Chlordane	**5103-74-2**	**8081B**	**4.7**		**1.9**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**2.9**	**P**	**1.9**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**14**		**1.9**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**34**		**1.9**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	**72-20-8**	**8081B**	**4.8**		**1.9**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**4.1**		**1.9**	**ug/kg**	**1**
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**120**		**91**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		107	51-134
Tetrachloro-m-xylene		85	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-2 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-008**
Matrix: **Solid**
% Solids: **81.1** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/28/2012 2236	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**5.1**		**2.1**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**12**		**2.1**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.2	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		110	51-134
Tetrachloro-m-xylene		85	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-2 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-009**
Matrix: **Solid**
% Solids: **87.5** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/28/2012 2256	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	**60-57-1**	**8081B**	**5.0**		**1.9**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		93	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		108	51-134
Tetrachloro-m-xylene		86	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = *Detected in the method blank*
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-2 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-010**
Matrix: **Solid**
% Solids: **89.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/28/2012 2315	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		91	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		112	51-134
Tetrachloro-m-xylene		81	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-3 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-011**
Matrix: **Solid**
% Solids: **71.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	20	03/14/2012 0125	NCM	02/27/2012 1013	78736
2	3550C	8081B	10	03/20/2012 2345	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		23	ug/kg	2
alpha-BHC	319-84-6	8081B	ND		23	ug/kg	2
beta-BHC	319-85-7	8081B	ND		23	ug/kg	2
delta-BHC	319-86-8	8081B	ND		23	ug/kg	2
gamma-BHC (Lindane)	58-89-9	8081B	ND		23	ug/kg	2
alpha-Chlordane	5103-71-9	8081B	ND		23	ug/kg	2
gamma-Chlordane	5103-74-2	8081B	ND		23	ug/kg	2
4,4'-DDD	**72-54-8**	**8081B**	**100**		**46**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**94**		**46**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**380**		**46**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**67**		**46**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		23	ug/kg	2
Endosulfan II	33213-65-9	8081B	ND		23	ug/kg	2
Endosulfan sulfate	1031-07-8	8081B	ND		23	ug/kg	2
Endrin	72-20-8	8081B	ND		23	ug/kg	2
Endrin aldehyde	7421-93-4	8081B	ND		46	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		23	ug/kg	2
Heptachlor	76-44-8	8081B	ND		23	ug/kg	2
Heptachlor epoxide	1024-57-3	8081B	ND		23	ug/kg	2
Methoxychlor	72-43-5	8081B	ND		90	ug/kg	2
Toxaphene	8001-35-2	8081B	ND		1100	ug/kg	2

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		99	51-134		111	51-134
Tetrachloro-m-xylene		65	51-104		69	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-3 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-012**
Matrix: **Solid**
% Solids: **87.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0144	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		93	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		99	51-134
Tetrachloro-m-xylene		78	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
** = Reportable result (only when report all runs)*

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-3 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-013**
Matrix: **Solid**
% Solids: **85.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0204	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		93	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		98	51-134
Tetrachloro-m-xylene		74	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-4 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-014**
Matrix: **Solid**
% Solids: **80.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	03/14/2012 0223	NCM	02/27/2012 1013	78736
2	3550C	8081B	20	03/21/2012 0004	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		10	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		10	ug/kg	1
beta-BHC	319-85-7	8081B	ND		10	ug/kg	1
delta-BHC	319-86-8	8081B	ND		10	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		10	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		10	ug/kg	1
gamma-Chlordane	**5103-74-2**	**8081B**	**12**		**10**	**ug/kg**	**1**
4,4'-DDD	**72-54-8**	**8081B**	**54**		**10**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**44**		**10**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**630**		**42**	**ug/kg**	**2**
Dieldrin	**60-57-1**	**8081B**	**37**		**10**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		10	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		10	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		10	ug/kg	1
Endrin	72-20-8	8081B	ND		10	ug/kg	1
Endrin aldehyde	**7421-93-4**	**8081B**	**20**	**P**	**10**	**ug/kg**	**1**
Endrin ketone	53494-70-5	8081B	ND		10	ug/kg	1
Heptachlor	76-44-8	8081B	ND		10	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		10	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		41	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**730**		**510**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		102	51-134		109	51-134
Tetrachloro-m-xylene		89	51-104		92	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-4 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-015**
Matrix: **Solid**
% Solids: **82.0** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0243	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	**60-57-1**	**8081B**	**3.6**		**2.1**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		104	51-134
Tetrachloro-m-xylene		72	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-4 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-016**
Matrix: **Solid**
% Solids: **82.7** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0302	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**2.5**		**2.0**	**ug/kg**	**1**
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		100	51-134
Tetrachloro-m-xylene		76	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-5 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-019**
Matrix: **Solid**
% Solids: **84.1** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	03/14/2012 0322	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		10	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		10	ug/kg	1
beta-BHC	319-85-7	8081B	ND		10	ug/kg	1
delta-BHC	319-86-8	8081B	ND		10	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		10	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		10	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		10	ug/kg	1
4,4'-DDD	**72-54-8**	**8081B**	**22**		**10**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**140**		**10**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**170**		**10**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**22**		**10**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		10	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		10	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		10	ug/kg	1
Endrin	72-20-8	8081B	ND		10	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		10	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		10	ug/kg	1
Heptachlor	76-44-8	8081B	ND		10	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		10	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		40	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**520**		**490**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		105	51-134
Tetrachloro-m-xylene		90	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-5 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-020**
Matrix: **Solid**
% Solids: **85.0** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	50	03/14/2012 0341	NCM	02/27/2012 1013	78736
2	3550C	8081B	10	03/21/2012 0103	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		19	ug/kg	2
alpha-BHC	319-84-6	8081B	ND		19	ug/kg	2
beta-BHC	319-85-7	8081B	ND		19	ug/kg	2
delta-BHC	319-86-8	8081B	ND		19	ug/kg	2
gamma-BHC (Lindane)	58-89-9	8081B	ND		19	ug/kg	2
alpha-Chlordane	**5103-71-9**	**8081B**	**85**		**19**	**ug/kg**	**2**
gamma-Chlordane	**5103-74-2**	**8081B**	**84**		**19**	**ug/kg**	**2**
4,4'-DDD	**72-54-8**	**8081B**	**260**		**97**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**350**		**97**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**740**		**97**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**590**		**97**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		97	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		97	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		97	ug/kg	1
Endrin	**72-20-8**	**8081B**	**160**		**97**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**210**		**97**	**ug/kg**	**1**
Endrin ketone	53494-70-5	8081B	ND		97	ug/kg	1
Heptachlor	76-44-8	8081B	ND		19	ug/kg	2
Heptachlor epoxide	1024-57-3	8081B	ND		19	ug/kg	2
Methoxychlor	72-43-5	8081B	ND		380	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**6400**		**4700**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		114	51-134		128	51-134
Tetrachloro-m-xylene		85	51-104		91	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-5 4-6"**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-021**
Matrix: **Solid**
% Solids: **82.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	2	03/14/2012 0401	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		4.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		4.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		4.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		4.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		4.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		4.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		4.1	ug/kg	1
4,4'-DDD	**72-54-8**	**8081B**	**7.7**		**4.1**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**23**		**4.1**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**42**		**4.1**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**17**		**4.1**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		4.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		4.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		4.1	ug/kg	1
Endrin	72-20-8	8081B	ND		4.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		4.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		4.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		4.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		4.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		16	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**230**		**200**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		110	51-134
Tetrachloro-m-xylene		91	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-5 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-022**
Matrix: **Solid**
% Solids: **77.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0014	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.2	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.2	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.2	ug/kg	1
Endrin	72-20-8	8081B	ND		2.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		117	51-134
Tetrachloro-m-xylene		92	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-5 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-023**
Matrix: **Solid**
% Solids: **83.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0033	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		98	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		110	51-134
Tetrachloro-m-xylene		84	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-6 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-024**
Matrix: **Solid**
% Solids: **84.5** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0421	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		94	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		99	51-134
Tetrachloro-m-xylene		80	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-6 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-025**
Matrix: **Solid**
% Solids: **81.0** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	03/14/2012 0440	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		10	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		10	ug/kg	1
beta-BHC	319-85-7	8081B	ND		10	ug/kg	1
delta-BHC	319-86-8	8081B	ND		10	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		10	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		10	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		10	ug/kg	1
4,4'-DDD	**72-54-8**	**8081B**	**100**		**10**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**130**		**10**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**100**		**10**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**150**		**10**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		10	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		10	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		10	ug/kg	1
Endrin	**72-20-8**	**8081B**	**14**		**10**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**50**	**P**	**10**	**ug/kg**	**1**
Endrin ketone	53494-70-5	8081B	ND		10	ug/kg	1
Heptachlor	76-44-8	8081B	ND		10	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		10	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		41	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**580**		**510**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		105	51-134
Tetrachloro-m-xylene		78	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-6 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-026**
Matrix: **Solid**
% Solids: **85.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0053	NCM	02/26/2012 1100	78709
2	3550C	8081B	5	04/01/2012 0151	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	**5103-71-9**	**8081B**	**4.7**	**P**	**2.0**	**ug/kg**	**1**
gamma-Chlordane	**5103-74-2**	**8081B**	**3.3**		**2.0**	**ug/kg**	**1**
4,4'-DDD	**72-54-8**	**8081B**	**53**		**9.9**	**ug/kg**	**2**
4,4'-DDE	**72-55-9**	**8081B**	**77**		**9.9**	**ug/kg**	**2**
4,4'-DDT	**50-29-3**	**8081B**	**80**		**9.9**	**ug/kg**	**2**
Dieldrin	**60-57-1**	**8081B**	**65**		**9.9**	**ug/kg**	**2**
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	**72-20-8**	**8081B**	**6.9**		**2.0**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**24**	**P**	**2.0**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**6.2**	**P**	**2.0**	**ug/kg**	**1**
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.8	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**550**		**480**	**ug/kg**	**2**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		109	51-134		133	51-134
Tetrachloro-m-xylene		88	51-104		95	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-6 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-027**
Matrix: **Solid**
% Solids: **87.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0113	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		94	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		104	51-134
Tetrachloro-m-xylene		79	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-6 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-028**
Matrix: **Solid**
% Solids: **85.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0132	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		99	51-134
Tetrachloro-m-xylene		86	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-7 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-029**
Matrix: **Solid**
% Solids: **84.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/20/2012 1732	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**9.0**		**2.0**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**13**		**2.0**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**2.4**		**2.0**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		96	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		101	51-134
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-7 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-030**
Matrix: **Solid**
% Solids: **83.3** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	03/20/2012 1752	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		20	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		20	ug/kg	1
beta-BHC	319-85-7	8081B	ND		20	ug/kg	1
delta-BHC	319-86-8	8081B	ND		20	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		20	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		20	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		20	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		20	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**150**		**20**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**180**		**20**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**89**		**20**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		20	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		20	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		20	ug/kg	1
Endrin	72-20-8	8081B	ND		20	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		20	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		20	ug/kg	1
Heptachlor	76-44-8	8081B	ND		20	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		20	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		80	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		990	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		97	51-134
Tetrachloro-m-xylene		81	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-7 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-031**
Matrix: **Solid**
% Solids: **68.1** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0038	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.4	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.4	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.4	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.4	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.4	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.4	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.4	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.4	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.4	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.4	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.4	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.4	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.4	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.4	ug/kg	1
Endrin	72-20-8	8081B	ND		2.4	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.4	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.4	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.4	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.4	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		9.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		120	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		92	51-134
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-7 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-032**
Matrix: **Solid**
% Solids: **83.3** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0057	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		97	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		92	51-134
Tetrachloro-m-xylene		73	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-7 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-033**
Matrix: **Solid**
% Solids: **83.7** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0117	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		93	51-134
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-8 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-034**
Matrix: **Solid**
% Solids: **88.5** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/20/2012 1851	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	**319-84-6**	**8081B**	**3.3**		**1.9**	**ug/kg**	**1**
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	**72-54-8**	**8081B**	**5.0**		**1.9**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**2.8**		**1.9**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**16**		**1.9**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**2.7**		**1.9**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	**72-20-8**	**8081B**	**4.1**		**1.9**	**ug/kg**	**1**
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		91	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		108	51-134
Tetrachloro-m-xylene		86	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-8 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-035**
Matrix: **Solid**
% Solids: **88.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0136	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		91	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		99	51-134
Tetrachloro-m-xylene		74	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-8 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-036**
Matrix: **Solid**
% Solids: **79.6** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0156	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		96	51-134
Tetrachloro-m-xylene		77	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-9 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-037**
Matrix: **Solid**
% Solids: **85.6** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0216	NCM	02/27/2012 2014	78816
2	3550C	8081B	100	03/20/2012 2048	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		190	ug/kg	2
alpha-BHC	**319-84-6**	**8081B**	**1800**		**190**	**ug/kg**	**2**
beta-BHC	319-85-7	8081B	ND		190	ug/kg	2
delta-BHC	319-86-8	8081B	ND		190	ug/kg	2
gamma-BHC (Lindane)	58-89-9	8081B	ND		190	ug/kg	2
alpha-Chlordane	5103-71-9	8081B	ND		190	ug/kg	2
gamma-Chlordane	5103-74-2	8081B	ND		190	ug/kg	2
4,4'-DDD	72-54-8	8081B	ND		190	ug/kg	2
4,4'-DDE	72-55-9	8081B	ND		190	ug/kg	2
4,4'-DDT	50-29-3	8081B	ND		190	ug/kg	2
Dieldrin	60-57-1	8081B	ND		190	ug/kg	2
Endosulfan I	959-98-8	8081B	ND		190	ug/kg	2
Endosulfan II	33213-65-9	8081B	ND		190	ug/kg	2
Endosulfan sulfate	1031-07-8	8081B	ND		190	ug/kg	2
Endrin	72-20-8	8081B	ND		190	ug/kg	2
Endrin aldehyde	7421-93-4	8081B	ND		190	ug/kg	2
Endrin ketone	53494-70-5	8081B	ND		190	ug/kg	2
Heptachlor	76-44-8	8081B	ND		190	ug/kg	2
Heptachlor epoxide	1024-57-3	8081B	ND		190	ug/kg	2
Methoxychlor	72-43-5	8081B	ND		760	ug/kg	2
Toxaphene	**8001-35-2**	**8081B**	**600**		**94**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
Decachlorobiphenyl		94	51-134		108	51-134
Tetrachloro-m-xylene		73	51-104		69	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-9 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-038**
Matrix: **Solid**
% Solids: **79.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/20/2012 1910	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	**319-84-6**	**8081B**	**6.3**		**2.1**	**ug/kg**	**1**
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		100	51-134
Tetrachloro-m-xylene		72	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-9 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-039**
Matrix: **Solid**
% Solids: **89.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0255	NCM	02/27/2012 2014	78816
2	3550C	8081B	10	03/20/2012 2108	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	**319-84-6**	**8081B**	**260**		**19**	**ug/kg**	**2**
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		19	ug/kg	2
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		19	ug/kg	2
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.3	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		91	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		93	51-134		100	51-134
Tetrachloro-m-xylene		73	51-104		79	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-9 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-040**
Matrix: **Solid**
% Solids: **85.6** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0152	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		97	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		103	51-134
Tetrachloro-m-xylene		80	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-10 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-042**
Matrix: **Solid**
% Solids: **84.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0314	NCM	02/27/2012 2014	78816
2	3550C	8081B	5	03/20/2012 1930	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		9.8	ug/kg	2
alpha-BHC	**319-84-6**	**8081B**	**59**		**9.8**	**ug/kg**	**2**
beta-BHC	319-85-7	8081B	ND		9.8	ug/kg	2
delta-BHC	319-86-8	8081B	ND		9.8	ug/kg	2
gamma-BHC (Lindane)	58-89-9	8081B	ND		9.8	ug/kg	2
alpha-Chlordane	5103-71-9	8081B	ND		9.8	ug/kg	2
gamma-Chlordane	5103-74-2	8081B	ND		9.8	ug/kg	2
4,4'-DDD	**72-54-8**	**8081B**	**52**		**9.8**	**ug/kg**	**2**
4,4'-DDE	**72-55-9**	**8081B**	**44**		**9.8**	**ug/kg**	**2**
4,4'-DDT	**50-29-3**	**8081B**	**65**		**9.8**	**ug/kg**	**2**
Dieldrin	**60-57-1**	**8081B**	**49**		**9.8**	**ug/kg**	**2**
Endosulfan I	959-98-8	8081B	ND		9.8	ug/kg	2
Endosulfan II	33213-65-9	8081B	ND		9.8	ug/kg	2
Endosulfan sulfate	1031-07-8	8081B	ND		9.8	ug/kg	2
Endrin	**72-20-8**	**8081B**	**12**		**9.8**	**ug/kg**	**2**
Endrin aldehyde	7421-93-4	8081B	ND		9.8	ug/kg	2
Endrin ketone	53494-70-5	8081B	ND		9.8	ug/kg	2
Heptachlor	76-44-8	8081B	ND		9.8	ug/kg	2
Heptachlor epoxide	1024-57-3	8081B	ND		9.8	ug/kg	2
Methoxychlor	72-43-5	8081B	ND		39	ug/kg	2
Toxaphene	**8001-35-2**	**8081B**	**450**	**P**	**96**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		78	51-134		84	51-134
Tetrachloro-m-xylene		57	51-104		66	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-10 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-043**
Matrix: **Solid**
% Solids: **86.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0334	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		97	51-134
Tetrachloro-m-xylene		71	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-11 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-046**
Matrix: **Solid**
% Solids: **80.5** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	03/20/2012 1950	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		21	ug/kg	1
alpha-BHC	**319-84-6**	**8081B**	**150**		**21**	**ug/kg**	**1**
beta-BHC	319-85-7	8081B	ND		21	ug/kg	1
delta-BHC	319-86-8	8081B	ND		21	ug/kg	1
gamma-BHC (Lindane)	**58-89-9**	**8081B**	**49**		**21**	**ug/kg**	**1**
alpha-Chlordane	5103-71-9	8081B	ND		21	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		21	ug/kg	1
4,4'-DDD	**72-54-8**	**8081B**	**22**		**21**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**44**	**P**	**21**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**160**		**21**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**30**		**21**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		21	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		21	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		21	ug/kg	1
Endrin	72-20-8	8081B	ND		21	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		21	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		21	ug/kg	1
Heptachlor	76-44-8	8081B	ND		21	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		21	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		82	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**1400**		**1000**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		104	51-134
Tetrachloro-m-xylene		94	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-11 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-047**
Matrix: **Solid**
% Solids: **81.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0353	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.2	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		99	51-134
Tetrachloro-m-xylene		67	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-12 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-050**
Matrix: **Solid**
% Solids: **77.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	03/22/2012 2043	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		22	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		22	ug/kg	1
beta-BHC	319-85-7	8081B	ND		22	ug/kg	1
delta-BHC	319-86-8	8081B	ND		22	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		22	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		22	ug/kg	1
gamma-Chlordane	**5103-74-2**	**8081B**	**40**	**P**	**22**	**ug/kg**	**1**
4,4'-DDD	**72-54-8**	**8081B**	**240**		**22**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**87**	**P**	**22**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**330**		**22**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**230**		**22**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		22	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		22	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		22	ug/kg	1
Endrin	72-20-8	8081B	ND		22	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		22	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		22	ug/kg	1
Heptachlor	76-44-8	8081B	ND		22	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		22	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		85	ug/kg	1
Toxaphene	**8001-35-2**	**8081B**	**3700**		**1100**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		108	51-134
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-12 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-051**
Matrix: **Solid**
% Solids: **79.5** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/22/2012 2103	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	**319-84-6**	**8081B**	**12**		**2.1**	**ug/kg**	**1**
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	**58-89-9**	**8081B**	**10**		**2.1**	**ug/kg**	**1**
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	**72-54-8**	**8081B**	**27**		**2.1**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**13**		**2.1**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**16**		**2.1**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**10**	**P**	**2.1**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		90	51-134
Tetrachloro-m-xylene		70	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-12 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-052**
Matrix: **Solid**
% Solids: **72.0** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0349	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.3	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.3	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.3	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.3	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.3	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.3	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.3	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.3	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.3	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.3	ug/kg	1
Endrin	72-20-8	8081B	ND		2.3	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.3	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.3	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		9.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene		84	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-12 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-053**
Matrix: **Solid**
% Solids: **82.6** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/29/2012 0408	NCM	02/26/2012 1100	78709

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		98	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		111	51-134
Tetrachloro-m-xylene		84	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-12 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-054**
Matrix: **Solid**
% Solids: **80.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0500	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		98	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene		81	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-13 0-2'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-055**
Matrix: **Solid**
% Solids: **78.9** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0413	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.2	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene		79	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-13 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-056**
Matrix: **Solid**
% Solids: **71.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0432	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.3	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.3	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.3	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.3	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.3	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.3	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.3	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.3	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.3	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.3	ug/kg	1
Endrin	72-20-8	8081B	ND		2.3	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.3	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.3	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		104	51-134
Tetrachloro-m-xylene		79	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-13 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-057**
Matrix: **Solid**
% Solids: **93.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/17/2012 0452	NCM	02/27/2012 2014	78816

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.8	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.8	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.8	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.8	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.8	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.8	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.8	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.8	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.8	ug/kg	1
Endrin	72-20-8	8081B	ND		1.8	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.8	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.8	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		87	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		105	51-134
Tetrachloro-m-xylene		80	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-14 '0-2**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-060**
Matrix: **Solid**
% Solids: **69.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/20/2012 1614	NCM	02/27/2012 2151	78820

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.5	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.5	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.5	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.5	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.5	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.5	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.5	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.5	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.5	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**6.2**		**2.5**	**ug/kg**	**1**
Dieldrin	60-57-1	8081B	ND		2.5	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.5	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.5	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.5	ug/kg	1
Endrin	72-20-8	8081B	ND		2.5	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.5	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.5	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.5	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.5	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		9.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		120	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene		78	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-14 2-4'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-061**
Matrix: **Solid**
% Solids: **81.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/20/2012 1633	NCM	02/27/2012 2151	78820

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.2	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		106	51-134
Tetrachloro-m-xylene		83	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-14 4-6'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-062**
Matrix: **Solid**
% Solids: **88.4** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0519	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.8	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.8	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.8	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.8	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.8	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.8	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.8	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.8	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.8	ug/kg	1
Endrin	72-20-8	8081B	ND		1.8	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.8	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.8	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.3	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		90	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		103	51-134
Tetrachloro-m-xylene		86	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-14 6-8'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-063**
Matrix: **Solid**
% Solids: **89.8** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0539	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.19	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		0.19	ug/kg	1
beta-BHC	319-85-7	8081B	ND		0.19	ug/kg	1
delta-BHC	319-86-8	8081B	ND		0.19	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.19	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		0.19	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		0.19	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		0.19	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		0.19	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		0.19	ug/kg	1
Dieldrin	60-57-1	8081B	ND		0.19	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		0.19	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		0.19	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.19	ug/kg	1
Endrin	72-20-8	8081B	ND		0.19	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		0.19	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		0.19	ug/kg	1
Heptachlor	76-44-8	8081B	ND		0.19	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.19	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		0.74	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		9.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		101	51-134
Tetrachloro-m-xylene		76	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **P-14 8-10'**
Date Sampled: **02/13/2012**
Date Received: **02/16/2012**

Laboratory ID: **NB16042-064**
Matrix: **Solid**
% Solids: **85.2** **02/16/2012 2148**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	03/14/2012 0558	NCM	02/27/2012 1013	78736

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene	N	36	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

QC Summary

Organochlorine Pesticides by GC - MB

Sample ID: NQ78709-001
Batch: 78709
Analytical Method: 8081B
Matrix: Solid
Prep Method: 3550C
Prep Date: 02/26/2012 1100

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	03/28/2012 2038
4,4'-DDE	ND		1	1.7	ug/kg	03/28/2012 2038
4,4'-DDT	ND		1	1.7	ug/kg	03/28/2012 2038
Aldrin	ND		1	1.7	ug/kg	03/28/2012 2038
alpha-BHC	ND		1	1.7	ug/kg	03/28/2012 2038
alpha-Chlordane	ND		1	1.7	ug/kg	03/28/2012 2038
beta-BHC	ND		1	1.7	ug/kg	03/28/2012 2038
delta-BHC	ND		1	1.7	ug/kg	03/28/2012 2038
Dieldrin	ND		1	1.7	ug/kg	03/28/2012 2038
Endosulfan I	ND		1	1.7	ug/kg	03/28/2012 2038
Endosulfan II	ND		1	1.7	ug/kg	03/28/2012 2038
Endosulfan sulfate	ND		1	1.7	ug/kg	03/28/2012 2038
Endrin	ND		1	1.7	ug/kg	03/28/2012 2038
Endrin aldehyde	ND		1	1.7	ug/kg	03/28/2012 2038
Endrin ketone	ND		1	1.7	ug/kg	03/28/2012 2038
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	03/28/2012 2038
gamma-Chlordane	ND		1	1.7	ug/kg	03/28/2012 2038
Heptachlor	ND		1	1.7	ug/kg	03/28/2012 2038
Heptachlor epoxide	ND		1	1.7	ug/kg	03/28/2012 2038
Methoxychlor	ND		1	6.7	ug/kg	03/28/2012 2038
Toxaphene	ND		1	83	ug/kg	03/28/2012 2038

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		119	51-134
Tetrachloro-m-xylene		94	51-104

PQL = *Practical quantitation limit*
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78709-002
Batch: 78709
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/26/2012 1100

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	17		1	100	70-130	03/28/2012 2058
4,4'-DDE	17	18		1	105	70-130	03/28/2012 2058
4,4'-DDT	17	20		1	115	70-130	03/28/2012 2058
Aldrin	17	17		1	102	70-130	03/28/2012 2058
alpha-BHC	17	17		1	100	70-130	03/28/2012 2058
alpha-Chlordane	17	18		1	105	70-130	03/28/2012 2058
beta-BHC	17	17		1	99	70-130	03/28/2012 2058
delta-BHC	17	18		1	105	70-130	03/28/2012 2058
Dieldrin	17	18		1	105	70-130	03/28/2012 2058
Endosulfan I	17	17		1	101	70-130	03/28/2012 2058
Endosulfan II	17	17		1	102	70-130	03/28/2012 2058
Endosulfan sulfate	17	17		1	101	70-130	03/28/2012 2058
Endrin	17	20		1	115	70-130	03/28/2012 2058
Endrin aldehyde	17	15		1	88	70-130	03/28/2012 2058
Endrin ketone	17	17		1	99	70-130	03/28/2012 2058
gamma-BHC (Lindane)	17	16		1	96	70-130	03/28/2012 2058
gamma-Chlordane	17	18		1	107	70-130	03/28/2012 2058
Heptachlor	17	17		1	97	70-130	03/28/2012 2058
Heptachlor epoxide	17	17		1	99	70-130	03/28/2012 2058
Methoxychlor	17	21		1	122	70-130	03/28/2012 2058

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		117	51-134
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NB16042-004MS
Batch: 78709
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/26/2012 1100

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	19	19		1	98	70-130	03/28/2012 2137
alpha-BHC	ND	19	19		1	99	70-130	03/28/2012 2137
beta-BHC	ND	19	19		1	96	70-130	03/28/2012 2137
delta-BHC	ND	19	20		1	105	70-130	03/28/2012 2137
gamma-BHC (Lindane)	ND	19	19		1	98	70-130	03/28/2012 2137
alpha-Chlordane	ND	19	20		1	102	70-130	03/28/2012 2137
gamma-Chlordane	ND	19	20		1	105	70-130	03/28/2012 2137
4,4'-DDD	ND	19	19		1	98	70-130	03/28/2012 2137
4,4'-DDE	ND	19	20		1	101	70-130	03/28/2012 2137
4,4'-DDT	ND	19	23		1	117	70-130	03/28/2012 2137
Dieldrin	ND	19	20		1	102	70-130	03/28/2012 2137
Endosulfan I	ND	19	19		1	98	70-130	03/28/2012 2137
Endosulfan II	ND	19	19		1	98	70-130	03/28/2012 2137
Endosulfan sulfate	ND	19	18		1	94	70-130	03/28/2012 2137
Endrin	ND	19	22		1	112	70-130	03/28/2012 2137
Endrin aldehyde	ND	19	18		1	92	70-130	03/28/2012 2137
Endrin ketone	ND	19	19		1	100	70-130	03/28/2012 2137
Heptachlor	ND	19	18		1	94	70-130	03/28/2012 2137
Heptachlor epoxide	ND	19	19		1	97	70-130	03/28/2012 2137
Methoxychlor	ND	19	21		1	128	70-130	03/28/2012 2137
Toxaphene	ND	47	ND	N	1	0.00	50-130	03/28/2012 2137

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		110	51-134
Tetrachloro-m-xylene		85	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NB16042-004MD
Batch: 78709
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/26/2012 1100

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	19	18		1	93	5.9	70-130	20	03/28/2012 2157
alpha-BHC	ND	19	19		1	99	0.0024	70-130	20	03/28/2012 2157
beta-BHC	ND	19	19		1	101	4.5	70-130	20	03/28/2012 2157
delta-BHC	ND	19	20		1	104	1.1	70-130	20	03/28/2012 2157
gamma-BHC (Lindane)	ND	19	19		1	98	0.025	70-130	20	03/28/2012 2157
alpha-Chlordane	ND	19	19		1	100	2.0	70-130	20	03/28/2012 2157
gamma-Chlordane	ND	19	23		1	118	12	70-130	20	03/28/2012 2157
4,4'-DDD	ND	19	19		1	98	0.097	70-130	20	03/28/2012 2157
4,4'-DDE	ND	19	19		1	100	1.9	70-130	20	03/28/2012 2157
4,4'-DDT	ND	19	24		1	125	6.3	70-130	20	03/28/2012 2157
Dieldrin	ND	19	19		1	101	1.7	70-130	20	03/28/2012 2157
Endosulfan I	ND	19	18		1	96	2.7	70-130	20	03/28/2012 2157
Endosulfan II	ND	19	19		1	98	0.38	70-130	20	03/28/2012 2157
Endosulfan sulfate	ND	19	18		1	96	1.2	70-130	20	03/28/2012 2157
Endrin	ND	19	21		1	111	0.19	70-130	20	03/28/2012 2157
Endrin aldehyde	ND	19	18		1	93	0.71	70-130	20	03/28/2012 2157
Endrin ketone	ND	19	19		1	98	1.2	70-130	20	03/28/2012 2157
Heptachlor	ND	19	18		1	93	1.6	70-130	20	03/28/2012 2157
Heptachlor epoxide	ND	19	18		1	95	1.5	70-130	20	03/28/2012 2157
Methoxychlor	ND	19	24		1	126	1.9	70-130	20	03/28/2012 2157
Toxaphene	ND	47	ND	N	1	0.00	0.00	50-130	30	03/28/2012 2157

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		107	51-134
Tetrachloro-m-xylene		85	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78736-001
Batch: 78736
Analytical Method: 8081B
Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 1013

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	03/14/2012 2308
4,4'-DDE	ND		1	1.7	ug/kg	03/14/2012 2308
4,4'-DDT	ND		1	1.7	ug/kg	03/14/2012 2308
Aldrin	ND		1	1.7	ug/kg	03/14/2012 2308
alpha-BHC	ND		1	1.7	ug/kg	03/14/2012 2308
alpha-Chlordane	ND		1	1.7	ug/kg	03/14/2012 2308
beta-BHC	ND		1	1.7	ug/kg	03/14/2012 2308
delta-BHC	ND		1	1.7	ug/kg	03/14/2012 2308
Dieldrin	ND		1	1.7	ug/kg	03/14/2012 2308
Endosulfan I	ND		1	1.7	ug/kg	03/14/2012 2308
Endosulfan II	ND		1	1.7	ug/kg	03/14/2012 2308
Endosulfan sulfate	ND		1	1.7	ug/kg	03/14/2012 2308
Endrin	ND		1	1.7	ug/kg	03/14/2012 2308
Endrin aldehyde	ND		1	1.7	ug/kg	03/14/2012 2308
Endrin ketone	ND		1	1.7	ug/kg	03/14/2012 2308
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	03/14/2012 2308
gamma-Chlordane	ND		1	1.7	ug/kg	03/14/2012 2308
Heptachlor	ND		1	1.7	ug/kg	03/14/2012 2308
Heptachlor epoxide	ND		1	1.7	ug/kg	03/14/2012 2308
Methoxychlor	ND		1	6.7	ug/kg	03/14/2012 2308
Toxaphene	ND		1	83	ug/kg	03/14/2012 2308

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		105	51-134
Tetrachloro-m-xylene		82	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78736-002
Batch: 78736
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 1013

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	17		1	99	70-130	03/14/2012 2328
4,4'-DDE	17	16		1	92	70-130	03/14/2012 2328
4,4'-DDT	17	17		1	99	70-130	03/14/2012 2328
Aldrin	17	16		1	94	70-130	03/14/2012 2328
alpha-BHC	17	16		1	93	70-130	03/14/2012 2328
alpha-Chlordane	17	15		1	90	70-130	03/14/2012 2328
beta-BHC	17	15		1	91	70-130	03/14/2012 2328
delta-BHC	17	16		1	94	70-130	03/14/2012 2328
Dieldrin	17	16		1	95	70-130	03/14/2012 2328
Endosulfan I	17	15		1	90	70-130	03/14/2012 2328
Endosulfan II	17	16		1	93	70-130	03/14/2012 2328
Endosulfan sulfate	17	15		1	91	70-130	03/14/2012 2328
Endrin	17	17		1	102	70-130	03/14/2012 2328
Endrin aldehyde	17	13		1	75	70-130	03/14/2012 2328
Endrin ketone	17	15		1	91	70-130	03/14/2012 2328
gamma-BHC (Lindane)	17	16		1	93	70-130	03/14/2012 2328
gamma-Chlordane	17	15		1	90	70-130	03/14/2012 2328
Heptachlor	17	15		1	88	70-130	03/14/2012 2328
Heptachlor epoxide	17	15		1	88	70-130	03/14/2012 2328
Methoxychlor	17	16		1	96	70-130	03/14/2012 2328

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		104	51-134
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NB16042-064MS
Batch: 78736
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 1013

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	20	17		1	88	70-130	03/14/2012 0618
alpha-BHC	ND	20	17		1	85	70-130	03/14/2012 0618
beta-BHC	ND	20	17		1	88	70-130	03/14/2012 0618
delta-BHC	ND	20	18		1	91	70-130	03/14/2012 0618
gamma-BHC (Lindane)	ND	20	17		1	86	70-130	03/14/2012 0618
alpha-Chlordane	ND	20	18		1	89	70-130	03/14/2012 0618
gamma-Chlordane	ND	20	18		1	90	70-130	03/14/2012 0618
4,4'-DDD	ND	20	19		1	97	70-130	03/14/2012 0618
4,4'-DDE	ND	20	18		1	90	70-130	03/14/2012 0618
4,4'-DDT	ND	20	19		1	96	70-130	03/14/2012 0618
Dieldrin	ND	20	18		1	91	70-130	03/14/2012 0618
Endosulfan I	ND	20	17		1	86	70-130	03/14/2012 0618
Endosulfan II	ND	20	18		1	90	70-130	03/14/2012 0618
Endosulfan sulfate	ND	20	18		1	90	70-130	03/14/2012 0618
Endrin	ND	20	19		1	98	70-130	03/14/2012 0618
Endrin aldehyde	ND	20	16		1	81	70-130	03/14/2012 0618
Endrin ketone	ND	20	18		1	89	70-130	03/14/2012 0618
Heptachlor	ND	20	16		1	84	70-130	03/14/2012 0618
Heptachlor epoxide	ND	20	17		1	85	70-130	03/14/2012 0618
Methoxychlor	ND	20	19		1	94	70-130	03/14/2012 0618
Toxaphene	ND	48	ND	N	1	0.00	50-130	03/14/2012 0618

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		103	51-134
Tetrachloro-m-xylene		76	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NB16042-064MD
Batch: 78736
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 1013

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	19	17		1	86	3.8	70-130	20	03/14/2012 0637
alpha-BHC	ND	19	16		1	83	3.9	70-130	20	03/14/2012 0637
beta-BHC	ND	19	17		1	88	1.7	70-130	20	03/14/2012 0637
delta-BHC	ND	19	18		1	91	1.7	70-130	20	03/14/2012 0637
gamma-BHC (Lindane)	ND	19	17		1	85	2.0	70-130	20	03/14/2012 0637
alpha-Chlordane	ND	19	17		1	88	2.8	70-130	20	03/14/2012 0637
gamma-Chlordane	ND	19	17		1	88	3.5	70-130	20	03/14/2012 0637
4,4'-DDD	ND	19	19		1	98	0.99	70-130	20	03/14/2012 0637
4,4'-DDE	ND	19	18		1	91	1.3	70-130	20	03/14/2012 0637
4,4'-DDT	ND	19	19		1	95	2.3	70-130	20	03/14/2012 0637
Dieldrin	ND	19	18		1	92	1.2	70-130	20	03/14/2012 0637
Endosulfan I	ND	19	17		1	87	1.2	70-130	20	03/14/2012 0637
Endosulfan II	ND	19	18		1	90	2.0	70-130	20	03/14/2012 0637
Endosulfan sulfate	ND	19	17		1	89	2.2	70-130	20	03/14/2012 0637
Endrin	ND	19	19		1	97	1.7	70-130	20	03/14/2012 0637
Endrin aldehyde	ND	19	16		1	81	1.8	70-130	20	03/14/2012 0637
Endrin ketone	ND	19	17		1	90	0.54	70-130	20	03/14/2012 0637
Heptachlor	ND	19	16		1	81	4.8	70-130	20	03/14/2012 0637
Heptachlor epoxide	ND	19	17		1	85	1.6	70-130	20	03/14/2012 0637
Methoxychlor	ND	19	18		1	94	1.8	70-130	20	03/14/2012 0637
Toxaphene	ND	48	ND	N	1	0.00	0.00	50-130	30	03/14/2012 0637

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene		73	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78816-001
Batch: 78816
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2014

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	03/16/2012 2359
4,4'-DDE	ND		1	1.7	ug/kg	03/16/2012 2359
4,4'-DDT	ND		1	1.7	ug/kg	03/16/2012 2359
Aldrin	ND		1	1.7	ug/kg	03/16/2012 2359
alpha-BHC	ND		1	1.7	ug/kg	03/16/2012 2359
alpha-Chlordane	ND		1	1.7	ug/kg	03/16/2012 2359
beta-BHC	ND		1	1.7	ug/kg	03/16/2012 2359
delta-BHC	ND		1	1.7	ug/kg	03/16/2012 2359
Dieldrin	ND		1	1.7	ug/kg	03/16/2012 2359
Endosulfan I	ND		1	1.7	ug/kg	03/16/2012 2359
Endosulfan II	ND		1	1.7	ug/kg	03/16/2012 2359
Endosulfan sulfate	ND		1	1.7	ug/kg	03/16/2012 2359
Endrin	ND		1	1.7	ug/kg	03/16/2012 2359
Endrin aldehyde	ND		1	1.7	ug/kg	03/16/2012 2359
Endrin ketone	ND		1	1.7	ug/kg	03/16/2012 2359
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	03/16/2012 2359
gamma-Chlordane	ND		1	1.7	ug/kg	03/16/2012 2359
Heptachlor	ND		1	1.7	ug/kg	03/16/2012 2359
Heptachlor epoxide	ND		1	1.7	ug/kg	03/16/2012 2359
Methoxychlor	ND		1	6.7	ug/kg	03/16/2012 2359
Toxaphene	ND		1	83	ug/kg	03/16/2012 2359

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		99	51-134
Tetrachloro-m-xylene		82	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78816-002
Batch: 78816
Analytical Method: 8081B
Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2014

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	16		1	93	70-130	03/17/2012 0018
4,4'-DDE	17	17		1	98	70-130	03/17/2012 0018
4,4'-DDT	17	19		1	111	70-130	03/17/2012 0018
Aldrin	17	16		1	96	70-130	03/17/2012 0018
alpha-BHC	17	16		1	95	70-130	03/17/2012 0018
alpha-Chlordane	17	16		1	97	70-130	03/17/2012 0018
beta-BHC	17	16		1	95	70-130	03/17/2012 0018
delta-BHC	17	17		1	98	70-130	03/17/2012 0018
Dieldrin	17	16		1	97	70-130	03/17/2012 0018
Endosulfan I	17	15		1	87	70-130	03/17/2012 0018
Endosulfan II	17	16		1	97	70-130	03/17/2012 0018
Endosulfan sulfate	17	17		1	98	70-130	03/17/2012 0018
Endrin	17	18		1	108	70-130	03/17/2012 0018
Endrin aldehyde	17	15		1	87	70-130	03/17/2012 0018
Endrin ketone	17	16		1	94	70-130	03/17/2012 0018
gamma-BHC (Lindane)	17	17		1	99	70-130	03/17/2012 0018
gamma-Chlordane	17	17		1	101	70-130	03/17/2012 0018
Heptachlor	17	16		1	92	70-130	03/17/2012 0018
Heptachlor epoxide	17	16		1	94	70-130	03/17/2012 0018
Methoxychlor	17	18		1	108	70-130	03/17/2012 0018

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		105	51-134
Tetrachloro-m-xylene		85	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NB16042-030MS
Batch: 78816
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2014

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	20	18		10	87	70-130	03/20/2012 1812
alpha-BHC	ND	20	17		10	84	70-130	03/20/2012 1812
beta-BHC	ND	20	19		10	94	70-130	03/20/2012 1812
delta-BHC	ND	20	17		10	82	70-130	03/20/2012 1812
gamma-BHC (Lindane)	ND	20	19		10	95	70-130	03/20/2012 1812
alpha-Chlordane	ND	20	22		10	91	70-130	03/20/2012 1812
gamma-Chlordane	ND	20	23		10	92	70-130	03/20/2012 1812
4,4'-DDD	ND	20	28	P	10	118	70-130	03/20/2012 1812
4,4'-DDE	150	20	170	N	10	134	70-130	03/20/2012 1812
4,4'-DDT	180	20	190	N	10	40	70-130	03/20/2012 1812
Dieldrin	89	20	80	N	10	-44	70-130	03/20/2012 1812
Endosulfan I	ND	20	18		10	91	70-130	03/20/2012 1812
Endosulfan II	ND	20	26	P	10	117	70-130	03/20/2012 1812
Endosulfan sulfate	ND	20	37	N	10	182	70-130	03/20/2012 1812
Endrin	ND	20	25		10	125	70-130	03/20/2012 1812
Endrin aldehyde	ND	20	40	N	10	153	70-130	03/20/2012 1812
Endrin ketone	ND	20	21		10	102	70-130	03/20/2012 1812
Heptachlor	ND	20	18		10	87	70-130	03/20/2012 1812
Heptachlor epoxide	ND	20	18		10	89	70-130	03/20/2012 1812
Methoxychlor	ND	20	41	N	10	203	70-130	03/20/2012 1812
Toxaphene	ND	50	ND	N	10	-1000	50-130	03/20/2012 1812

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		103	51-134
Tetrachloro-m-xylene		89	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NB16042-030MD
Batch: 78816
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2014

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	20	18		10	88	0.31	70-130	20	03/20/2012 1831
alpha-BHC	ND	20	17		10	83	1.4	70-130	20	03/20/2012 1831
beta-BHC	ND	20	19		10	92	3.3	70-130	20	03/20/2012 1831
delta-BHC	ND	20	16		10	81	2.3	70-130	20	03/20/2012 1831
gamma-BHC (Lindane)	ND	20	20		10	101	4.8	70-130	20	03/20/2012 1831
alpha-Chlordane	ND	20	20		10	79	12	70-130	20	03/20/2012 1831
gamma-Chlordane	ND	20	19		10	72	20	70-130	20	03/20/2012 1831
4,4'-DDD	ND	20	24		10	102	13	70-130	20	03/20/2012 1831
4,4'-DDE	150	20	110	N,+	10	-161	42	70-130	20	03/20/2012 1831
4,4'-DDT	180	20	150	N,+	10	-155	23	70-130	20	03/20/2012 1831
Dieldrin	89	20	47	N,+	10	-212	53	70-130	20	03/20/2012 1831
Endosulfan I	ND	20	17		10	85	7.5	70-130	20	03/20/2012 1831
Endosulfan II	ND	20	23		10	102	13	70-130	20	03/20/2012 1831
Endosulfan sulfate	ND	20	26	+	10	127	37	70-130	20	03/20/2012 1831
Endrin	ND	20	24		10	118	7.2	70-130	20	03/20/2012 1831
Endrin aldehyde	ND	20	32	+	10	115	22	70-130	20	03/20/2012 1831
Endrin ketone	ND	20	20		10	98	5.5	70-130	20	03/20/2012 1831
Heptachlor	ND	20	18		10	87	0.56	70-130	20	03/20/2012 1831
Heptachlor epoxide	ND	20	18		10	90	0.53	70-130	20	03/20/2012 1831
Methoxychlor	ND	20	31	N,+	10	154	28	70-130	20	03/20/2012 1831
Toxaphene	ND	49	ND	N	10	-1010	0.00	50-130	30	03/20/2012 1831

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		102	51-134
Tetrachloro-m-xylene		88	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ78820-001
Batch: 78820
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2151

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	03/20/2012 1534
4,4'-DDE	ND		1	1.7	ug/kg	03/20/2012 1534
4,4'-DDT	ND		1	1.7	ug/kg	03/20/2012 1534
Aldrin	ND		1	1.7	ug/kg	03/20/2012 1534
alpha-BHC	ND		1	1.7	ug/kg	03/20/2012 1534
alpha-Chlordane	ND		1	1.7	ug/kg	03/20/2012 1534
beta-BHC	ND		1	1.7	ug/kg	03/20/2012 1534
delta-BHC	ND		1	1.7	ug/kg	03/20/2012 1534
Dieldrin	ND		1	1.7	ug/kg	03/20/2012 1534
Endosulfan I	ND		1	1.7	ug/kg	03/20/2012 1534
Endosulfan II	ND		1	1.7	ug/kg	03/20/2012 1534
Endosulfan sulfate	ND		1	1.7	ug/kg	03/20/2012 1534
Endrin	ND		1	1.7	ug/kg	03/20/2012 1534
Endrin aldehyde	ND		1	1.7	ug/kg	03/20/2012 1534
Endrin ketone	ND		1	1.7	ug/kg	03/20/2012 1534
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	03/20/2012 1534
gamma-Chlordane	ND		1	1.7	ug/kg	03/20/2012 1534
Heptachlor	ND		1	1.7	ug/kg	03/20/2012 1534
Heptachlor epoxide	ND		1	1.7	ug/kg	03/20/2012 1534
Methoxychlor	ND		1	6.7	ug/kg	03/20/2012 1534
Toxaphene	ND		1	83	ug/kg	03/20/2012 1534

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		118	51-134
Tetrachloro-m-xylene		91	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ78820-002
Batch: 78820
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2151

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	17		1	101	70-130	03/20/2012 1554
4,4'-DDE	17	18		1	107	70-130	03/20/2012 1554
4,4'-DDT	17	20		1	115	70-130	03/20/2012 1554
Aldrin	17	19		1	109	70-130	03/20/2012 1554
alpha-BHC	17	18		1	107	70-130	03/20/2012 1554
alpha-Chlordane	17	19		1	112	70-130	03/20/2012 1554
beta-BHC	17	17		1	101	70-130	03/20/2012 1554
delta-BHC	17	18		1	104	70-130	03/20/2012 1554
Dieldrin	17	18		1	107	70-130	03/20/2012 1554
Endosulfan I	17	17		1	102	70-130	03/20/2012 1554
Endosulfan II	17	18		1	104	70-130	03/20/2012 1554
Endosulfan sulfate	17	18	P	1	106	70-130	03/20/2012 1554
Endrin	17	21		1	123	70-130	03/20/2012 1554
Endrin aldehyde	17	16		1	96	70-130	03/20/2012 1554
Endrin ketone	17	17		1	103	70-130	03/20/2012 1554
gamma-BHC (Lindane)	17	20		1	119	70-130	03/20/2012 1554
gamma-Chlordane	17	19		1	109	70-130	03/20/2012 1554
Heptachlor	17	18		1	103	70-130	03/20/2012 1554
Heptachlor epoxide	17	18		1	104	70-130	03/20/2012 1554
Methoxychlor	17	19		1	111	70-130	03/20/2012 1554

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		123	51-134
Tetrachloro-m-xylene		97	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NB16042-061MS
Batch: 78820
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2151

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	21	19		1	93	70-130	03/20/2012 1653
alpha-BHC	ND	21	19		1	91	70-130	03/20/2012 1653
beta-BHC	ND	21	19		1	91	70-130	03/20/2012 1653
delta-BHC	ND	21	19		1	93	70-130	03/20/2012 1653
gamma-BHC (Lindane)	ND	21	21		1	102	70-130	03/20/2012 1653
alpha-Chlordane	ND	21	20		1	95	70-130	03/20/2012 1653
gamma-Chlordane	ND	21	19		1	93	70-130	03/20/2012 1653
4,4'-DDD	ND	21	19		1	92	70-130	03/20/2012 1653
4,4'-DDE	ND	21	20		1	97	70-130	03/20/2012 1653
4,4'-DDT	ND	21	22		1	107	70-130	03/20/2012 1653
Dieldrin	ND	21	20		1	97	70-130	03/20/2012 1653
Endosulfan I	ND	21	19		1	92	70-130	03/20/2012 1653
Endosulfan II	ND	21	18		1	87	70-130	03/20/2012 1653
Endosulfan sulfate	ND	21	19		1	93	70-130	03/20/2012 1653
Endrin	ND	21	22	P	1	105	70-130	03/20/2012 1653
Endrin aldehyde	ND	21	18		1	88	70-130	03/20/2012 1653
Endrin ketone	ND	21	19		1	91	70-130	03/20/2012 1653
Heptachlor	ND	21	19		1	90	70-130	03/20/2012 1653
Heptachlor epoxide	ND	21	18		1	87	70-130	03/20/2012 1653
Methoxychlor	ND	21	21		1	101	70-130	03/20/2012 1653
Toxaphene	ND	51	ND	N	1	0.00	50-130	03/20/2012 1653

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		104	51-134
Tetrachloro-m-xylene		81	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NB16042-061MD
Batch: 78820
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/27/2012 2151

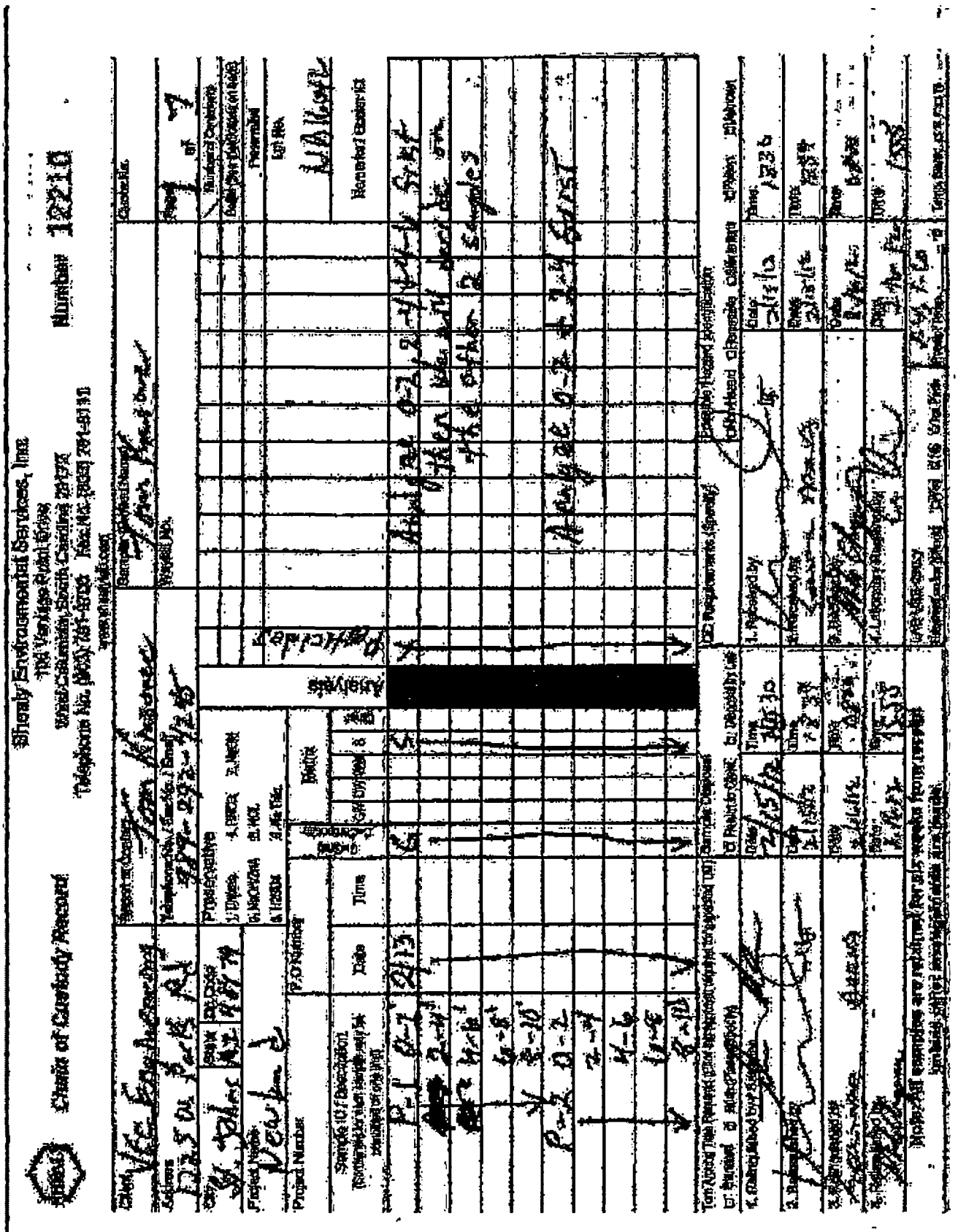
Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	20	18		1	90	4.7	70-130	20	03/20/2012 1713
alpha-BHC	ND	20	18		1	88	4.0	70-130	20	03/20/2012 1713
beta-BHC	ND	20	18		1	88	4.7	70-130	20	03/20/2012 1713
delta-BHC	ND	20	18		1	91	4.2	70-130	20	03/20/2012 1713
gamma-BHC (Lindane)	ND	20	19		1	93	10	70-130	20	03/20/2012 1713
alpha-Chlordane	ND	20	19		1	92	4.3	70-130	20	03/20/2012 1713
gamma-Chlordane	ND	20	18		1	89	6.4	70-130	20	03/20/2012 1713
4,4'-DDD	ND	20	19		1	93	0.29	70-130	20	03/20/2012 1713
4,4'-DDE	ND	20	20		1	96	2.4	70-130	20	03/20/2012 1713
4,4'-DDT	ND	20	23		1	115	5.7	70-130	20	03/20/2012 1713
Dieldrin	ND	20	20		1	97	2.2	70-130	20	03/20/2012 1713
Endosulfan I	ND	20	18		1	88	5.6	70-130	20	03/20/2012 1713
Endosulfan II	ND	20	17		1	82	7.4	70-130	20	03/20/2012 1713
Endosulfan sulfate	ND	20	19		1	94	0.012	70-130	20	03/20/2012 1713
Endrin	ND	20	21	P	1	103	3.3	70-130	20	03/20/2012 1713
Endrin aldehyde	ND	20	18		1	89	1.1	70-130	20	03/20/2012 1713
Endrin ketone	ND	20	18		1	89	3.8	70-130	20	03/20/2012 1713
Heptachlor	ND	20	18		1	87	4.5	70-130	20	03/20/2012 1713
Heptachlor epoxide	ND	20	18		1	86	3.1	70-130	20	03/20/2012 1713
Methoxychlor	ND	20	21		1	102	0.038	70-130	20	03/20/2012 1713
Toxaphene	ND	50	ND	N	1	0.00	0.00	50-130	30	03/20/2012 1713

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		101	51-134
Tetrachloro-m-xylene		77	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results



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Chain of Custody Record — Number 12210

Client: VEC Engineering	Report to Contact: Tom Kinsore	Sampler (Printed Name): Tom Kinsore	Quote No.
Address: 1225 W. Park Rd	Telephone No. / Fax No. / Email: 989-292-4245	Waybill No.	Page 1 of 7
City: St. Johns; State: MI; Zip Code: 48879	Preservative: 1. Dioxin 2. NaOH 3. NaOH/ZnA 4. HCL 5. H2SO4 6. Na Thio.		Number of Containers
Project Name: Newland			Bottle (See instructions on back)
Project Number:	P.O. Number:		Preservative
			Lot No. NB16042

Sample ID / Description (Continued for each sample only for combined on one line)	Date	Time	Grab / Composite	Matrix: GW	DW	Wet	S	Other	Analysis	Pesticides	Remarks / Cooler ID
P-1 0-2'	2/13		G				S			X	Analyze 0-2, 2-4 & 4-6 first
2-4'											then we will decide on
4-6'											the other 2 samples
6-8'											
8-10'											
P-2 0-2											Analyze 0-2 & 2-4 first
2-4											
4-6											
6-8											
8-10											

Turn Around Time Required (Prior approval required for expected TAT): ☐ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

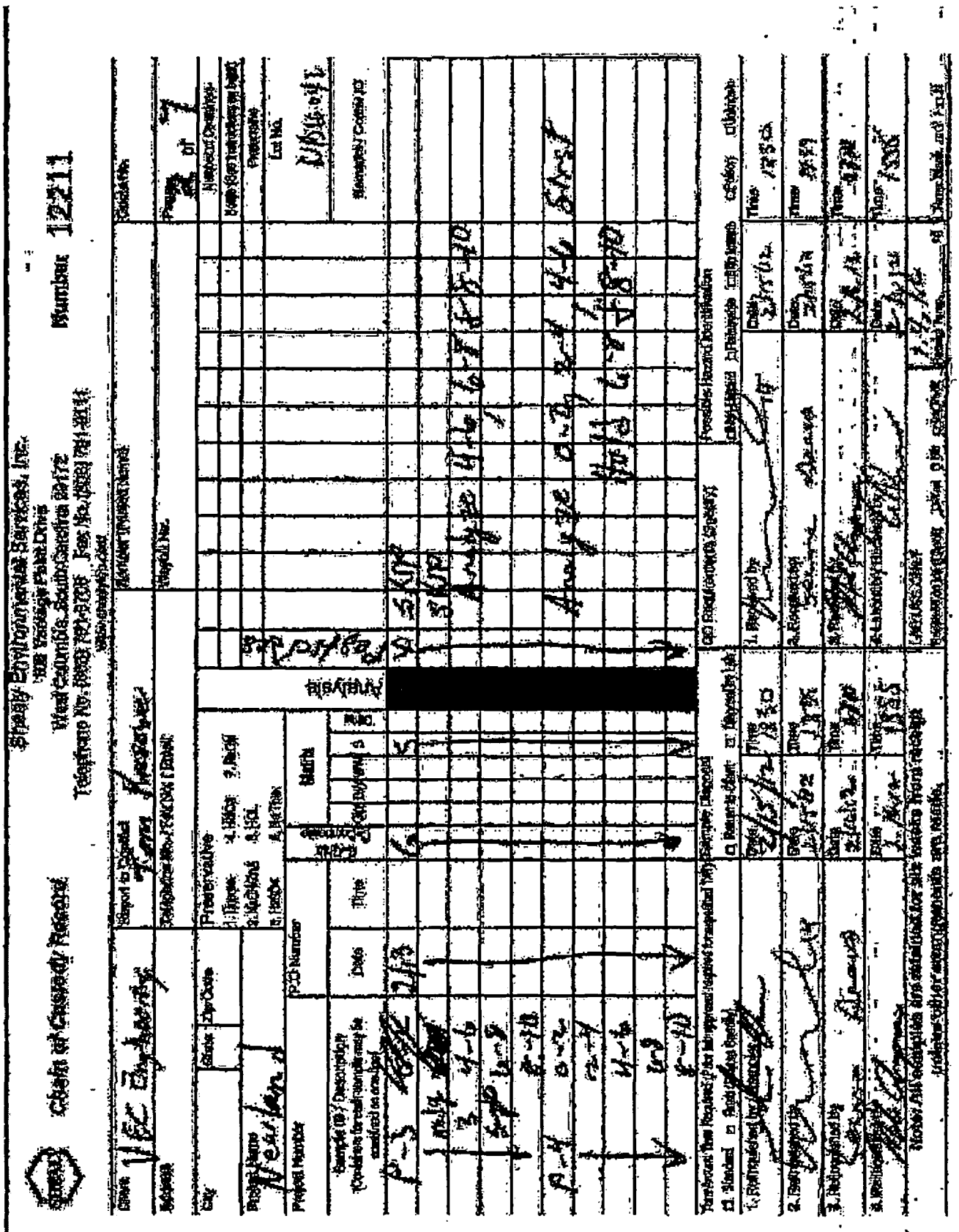
QC Requirements (Specify)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by: [signature]	2/15/12	1830	1. Received by: [signature]	2/15/12	1836
2. Relinquished by: [signature]	2/15/12	1839	2. Received by: [signature]	2/15/12	1839
3. Relinquished by: [signature]	2/16/12	0800	3. Received by: [signature]	2/16/12	0800
4. Relinquished by: [signature]	2/16/12	1555	4. Laboratory Received by: [signature]	2/16/12	1555

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Blank) ☐ Wet ☐ NS ☐ Not Fresh; Freezer Temp. 2.4, 1.6; Temp. Blank: 2.4, 1.6



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Chain of Custody Record

Number 12212

Client: SEC Engineering	Report to: Tom Kingsmore	Invoice to (If Different from Report):	Quote No.
Address	Telephone No. / Fax No. / Email:	Purchase No.	Page 3 of 7
City / State / Zip Code	Project Location: 1. Orgnl. 2. MSCP 3. MSW 4. NPDES 5. RCI 6. Air Mix		Number of Containers
Project Name: Nelson A			Matrix (See Instructions on Back)
Project Number	P.O. Number		Preservative
			Lot No. KJ5 1494
Sample ID / Description (Containers for each sample may be combined on one line)	Date / Time / Comp / Grab / Matrix / # cont.	Analysis Requested	Remarks / Cooler ID
R-5 0-2	2/13 G S	X	Al, As, Ba 0-2, 2-4, 4-6
2-4	S 1		Cd, Cr 6-8, 8-10
4-6			
6-8			
8-10			
P-6 0-2			Al, As, Ba 0-2, 2-4
2-4			Cd, Cr 4-6, 6-8, 8-10
4-6			
6-8			
8-10	V S	V	

Turnaround Time Required (Please check one): ☐ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QA Requirements (Specify)

Possible Hazard Identification: ☐ Flammable ☐ Poison ☐ Skin Irritant ☐ Poison ☐ Unknown

	Relinquished by	Date	Time	Received by	Date	Time
1.		2/15/12	1930		2/15/12	1930
2.		2/16/12	1335		2/16/12	1335
3.		2/16/12	0700		2/16/12	0700
4.		2/16/12	1515		2/16/12	1515

Note: All samples are retained for one month from receipt unless other arrangements are made.

Lab Use Only: Received in Good Condition? ☐ Yes ☐ No ☐ Partial — Cooler Temp. 2.4, 1.6 °C — Temp Blank (3 ± 3 °C)

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Chain of Custody Record

Number: 12213

Client: VEC Engineer	Report to Contact: Tom Krause	Sampler (Printed Name):	Quote No.:
Address:	Telephone No. / Fax No. / Email:	Work No.:	Page 4 of 7
City: State: Zip Code:	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCl 6. Na Thio 7. NaCH		Number of Containers: Basis (See instructions on back): Preservative:
Project Name: Newland			Lot No.: UB16042
Project Number:	P.O. Number:		

Sample ID / Description (Combine for each sample may be combined on one line)	Date	Time	Sample Type	Matrix: Soil	Matrix: Water	Matrix: Sediment	Matrix: Other	Analysis	Pesticides	Remarks / Cooler ID
P-7 0-2	2/13		G			5			X	Analyze all of P-7
2-4										
4-6										
6-8										
8-10										
P-8 only 3 samples										Analyze all of P-8 samples
4-6										
6-8										
8-10										

Turn Around Time Required (Prior lab approval required for expedited TAT): ☐ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler: [signature]	2/15/12	1830	1. Received by: [signature]	2/15/12	1830
2. Relinquished by: [signature]	2/15/12	1835	2. Received by: [signature]	2/15/12	1835
3. Relinquished by: [signature]	2/16/12	0800	3. Received by: [signature]	2/16/12	0800
4. Relinquished by: [signature]	2/16/12	1555	4. Laboratory Received by: [signature]	2/16/12	1555

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☐ Yes ☐ No ☐ Not Rec. Receipt Temp: 2.4 °C Temp. Blank ☐ Y ☐ N

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Chain of Custody Record

Number 12214

Client: VEC Engineering

Report To (Name): Tom Krause

Sampler (Field Team):

Project No.

Address:

Telephone No. / Fax No. / Email:

Work Order No.:

Page 3 of 4

City: | State: | Zip Code:

Preservatives: 1. Unpres. 4. HNO3 7. NaOH 2. Na2S2O3 5. HCl 3. H2SO4 6. MeOH

Number of Containers

Comments (Sample Specific Notes or Instructions)

Project Name: Pleasant Hill

Filtered (Y/N)

Lot No.: Pleasant Hill

Project Number:

P.O. Number:

Matrix: SW Surface Water, GW Groundwater, WW Wastewater, S Soil, Other

Analysis Requested

Sample ID / Description (Containers for each sample may be combined on one line)

Date

Time

Matrix

Comp

Grab

SW

GW

WW

S

Other

Analysis

Preservative / Sample ID

Sample ID / Description	Date	Time	Comp	Grab	Matrix	Analysis	Preservative / Sample ID
P-9 0-2	2/15		6		S	Analyze for 0-2, 2-4, 4-6	
2-4						Hold 6-8, 8-10	
4-6							
6-8							
8-10							
P-10 0-2						Analyze 0-2, 2-4	
2-4							
Grab 4-6						Hold 4-6, 6-8, 8-10	
4 Composites 6-8							
8-10							
[redacted]							

Turn Around Time Required (Prior lab approval required for expedited TAT): ☒ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Relinquished by	Date	Time	Received by	Date	Time
1.	[signature]	2/15/12	1230	[signature]	2/15/12	1230
2.	[signature]	2/15/12	1839	[signature]	2/15/12	1839
3.	[signature]	2/16/12	0815	[signature]	2/16/12	0815
4.	[signature]	2/16/12	1535	4. Laboratory Received By: [signature]	2/16/12	1535

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Lab Use Only: Received on Ice (Circle) Y / N | Temp. Blank: 3.7 °C

Level 1 Report v2.1

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Chain of Custody Record

Number: 12215

Client: [illegible] Engineering
Project Manager: Tom Kovac
Sampler (Print Name): [illegible]
Quote No.:
Address:
Telephone No. / Fax No. / Email:
Invoice No.:
Page: 1 of 1
City: State: Zip Code:
Preservation: 1. None 2. HCl/HNO3 3. H2SO4 4. NaOH 5. ZnAc 6. Na2S2O3
Number of Containers:
Bottle (See Instructions on Back):
Project Name: Newton
Preservative:
Project Number: P.O. Number:
Lot No.: [illegible]

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	Sample Matrix: Soil	GW	DW	SW	S	Other	Analysis: [illegible]	Remarks / Cooler ID
P-11 A-2	2/13		G				1		1	Analyze 0-2, 2-4, 4-6
4-6	2-4									Hold 6-8 & 8-10
6-8	4-6									
8-10	6-8									
P-12	0-2									Analyze 0-2 & 2-4
	2-4									
	4-6									Hold 4-6, 6-8 & 8-10
	6-8									
	8-10									
	P-11	↓	↓				↓		↓	

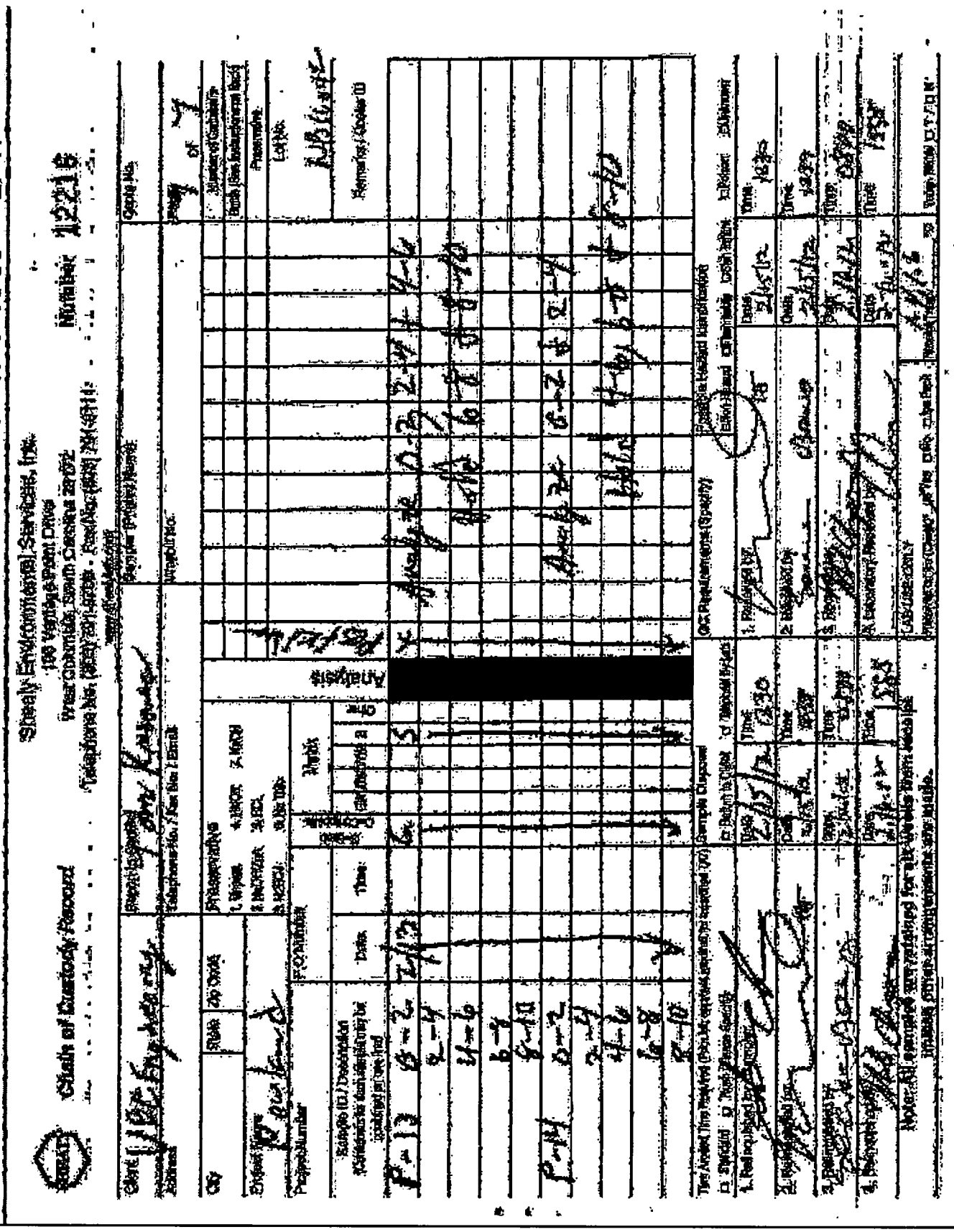
Turn Around Time Required (Prior to shipment, contact lab for availability): Standard / Rush (Please Specify)
Sample Disposal: Return to Client / Disposal by Lab
QC Requirements (Specify):
Possible Hazard Identification: Non-Hazard / Flammable / Skin Irritant / Poison / Unknown

	Relinquished by	Date	Time	Received by	Date	Time
1.	[illegible]	2/15/12	1750	[illegible]	2/15/12	1750
2.	[illegible]	2/15/12	1837	[illegible]	2/15/12	1837
3.	[illegible]	2/16/12	0700	[illegible]	2-16-12	0700
4.	[illegible]	2-16-12	1355	Laboratory (Name):	Date:	Time:

Note: All samples are retained for six weeks from receipt. All data will be reported to the client.

LAB USE ONLY
Received on ice: Yes / No / Ice Pack / Temperature: 4.4, 4.6
Temp. Blank: Yes / No

SHEALY ENVIRONMENTAL SERVICES, INC.



Shealy Environmental Services, Inc.
Document Number: SW-D-015
Page 1 of 1
Revision Date: 10/19/11
Effective Date: 10/19/11

Sample Receipt Checklist (SRC)

Client: VEC Engineering Cooler Inspected by/date: CSH 12/8/12 Lot #: Without

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☐		1. Were custody seals present on the cooler?
Yes ☐	No ☐		2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: 1# 1.6 °C ____ °C ____ °C ____ °C
Method: ☐ Temperature Blank ☐ Against Bottles
Method of cooling: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No for Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☐	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note, email, other ____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☐	5a. Were samples relinquished by client to commercial courier?
Yes ☐	No ☐		6. Were sample IDs listed?
Yes ☐	No ☐		7. Was collection date & time listed? All Listed on COC and Labels
Yes ☐	No ☐		8. Were tests to be performed listed on the COC?
Yes ☐	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☐	No ☐		10. Did all container label information (ID, date/time) agree with COC? All Yes
Yes ☐	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☐	No ☐		12. Was adequate sample volume available?
Yes ☐	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☐		14. Were any samples containers missing? See Comments
Yes ☐	No ☐		15. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☐	16. Were bubbles present > "pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☐	17. Were all metals (6010B/7470A) nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☐	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☐	19. Were all applicable NPDES/CWA (cyanide/phenol/TNA/pesticide/herbicide) (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☐	20. Were collected temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☐	21. Were client requests/requests (i.e. requested dilutions, MS/MSD designations, etc.) correctly transcribed from the COC into the comment section in LIMS?

Sample Preservation (must be completed for any sample(s) incorrectly preserved or with headspace)

Sample(s) ____ were received incorrectly preserved and were adjusted accordingly in sample receiving with: ____ (H2SO4, HNO3, HCl, NaOH) with the SESI member(s).

Sample(s) ____ were received with bubbles >6 mm in diameter.

Sample(s) ____ were received with TRC >0.2 mg/L for RSK/ TKN/cyanide/TNA/pesticide/herb.

Corrective Action Taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: ____ Date of response: ____

Comments: Cooler 1 & 2 Pb-210 (4-8)-(8-10) were received on ice, but were not received from client.

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: Newland

Lot Number: NG20016
Date Completed: 08/08/2012

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: NG20016

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

The surrogate recovery for sample -025, -027, -028, -030, -036 was outside the acceptance limit. The surrogate recovery is attributed to matrix interference. The sample results are reported and no corrective action is required.

The LCS recovery for Endrin aldehyde and Heptachlor was outside method control limits in batch 89674. The associated samples were re-extracted and re-analyzed but the LCS failed again. Run 1 is being reported.

The MS/MSD recoveries in batch 89674, 90071 and 89767 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Sample Summary
VEC Engineering, PLLC
Lot Number: NG20016

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TP-15-0-2'	Solid	07/17/2012	07/20/2012
002	TP-15-2-4'	Solid	07/17/2012	07/20/2012
003	TP-16-0-2'	Solid	07/17/2012	07/20/2012
004	TP-16-2-4'	Solid	07/17/2012	07/20/2012
005	TP-17-0-2'	Solid	07/17/2012	07/20/2012
006	TP-17-2-4'	Solid	07/17/2012	07/20/2012
007	TP-18-0-2'	Solid	07/17/2012	07/20/2012
008	TP-18-2-4'	Solid	07/17/2012	07/20/2012
009	TP-19-0-2'	Solid	07/17/2012	07/20/2012
010	TP-19-2-4'	Solid	07/17/2012	07/20/2012
011	TP-20-0-2'	Solid	07/17/2012	07/20/2012
012	TP-20-2-4'	Solid	07/17/2012	07/20/2012
013	TP-20-4-6'	Solid	07/17/2012	07/20/2012
014	TP-20-6-8'	Solid	07/17/2012	07/20/2012
015	TP-20-8-10'	Solid	07/17/2012	07/20/2012
016	TP-21-0-2'	Solid	07/17/2012	07/20/2012
017	TP-21-2-4'	Solid	07/17/2012	07/20/2012
018	TP-21-4-6'	Solid	07/17/2012	07/20/2012
019	TP-21-6-8'	Solid	07/17/2012	07/20/2012
020	TP-21-8-10'	Solid	07/17/2012	07/20/2012
021	TP-22-0-2'	Solid	07/17/2012	07/20/2012
022	TP-22-2-4'	Solid	07/17/2012	07/20/2012
023	TP-22-4-6'	Solid	07/17/2012	07/20/2012
024	TP-22-6-8'	Solid	07/17/2012	07/20/2012
025	TP-22-8-10'	Solid	07/17/2012	07/20/2012
026	TP-23-0-2'	Solid	07/17/2012	07/20/2012
027	TP-23-2-4'	Solid	07/17/2012	07/20/2012
028	TP-24-0-2'	Solid	07/17/2012	07/20/2012
029	TP-24-2-4'	Solid	07/17/2012	07/20/2012
030	TP-24-4-6'	Solid	07/17/2012	07/20/2012
031	TP-24-6-8'	Solid	07/17/2012	07/20/2012
032	TP-24-8-10'	Solid	07/17/2012	07/20/2012
033	TP-25-0-2'	Solid	07/17/2012	07/20/2012
034	TP-25-2-4'	Solid	07/17/2012	07/20/2012
035	TP-25-4-6'	Solid	07/17/2012	07/20/2012
036	TP-25-6-8'	Solid	07/17/2012	07/20/2012
037	TP-25-8-10'	Solid	07/17/2012	07/20/2012
038	TP-23-4-6'	Solid	07/17/2012	07/20/2012

(38 samples)

Executive Summary
VEC Engineering, PLLC
Lot Number: NG20016

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	TP-15-0-2'	Solid	alpha-BHC	8081B	7.4		ug/kg	7
001	TP-15-0-2'	Solid	4,4'-DDE	8081B	5.1	P	ug/kg	7
001	TP-15-0-2'	Solid	4,4'-DDT	8081B	12		ug/kg	7
001	TP-15-0-2'	Solid	Dieldrin	8081B	5.6		ug/kg	7
001	TP-15-0-2'	Solid	Endosulfan sulfate	8081B	5.1	P	ug/kg	7
001	TP-15-0-2'	Solid	Endrin	8081B	5.1		ug/kg	7
001	TP-15-0-2'	Solid	Endrin aldehyde	8081B	5.6		ug/kg	7
001	TP-15-0-2'	Solid	Toxaphene	8081B	270		ug/kg	7
002	TP-15-2-4'	Solid	Endrin	8081B	3.5		ug/kg	8
003	TP-16-0-2'	Solid	4,4'-DDE	8081B	2.5		ug/kg	9
003	TP-16-0-2'	Solid	4,4'-DDT	8081B	5.4		ug/kg	9
005	TP-17-0-2'	Solid	alpha-BHC	8081B	47		ug/kg	11
005	TP-17-0-2'	Solid	alpha-Chlordane	8081B	8.0	P	ug/kg	11
005	TP-17-0-2'	Solid	gamma-Chlordane	8081B	8.1		ug/kg	11
005	TP-17-0-2'	Solid	4,4'-DDD	8081B	98		ug/kg	11
005	TP-17-0-2'	Solid	4,4'-DDE	8081B	55		ug/kg	11
005	TP-17-0-2'	Solid	4,4'-DDT	8081B	79		ug/kg	11
005	TP-17-0-2'	Solid	Dieldrin	8081B	42	P	ug/kg	11
005	TP-17-0-2'	Solid	Endrin	8081B	6.1		ug/kg	11
005	TP-17-0-2'	Solid	Endrin aldehyde	8081B	25	P	ug/kg	11
005	TP-17-0-2'	Solid	Toxaphene	8081B	400		ug/kg	11
006	TP-17-2-4'	Solid	4,4'-DDD	8081B	52		ug/kg	12
006	TP-17-2-4'	Solid	4,4'-DDE	8081B	37		ug/kg	12
006	TP-17-2-4'	Solid	4,4'-DDT	8081B	17		ug/kg	12
009	TP-19-0-2'	Solid	alpha-BHC	8081B	21		ug/kg	15
009	TP-19-0-2'	Solid	alpha-Chlordane	8081B	4.8		ug/kg	15
009	TP-19-0-2'	Solid	gamma-Chlordane	8081B	5.4		ug/kg	15
009	TP-19-0-2'	Solid	4,4'-DDD	8081B	74		ug/kg	15
009	TP-19-0-2'	Solid	4,4'-DDE	8081B	27		ug/kg	15
009	TP-19-0-2'	Solid	4,4'-DDT	8081B	16		ug/kg	15
009	TP-19-0-2'	Solid	Dieldrin	8081B	16	P	ug/kg	15
009	TP-19-0-2'	Solid	Endrin	8081B	3.5		ug/kg	15
009	TP-19-0-2'	Solid	Endrin aldehyde	8081B	4.0		ug/kg	15
009	TP-19-0-2'	Solid	Toxaphene	8081B	110		ug/kg	15
010	TP-19-2-4'	Solid	Aldrin	8081B	46	P	ug/kg	16
010	TP-19-2-4'	Solid	beta-BHC	8081B	23	P	ug/kg	16
010	TP-19-2-4'	Solid	gamma-BHC (Lindane)	8081B	13		ug/kg	16
010	TP-19-2-4'	Solid	alpha-Chlordane	8081B	41	P	ug/kg	16
010	TP-19-2-4'	Solid	gamma-Chlordane	8081B	58	P	ug/kg	16
010	TP-19-2-4'	Solid	4,4'-DDD	8081B	1500		ug/kg	16
010	TP-19-2-4'	Solid	4,4'-DDE	8081B	310		ug/kg	16
010	TP-19-2-4'	Solid	4,4'-DDT	8081B	390		ug/kg	16
010	TP-19-2-4'	Solid	Dieldrin	8081B	150	P	ug/kg	16
010	TP-19-2-4'	Solid	Endosulfan II	8081B	81	P	ug/kg	16
010	TP-19-2-4'	Solid	Endosulfan sulfate	8081B	95	P	ug/kg	16

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
010	TP-19-2-4'	Solid	Endrin	8081B	60		ug/kg	16
010	TP-19-2-4'	Solid	Endrin ketone	8081B	21		ug/kg	16
010	TP-19-2-4'	Solid	Methoxychlor	8081B	100	P	ug/kg	16
011	TP-20-0-2'	Solid	Aldrin	8081B	7.8	P	ug/kg	17
011	TP-20-0-2'	Solid	alpha-BHC	8081B	3.4		ug/kg	17
011	TP-20-0-2'	Solid	beta-BHC	8081B	9.6	P	ug/kg	17
011	TP-20-0-2'	Solid	delta-BHC	8081B	5.8		ug/kg	17
011	TP-20-0-2'	Solid	gamma-BHC (Lindane)	8081B	5.9	P	ug/kg	17
011	TP-20-0-2'	Solid	alpha-Chlordane	8081B	42		ug/kg	17
011	TP-20-0-2'	Solid	4,4'-DDD	8081B	140		ug/kg	17
011	TP-20-0-2'	Solid	4,4'-DDE	8081B	110		ug/kg	17
011	TP-20-0-2'	Solid	4,4'-DDT	8081B	1600		ug/kg	17
011	TP-20-0-2'	Solid	Dieldrin	8081B	100		ug/kg	17
011	TP-20-0-2'	Solid	Endosulfan II	8081B	73	P	ug/kg	17
011	TP-20-0-2'	Solid	Endrin	8081B	120		ug/kg	17
011	TP-20-0-2'	Solid	Heptachlor	8081B	6.3		ug/kg	17
011	TP-20-0-2'	Solid	Heptachlor epoxide	8081B	18	P	ug/kg	17
011	TP-20-0-2'	Solid	Methoxychlor	8081B	130	P	ug/kg	17
013	TP-20-4-6'	Solid	4,4'-DDD	8081B	2.9		ug/kg	19
013	TP-20-4-6'	Solid	4,4'-DDT	8081B	46		ug/kg	19
016	TP-21-0-2'	Solid	alpha-Chlordane	8081B	16		ug/kg	22
016	TP-21-0-2'	Solid	gamma-Chlordane	8081B	20		ug/kg	22
016	TP-21-0-2'	Solid	4,4'-DDE	8081B	44		ug/kg	22
016	TP-21-0-2'	Solid	4,4'-DDT	8081B	830		ug/kg	22
016	TP-21-0-2'	Solid	Dieldrin	8081B	49		ug/kg	22
016	TP-21-0-2'	Solid	Endosulfan II	8081B	27	P	ug/kg	22
016	TP-21-0-2'	Solid	Endosulfan sulfate	8081B	69	P	ug/kg	22
016	TP-21-0-2'	Solid	Endrin	8081B	79		ug/kg	22
016	TP-21-0-2'	Solid	Endrin ketone	8081B	71		ug/kg	22
016	TP-21-0-2'	Solid	Heptachlor epoxide	8081B	6.1	P	ug/kg	22
016	TP-21-0-2'	Solid	Methoxychlor	8081B	73	P	ug/kg	22
018	TP-21-4-6'	Solid	4,4'-DDD	8081B	3.2		ug/kg	24
018	TP-21-4-6'	Solid	4,4'-DDE	8081B	5.3		ug/kg	24
018	TP-21-4-6'	Solid	4,4'-DDT	8081B	69		ug/kg	24
018	TP-21-4-6'	Solid	Dieldrin	8081B	4.3		ug/kg	24
018	TP-21-4-6'	Solid	Endrin	8081B	3.9		ug/kg	24
021	TP-22-0-2'	Solid	alpha-Chlordane	8081B	26		ug/kg	27
021	TP-22-0-2'	Solid	gamma-Chlordane	8081B	30		ug/kg	27
021	TP-22-0-2'	Solid	4,4'-DDD	8081B	39		ug/kg	27
021	TP-22-0-2'	Solid	4,4'-DDE	8081B	83		ug/kg	27
021	TP-22-0-2'	Solid	4,4'-DDT	8081B	410		ug/kg	27
021	TP-22-0-2'	Solid	Dieldrin	8081B	85		ug/kg	27
021	TP-22-0-2'	Solid	Endosulfan II	8081B	63	P	ug/kg	27
021	TP-22-0-2'	Solid	Endosulfan sulfate	8081B	29	P	ug/kg	27
021	TP-22-0-2'	Solid	Endrin	8081B	32		ug/kg	27
021	TP-22-0-2'	Solid	Endrin aldehyde	8081B	75	P	ug/kg	27
021	TP-22-0-2'	Solid	Endrin ketone	8081B	12		ug/kg	27
021	TP-22-0-2'	Solid	Heptachlor	8081B	6.9		ug/kg	27

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
021	TP-22-0-2'	Solid	Heptachlor epoxide	8081B	6.3	P	ug/kg	27
021	TP-22-0-2'	Solid	Methoxychlor	8081B	96	P	ug/kg	27
021	TP-22-0-2'	Solid	Toxaphene	8081B	2500		ug/kg	27
022	TP-22-2-4'	Solid	Dieldrin	8081B	9.3		ug/kg	28
023	TP-22-4-6'	Solid	Aldrin	8081B	8.2		ug/kg	29
023	TP-22-4-6'	Solid	alpha-Chlordane	8081B	18		ug/kg	29
023	TP-22-4-6'	Solid	gamma-Chlordane	8081B	22		ug/kg	29
023	TP-22-4-6'	Solid	4,4'-DDD	8081B	36		ug/kg	29
023	TP-22-4-6'	Solid	4,4'-DDE	8081B	48		ug/kg	29
023	TP-22-4-6'	Solid	4,4'-DDT	8081B	410		ug/kg	29
023	TP-22-4-6'	Solid	Dieldrin	8081B	81		ug/kg	29
023	TP-22-4-6'	Solid	Endosulfan II	8081B	18		ug/kg	29
023	TP-22-4-6'	Solid	Endosulfan sulfate	8081B	18	P	ug/kg	29
023	TP-22-4-6'	Solid	Endrin	8081B	25		ug/kg	29
023	TP-22-4-6'	Solid	Endrin aldehyde	8081B	57	P	ug/kg	29
023	TP-22-4-6'	Solid	Endrin ketone	8081B	10	P	ug/kg	29
023	TP-22-4-6'	Solid	Heptachlor	8081B	10		ug/kg	29
023	TP-22-4-6'	Solid	Methoxychlor	8081B	39		ug/kg	29
023	TP-22-4-6'	Solid	Toxaphene	8081B	1600		ug/kg	29
026	TP-23-0-2'	Solid	4,4'-DDE	8081B	24		ug/kg	32
026	TP-23-0-2'	Solid	4,4'-DDT	8081B	28		ug/kg	32
026	TP-23-0-2'	Solid	Dieldrin	8081B	4.4		ug/kg	32
028	TP-24-0-2'	Solid	4,4'-DDD	8081B	2.5		ug/kg	34
028	TP-24-0-2'	Solid	4,4'-DDE	8081B	26		ug/kg	34
028	TP-24-0-2'	Solid	4,4'-DDT	8081B	44		ug/kg	34
028	TP-24-0-2'	Solid	Dieldrin	8081B	9.7		ug/kg	34
028	TP-24-0-2'	Solid	Endrin aldehyde	8081B	6.4	P	ug/kg	34
028	TP-24-0-2'	Solid	Toxaphene	8081B	130		ug/kg	34
029	TP-24-2-4'	Solid	4,4'-DDD	8081B	40		ug/kg	35
029	TP-24-2-4'	Solid	4,4'-DDE	8081B	36		ug/kg	35
029	TP-24-2-4'	Solid	4,4'-DDT	8081B	32		ug/kg	35
029	TP-24-2-4'	Solid	Dieldrin	8081B	19	P	ug/kg	35
029	TP-24-2-4'	Solid	Endosulfan II	8081B	2.8		ug/kg	35
029	TP-24-2-4'	Solid	Endrin	8081B	2.5		ug/kg	35
029	TP-24-2-4'	Solid	Endrin aldehyde	8081B	10	P	ug/kg	35
029	TP-24-2-4'	Solid	Toxaphene	8081B	180		ug/kg	35
030	TP-24-4-6'	Solid	4,4'-DDT	8081B	3.8		ug/kg	36
033	TP-25-0-2'	Solid	4,4'-DDE	8081B	3.0		ug/kg	39
033	TP-25-0-2'	Solid	4,4'-DDT	8081B	4.6		ug/kg	39
033	TP-25-0-2'	Solid	Dieldrin	8081B	9.7		ug/kg	39
034	TP-25-2-4'	Solid	4,4'-DDE	8081B	2.2		ug/kg	40
034	TP-25-2-4'	Solid	4,4'-DDT	8081B	4.0		ug/kg	40
034	TP-25-2-4'	Solid	Dieldrin	8081B	4.9		ug/kg	40

(136 detections)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-15-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-001
Matrix: Solid
% Solids: 83.0 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1704	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	7.4		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	5.1	P	2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	12		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	5.6		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	5.1	P	2.0	ug/kg	1
Endrin	72-20-8	8081B	5.1		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	5.6		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	270		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		88	51-134
Tetrachloro-m-xylene		65	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-15-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-002
Matrix: Solid
% Solids: 74.6 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1724	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.2	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.2	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.2	ug/kg	1
Endrin	72-20-8	8081B	3.5		2.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-16-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-003
Matrix: Solid
% Solids: 84.4 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1744	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	2.5		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	5.4		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		93	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		87	51-134
Tetrachloro-m-xylene		68	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-16-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-004
Matrix: Solid
% Solids: 74.4 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1803	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.3	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.3	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.3	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.3	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.3	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.3	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.3	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.3	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.3	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.3	ug/kg	1
Endrin	72-20-8	8081B	ND		2.3	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.3	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.3	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		84	51-134
Tetrachloro-m-xylene		66	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-17-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-005
Matrix: Solid
% Solids: 78.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2257	PMS	07/23/2012 0959	89674
3	3550C	8081B	5	07/27/2012 1506	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	47		11	ug/kg	3
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	8.0	P	2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	8.1		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	98		11	ug/kg	3
4,4'-DDE	72-55-9	8081B	55		11	ug/kg	3
4,4'-DDT	50-29-3	8081B	79		11	ug/kg	3
Dieldrin	60-57-1	8081B	42	P	2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	6.1		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	25	P	2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.5	ug/kg	1
Toxaphene	8001-35-2	8081B	400		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 3 % Recovery	Run 3 Acceptance Limits
Decachlorobiphenyl		84	51-134		80	51-134
Tetrachloro-m-xylene		65	51-104		65	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-17-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-006
Matrix: Solid
% Solids: 82.0 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
3	3550C	8081B	5	07/27/2012 1525	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		9.9	ug/kg	3
alpha-BHC	319-84-6	8081B	ND		9.9	ug/kg	3
beta-BHC	319-85-7	8081B	ND		9.9	ug/kg	3
delta-BHC	319-86-8	8081B	ND		9.9	ug/kg	3
gamma-BHC (Lindane)	58-89-9	8081B	ND		9.9	ug/kg	3
alpha-Chlordane	5103-71-9	8081B	ND		9.9	ug/kg	3
gamma-Chlordane	5103-74-2	8081B	ND		9.9	ug/kg	3
4,4'-DDD	72-54-8	8081B	52		9.9	ug/kg	3
4,4'-DDE	72-55-9	8081B	37		9.9	ug/kg	3
4,4'-DDT	50-29-3	8081B	17		9.9	ug/kg	3
Dieldrin	60-57-1	8081B	ND		9.9	ug/kg	3
Endosulfan I	959-98-8	8081B	ND		9.9	ug/kg	3
Endosulfan II	33213-65-9	8081B	ND		9.9	ug/kg	3
Endosulfan sulfate	1031-07-8	8081B	ND		9.9	ug/kg	3
Endrin	72-20-8	8081B	ND		9.9	ug/kg	3
Endrin aldehyde	7421-93-4	8081B	ND		9.9	ug/kg	3
Endrin ketone	53494-70-5	8081B	ND		9.9	ug/kg	3
Heptachlor	76-44-8	8081B	ND		9.9	ug/kg	3
Heptachlor epoxide	1024-57-3	8081B	ND		9.9	ug/kg	3
Methoxychlor	72-43-5	8081B	ND		39	ug/kg	3
Toxaphene	8001-35-2	8081B	ND		480	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
Decachlorobiphenyl		82	51-134
Tetrachloro-m-xylene		75	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-18-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-007
Matrix: Solid
% Solids: 85.3 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1823	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		94	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		80	51-134
Tetrachloro-m-xylene		63	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-18-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-008
Matrix: Solid
% Solids: 74.9 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1842	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.3	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.3	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.3	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.3	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.3	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.3	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.3	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.3	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.3	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.3	ug/kg	1
Endrin	72-20-8	8081B	ND		2.3	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.3	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.3	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	51-134
Tetrachloro-m-xylene		63	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-19-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-009
Matrix: Solid
% Solids: 86.6 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2336	PMS	07/23/2012 0959	89674
3	3550C	8081B	2	07/27/2012 1545	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	21		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	4.8		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	5.4		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	74		3.9	ug/kg	3
4,4'-DDE	72-55-9	8081B	27		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	16		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	16	P	1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	3.5		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	4.0		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.5	ug/kg	1
Toxaphene	8001-35-2	8081B	110		92	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	51-134		81	51-134
Tetrachloro-m-xylene		67	51-104		67	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-19-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-010
Matrix: Solid
% Solids: 67.7 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2355	PMS	07/23/2012 0959	89674
3	3550C	8081B	50	07/27/2012 1605	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	46	P	2.5	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		120	ug/kg	3
beta-BHC	319-85-7	8081B	23	P	2.5	ug/kg	1
delta-BHC	319-86-8	8081B	ND		120	ug/kg	3
gamma-BHC (Lindane)	58-89-9	8081B	13		2.5	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	41	P	2.5	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	58	P	2.5	ug/kg	1
4,4'-DDD	72-54-8	8081B	1500		120	ug/kg	3
4,4'-DDE	72-55-9	8081B	310		120	ug/kg	3
4,4'-DDT	50-29-3	8081B	390		120	ug/kg	3
Dieldrin	60-57-1	8081B	150	P	120	ug/kg	3
Endosulfan I	959-98-8	8081B	ND		2.5	ug/kg	1
Endosulfan II	33213-65-9	8081B	81	P	2.5	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	95	P	2.5	ug/kg	1
Endrin	72-20-8	8081B	60		2.5	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		120	ug/kg	3
Endrin ketone	53494-70-5	8081B	21		2.5	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.5	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		120	ug/kg	3
Methoxychlor	72-43-5	8081B	100	P	9.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		6100	ug/kg	3

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
Decachlorobiphenyl		77	51-134		82	51-134
Tetrachloro-m-xylene		62	51-104		65	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-20-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-011
Matrix: Solid
% Solids: 79.2 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/25/2012 0015	PMS	07/23/2012 0959	89674
3	3550C	8081B	50	07/27/2012 1624	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	7.8	P	2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	3.4		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	9.6	P	2.1	ug/kg	1
delta-BHC	319-86-8	8081B	5.8		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	5.9	P	2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	42		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		98	ug/kg	3
4,4'-DDD	72-54-8	8081B	140		98	ug/kg	3
4,4'-DDE	72-55-9	8081B	110		98	ug/kg	3
4,4'-DDT	50-29-3	8081B	1600		98	ug/kg	3
Dieldrin	60-57-1	8081B	100		98	ug/kg	3
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg.	1
Endosulfan II	33213-65-9	8081B	73	P	2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		98	ug/kg	3
Endrin	72-20-8	8081B	120		98	ug/kg	3
Endrin aldehyde	7421-93-4	8081B	ND		98	ug/kg	3
Endrin ketone	53494-70-5	8081B	ND		98	ug/kg	3
Heptachlor	76-44-8	8081B	6.3		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	18	P	2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	130	P	8.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		4800	ug/kg	3

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
Decachlorobiphenyl		85	51-134		93	51-134
Tetrachloro-m-xylene		69	51-104		70	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-20-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-012
Matrix: Solid
% Solids: 90.2 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1902	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.3	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		91	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		88	51-134
Tetrachloro-m-xylene		69	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-20-4-6'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-013
Matrix: Solid
% Solids: 80.9 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1921	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	2.9		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	46		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		97	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		86	51-134
Tetrachloro-m-xylene		62	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-20-6-8'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-014
Matrix: Solid
% Solids: 79.7 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 1941	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		68	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-20-8-10'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-015
Matrix: Solid
% Solids: 85.4 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2000	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		96	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		91	51-134
Tetrachloro-m-xylene		72	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-21-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-016
Matrix: Solid
% Solids: 74.7 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/25/2012 0034	PMS	07/23/2012 0959	89674
3	3550C	8081B	20	07/27/2012 1644	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	16		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	20		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		43	ug/kg	3
4,4'-DDE	72-55-9	8081B	44		43	ug/kg	3
4,4'-DDT	50-29-3	8081B	830		43	ug/kg	3
Dieldrin	60-57-1	8081B	49		43	ug/kg	3
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	27	P	2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	69	P	2.2	ug/kg	1
Endrin	72-20-8	8081B	79		43	ug/kg	3
Endrin aldehyde	7421-93-4	8081B	ND		43	ug/kg	3
Endrin ketone	53494-70-5	8081B	71		43	ug/kg	3
Heptachlor	76-44-8	8081B	ND		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	6.1	P	2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	73	P	8.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2100	ug/kg	3

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	51-134		89	51-134
Tetrachloro-m-xylene		69	51-104		70	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-21-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-017
Matrix: Solid
% Solids: 89.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2020	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		92	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		87	51-134
Tetrachloro-m-xylene		68	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-21-4-6'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-018
Matrix: Solid
% Solids: 83.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/25/2012 0054	PMS	07/23/2012 0959	89674
3	3550C	8081B	2	07/27/2012 1703	PMS	07/27/2012 1109	90071

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	3.2		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	5.3		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	69		4.0	ug/kg	3
Dieldrin	60-57-1	8081B	4.3		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	3.9		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		96	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 3 % Recovery	Run 3 Acceptance Limits
Decachlorobiphenyl		75	51-134		77	51-134
Tetrachloro-m-xylene		61	51-104		60	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-21-6-8'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-019
Matrix: Solid
% Solids: 92.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2040	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.8	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.8	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.8	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.8	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.8	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.8	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.8	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.8	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.8	ug/kg	1
Endrin	72-20-8	8081B	ND		1.8	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.8	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.8	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		87	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		92	51-134
Tetrachloro-m-xylene		72	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-21-8-10'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-020
Matrix: Solid
% Solids: 84.8 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/24/2012 2059	PMS	07/23/2012 0959	89674

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		96	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		87	51-134
Tetrachloro-m-xylene		66	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-22-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-021
Matrix: Solid
% Solids: 76.6 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2149	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	26		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	30		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	39		2.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	83		2.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	410		2.2	ug/kg	1
Dieldrin	60-57-1	8081B	85		2.2	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	63	P	2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	29	P	2.2	ug/kg	1
Endrin	72-20-8	8081B	32		2.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	75	P	2.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	12		2.2	ug/kg	1
Heptachlor	76-44-8	8081B	6.9		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	6.3	P	2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	96	P	8.7	ug/kg	1
Toxaphene	8001-35-2	8081B	2500		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		77	51-134
Tetrachloro-m-xylene		52	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-22-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-022
Matrix: Solid
% Solids: 82.2 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2208	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	9.3		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		72	51-134
Tetrachloro-m-xylene		52	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-22-4-6'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-023
Matrix: Solid
% Solids: 80.8 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2228	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	8.2		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	18		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	22		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	36		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	48		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	410		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	81		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	18		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	18	P	2.1	ug/kg	1
Endrin	72-20-8	8081B	25		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	57	P	2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	10	P	2.1	ug/kg	1
Heptachlor	76-44-8	8081B	10		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	39		8.3	ug/kg	1
Toxaphene	8001-35-2	8081B	1600		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		79	51-134
Tetrachloro-m-xylene		58	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-22-6-8'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-024
Matrix: Solid
% Solids: 79.2 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/26/2012 2140	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		78	51-134
Tetrachloro-m-xylene		57	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-22-8-10'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-025
Matrix: Solid
% Solids: 82.3 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/26/2012 2200	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		82	51-134
Tetrachloro-m-xylene	N	47	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-23-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-026
Matrix: Solid
% Solids: 70.9 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2247	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.4	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.4	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.4	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.4	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.4	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.4	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.4	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.4	ug/kg	1
4,4'-DDE	72-55-9	8081B	24		2.4	ug/kg	1
4,4'-DDT	50-29-3	8081B	28		2.4	ug/kg	1
Dieldrin	60-57-1	8081B	4.4		2.4	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.4	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.4	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.4	ug/kg	1
Endrin	72-20-8	8081B	ND		2.4	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.4	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.4	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.4	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.4	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		9.3	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		120	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		66	51-134
Tetrachloro-m-xylene		51	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-23-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-027
Matrix: Solid
% Solids: 81.2 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/26/2012 2239	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		63	51-134
Tetrachloro-m-xylene	N	46	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-24-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-028
Matrix: Solid
% Solids: 78.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2307	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	2.5		2.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	26		2.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	44		2.2	ug/kg	1
Dieldrin	60-57-1	8081B	9.7		2.2	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.2	ug/kg	1
Endrin	72-20-8	8081B	ND		2.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	6.4	P	2.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.5	ug/kg	1
Toxaphene	8001-35-2	8081B	130		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		69	51-134
Tetrachloro-m-xylene	N	47	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-24-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-029
Matrix: Solid
% Solids: 81.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2326	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	40		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	36		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	32		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	19	P	2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	2.8		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	2.5		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	10	P	2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.2	ug/kg	1
Toxaphene	8001-35-2	8081B	180		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		79	51-134
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-24-4-6'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-030
Matrix: Solid
% Solids: 75.8 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/06/2012 2346	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	3.8		2.2	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.2	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.2	ug/kg	1
Endrin	72-20-8	8081B	ND		2.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		73	51-134
Tetrachloro-m-xylene	N	49	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-24-6-8'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-031
Matrix: Solid
% Solids: 87.0 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/26/2012 2357	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.7	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		61	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-24-8-10'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-032
Matrix: Solid
% Solids: 77.6 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/27/2012 0017	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		78	51-134
Tetrachloro-m-xylene		56	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-25-0-2'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-033
Matrix: Solid
% Solids: 83.6 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/07/2012 0005	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	3.0		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	4.6		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	9.7		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.8	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		97	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		73	51-134
Tetrachloro-m-xylene		55	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-25-2-4'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-034
Matrix: Solid
% Solids: 79.3 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/07/2012 0025	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	2.2		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	4.0		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	4.9		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.3	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		72	51-134
Tetrachloro-m-xylene		57	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-25-4-6'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-035
Matrix: Solid
% Solids: 93.1 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/27/2012 0115	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.8	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.8	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.8	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.8	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.8	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.8	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.8	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.8	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.8	ug/kg	1
Endrin	72-20-8	8081B	ND		1.8	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.8	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.8	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		87	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	51-134
Tetrachloro-m-xylene		56	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-25-6-8'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-036
Matrix: Solid
% Solids: 76.4 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/27/2012 0135	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.2	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.2	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.2	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.2	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.2	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.2	ug/kg	1
Endrin	72-20-8	8081B	ND		2.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.6	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		71	51-134
Tetrachloro-m-xylene	N	49	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-25-8-10'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-037
Matrix: Solid
% Solids: 89.3 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/27/2012 0154	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		91	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		72	51-134
Tetrachloro-m-xylene		55	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: TP-23-4-6'
Date Sampled: 07/17/2012
Date Received: 07/20/2012

Laboratory ID: NG20016-038
Matrix: Solid
% Solids: 81.8 07/20/2012 2209

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	07/27/2012 0214	PMS	07/24/2012 0943	89767

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.1	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.1	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.1	ug/kg	1
Endrin	72-20-8	8081B	ND		2.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		75	51-134
Tetrachloro-m-xylene		58	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

QC Summary

Organochlorine Pesticides by GC - MB

Sample ID: NQ89674-001
Batch: 89674
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/23/2012 959

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	07/24/2012 1625
4,4'-DDE	ND		1	1.7	ug/kg	07/24/2012 1625
4,4'-DDT	ND		1	1.7	ug/kg	07/24/2012 1625
Aldrin	ND		1	1.7	ug/kg	07/24/2012 1625
alpha-BHC	ND		1	1.7	ug/kg	07/24/2012 1625
alpha-Chlordane	ND		1	1.7	ug/kg	07/24/2012 1625
beta-BHC	ND		1	1.7	ug/kg	07/24/2012 1625
delta-BHC	ND		1	1.7	ug/kg	07/24/2012 1625
Dieldrin	ND		1	1.7	ug/kg	07/24/2012 1625
Endosulfan I	ND		1	1.7	ug/kg	07/24/2012 1625
Endosulfan II	ND		1	1.7	ug/kg	07/24/2012 1625
Endosulfan sulfate	ND		1	1.7	ug/kg	07/24/2012 1625
Endrin	ND		1	1.7	ug/kg	07/24/2012 1625
Endrin aldehyde	ND		1	1.7	ug/kg	07/24/2012 1625
Endrin ketone	ND		1	1.7	ug/kg	07/24/2012 1625
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	07/24/2012 1625
gamma-Chlordane	ND		1	1.7	ug/kg	07/24/2012 1625
Heptachlor	ND		1	1.7	ug/kg	07/24/2012 1625
Heptachlor epoxide	ND		1	1.7	ug/kg	07/24/2012 1625
Methoxychlor	ND		1	6.7	ug/kg	07/24/2012 1625
Toxaphene	ND		1	83	ug/kg	07/24/2012 1625

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		93	51-134
Tetrachloro-m-xylene		66	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ89674-002
Batch: 89674
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/23/2012 959

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	13		1	77	70-130	07/24/2012 1645
4,4'-DDE	17	15		1	88	70-130	07/24/2012 1645
4,4'-DDT	17	14		1	84	70-130	07/24/2012 1645
Aldrin	17	14		1	81	70-130	07/24/2012 1645
alpha-BHC	17	12		1	73	70-130	07/24/2012 1645
alpha-Chlordane	17	14		1	83	70-130	07/24/2012 1645
beta-BHC	17	13		1	74	70-130	07/24/2012 1645
delta-BHC	17	14		1	81	70-130	07/24/2012 1645
Dieldrin	17	15		1	86	70-130	07/24/2012 1645
Endosulfan I	17	14		1	81	70-130	07/24/2012 1645
Endosulfan II	17	13		1	75	70-130	07/24/2012 1645
Endosulfan sulfate	17	16		1	91	70-130	07/24/2012 1645
Endrin	17	17		1	98	70-130	07/24/2012 1645
Endrin aldehyde	17	7.0	N	1	41	70-130	07/24/2012 1645
Endrin ketone	17	14		1	85	70-130	07/24/2012 1645
gamma-BHC (Lindane)	17	13		1	77	70-130	07/24/2012 1645
gamma-Chlordane	17	14		1	84	70-130	07/24/2012 1645
Heptachlor	17	11	N	1	67	70-130	07/24/2012 1645
Heptachlor epoxide	17	14		1	80	70-130	07/24/2012 1645
Methoxychlor	17	14		1	80	70-130	07/24/2012 1645

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		90	51-134
Tetrachloro-m-xylene		67	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NG20016-020MS
Batch: 89674
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/23/2012 959

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	20	15		1	75	70-130	07/24/2012 2119
alpha-BHC	ND	20	14	N	1	69	70-130	07/24/2012 2119
beta-BHC	ND	20	14		1	73	70-130	07/24/2012 2119
delta-BHC	ND	20	15		1	77	70-130	07/24/2012 2119
gamma-BHC (Lindane)	ND	20	14		1	72	70-130	07/24/2012 2119
alpha-Chlordane	ND	20	15		1	78	70-130	07/24/2012 2119
gamma-Chlordane	ND	20	15		1	78	70-130	07/24/2012 2119
4,4'-DDD	ND	20	15		1	74	70-130	07/24/2012 2119
4,4'-DDE	ND	20	16		1	81	70-130	07/24/2012 2119
4,4'-DDT	ND	20	16		1	81	70-130	07/24/2012 2119
Dieldrin	ND	20	16		1	81	70-130	07/24/2012 2119
Endosulfan I	ND	20	15		1	76	70-130	07/24/2012 2119
Endosulfan II	ND	20	14		1	74	70-130	07/24/2012 2119
Endosulfan sulfate	ND	20	16		1	83	70-130	07/24/2012 2119
Endrin	ND	20	18		1	91	70-130	07/24/2012 2119
Endrin aldehyde	ND	20	9.4	N	1	48	70-130	07/24/2012 2119
Endrin ketone	ND	20	16		1	82	70-130	07/24/2012 2119
Heptachlor	ND	20	12	N	1	63	70-130	07/24/2012 2119
Heptachlor epoxide	ND	20	15		1	75	70-130	07/24/2012 2119
Methoxychlor	ND	20	15		1	78	70-130	07/24/2012 2119
Toxaphene	ND	48	ND	N	1	0.00	50-130	07/24/2012 2119

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		63	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NG20016-020MD
Batch: 89674
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/23/2012 959

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	20	16		1	81	8.2	70-130	20	07/24/2012 2138
alpha-BHC	ND	20	15		1	76	9.7	70-130	20	07/24/2012 2138
beta-BHC	ND	20	16		1	80	11	70-130	20	07/24/2012 2138
delta-BHC	ND	20	17		1	84	9.8	70-130	20	07/24/2012 2138
gamma-BHC (Lindane)	ND	20	16		1	79	9.9	70-130	20	07/24/2012 2138
alpha-Chlordane	ND	20	17		1	85	8.7	70-130	20	07/24/2012 2138
gamma-Chlordane	ND	20	17		1	85	10	70-130	20	07/24/2012 2138
4,4'-DDD	ND	20	16		1	81	9.9	70-130	20	07/24/2012 2138
4,4'-DDE	ND	20	17		1	88	9.3	70-130	20	07/24/2012 2138
4,4'-DDT	ND	20	17		1	88	9.2	70-130	20	07/24/2012 2138
Dieldrin	ND	20	17		1	88	9.9	70-130	20	07/24/2012 2138
Endosulfan I	ND	20	16		1	82	8.4	70-130	20	07/24/2012 2138
Endosulfan II	ND	20	16		1	80	9.3	70-130	20	07/24/2012 2138
Endosulfan sulfate	ND	20	18		1	91	9.7	70-130	20	07/24/2012 2138
Endrin	ND	20	19		1	98	8.6	70-130	20	07/24/2012 2138
Endrin aldehyde	ND	20	10	N	1	52	8.9	70-130	20	07/24/2012 2138
Endrin ketone	ND	20	18		1	90	9.5	70-130	20	07/24/2012 2138
Heptachlor	ND	20	13	N	1	68	8.1	70-130	20	07/24/2012 2138
Heptachlor epoxide	ND	20	16		1	82	9.8	70-130	20	07/24/2012 2138
Methoxychlor	ND	20	17		1	84	8.4	70-130	20	07/24/2012 2138
Toxaphene	ND	48	ND	N	1	0.00	0.00	50-130	30	07/24/2012 2138

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		90	51-134
Tetrachloro-m-xylene		65	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ89767-001
Batch: 89767
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/24/2012 943

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	07/26/2012 1923
4,4'-DDE	ND		1	1.7	ug/kg	07/26/2012 1923
4,4'-DDT	ND		1	1.7	ug/kg	07/26/2012 1923
Aldrin	ND		1	1.7	ug/kg	07/26/2012 1923
alpha-BHC	ND		1	1.7	ug/kg	07/26/2012 1923
alpha-Chlordane	ND		1	1.7	ug/kg	07/26/2012 1923
beta-BHC	ND		1	1.7	ug/kg	07/26/2012 1923
delta-BHC	ND		1	1.7	ug/kg	07/26/2012 1923
Dieldrin	ND		1	1.7	ug/kg	07/26/2012 1923
Endosulfan I	ND		1	1.7	ug/kg	07/26/2012 1923
Endosulfan II	ND		1	1.7	ug/kg	07/26/2012 1923
Endosulfan sulfate	ND		1	1.7	ug/kg	07/26/2012 1923
Endrin	ND		1	1.7	ug/kg	07/26/2012 1923
Endrin aldehyde	ND		1	1.7	ug/kg	07/26/2012 1923
Endrin ketone	ND		1	1.7	ug/kg	07/26/2012 1923
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	07/26/2012 1923
gamma-Chlordane	ND		1	1.7	ug/kg	07/26/2012 1923
Heptachlor	ND		1	1.7	ug/kg	07/26/2012 1923
Heptachlor epoxide	ND		1	1.7	ug/kg	07/26/2012 1923
Methoxychlor	ND		1	6.7	ug/kg	07/26/2012 1923
Toxaphene	ND		1	83	ug/kg	07/26/2012 1923

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ89767-002
Batch: 89767
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/24/2012 943

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	15		1	87	70-130	07/26/2012 1943
4,4'-DDE	17	14		1	84	70-130	07/26/2012 1943
4,4'-DDT	17	15		1	89	70-130	07/26/2012 1943
Aldrin	17	13		1	75	70-130	07/26/2012 1943
alpha-BHC	17	12	N	1	69	70-130	07/26/2012 1943
alpha-Chlordane	17	14		1	82	70-130	07/26/2012 1943
beta-BHC	17	12		1	71	70-130	07/26/2012 1943
delta-BHC	17	13		1	76	70-130	07/26/2012 1943
Dieldrin	17	14		1	83	70-130	07/26/2012 1943
Endosulfan I	17	13		1	78	70-130	07/26/2012 1943
Endosulfan II	17	12		1	72	70-130	07/26/2012 1943
Endosulfan sulfate	17	15		1	85	70-130	07/26/2012 1943
Endrin	17	17		1	97	70-130	07/26/2012 1943
Endrin aldehyde	17	7.3	N	1	43	70-130	07/26/2012 1943
Endrin ketone	17	13		1	78	70-130	07/26/2012 1943
gamma-BHC (Lindane)	17	12		1	73	70-130	07/26/2012 1943
gamma-Chlordane	17	14		1	81	70-130	07/26/2012 1943
Heptachlor	17	11	N	1	67	70-130	07/26/2012 1943
Heptachlor epoxide	17	13		1	78	70-130	07/26/2012 1943
Methoxychlor	17	15		1	87	70-130	07/26/2012 1943

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		61	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NG20016-023MS
Batch: 89767
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/24/2012 943

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	8.2	21	17	N	1	44	70-130	07/26/2012 2101
alpha-BHC	ND	21	14	N	1	65	70-130	07/26/2012 2101
beta-BHC	ND	21	15		1	70	70-130	07/26/2012 2101
delta-BHC	ND	21	16		1	77	70-130	07/26/2012 2101
gamma-BHC (Lindane)	ND	21	15		1	70	70-130	07/26/2012 2101
alpha-Chlordane	18	21	22	N	1	20	70-130	07/26/2012 2101
gamma-Chlordane	22	21	25	N	1	18	70-130	07/26/2012 2101
4,4'-DDD	36	21	35	N	1	-2.3	70-130	07/26/2012 2101
4,4'-DDE	48	21	37	N	1	-52	70-130	07/26/2012 2101
4,4'-DDT	410	21	620	N	1	1010	70-130	07/26/2012 2101
Dieldrin	81	21	49	N	1	-153	70-130	07/26/2012 2101
Endosulfan I	ND	21	17		1	80	70-130	07/26/2012 2101
Endosulfan II	18	21	23	N	1	25	70-130	07/26/2012 2101
Endosulfan sulfate	18	21	32	N	1	-62	70-130	07/26/2012 2101
Endrin	25	21	30	N	1	22	70-130	07/26/2012 2101
Endrin aldehyde	57	21	31	N	1	-122	70-130	07/26/2012 2101
Endrin ketone	10	21	21	N	1	50	70-130	07/26/2012 2101
Heptachlor	10	21	17	N	1	31	70-130	07/26/2012 2101
Heptachlor epoxide	ND	21	19		1	93	70-130	07/26/2012 2101
Methoxychlor	39	21	37	N	1	-8.5	70-130	07/26/2012 2101
Toxaphene	1600	51	1000	N	1	-1130	50-130	07/26/2012 2101

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		77	51-134
Tetrachloro-m-xylene		55	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NG20016-023MD
Batch: 89767
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/24/2012 943

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	8.2	21	17	N	1	44	0.20	70-130	20	07/26/2012 2120
alpha-BHC	ND	21	13	N	1	63	3.2	70-130	20	07/26/2012 2120
beta-BHC	ND	21	14	N	1	69	1.6	70-130	20	07/26/2012 2120
delta-BHC	ND	21	16		1	75	2.1	70-130	20	07/26/2012 2120
gamma-BHC (Lindane)	ND	21	14	N	1	67	4.7	70-130	20	07/26/2012 2120
alpha-Chlordane	18	21	25	N	1	33	12	70-130	20	07/26/2012 2120
gamma-Chlordane	22	21	29	N	1	36	14	70-130	20	07/26/2012 2120
4,4'-DDD	36	21	34	N	1	-5.4	1.9	70-130	20	07/26/2012 2120
4,4'-DDE	48	21	44	N	1	-21	16	70-130	20	07/26/2012 2120
4,4'-DDT	410	21	220	N,+	1	-939	97	70-130	20	07/26/2012 2120
Dieldrin	81	21	59	N	1	-105	19	70-130	20	07/26/2012 2120
Endosulfan I	ND	21	17		1	82	2.4	70-130	20	07/26/2012 2120
Endosulfan II	18	21	28	N	1	49	19	70-130	20	07/26/2012 2120
Endosulfan sulfate	18	21	48	N,+	1	14	40	70-130	20	07/26/2012 2120
Endrin	25	21	32	N	1	31	6.1	70-130	20	07/26/2012 2120
Endrin aldehyde	57	21	41	N,+	1	-76	27	70-130	20	07/26/2012 2120
Endrin ketone	10	21	22	N	1	56	6.3	70-130	20	07/26/2012 2120
Heptachlor	10	21	18	N	1	39	8.8	70-130	20	07/26/2012 2120
Heptachlor epoxide	ND	21	20		1	95	2.9	70-130	20	07/26/2012 2120
Methoxychlor	39	21	51	N,+	1	58	31	70-130	20	07/26/2012 2120
Toxaphene	1600	51	1500	N,+	1	-187	38	50-130	30	07/26/2012 2120

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		76	51-134
Tetrachloro-m-xylene		52	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ90071-001
Batch: 90071
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/27/2012 1109

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	07/28/2012 2329
4,4'-DDE	ND		1	1.7	ug/kg	07/28/2012 2329
4,4'-DDT	ND		1	1.7	ug/kg	07/28/2012 2329
Aldrin	ND		1	1.7	ug/kg	07/28/2012 2329
alpha-BHC	ND		1	1.7	ug/kg	07/28/2012 2329
alpha-Chlordane	ND		1	1.7	ug/kg	07/28/2012 2329
beta-BHC	ND		1	1.7	ug/kg	07/28/2012 2329
delta-BHC	ND		1	1.7	ug/kg	07/28/2012 2329
Dieldrin	ND		1	1.7	ug/kg	07/28/2012 2329
Endosulfan I	ND		1	1.7	ug/kg	07/28/2012 2329
Endosulfan II	ND		1	1.7	ug/kg	07/28/2012 2329
Endosulfan sulfate	ND		1	1.7	ug/kg	07/28/2012 2329
Endrin	ND		1	1.7	ug/kg	07/28/2012 2329
Endrin aldehyde	ND		1	1.7	ug/kg	07/28/2012 2329
Endrin ketone	ND		1	1.7	ug/kg	07/28/2012 2329
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	07/28/2012 2329
gamma-Chlordane	ND		1	1.7	ug/kg	07/28/2012 2329
Heptachlor	ND		1	1.7	ug/kg	07/28/2012 2329
Heptachlor epoxide	ND		1	1.7	ug/kg	07/28/2012 2329
Methoxychlor	ND		1	6.7	ug/kg	07/28/2012 2329
Toxaphene	ND		1	83	ug/kg	07/28/2012 2329

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		94	51-134
Tetrachloro-m-xylene		71	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ90071-002
Batch: 90071
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/27/2012 1109

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	17		1	102	68-139	07/28/2012 2349
4,4'-DDE	17	17		1	99	67-135	07/28/2012 2349
4,4'-DDT	17	18		1	104	67-148	07/28/2012 2349
Aldrin	17	17		1	99	60-137	07/28/2012 2349
alpha-BHC	17	15		1	91	59-136	07/28/2012 2349
alpha-Chlordane	17	17		1	98	61-123	07/28/2012 2349
beta-BHC	17	16		1	93	60-136	07/28/2012 2349
delta-BHC	17	16		1	97	64-138	07/28/2012 2349
Dieldrin	17	17		1	102	68-137	07/28/2012 2349
Endosulfan I	17	16		1	96	63-129	07/28/2012 2349
Endosulfan II	17	16		1	92	66-134	07/28/2012 2349
Endosulfan sulfate	17	16		1	96	68-137	07/28/2012 2349
Endrin	17	20		1	119	75-149	07/28/2012 2349
Endrin aldehyde	17	11		1	65	37-122	07/28/2012 2349
Endrin ketone	17	17		1	99	68-118	07/28/2012 2349
gamma-BHC (Lindane)	17	16		1	95	59-146	07/28/2012 2349
gamma-Chlordane	17	17		1	100	64-140	07/28/2012 2349
Heptachlor	17	15		1	85	58-129	07/28/2012 2349
Heptachlor epoxide	17	16		1	96	63-132	07/28/2012 2349
Methoxychlor	17	17		1	99	71-151	07/28/2012 2349

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		95	51-134
Tetrachloro-m-xylene		75	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: NG20016-001MS
Batch: 90071
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/27/2012 1109

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	20	17		1	86	70-130	07/29/2012 0028
alpha-BHC	7.4	20	51		1	104	70-130	07/29/2012 0028
beta-BHC	ND	20	19		1	97	70-130	07/29/2012 0028
delta-BHC	ND	20	19		1	96	70-130	07/29/2012 0028
gamma-BHC (Lindane)	ND	20	18		1	93	70-130	07/29/2012 0028
alpha-Chlordane	ND	20	20		1	100	70-130	07/29/2012 0028
gamma-Chlordane	ND	20	22		1	112	70-130	07/29/2012 0028
4,4'-DDD	ND	20	23		1	116	70-130	07/29/2012 0028
4,4'-DDE	5.1	20	26		1	102	70-130	07/29/2012 0028
4,4'-DDT	12	20	39		1	83	70-130	07/29/2012 0028
Dieldrin	5.6	20	22		1	92	70-130	07/29/2012 0028
Endosulfan I	ND	20	17		1	89	70-130	07/29/2012 0028
Endosulfan II	ND	20	25		1	125	70-130	07/29/2012 0028
Endosulfan sulfate	5.1	20	19		1	74	70-130	07/29/2012 0028
Endrin	5.1	20	26		1	111	70-130	07/29/2012 0028
Endrin aldehyde	5.6	20	22		1	89	70-130	07/29/2012 0028
Endrin ketone	ND	20	20		1	102	70-130	07/29/2012 0028
Heptachlor	ND	20	15		1	78	70-130	07/29/2012 0028
Heptachlor epoxide	ND	20	19		1	94	70-130	07/29/2012 0028
Methoxychlor	ND	20	22		1	112	70-130	07/29/2012 0028
Toxaphene	270	48	720	N	1	1080	50-130	07/29/2012 0028

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		85	51-134
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: NG20016-001MD
Batch: 90071
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/27/2012 1109

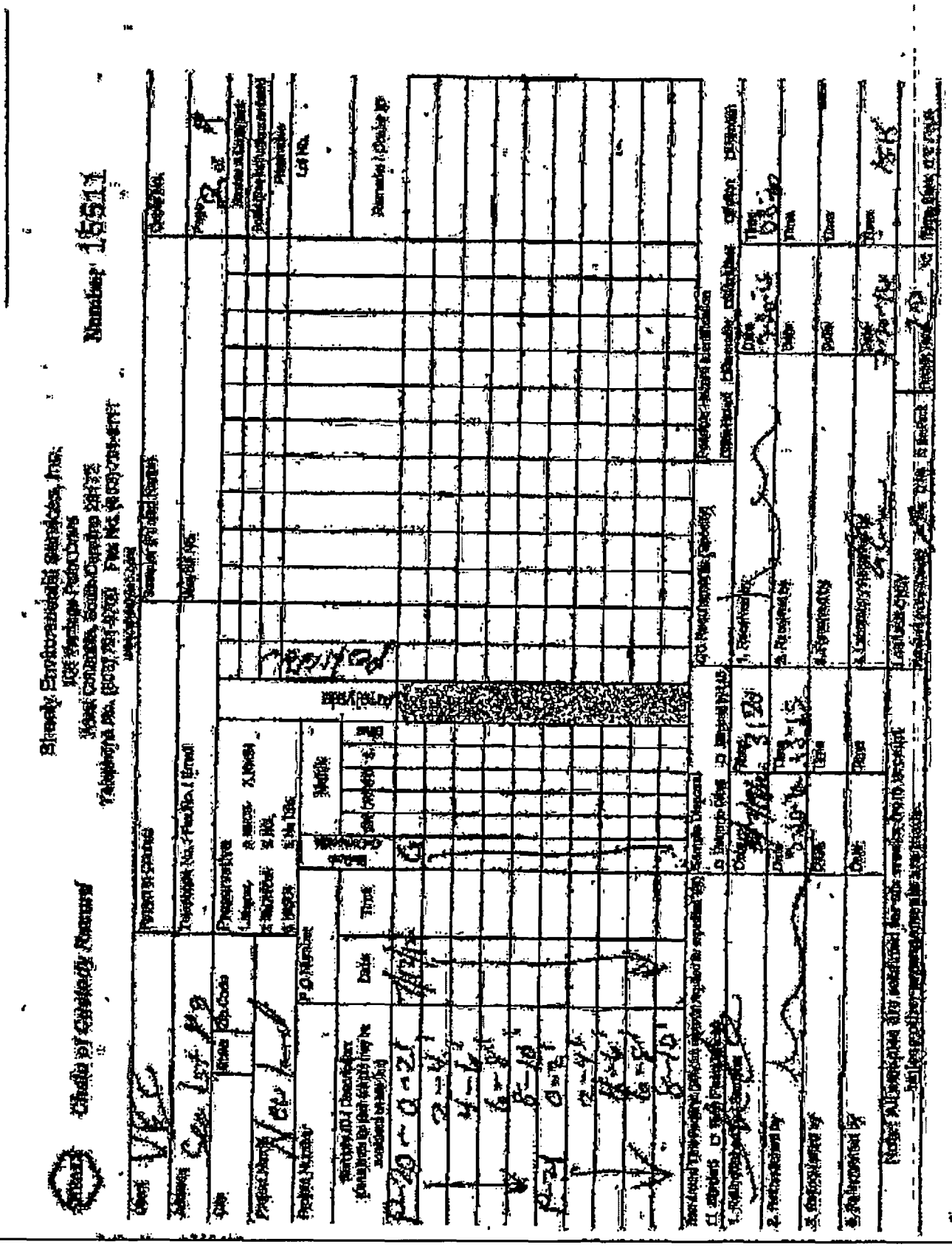
Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	20	17		1	85	0.67	70-130	20	07/29/2012 0048
alpha-BHC	7.4	20	44	N	1	68	15	70-130	20	07/29/2012 0048
beta-BHC	ND	20	19		1	95	0.48	70-130	20	07/29/2012 0048
delta-BHC	ND	20	19		1	93	0.99	70-130	20	07/29/2012 0048
gamma-BHC (Lindane)	ND	20	18		1	92	0.031	70-130	20	07/29/2012 0048
alpha-Chlordane	ND	20	18		1	90	8.7	70-130	20	07/29/2012 0048
gamma-Chlordane	ND	20	19		1	95	14	70-130	20	07/29/2012 0048
4,4'-DDD	ND	20	21		1	103	9.3	70-130	20	07/29/2012 0048
4,4'-DDE	5.1	20	24		1	89	9.4	70-130	20	07/29/2012 0048
4,4'-DDT	12	20	39		1	81	0.077	70-130	20	07/29/2012 0048
Dieldrin	5.6	20	21		1	87	2.4	70-130	20	07/29/2012 0048
Endosulfan I	ND	20	17		1	87	0.27	70-130	20	07/29/2012 0048
Endosulfan II	ND	20	19	+	1	93	27	70-130	20	07/29/2012 0048
Endosulfan sulfate	5.1	20	20		1	79	6.5	70-130	20	07/29/2012 0048
Endrin	5.1	20	24		1	100	7.7	70-130	20	07/29/2012 0048
Endrin aldehyde	5.6	20	20		1	76	10	70-130	20	07/29/2012 0048
Endrin ketone	ND	20	20		1	100	0.096	70-130	20	07/29/2012 0048
Heptachlor	ND	20	16		1	79	3.8	70-130	20	07/29/2012 0048
Heptachlor epoxide	ND	20	18		1	88	4.4	70-130	20	07/29/2012 0048
Methoxychlor	ND	20	20		1	100	8.9	70-130	20	07/29/2012 0048
Toxaphene	270	49	750	N	1	1110	3.5	50-130	30	07/29/2012 0048

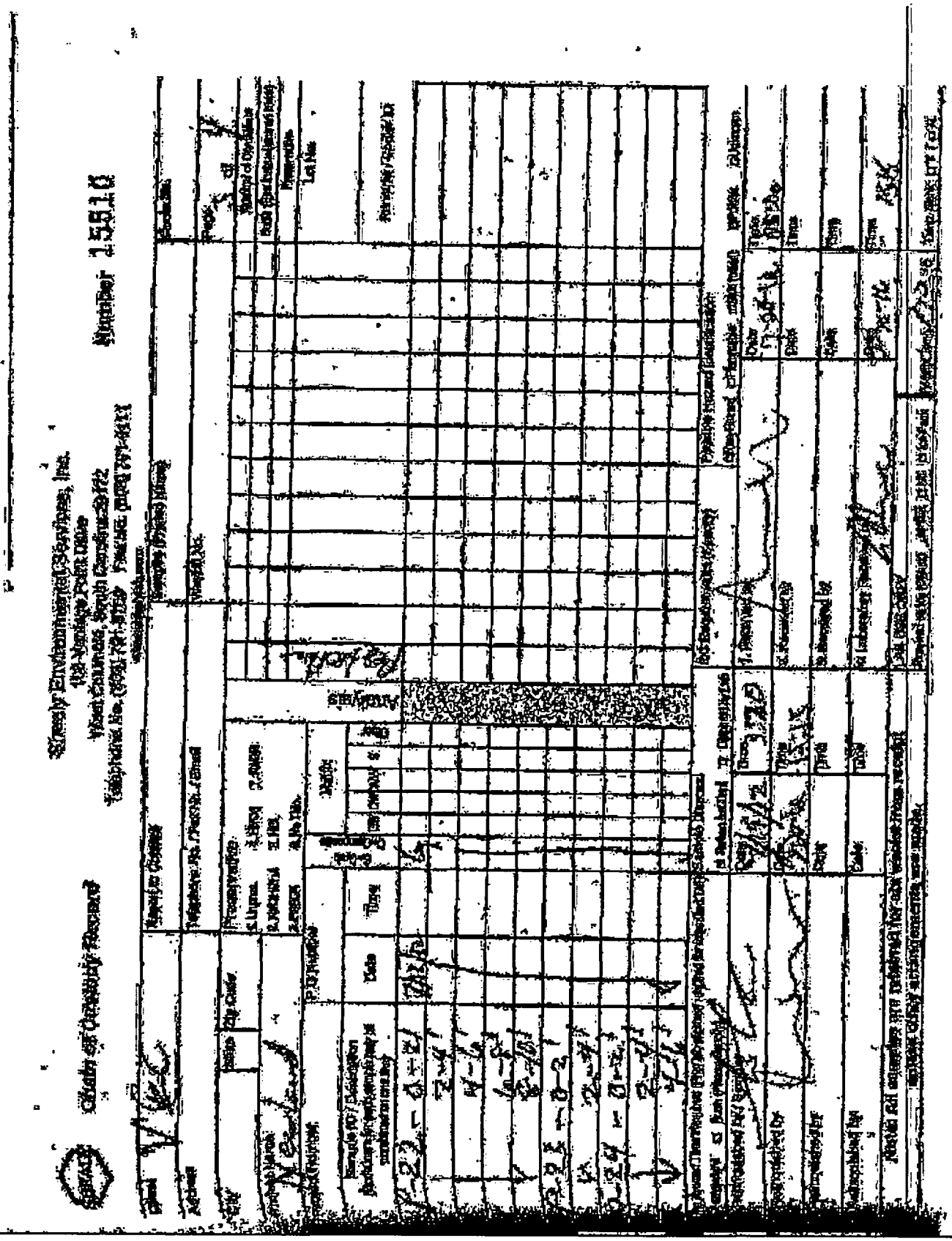
Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		86	51-134
Tetrachloro-m-xylene		65	51-104

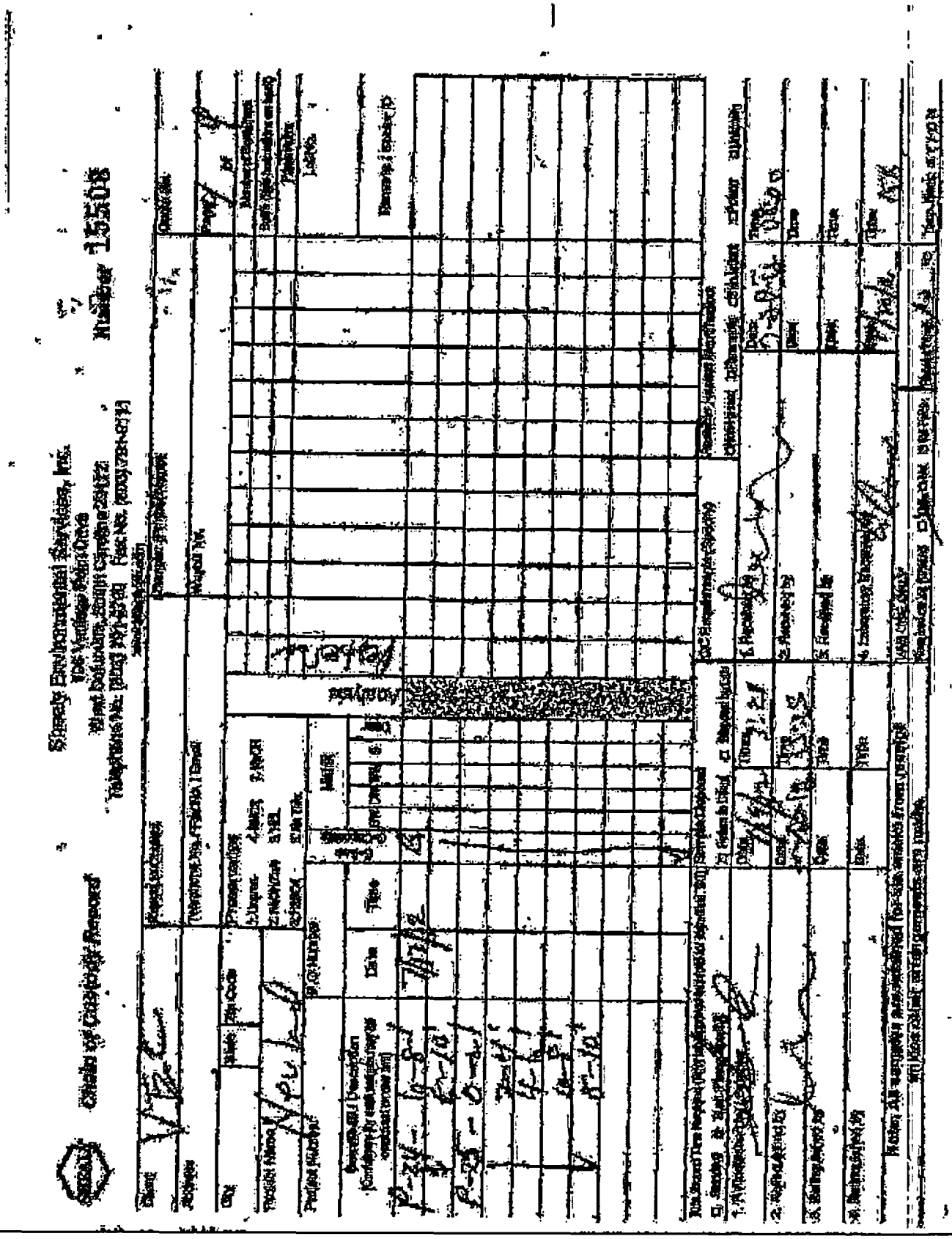
PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

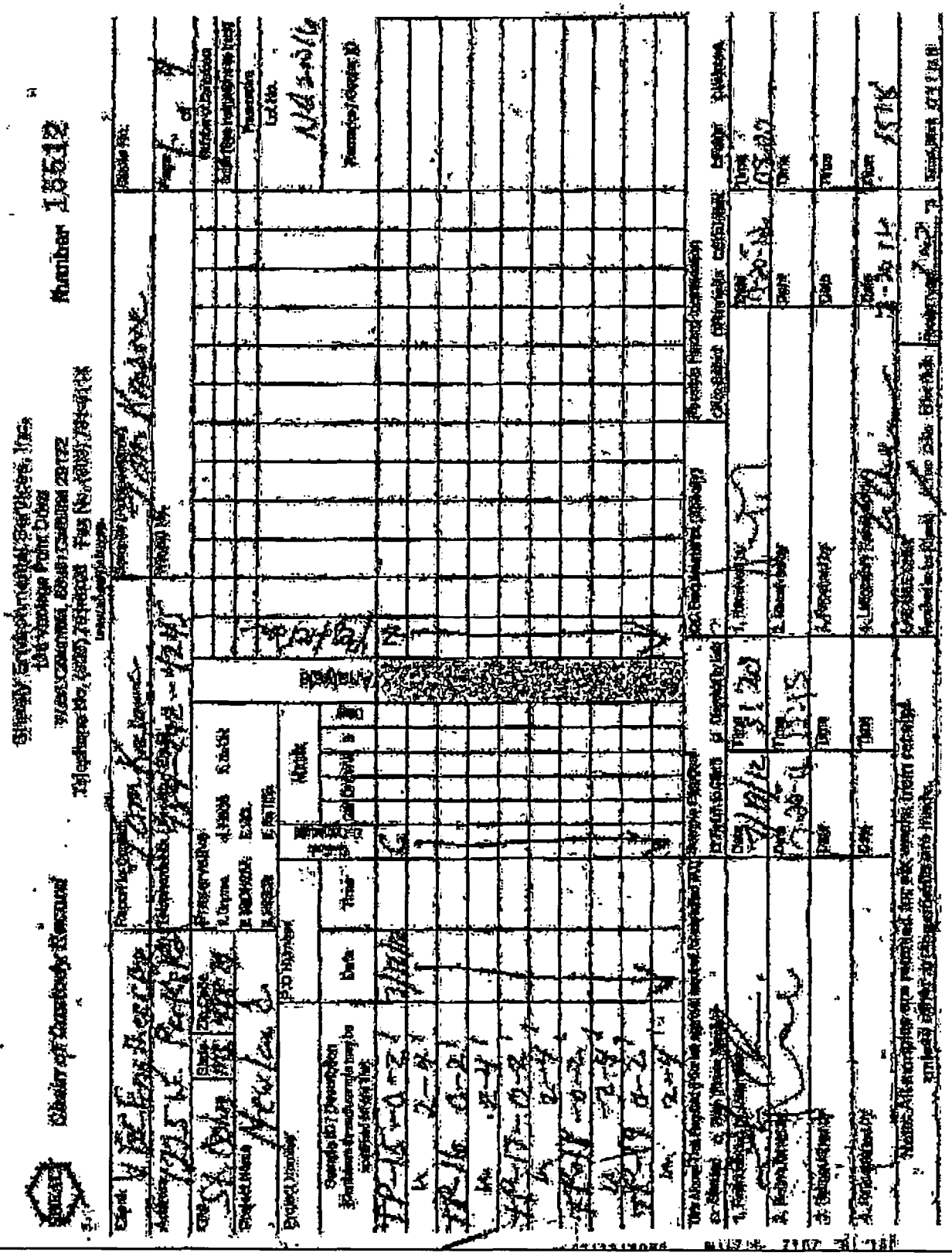
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results









Shealy Environmental Services, Inc.
Document Number: F-SD-036
Revision Number: 5

Page 1 of 1
Revision Date: 03/07/11
Effective Date: 3/7/11

Sample Receipt Checklist (SRC)

Client: VEC Cooler inspected by/date: [illegible] Lot #: [illegible]

Means of receipt: ☒ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☒		1. Were custody seals present on the cooler?
Yes ☐	No ☐		2. If custody seals were present, were they intact and unbroken?

Cooler ID/Temperature upon receipt: [illegible] °C [illegible] °C [illegible] °C [illegible] °C

Method: ☐ Temperature Blank ☐ Against Bottles
Method of coolant: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☒	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, mail (circle one), other: _____ (For samples received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☒	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☒	5a Were samples relinquished by client to commercial courier?
Yes ☒	No ☐		6. Were sample IDs listed?
Yes ☒	No ☐		7. Was collection date & time listed? Not all [illegible]
Yes ☒	No ☐		8. Were tests to be performed listed on the COC?
Yes ☒	No ☐		9. Did all samples arrive in the proper container for each test?
Yes ☒	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☒	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☒	No ☐		12. Was adequate sample volume available?
Yes ☐	No ☒		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☒		14. Were any samples containers missing?
Yes ☐	No ☒		15. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☒	16. Were bubbles present > "pea-size" (4 or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☒	17. Were all metals/CBOD/TKN/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☒	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☒	19. Were all applicable NH3/TKN/cyanide/phenol/TOX/pest/PCB/herb. (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☒	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☒	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD, due extensions, etc...) correctly transcribed from the COC into the comment section on LIMS?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H2SO4, HNO3, HCl, NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/PHNA/pest/PCB/herb.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: Date of response:

Comments: OK Red (1) bottle [illegible] TP 35-4.5' [illegible] on COC

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: Newland

Lot Number: NG20017
Date Completed: 08/07/2012

Nisreen Saikaly
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: NG20017

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

The surrogate recovery in samples -001 and -002 was outside the acceptance limit. The sample was re-extracted and reanalyzed yielding the same failure. The LCS recovery for Endrin aldehyde is below acceptable limits. No sample remained for a third extraction.

Sample Summary
VEC Engineering, PLLC
Lot Number: NG20017

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1-A	Aqueous	07/18/2012 1300	07/20/2012
002	MW-2-A	Aqueous	07/18/2012 1000	07/20/2012
003	Well	Aqueous	07/18/2012 1130	07/20/2012

(3 samples)

Executive Summary
VEC Engineering, PLLC
Lot Number: NG20017

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-2-A	Aqueous	alpha-BHC	8081B	0.090		ug/L	6
002	MW-2-A	Aqueous	beta-BHC	8081B	0.12		ug/L	6
002	MW-2-A	Aqueous	delta-BHC	8081B	0.14		ug/L	6
002	MW-2-A	Aqueous	gamma-BHC (Lindane)	8081B	0.031		ug/L	6
002	MW-2-A	Aqueous	4,4'-DDD	8081B	0.084		ug/L	6
002	MW-2-A	Aqueous	4,4'-DDE	8081B	0.071	P	ug/L	6
002	MW-2-A	Aqueous	Dieldrin	8081B	0.15		ug/L	6
002	MW-2-A	Aqueous	Endosulfan II	8081B	0.093	P	ug/L	6
002	MW-2-A	Aqueous	Endosulfan sulfate	8081B	0.14	P	ug/L	6
002	MW-2-A	Aqueous	Endrin	8081B	0.078	P	ug/L	6
002	MW-2-A	Aqueous	Endrin aldehyde	8081B	0.22	P	ug/L	6
002	MW-2-A	Aqueous	Endrin ketone	8081B	0.057		ug/L	6
002	MW-2-A	Aqueous	Toxaphene	8081B	6.0		ug/L	6
003	Well	Aqueous	Dieldrin	8081B	0.069		ug/L	7
003	Well	Aqueous	Endrin ketone	8081B	0.039		ug/L	7

(15 detections)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: MW-1-A
Date Sampled: 07/18/2012 1300
Date Received: 07/20/2012

Laboratory ID: NG20017-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	07/26/2012 1706	PMS	07/23/2012 1422	89681

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	14	20-131
Tetrachloro-m-xylene		80	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: MW-2-A
Date Sampled: 07/18/2012 1000
Date Received: 07/20/2012

Laboratory ID: NG20017-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	07/26/2012 1726	PMS	07/23/2012 1422	89681

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	0.090		0.025	ug/L	1
beta-BHC	319-85-7	8081B	0.12		0.025	ug/L	1
delta-BHC	319-86-8	8081B	0.14		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.031		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	0.084		0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	0.071	P	0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	ug/L	1
Dieldrin	60-57-1	8081B	0.15		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	0.093	P	0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	0.14	P	0.025	ug/L	1
Endrin	72-20-8	8081B	0.078	P	0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.22	P	0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	0.057		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	6.0		0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	16	20-131
Tetrachloro-m-xylene		72	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: Well
Date Sampled: 07/18/2012 1130
Date Received: 07/20/2012

Laboratory ID: NG20017-003
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	07/26/2012 1745	PMS	07/23/2012 1422	89681

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.026	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.026	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.026	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.026	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.026	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.026	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.026	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.026	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.026	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.026	ug/L	1
Dieldrin	60-57-1	8081B	0.069		0.026	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.026	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.026	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.026	ug/L	1
Endrin	72-20-8	8081B	ND		0.026	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.026	ug/L	1
Endrin ketone	53494-70-5	8081B	0.039		0.026	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.026	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.026	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.26	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		51	20-131
Tetrachloro-m-xylene		76	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

QC Summary

Organochlorine Pesticides by GC - MB

Sample ID: NQ89681-001
Batch: 89681
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/23/2012 1422

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	ug/L	07/26/2012 1608
4,4'-DDE	ND		1	0.025	ug/L	07/26/2012 1608
4,4'-DDT	ND		1	0.025	ug/L	07/26/2012 1608
Aldrin	ND		1	0.025	ug/L	07/26/2012 1608
alpha-BHC	ND		1	0.025	ug/L	07/26/2012 1608
alpha-Chlordane	ND		1	0.025	ug/L	07/26/2012 1608
beta-BHC	ND		1	0.025	ug/L	07/26/2012 1608
delta-BHC	ND		1	0.025	ug/L	07/26/2012 1608
Dieldrin	ND		1	0.025	ug/L	07/26/2012 1608
Endosulfan I	ND		1	0.025	ug/L	07/26/2012 1608
Endosulfan II	ND		1	0.025	ug/L	07/26/2012 1608
Endosulfan sulfate	ND		1	0.025	ug/L	07/26/2012 1608
Endrin	ND		1	0.025	ug/L	07/26/2012 1608
Endrin aldehyde	ND		1	0.025	ug/L	07/26/2012 1608
Endrin ketone	ND		1	0.025	ug/L	07/26/2012 1608
gamma-BHC (Lindane)	ND		1	0.025	ug/L	07/26/2012 1608
gamma-Chlordane	ND		1	0.025	ug/L	07/26/2012 1608
Heptachlor	ND		1	0.025	ug/L	07/26/2012 1608
Heptachlor epoxide	ND		1	0.025	ug/L	07/26/2012 1608
Methoxychlor	ND		1	0.10	ug/L	07/26/2012 1608
Toxaphene	ND		1	0.25	ug/L	07/26/2012 1608

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		21	20-131
Tetrachloro-m-xylene		74	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ89681-002
Batch: 89681
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/23/2012 1422

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.47		1	95	70-130	07/26/2012 1627
4,4'-DDE	0.50	0.46		1	93	70-130	07/26/2012 1627
4,4'-DDT	0.50	0.49		1	99	70-130	07/26/2012 1627
Aldrin	0.50	0.45		1	90	70-130	07/26/2012 1627
alpha-BHC	0.50	0.42		1	83	70-130	07/26/2012 1627
beta-BHC	0.50	0.41		1	83	70-130	07/26/2012 1627
delta-BHC	0.50	0.44		1	87	70-130	07/26/2012 1627
Dieldrin	0.50	0.47		1	93	70-130	07/26/2012 1627
Endosulfan I	0.50	0.44		1	87	70-130	07/26/2012 1627
Endosulfan II	0.50	0.39		1	78	70-130	07/26/2012 1627
Endosulfan sulfate	0.50	0.48		1	95	70-130	07/26/2012 1627
Endrin	0.50	0.52		1	105	70-130	07/26/2012 1627
Endrin aldehyde	0.50	0.20	N	1	41	70-130	07/26/2012 1627
gamma-BHC (Lindane)	0.50	0.43		1	87	70-130	07/26/2012 1627
gamma-Chlordane	0.50	0.46		1	91	70-130	07/26/2012 1627
Heptachlor	0.50	0.38		1	76	70-130	07/26/2012 1627
Heptachlor epoxide	0.50	0.44		1	89	70-130	07/26/2012 1627
Methoxychlor	0.50	0.47		1	95	70-130	07/26/2012 1627

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	16	20-131
Tetrachloro-m-xylene		73	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCSD

Sample ID: NQ89681-003
Batch: 89681
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/23/2012 1422

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
4,4'-DDD	0.50	0.48		1	95	0.80	70-130	30	07/26/2012 1647
4,4'-DDE	0.50	0.46		1	92	0.63	70-130	30	07/26/2012 1647
4,4'-DDT	0.50	0.50		1	100	1.1	70-130	30	07/26/2012 1647
Aldrin	0.50	0.43		1	87	3.4	70-130	30	07/26/2012 1647
alpha-BHC	0.50	0.40		1	81	3.4	70-130	30	07/26/2012 1647
beta-BHC	0.50	0.40		1	80	3.8	70-130	30	07/26/2012 1647
delta-BHC	0.50	0.44		1	87	0.21	70-130	30	07/26/2012 1647
Dieldrin	0.50	0.47		1	94	0.41	70-130	30	07/26/2012 1647
Endosulfan I	0.50	0.44		1	87	0.069	70-130	30	07/26/2012 1647
Endosulfan II	0.50	0.40		1	80	2.8	70-130	30	07/26/2012 1647
Endosulfan sulfate	0.50	0.47		1	95	0.78	70-130	30	07/26/2012 1647
Endrin	0.50	0.54		1	109	3.9	70-130	30	07/26/2012 1647
Endrin aldehyde	0.50	0.22	N	1	43	5.5	70-130	30	07/26/2012 1647
gamma-BHC (Lindane)	0.50	0.42		1	85	2.2	70-130	30	07/26/2012 1647
gamma-Chlordane	0.50	0.45		1	91	0.33	70-130	30	07/26/2012 1647
Heptachlor	0.50	0.37		1	73	4.2	70-130	30	07/26/2012 1647
Heptachlor epoxide	0.50	0.44		1	89	0.20	70-130	30	07/26/2012 1647
Methoxychlor	0.50	0.48		1	96	1.5	70-130	30	07/26/2012 1647

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		23	20-131
Tetrachloro-m-xylene		70	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: Newland

Lot Number: NH23053
Date Completed: 09/06/2012

Nisreen Saikaly
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: NH23053

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

sample -003 and the LCSD of batch 92072 has the surrogate Decachlorobiphenyl recovered outside of the acceptance limits. This compound is a demonstrated poor performer in liquid-liquid extractions.

Sample Summary
VEC Engineering, PLLC
Lot Number: NH23053

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	08/22/2012 1010	08/23/2012
002	MW-2	Aqueous	08/22/2012 1215	08/23/2012
003	MW-3	Aqueous	08/22/2012 1138	08/23/2012
004	MW-4	Aqueous	08/22/2012 1052	08/23/2012

(4 samples)

Executive Summary
VEC Engineering, PLLC
Lot Number: NH23053

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Dissolved Oxygen	SM 4500-O G	4.47	H	mg/L	5
002	MW-2	Aqueous	Dissolved Oxygen	SM 4500-O G	4.36	H	mg/L	7
002	MW-2	Aqueous	alpha-BHC	8081B	0.097		ug/L	8
002	MW-2	Aqueous	beta-BHC	8081B	0.13		ug/L	8
002	MW-2	Aqueous	delta-BHC	8081B	0.11		ug/L	8
002	MW-2	Aqueous	gamma-BHC (Lindane)	8081B	0.037		ug/L	8
002	MW-2	Aqueous	4,4'-DDD	8081B	0.075		ug/L	8
002	MW-2	Aqueous	4,4'-DDE	8081B	0.084		ug/L	8
002	MW-2	Aqueous	4,4'-DDT	8081B	0.074	P	ug/L	8
002	MW-2	Aqueous	Dieldrin	8081B	0.17		ug/L	8
002	MW-2	Aqueous	Endosulfan II	8081B	0.068		ug/L	8
002	MW-2	Aqueous	Endosulfan sulfate	8081B	0.11		ug/L	8
002	MW-2	Aqueous	Endrin	8081B	0.071		ug/L	8
002	MW-2	Aqueous	Endrin aldehyde	8081B	0.12		ug/L	8
002	MW-2	Aqueous	Endrin ketone	8081B	0.067		ug/L	8
002	MW-2	Aqueous	Toxaphene	8081B	6.8		ug/L	8
003	MW-3	Aqueous	Dissolved Oxygen	SM 4500-O G	3.88	H	mg/L	9
003	MW-3	Aqueous	beta-BHC	8081B	0.086		ug/L	10
003	MW-3	Aqueous	alpha-Chlordane	8081B	0.054		ug/L	10
003	MW-3	Aqueous	4,4'-DDD	8081B	0.10	P	ug/L	10
003	MW-3	Aqueous	4,4'-DDE	8081B	0.16	P	ug/L	10
003	MW-3	Aqueous	Dieldrin	8081B	0.25		ug/L	10
003	MW-3	Aqueous	Endosulfan II	8081B	0.15	P	ug/L	10
003	MW-3	Aqueous	Endosulfan sulfate	8081B	0.13		ug/L	10
003	MW-3	Aqueous	Endrin	8081B	0.11	P	ug/L	10
003	MW-3	Aqueous	Endrin aldehyde	8081B	0.19		ug/L	10
003	MW-3	Aqueous	Endrin ketone	8081B	0.14		ug/L	10
003	MW-3	Aqueous	Heptachlor epoxide	8081B	0.050	P	ug/L	10
003	MW-3	Aqueous	Methoxychlor	8081B	0.15		ug/L	10
003	MW-3	Aqueous	Toxaphene	8081B	7.8		ug/L	10
004	MW-4	Aqueous	Dieldrin	8081B	0.028		ug/L	12
004	MW-4	Aqueous	Toxaphene	8081B	0.64	P	ug/L	12

(32 detections)

Inorganic non-metals

Client: VEC Engineering, PLLC
Description: MW-1
Date Sampled: 08/22/2012 1010
Date Received: 08/23/2012

Laboratory ID: NH23053-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Dissolved Ox) SM	1	08/24/2012 1520	JBS		
1		(pH) SM 4500-H B	1	08/24/2012 1520	JBS		92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dissolved Oxygen		SM 4500-O G	4.47	H	2.00	mg/L	1
pH		SM 4500-H B	5.17	H	0.000	su	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: MW-1
Date Sampled: 08/22/2012 1010
Date Received: 08/23/2012

Laboratory ID: NH23053-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	08/29/2012 1354	PMS	08/24/2012 1409	92072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	ug/L	1
Dieldrin	60-57-1	8081B	ND		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		35	20-131
Tetrachloro-m-xylene		72	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Inorganic non-metals

Client: VEC Engineering, PLLC
Description: MW-2
Date Sampled: 08/22/2012 1215
Date Received: 08/23/2012

Laboratory ID: NH23053-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Dissolved Ox) SM	1	08/24/2012 1520	JBS		
1		(pH) SM 4500-H B	1	08/24/2012 1520	JBS		92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dissolved Oxygen		SM 4500-O G	4.36	H	2.00	mg/L	1
pH		SM 4500-H B	4.69	H	0.000	su	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: MW-2
Date Sampled: 08/22/2012 1215
Date Received: 08/23/2012

Laboratory ID: NH23053-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	08/29/2012 1413	PMS	08/24/2012 1409	92072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	0.097		0.025	ug/L	1
beta-BHC	319-85-7	8081B	0.13		0.025	ug/L	1
delta-BHC	319-86-8	8081B	0.11		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.037		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	0.075		0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	0.084		0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	0.074	P	0.025	ug/L	1
Dieldrin	60-57-1	8081B	0.17		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	0.068		0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	0.11		0.025	ug/L	1
Endrin	72-20-8	8081B	0.071		0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.12		0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	0.067		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	6.8		0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		31	20-131
Tetrachloro-m-xylene		79	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Inorganic non-metals

Client: VEC Engineering, PLLC
Description: MW-3
Date Sampled: 08/22/2012 1138
Date Received: 08/23/2012

Laboratory ID: NH23053-003
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Dissolved Ox) SM	1	08/24/2012 1520	JBS		
1		(pH) SM 4500-H B	1	08/24/2012 1520	JBS		92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dissolved Oxygen		SM 4500-O G	3.88	H	2.00	mg/L	1
pH		SM 4500-H B	5.16	H	0.000	su	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: MW-3
Date Sampled: 08/22/2012 1138
Date Received: 08/23/2012

Laboratory ID: NH23053-003
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	08/29/2012 1433	PMS	08/24/2012 1409	92072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	ug/L	1
beta-BHC	319-85-7	8081B	0.086		0.025	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	0.054		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	0.10	P	0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	0.16	P	0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	ug/L	1
Dieldrin	60-57-1	8081B	0.25		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	0.15	P	0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	0.13		0.025	ug/L	1
Endrin	72-20-8	8081B	0.11	P	0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	0.19		0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	0.14		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	0.050	P	0.025	ug/L	1
Methoxychlor	72-43-5	8081B	0.15		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	7.8		0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	6.5	20-131
Tetrachloro-m-xylene		60	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Inorganic non-metals

Client: VEC Engineering, PLLC
Description: MW-4
Date Sampled: 08/22/2012 1052
Date Received: 08/23/2012

Laboratory ID: NH23053-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Dissolved Ox) SM	1	08/24/2012 1520	JBS		
1		(pH) SM 4500-H B	1	08/24/2012 1520	JBS		92142

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dissolved Oxygen		SM 4500-O G	ND	H	2.00	mg/L	1
pH		SM 4500-H B	4.72	H	0.000	su	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: MW-4
Date Sampled: 08/22/2012 1052
Date Received: 08/23/2012

Laboratory ID: NH23053-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	08/29/2012 1452	PMS	08/24/2012 1409	92072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	ug/L	1
Dieldrin	60-57-1	8081B	0.028		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	ND		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	0.64	P	0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		38	20-131
Tetrachloro-m-xylene		76	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

QC Summary

Inorganic non-metals - MB

Sample ID: NQ92142-001
Batch: 92142
Analytical Method: SM 4500-H B

Matrix: Aqueous

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
pH	5.97		1	0.000	su	08/24/2012 1520

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - Duplicate

Sample ID: NH23053-001DU
Batch: 92142
Analytical Method: SM 4500-H B

Matrix: Aqueous

Parameter	Sample Amount (su)	Result	Q	Dil	% RPD	% RPD Limit	Analysis Date
pH	5.17	5.17		1	0.00	20	08/24/2012 1520

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: NQ92072-001
Batch: 92072
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/24/2012 1409

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	ug/L	08/29/2012 1255
4,4'-DDE	ND		1	0.025	ug/L	08/29/2012 1255
4,4'-DDT	ND		1	0.025	ug/L	08/29/2012 1255
Aldrin	ND		1	0.025	ug/L	08/29/2012 1255
alpha-BHC	ND		1	0.025	ug/L	08/29/2012 1255
alpha-Chlordane	ND		1	0.025	ug/L	08/29/2012 1255
beta-BHC	ND		1	0.025	ug/L	08/29/2012 1255
delta-BHC	ND		1	0.025	ug/L	08/29/2012 1255
Dieldrin	ND		1	0.025	ug/L	08/29/2012 1255
Endosulfan I	ND		1	0.025	ug/L	08/29/2012 1255
Endosulfan II	ND		1	0.025	ug/L	08/29/2012 1255
Endosulfan sulfate	ND		1	0.025	ug/L	08/29/2012 1255
Endrin	ND		1	0.025	ug/L	08/29/2012 1255
Endrin aldehyde	ND		1	0.025	ug/L	08/29/2012 1255
Endrin ketone	ND		1	0.025	ug/L	08/29/2012 1255
gamma-BHC (Lindane)	ND		1	0.025	ug/L	08/29/2012 1255
gamma-Chlordane	ND		1	0.025	ug/L	08/29/2012 1255
Heptachlor	ND		1	0.025	ug/L	08/29/2012 1255
Heptachlor epoxide	ND		1	0.025	ug/L	08/29/2012 1255
Methoxychlor	ND		1	0.10	ug/L	08/29/2012 1255
Toxaphene	ND		1	0.25	ug/L	08/29/2012 1255

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		52	20-131
Tetrachloro-m-xylene		81	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: NQ92072-002
Batch: 92072
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/24/2012 1409

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.51		1	103	78-139	08/29/2012 1315
4,4'-DDE	0.50	0.51		1	101	77-134	08/29/2012 1315
4,4'-DDT	0.50	0.48		1	95	73-152	08/29/2012 1315
Aldrin	0.50	0.49		1	99	75-133	08/29/2012 1315
alpha-BHC	0.50	0.46		1	93	76-131	08/29/2012 1315
beta-BHC	0.50	0.48		1	96	70-136	08/29/2012 1315
delta-BHC	0.50	0.43		1	86	72-138	08/29/2012 1315
Dieldrin	0.50	0.50		1	100	79-137	08/29/2012 1315
Endosulfan I	0.50	0.46		1	93	73-128	08/29/2012 1315
Endosulfan II	0.50	0.41		1	82	72-136	08/29/2012 1315
Endosulfan sulfate	0.50	0.50		1	100	77-138	08/29/2012 1315
Endrin	0.50	0.56		1	112	83-149	08/29/2012 1315
Endrin aldehyde	0.50	0.25		1	49	45-129	08/29/2012 1315
gamma-BHC (Lindane)	0.50	0.47		1	93	71-144	08/29/2012 1315
gamma-Chlordane	0.50	0.49		1	99	77-137	08/29/2012 1315
Heptachlor	0.50	0.44		1	88	69-127	08/29/2012 1315
Heptachlor epoxide	0.50	0.48		1	95	75-130	08/29/2012 1315
Methoxychlor	0.50	0.47		1	94	74-158	08/29/2012 1315

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		33	20-131
Tetrachloro-m-xylene		82	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCSD

Sample ID: NQ92072-003
Batch: 92072
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 08/24/2012 1409

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
4,4'-DDD	0.50	0.50		1	100	3.0	78-139	30	08/29/2012 1334
4,4'-DDE	0.50	0.47		1	95	6.8	77-134	30	08/29/2012 1334
4,4'-DDT	0.50	0.48		1	96	0.54	73-152	30	08/29/2012 1334
Aldrin	0.50	0.43		1	86	14	75-133	30	08/29/2012 1334
alpha-BHC	0.50	0.40		1	81	14	76-131	30	08/29/2012 1334
beta-BHC	0.50	0.42		1	85	13	70-136	30	08/29/2012 1334
delta-BHC	0.50	0.39		1	77	11	72-138	30	08/29/2012 1334
Dieldrin	0.50	0.47		1	94	6.0	79-137	30	08/29/2012 1334
Endosulfan I	0.50	0.43		1	86	7.8	73-128	30	08/29/2012 1334
Endosulfan II	0.50	0.40		1	80	2.5	72-136	30	08/29/2012 1334
Endosulfan sulfate	0.50	0.49		1	97	2.5	77-138	30	08/29/2012 1334
Endrin	0.50	0.51		1	103	8.4	83-149	30	08/29/2012 1334
Endrin aldehyde	0.50	0.25		1	50	1.7	45-129	30	08/29/2012 1334
gamma-BHC (Lindane)	0.50	0.41		1	81	14	71-144	30	08/29/2012 1334
gamma-Chlordane	0.50	0.45		1	89	9.9	77-137	30	08/29/2012 1334
Heptachlor	0.50	0.38		1	75	16	69-127	30	08/29/2012 1334
Heptachlor epoxide	0.50	0.43		1	86	9.8	75-130	30	08/29/2012 1334
Methoxychlor	0.50	0.46		1	91	2.3	74-158	30	08/29/2012 1334

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	17	20-131
Tetrachloro-m-xylene		72	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Chain of Custody Record

Number 02495

Client: VEC Engineering	Report to (Name): Tom Kaserer	Sampler (Signature/Name): Tom Kaserer	Date No:
Address: 1225 W. Parker	Telephone No. (Fax No., Email): 989-792-9275	Invoice No:	Page: 1 of 1
City: Mt. Pleasant	State: MI Zip Code: 48858	Preservative: 1. Ethanol 4. HNO3 7. NaOH; 2. H2SO4 5. HCl; 3. H2SO4 6. Other	Number of Containers; Date/Time collected on/at(s); Preservative; Lot No.
Project Name: Newton 2			

Project Number	P.O. Number	Date	Time	Matrix	Number of Containers	Analysis	Preservative	Lot No.
Sample ID / Description (Containers for each sample may be combined on one line)								Remarks / Order ID
MW-1	5/24/12	10:10	G	W	3	X	HCl	1123473
MW-2		8:35	G	W	3	X	HCl	
MW-3		11:35	G	W	3	X	HCl	
MW-4		10:52	G	W	3	X	HCl	

Turn Around Time Required (Prior lab approval required for expedited TAT): ☐ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time
1. Relinquished by: [illegible]	5/23/12	4pm
2. Relinquished by: Area	5/23/12	9430
3. Relinquished by: [illegible]	5/24/12	1000
4. Relinquished by:	Date	Time

	Date	Time
1. Received by: Secore Area	5/23/12	0400
2. Received by: [illegible]	5/24/12	0930
3. Received by:	Date	Time
4. Laboratory Received by:	Date	Time

Notes: All samples are collected and analyzed from receipt unless other arrangements are made.

Lab Use Only: Received on Ice (Y/N) ☐ Yes ☐ No; ☐ Blue Ice; Temp Blank: °C; Temp Rec'd: °C

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Revision Number: 9

Page 1 of 1
Effective Date: 10/1/15

Sample Receipt Checklist (SRC)

Client: _____ Cooler Inspected by/Date: _____ Lot #: _____

Means of Receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☐		1. Were custody seals present on the cooler?
Yes ☐	No ☐		2. If custody seals were present, were they intact and unbroken?

Cooler Temperature upon receipt: _____ °C _____ °C _____ °C _____ °C
Method: ☐ Temperature Blank ☐ Against Bottles
Method of cooling: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☐	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? If notified by SRC, please note (circle one): other: _____ (For coolers received via commercial courier, PMs are to be notified immediately)
Yes ☐	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☐	5a. Were samples relinquished by client to commercial courier?
Yes ☐	No ☐		6. Were samples labeled?
Yes ☐	No ☐		7. Were collection dates & times listed?
Yes ☐	No ☐		8. Were tests to be performed listed on the COC?
Yes ☐	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☐	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☐	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☐	No ☐		12. Was sufficient sample volume available?
Yes ☐	No ☐		13. Were all samples received within 48 hr. holding time or 48 hours, whichever comes first?
Yes ☐	No ☐		14. Were any sample containers missing?
Yes ☐	No ☐		15. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☐	16. Were bubbles present > "pea size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☐	17. Were all metals/O&G/TRPH/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☐	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☐	19. Were all applicable NPDES/TKN/any drinking water/BNA/pest/PCB/Bacti (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☐	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☐	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc.) correctly transferred from the COC into the comment section in LIMS?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H2SO4, HNO3, HCl, NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles > 6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/ TKN/any drinking water/BNA/pest/PCB/bacti.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: Newland Composite

Lot Number: NI21030
Date Completed: 10/04/2012

Nisreen Salkaly
Project Manager

ACCREDITED IN ACCORDANCE WITH

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: NI21030

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

This sample is a composite of previously analyzed samples NG20016-001, -005, -009, -010, -011. -016, and -018.

Sample Summary
VEC Engineering, PLLC
Lot Number: NI21030

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	COMPOSITE SAMPLE	Solid	09/21/2012 1350	09/21/2012

(1 sample)

Executive Summary
VEC Engineering, PLLC
Lot Number: NI21030

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	COMPOSITE SAMPLE	Solid	Ignitability (Pensky-Martens Closed-	1010A	>140		° F	5
001	COMPOSITE SAMPLE	Solid	Barium	6010C	0.36		mg/L	10

(2 detections)

Inorganic non-metals

Client: VEC Engineering, PLLC
Description: COMPOSITE SAMPLE
Date Sampled: 09/21/2012 1350
Date Received: 09/21/2012

Laboratory ID: NI21030-001
Matrix: Solid
% Solids: 80.1 09/21/2012 1625

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ignitability) 1010A	1	09/25/2012 1607	DMM		93985
1		(pH) 9045D	1	09/25/2012 0838	MDR		93936
1		(Reactive Cya) 7.3.3	1	09/29/2012 0054	HBB	09/28/2012 1030	
1		(Reactive Sul) 7.3.4	1	09/28/2012 1355	LAS	09/28/2012 1030	

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ignitability (Pensky-Martens Closed-Cup)		1010A	>140		140	° F	1
pH		9045D	6.87	H	0.000	su	1
Reactive Cyanide		7.3.3	ND		50	mg/kg	1
Reactive Sulfide		7.3.4	ND	H	50	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

TCLP Volatiles

Client: VEC Engineering, PLLC
Description: COMPOSITE SAMPLE
Date Sampled: 09/21/2012 1350
Date Received: 09/21/2012

Laboratory ID: NI21030-001
Matrix: Solid
% Solids: 80.1 09/21/2012 1625

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/5030B	8260B	10	10/03/2012 1402	BDC		94569	09/21/2012 1950

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.050	mg/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		0.10	mg/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.050	mg/L	1
Chlorobenzene	108-90-7	8260B	ND		0.050	mg/L	1
Chloroform	67-66-3	8260B	ND		0.050	mg/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.050	mg/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.050	mg/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.050	mg/L	1
Trichloroethene	79-01-6	8260B	ND		0.050	mg/L	1
Vinyl chloride	75-01-4	8260B	ND		0.010	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

TCLP Semivolatiles

Client: VEC Engineering, PLLC
Description: COMPOSITE SAMPLE
Date Sampled: 09/21/2012 1350
Date Received: 09/21/2012

Laboratory ID: NI21030-001
Matrix: Solid
% Solids: 80.1 09/21/2012 1625

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
2	1311/3520C	8270D	1	10/03/2012 1640	RBH	10/01/2012 1640	94383	09/21/2012 1949

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dichlorobenzene	106-46-7	8270D	ND		0.050	mg/L	2
2,4-Dinitrotoluene	121-14-2	8270D	ND		0.10	mg/L	2
Hexachlorobenzene	118-74-1	8270D	ND		0.050	mg/L	2
Hexachlorobutadiene	87-68-3	8270D	ND		0.050	mg/L	2
Hexachloroethane	67-72-1	8270D	ND		0.050	mg/L	2
2-Methylphenol	95-48-7	8270D	ND		0.050	mg/L	2
3 & 4-Methylphenol	106-44-5	8270D	ND		0.10	mg/L	2
Nitrobenzene	98-95-3	8270D	ND		0.050	mg/L	2
Pentachlorophenol	87-86-5	8270D	ND		0.25	mg/L	2
Pyridine	110-86-1	8270D	ND	S	0.050	mg/L	2
2,4,5-Trichlorophenol	95-95-4	8270D	ND		0.050	mg/L	2
2,4,6-Trichlorophenol	88-06-2	8270D	ND		0.050	mg/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		76	41-144
2-Fluorobiphenyl		82	37-129
2-Fluorophenol		47	24-127
Nitrobenzene-d5		73	38-127
Phenol-d5		79	28-128
Terphenyl-d14		75	10-148

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | * = Reportable result (only when report all runs) | S = MS/MSD failure

TCLP Herbicides

Client: VEC Engineering, PLLC
Description: COMPOSITE SAMPLE
Date Sampled: 09/21/2012 1350
Date Received: 09/21/2012

Laboratory ID: NI21030-001
Matrix: Solid
% Solids: 80.1 09/21/2012 1625

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/8151A	8151A	1	09/28/2012 2322	MPM	09/25/2012 0948	93922	09/21/2012 1949

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
2,4-D	94-75-7	8151A	ND		0.020	mg/L	1
2,4,5-TP (Silvex)	93-72-1	8151A	ND		0.0050	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
DCAA		92	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

TCLP Pesticides

Client: VEC Engineering, PLLC
Description: COMPOSITE SAMPLE
Date Sampled: 09/21/2012 1350
Date Received: 09/21/2012

Laboratory ID: NI21030-001
Matrix: Solid
% Solids: 80.1 09/21/2012 1625

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/3520C	8081B	1	09/27/2012 1405	PMS	09/24/2012 1455	93851	09/21/2012 1949

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.00050	mg/L	1
Chlordane	57-74-9	8081B	ND		0.0025	mg/L	1
Endrin	72-20-8	8081B	ND		0.00050	mg/L	1
Heptachlor	76-44-8	8081B	ND		0.00050	mg/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.00050	mg/L	1
Methoxychlor	72-43-5	8081B	ND		0.0020	mg/L	1
Toxaphene	8001-35-2	8081B	ND		0.0050	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		83	20-131
Tetrachloro-m-xylene		86	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

TCLP Metals

Client: VEC Engineering, PLLC
Description: COMPOSITE SAMPLE
Date Sampled: 09/21/2012 1350
Date Received: 09/21/2012

Laboratory ID: NI21030-001
Matrix: Solid
% Solids: 80.1 09/21/2012 1625

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/7470A	7470A	1	09/26/2012 1656	COH	09/26/2012 1058	93963	09/21/2012 1949
1	1311/3010A	6010C	10	09/29/2012 1645	BNW	09/24/2012 0943	93833	09/21/2012 1949

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.10	mg/L	1
Barium	7440-39-3	6010C	0.36		0.25	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.050	mg/L	1
Lead	7439-92-1	6010C	ND		0.10	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1
Selenium	7782-49-2	6010C	ND		0.10	mg/L	1
Silver	7440-22-4	6010C	ND		0.050	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report *all* runs)

QC Summary

Inorganic non-metals - MB

Sample ID: NQ93936-001
Batch: 93936
Analytical Method: 9045D

Matrix: Solid

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
pH	7.13		1	0.000	su	09/25/2012 0838

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - Duplicate

Sample ID: NI21030-001DU
Batch: 93936
Analytical Method: 9045D

Matrix: Solid

Parameter	Sample Amount (su)	Result	Q	Dil	% RPD	% RPD Limit	Analysis Date
pH	6.87	6.52		1	5.2	20	09/25/2012 0838

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Volatiles - MB

Sample ID: NQ94569-001
Batch: 94569
Analytical Method: 8260B

Matrix: Solid
Prep Method: 1311/5030B
Leachate Date: 09/21/2012 1950

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		10	0.050	mg/L	10/03/2012 1001
2-Butanone (MEK)	ND		10	0.10	mg/L	10/03/2012 1001
Carbon tetrachloride	ND		10	0.050	mg/L	10/03/2012 1001
Chlorobenzene	ND		10	0.050	mg/L	10/03/2012 1001
Chloroform	ND		10	0.050	mg/L	10/03/2012 1001
1,2-Dichloroethane	ND		10	0.050	mg/L	10/03/2012 1001
1,1-Dichloroethene	ND		10	0.050	mg/L	10/03/2012 1001
Tetrachloroethene	ND		10	0.050	mg/L	10/03/2012 1001
Trichloroethene	ND		10	0.050	mg/L	10/03/2012 1001
Vinyl chloride	ND		10	0.010	mg/L	10/03/2012 1001

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Volatiles - LCS

Sample ID: NQ94569-002
Batch: 94569
Analytical Method: 8260B

Matrix: Solid
Prep Method: 1311/5030B
Leachate Date: 09/21/2012 1950

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	0.50	0.48		10	95	72-127	10/03/2012 1426
2-Butanone (MEK)	1.0	0.87		10	87	60-140	10/03/2012 1426
Carbon tetrachloride	0.50	0.48		10	96	37-166	10/03/2012 1426
Chlorobenzene	0.50	0.48		10	96	78-129	10/03/2012 1426
Chloroform	0.50	0.46		10	93	63-123	10/03/2012 1426
1,2-Dichloroethane	0.50	0.48		10	95	59-143	10/03/2012 1426
1,1-Dichloroethene	0.50	0.45		10	90	50-132	10/03/2012 1426
Tetrachloroethene	0.50	0.50		10	100	70-130	10/03/2012 1426
Trichloroethene	0.50	0.48		10	97	73-124	10/03/2012 1426
Vinyl chloride	0.50	0.41		10	81	29-159	10/03/2012 1426

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Volatiles - MS

Sample ID: NI21030-001MS
Batch: 94569
Analytical Method: 8260B

Matrix: Solid
Prep Method: 1311/5030B
Leachate Date: 09/21/2012 1950

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	ND	0.50	0.47		10	94	70-127	10/03/2012 1603
2-Butanone (MEK)	ND	1.0	0.91		10	91	60-140	10/03/2012 1603
Carbon tetrachloride	ND	0.50	0.47		10	93	37-166	10/03/2012 1603
Chlorobenzene	ND	0.50	0.47		10	94	78-129	10/03/2012 1603
Chloroform	ND	0.50	0.45		10	89	63-123	10/03/2012 1603
1,2-Dichloroethane	ND	0.50	0.46		10	91	59-143	10/03/2012 1603
1,1-Dichloroethene	ND	0.50	0.43		10	87	50-132	10/03/2012 1603
Tetrachloroethene	ND	0.50	0.49		10	97	70-130	10/03/2012 1603
Trichloroethene	ND	0.50	0.48		10	97	73-124	10/03/2012 1603
Vinyl chloride	ND	0.50	0.38		10	76	29-159	10/03/2012 1603

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Semivolatiles - MB

Sample ID: NQ94383-001
Batch: 94383
Analytical Method: 8270D

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 10/01/2012 1640 Leachate Date: 09/21/2012 1949

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dichlorobenzene	ND		1	0.050	mg/L	10/03/2012 1531
2,4,5-Trichlorophenol	ND		1	0.050	mg/L	10/03/2012 1531
2,4,6-Trichlorophenol	ND		1	0.050	mg/L	10/03/2012 1531
2,4-Dinitrotoluene	ND		1	0.10	mg/L	10/03/2012 1531
2-Methylphenol	ND		1	0.050	mg/L	10/03/2012 1531
3 & 4-Methylphenol	ND		1	0.10	mg/L	10/03/2012 1531
Hexachlorobenzene	ND		1	0.050	mg/L	10/03/2012 1531
Hexachlorobutadiene	ND		1	0.050	mg/L	10/03/2012 1531
Hexachloroethane	ND		1	0.050	mg/L	10/03/2012 1531
Nitrobenzene	ND		1	0.050	mg/L	10/03/2012 1531
Pentachlorophenol	ND		1	0.25	mg/L	10/03/2012 1531
Pyridine	ND		1	0.050	mg/L	10/03/2012 1531

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		108	41-144
2-Fluorobiphenyl		98	37-129
2-Fluorophenol		91	24-127
Nitrobenzene-d5		92	38-127
Phenol-d5		98	28-128
Terphenyl-d14		91	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Semivolatiles - LCS

Sample ID: NQ94383-002
Batch: 94383
Analytical Method: 8270D

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 10/01/2012 1640 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dichlorobenzene	1.0	0.80		1	80	30-130	10/03/2012 1737
2,4,5-Trichlorophenol	1.0	0.89		1	89	30-130	10/03/2012 1737
2,4,6-Trichlorophenol	1.0	0.92		1	92	30-130	10/03/2012 1737
2,4-Dinitrotoluene	1.0	0.90		1	90	30-130	10/03/2012 1737
2-Methylphenol	1.0	0.91		1	91	30-130	10/03/2012 1737
3 & 4-Methylphenol	2.0	1.8		1	92	30-130	10/03/2012 1737
Hexachlorobenzene	1.0	0.87		1	87	30-130	10/03/2012 1737
Hexachlorobutadiene	1.0	0.87		1	87	30-130	10/03/2012 1737
Hexachloroethane	1.0	0.87		1	87	30-130	10/03/2012 1737
Nitrobenzene	1.0	0.89		1	89	30-130	10/03/2012 1737
Pentachlorophenol	1.0	0.94		1	94	30-130	10/03/2012 1737
Pyridine	1.0	0.38		1	38	30-130	10/03/2012 1737

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		93	41-144
2-Fluorobiphenyl		90	37-129
2-Fluorophenol		85	24-127
Nitrobenzene-d5		87	38-127
Phenol-d5		88	28-128
Terphenyl-d14		82	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Semivolatiles - MS

Sample ID: NI21030-001MS
Batch: 94383
Analytical Method: 8270D

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 10/01/2012 1640 Leachate Date: 09/21/2012 1949

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dichlorobenzene	ND	1.2	0.81		1	81	30-130	10/03/2012 1834
2,4-Dinitrotoluene	ND	1.2	0.88		1	88	30-130	10/03/2012 1834
Hexachlorobenzene	ND	1.2	0.85		1	85	30-130	10/03/2012 1834
Hexachlorobutadiene	ND	1.2	0.86		1	86	30-130	10/03/2012 1834
Hexachloroethane	ND	1.2	0.57		1	57	30-130	10/03/2012 1834
2-Methylphenol	ND	1.2	0.82		1	82	30-130	10/03/2012 1834
3 & 4-Methylphenol	ND	2.5	1.2		1	61	30-130	10/03/2012 1834
Nitrobenzene	ND	1.2	0.56		1	56	30-130	10/03/2012 1834
Pentachlorophenol	ND	1.2	0.95		1	95	30-130	10/03/2012 1834
Pyridine	ND	1.2	0.27	N	1	27	30-130	10/03/2012 1834
2,4,5-Trichlorophenol	ND	1.2	0.86		1	86	30-130	10/03/2012 1834
2,4,6-Trichlorophenol	ND	1.2	0.87		1	87	30-130	10/03/2012 1834

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		93	41-144
2-Fluorobiphenyl		85	37-129
2-Fluorophenol		85	24-127
Nitrobenzene-d5		56	38-127
Phenol-d5		90	28-128
Terphenyl-d14		76	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Pesticides - MB

Sample ID: NQ93851-001
Batch: 93851
Analytical Method: 8081B

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 09/24/2012 1455 Leachate Date: 09/21/2012 1949

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Chlordane	ND		1	0.0025	mg/L	09/27/2012 1326
Endrin	ND		1	0.00050	mg/L	09/27/2012 1326
gamma-BHC (Lindane)	ND		1	0.00050	mg/L	09/27/2012 1326
Heptachlor	ND		1	0.00050	mg/L	09/27/2012 1326
Heptachlor epoxide	ND		1	0.00050	mg/L	09/27/2012 1326
Methoxychlor	ND		1	0.0020	mg/L	09/27/2012 1326
Toxaphene	ND		1	0.0050	mg/L	09/27/2012 1326

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		82	20-131
Tetrachloro-m-xylene		85	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Pesticides - LCS

Sample ID: NQ93851-002
Batch: 93851
Analytical Method: 8081B

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 09/24/2012 1455 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Endrin	0.0080	0.0093		1	116	70-130	09/27/2012 1346
gamma-BHC (Lindane)	0.0080	0.0086		1	108	70-130	09/27/2012 1346
Heptachlor	0.0080	0.0084		1	105	70-130	09/27/2012 1346
Heptachlor epoxide	0.0080	0.0080		1	100	70-130	09/27/2012 1346
Methoxychlor	0.0080	0.0090		1	112	70-130	09/27/2012 1346

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		87	20-131
Tetrachloro-m-xylene		84	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Pesticides - MS

Sample ID: NI21030-001MS
Batch: 93851
Analytical Method: 8081B

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 09/24/2012 1455 Leachate Date: 09/21/2012 1949

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
gamma-BHC (Lindane)	ND	0.010	0.0084		1	105	70-130	09/27/2012 1425
Endrin	ND	0.010	0.0097		1	121	70-130	09/27/2012 1425
Heptachlor	ND	0.010	0.0083		1	104	70-130	09/27/2012 1425
Heptachlor epoxide	ND	0.010	0.0079		1	99	70-130	09/27/2012 1425
Methoxychlor	ND	0.010	0.0090		1	112	70-130	09/27/2012 1425

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		83	20-131
Tetrachloro-m-xylene		82	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Herbicides - MB

Sample ID: NQ93922-001
Batch: 93922
Analytical Method: 8151A

Matrix: Solid
Prep Method: 1311/8151A
Prep Date: 09/25/2012 948 Leachate Date: 09/21/2012 1949

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
2,4,5-TP (Silvex)	ND		1	0.0050	mg/L	09/28/2012 2236
2,4-D	ND		1	0.020	mg/L	09/28/2012 2236

Surrogate	Q	% Rec	Acceptance Limit
DCAA		90	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Herbicides - LCS

Sample ID: NQ93922-002
Batch: 93922
Analytical Method: 8151A

Matrix: Solid
Prep Method: 1311/8151A
Prep Date: 09/25/2012 948 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-TP (Silvex)	0.20	0.21		1	103	56-132	09/28/2012 2259
2,4-D	0.20	0.19		1	94	59-139	09/28/2012 2259

Surrogate	Q	% Rec	Acceptance Limit
DCAA		94	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Herbicides - MS

Sample ID: NI21030-001MS
Batch: 93922
Analytical Method: 8151A

Matrix: Solid
Prep Method: 1311/8151A
Prep Date: 09/25/2012 948 Leachate Date: 09/21/2012 1949

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4-D	ND	0.25	0.18		1	92	59-139	09/28/2012 2345
2,4,5-TP (Silvex)	ND	0.25	0.20		1	99	56-132	09/28/2012 2345

Surrogate	Q	% Rec	Acceptance Limit
DCAA		88	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - MB

Sample ID: NQ93833-001
Batch: 93833
Analytical Method: 6010C

Matrix: Solid
Prep Method: 1311/3010A
Prep Date: 09/24/2012 943 Leachate Date: 09/21/2012 1949

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		10	0.10	mg/L	09/29/2012 1614
Barium	ND		10	0.25	mg/L	09/29/2012 1614
Cadmium	ND		10	0.020	mg/L	09/29/2012 1614
Chromium	ND		10	0.050	mg/L	09/29/2012 1614
Lead	ND		10	0.10	mg/L	09/29/2012 1614
Selenium	ND		10	0.10	mg/L	09/29/2012 1614
Silver	ND		10	0.050	mg/L	09/29/2012 1614

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCS

Sample ID: NQ93833-002
Batch: 93833
Analytical Method: 6010C

Matrix: Solid
Prep Method: 1311/3010A
Prep Date: 09/24/2012 943 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	5.0	5.7		10	113	80-120	09/29/2012 1618
Barium	10	11		10	110	80-120	09/29/2012 1618
Cadmium	1.0	0.99		10	99	80-120	09/29/2012 1618
Chromium	5.0	5.8		10	115	80-120	09/29/2012 1618
Lead	5.0	5.0		10	100	80-120	09/29/2012 1618
Selenium	1.0	1.1		10	110	80-120	09/29/2012 1618
Silver	5.0	5.2		10	105	80-120	09/29/2012 1618

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCSD

Sample ID: NQ93833-003
Batch: 93833
Analytical Method: 6010C

Matrix: Solid
Prep Method: 1311/3010A
Prep Date: 09/24/2012 943 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	5.0	5.5		10	110	2.8	80-120	20	09/29/2012 1622
Barium	10	11		10	110	0.44	80-120	20	09/29/2012 1622
Cadmium	1.0	1.0		10	101	1.2	80-120	20	09/29/2012 1622
Chromium	5.0	5.8		10	115	0.16	80-120	20	09/29/2012 1622
Lead	5.0	5.1		10	101	1.1	80-120	20	09/29/2012 1622
Selenium	1.0	1.2		10	119	7.5	80-120	20	09/29/2012 1622
Silver	5.0	5.3		10	107	1.9	80-120	20	09/29/2012 1622

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - MB

Sample ID: NQ93963-001
Batch: 93963
Analytical Method: 7470A

Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 09/26/2012 1058 Leachate Date: 09/21/2012 1949

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	09/26/2012 1636

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCS

Sample ID: NQ93963-002
Batch: 93963
Analytical Method: 7470A

Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 09/26/2012 1058 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0021		1	106	85-115	09/26/2012 1644

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCSD

Sample ID: NQ93963-003
Batch: 93963
Analytical Method: 7470A

Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 09/26/2012 1058 Leachate Date: 09/21/2012 1949

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0020	0.0022		1	108	1.9	85-115	20	09/26/2012 1647

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - MS

Sample ID: NI21030-001MS
Batch: 93963
Analytical Method: 7470A

Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 09/26/2012 1058 Leachate Date: 09/21/2012 1949

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.0020	0.0020		1	102	85-115	09/26/2012 1659

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: **Newland**

Lot Number: **MA27031**
Date Completed: **02/18/2011**

N. Saikaly

Nisreen Saikaly
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: MA27031

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides
The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.

The MS/MSD recoveries for sample -001 in batch 51822 were outside acceptance criteria. All other QA/QC criteria for the batch were within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

Sample Summary
VEC Engineering, PLLC
Lot Number: MA27031

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Soil 1	Solid	01/25/2011	01/27/2011

(1 sample)

Executive Summary
VEC Engineering, PLLC
Lot Number: MA27031

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	Soil 1	Solid	Ignitability (Pensky-Martens Closed-	1010A	>140		° F	5
001	Soil 1	Solid	alpha-Chlordane	8081B	31		ug/kg	9
001	Soil 1	Solid	gamma-Chlordane	8081B	22	P	ug/kg	9
001	Soil 1	Solid	4,4'-DDD	8081B	12	P	ug/kg	9
001	Soil 1	Solid	4,4'-DDE	8081B	150		ug/kg	9
001	Soil 1	Solid	4,4'-DDT	8081B	310		ug/kg	9
001	Soil 1	Solid	Dieldrin	8081B	64		ug/kg	9
001	Soil 1	Solid	Endosulfan II	8081B	22	BP	ug/kg	9
001	Soil 1	Solid	Endrin aldehyde	8081B	37	P	ug/kg	9
001	Soil 1	Solid	Endrin ketone	8081B	9.1	P	ug/kg	9
001	Soil 1	Solid	Methoxychlor	8081B	38	P	ug/kg	9
001	Soil 1	Solid	Arsenic	6010C	0.15		mg/L	12

(12 detections)

Inorganic non-metals

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ignitability) 1010A	1	12/30/1899 1518	SAS		52040
1		(pH) 9045D	1	02/01/2011 1630	MML		51966
1		(Reactive Cya) 7.3.3	1	01/31/2011 1502	SMH		
1		(Reactive Sul) 7.3.4	1	01/31/2011 1545	SNM	01/31/2011 1242	

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ignitability (Pensky-Martens Closed-Cup)		**1010A**	**>140**			**° F**	**1**
pH		**9045D**	**5.23**	**H**	**0.000**	**su**	**1**
Reactive Cyanide		7.3.3	ND		50	mg/kg	1
Reactive Sulfide		7.3.4	ND		50	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

TCLP Volatiles

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/5030B	8260B	10	02/03/2011 2018	DLB		52091	02/02/2011 1555

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.050	mg/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		0.10	mg/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.050	mg/L	1
Chlorobenzene	108-90-7	8260B	ND		0.050	mg/L	1
Chloroform	67-66-3	8260B	ND		0.050	mg/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.050	mg/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.050	mg/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.050	mg/L	1
Trichloroethene	79-01-6	8260B	ND		0.050	mg/L	1
Vinyl chloride	75-01-4	8260B	ND		0.010	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		86	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

TCLP Semivolatiles

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/3520C	8270D	1	02/03/2011 2205	WD	02/01/2011 1421	51835	01/31/2011 1550

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dichlorobenzene	106-46-7	8270D	ND		0.050	mg/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		0.10	mg/L	1
Hexachlorobenzene	118-74-1	8270D	ND		0.050	mg/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		0.050	mg/L	1
Hexachloroethane	67-72-1	8270D	ND		0.050	mg/L	1
2-Methylphenol	95-48-7	8270D	ND		0.050	mg/L	1
3 & 4-Methylphenol	106-44-5	8270D	ND		0.10	mg/L	1
Nitrobenzene	98-95-3	8270D	ND		0.050	mg/L	1
Pentachlorophenol	87-86-5	8270D	ND		0.25	mg/L	1
Pyridine	110-86-1	8270D	ND		0.050	mg/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		0.050	mg/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		0.050	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		69	41-144
2-Fluorobiphenyl		79	37-129
2-Fluorophenol		81	24-127
Nitrobenzene-d5		86	38-127
Phenol-d5		71	28-128
Terphenyl-d14		74	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Herbicides by GC

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8151A	8151A	1	02/08/2011 1337	MPM	02/03/2011 0920	51988

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
2,4-D	94-75-7	8151A	ND		48	ug/kg	1
2,4,5-T	93-76-5	8151A	ND		12	ug/kg	1
2,4,5-TP (Silvex)	93-72-1	8151A	ND		12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
DCAA		73	44-114

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

Organochlorine Pesticides by GC

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	02/10/2011 0120	NCM	02/01/2011 1115	51822
2	3550C	8081B	20	02/14/2011 2254	NCM	02/01/2011 1115	51822

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	**5103-71-9**	**8081B**	**31**		**1.9**	**ug/kg**	**1**
gamma-Chlordane	**5103-74-2**	**8081B**	**22**	**P**	**1.9**	**ug/kg**	**1**
4,4'-DDD	**72-54-8**	**8081B**	**12**	**P**	**1.9**	**ug/kg**	**1**
4,4'-DDE	**72-55-9**	**8081B**	**150**		**39**	**ug/kg**	**2**
4,4'-DDT	**50-29-3**	**8081B**	**310**		**39**	**ug/kg**	**2**
Dieldrin	**60-57-1**	**8081B**	**64**		**39**	**ug/kg**	**2**
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	**33213-65-9**	**8081B**	**22**	**BP**	**1.9**	**ug/kg**	**1**
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	ND		39	ug/kg	2
Endrin aldehyde	**7421-93-4**	**8081B**	**37**	**P**	**1.9**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**9.1**	**P**	**1.9**	**ug/kg**	**1**
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	**72-43-5**	**8081B**	**38**	**P**	**7.6**	**ug/kg**	**1**
Toxaphene	8001-35-2	8081B	ND		1900	ug/kg	2

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		95	58-123		104	58-123
Tetrachloro-m-xylene		*87*	*51-104*		93	*51-104*

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

TCLP Herbicides

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/8151A	8151A	1	02/08/2011 1118	MPM	02/01/2011 1636	51870	01/31/2011 1550

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
2,4-D	94-75-7	8151A	ND		0.020	mg/L	1
2,4,5-TP (Silvex)	93-72-1	8151A	ND		0.0050	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
DCAA		78	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

TCLP Pesticides

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/3520C	8081B	1	02/09/2011 1717	NCM	02/01/2011 1421	51836	01/31/2011 1550

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.00050	mg/L	1
Chlordane	57-74-9	8081B	ND		0.0025	mg/L	1
Endrin	72-20-8	8081B	ND		0.00050	mg/L	1
Heptachlor	76-44-8	8081B	ND		0.00050	mg/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.00050	mg/L	1
Methoxychlor	72-43-5	8081B	ND		0.0020	mg/L	1
Toxaphene	8001-35-2	8081B	ND		0.0050	mg/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		94	49-124
Tetrachloro-m-xylene		100	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

TCLP Metals

Client: **VEC Engineering, PLLC**
Description: **Soil 1**
Date Sampled: **01/25/2011**
Date Received: **01/27/2011**

Laboratory ID: **MA27031-001**
Matrix: **Solid**
% Solids: **82.4** **01/27/2011 2346**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Leachate Date
1	1311/7470A	7470A	1	02/05/2011 0108	KJC	02/04/2011 1908	52153	01/31/2011 1550
1	1311/3010A	6010C	10	02/06/2011 1719	KJC	02/02/2011 1855	51969	01/31/2011 1550

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.15**		**0.10**	**mg/L**	**1**
Barium	7440-39-3	6010C	ND		0.25	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.050	mg/L	1
Lead	7439-92-1	6010C	ND		0.10	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00020	mg/L	1
Selenium	7782-49-2	6010C	ND		0.10	mg/L	1
Silver	7440-22-4	6010C	ND		0.050	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

QC Summary

TCLP Volatiles - MB

Sample ID: MQ52091-001
Batch: 52091
Analytical Method: 8260B

Matrix: Solid
Prep Method: 1311/5030B

Leachate Date: 02/02/2011 1555

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		10	0.050	mg/L	02/03/2011 1957
2-Butanone (MEK)	ND		10	0.10	mg/L	02/03/2011 1957
Carbon tetrachloride	ND		10	0.050	mg/L	02/03/2011 1957
Chlorobenzene	ND		10	0.050	mg/L	02/03/2011 1957
Chloroform	ND		10	0.050	mg/L	02/03/2011 1957
1,2-Dichloroethane	ND		10	0.050	mg/L	02/03/2011 1957
1,1-Dichloroethene	ND		10	0.050	mg/L	02/03/2011 1957
Tetrachloroethene	ND		10	0.050	mg/L	02/03/2011 1957
Trichloroethene	ND		10	0.050	mg/L	02/03/2011 1957
Vinyl chloride	ND		10	0.010	mg/L	02/03/2011 1957

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		87	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Volatiles - LCS

Sample ID: MQ52091-002
Batch: 52091
Analytical Method: 8260B

Matrix: Solid
Prep Method: 1311/5030B

Leachate Date: 02/02/2011 1555

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	0.50	0.47		10	95	72-127	02/03/2011 1936
2-Butanone (MEK)	1.0	0.82		10	82	60-140	02/03/2011 1936
Carbon tetrachloride	0.50	0.51		10	103	37-166	02/03/2011 1936
Chlorobenzene	0.50	0.50		10	101	78-129	02/03/2011 1936
Chloroform	0.50	0.47		10	94	63-123	02/03/2011 1936
1,2-Dichloroethane	0.50	0.51		10	103	59-143	02/03/2011 1936
1,1-Dichloroethene	0.50	0.46		10	92	50-132	02/03/2011 1936
Tetrachloroethene	0.50	0.54		10	107	70-130	02/03/2011 1936
Trichloroethene	0.50	0.48		10	96	73-124	02/03/2011 1936
Vinyl chloride	0.50	0.39		10	78	29-159	02/03/2011 1936

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	70-130
1,2-Dichloroethane-d4		92	70-130
Toluene-d8		84	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Volatiles - MS

Sample ID: MA27031-001MS
Batch: 52091
Analytical Method: 8260B

Matrix: Solid
Prep Method: 1311/5030B
Leachate Date: 02/02/2011 1555

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	ND	0.50	0.49		10	97	70-127	02/03/2011 2040
2-Butanone (MEK)	ND	1.0	0.88		10	88	60-140	02/03/2011 2040
Carbon tetrachloride	ND	0.50	0.52		10	104	37-166	02/03/2011 2040
Chlorobenzene	ND	0.50	0.51		10	103	78-129	02/03/2011 2040
Chloroform	ND	0.50	0.48		10	97	63-123	02/03/2011 2040
1,2-Dichloroethane	ND	0.50	0.52		10	104	59-143	02/03/2011 2040
1,1-Dichloroethene	ND	0.50	0.47		10	94	50-132	02/03/2011 2040
Tetrachloroethene	ND	0.50	0.55		10	109	70-130	02/03/2011 2040
Trichloroethene	ND	0.50	0.48		10	97	73-124	02/03/2011 2040
Vinyl chloride	ND	0.50	0.42		10	84	29-159	02/03/2011 2040

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Semivolatiles - MB

Sample ID: MQ51835-001
Batch: 51835
Analytical Method: 8270D

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 02/01/2011 1421 **Leachate Date:** 01/31/2011 1550

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dichlorobenzene	ND		1	0.050	mg/L	02/03/2011 2107
2,4,5-Trichlorophenol	ND		1	0.050	mg/L	02/03/2011 2107
2,4,6-Trichlorophenol	ND		1	0.050	mg/L	02/03/2011 2107
2,4-Dinitrotoluene	ND		1	0.10	mg/L	02/03/2011 2107
2-Methylphenol	ND		1	0.050	mg/L	02/03/2011 2107
3 & 4-Methylphenol	ND		1	0.10	mg/L	02/03/2011 2107
Hexachlorobenzene	ND		1	0.050	mg/L	02/03/2011 2107
Hexachlorobutadiene	ND		1	0.050	mg/L	02/03/2011 2107
Hexachloroethane	ND		1	0.050	mg/L	02/03/2011 2107
Nitrobenzene	ND		1	0.050	mg/L	02/03/2011 2107
Pentachlorophenol	ND		1	0.25	mg/L	02/03/2011 2107
Pyridine	ND		1	0.050	mg/L	02/03/2011 2107

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		87	41-144
2-Fluorobiphenyl		80	37-129
2-Fluorophenol		81	24-127
Nitrobenzene-d5		92	38-127
Phenol-d5		72	28-128
Terphenyl-d14		84	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Semivolatiles - LCS

Sample ID: MQ51835-002
Batch: 51835
Analytical Method: 8270D

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 02/01/2011 1421 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dichlorobenzene	1.0	0.83		1	83	30-130	02/03/2011 2126
2,4,5-Trichlorophenol	1.0	0.82		1	82	30-130	02/03/2011 2126
2,4,6-Trichlorophenol	1.0	0.53		1	53	30-130	02/03/2011 2126
2,4-Dinitrotoluene	1.0	0.69		1	69	30-130	02/03/2011 2126
2-Methylphenol	1.0	0.72		1	72	30-130	02/03/2011 2126
3 & 4-Methylphenol	2.0	1.5		1	74	30-130	02/03/2011 2126
Hexachlorobenzene	1.0	0.86		1	86	30-130	02/03/2011 2126
Hexachlorobutadiene	1.0	0.91		1	91	30-130	02/03/2011 2126
Hexachloroethane	1.0	0.86		1	86	30-130	02/03/2011 2126
Nitrobenzene	1.0	0.92		1	92	30-130	02/03/2011 2126
Pentachlorophenol	1.0	1.0		1	100	30-130	02/03/2011 2126
Pyridine	1.0	0.32		1	32	30-130	02/03/2011 2126

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		76	41-144
2-Fluorobiphenyl		81	37-129
2-Fluorophenol		80	24-127
Nitrobenzene-d5		87	38-127
Phenol-d5		78	28-128
Terphenyl-d14		77	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Semivolatiles - MS

Sample ID: MA27031-001MS
Batch: 51835
Analytical Method: 8270D

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 02/01/2011 1421 **Leachate Date:** 01/31/2011 1550

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dichlorobenzene	ND	1.2	0.83		1	83	30-130	02/03/2011 2224
2,4-Dinitrotoluene	ND	1.2	0.75		1	75	30-130	02/03/2011 2224
Hexachlorobenzene	ND	1.2	0.85		1	85	30-130	02/03/2011 2224
Hexachlorobutadiene	ND	1.2	0.92		1	92	30-130	02/03/2011 2224
Hexachloroethane	ND	1.2	0.86		1	86	30-130	02/03/2011 2224
2-Methylphenol	ND	1.2	0.73		1	73	30-130	02/03/2011 2224
3 & 4-Methylphenol	ND	2.4	1.4		1	70	30-130	02/03/2011 2224
Nitrobenzene	ND	1.2	0.98		1	98	30-130	02/03/2011 2224
Pentachlorophenol	ND	1.2	1.0		1	101	30-130	02/03/2011 2224
Pyridine	ND	1.2	0.43		1	43	30-130	02/03/2011 2224
2,4,5-Trichlorophenol	ND	1.2	0.91		1	91	30-130	02/03/2011 2224
2,4,6-Trichlorophenol	ND	1.2	0.52		1	52	30-130	02/03/2011 2224

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		80	41-144
2-Fluorobiphenyl		79	37-129
2-Fluorophenol		77	24-127
Nitrobenzene-d5		88	38-127
Phenol-d5		79	28-128
Terphenyl-d14		76	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: MQ51822-001
Batch: 51822
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/01/2011 1115

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	02/10/2011 0040
4,4'-DDE	ND		1	1.7	ug/kg	02/10/2011 0040
4,4'-DDT	ND		1	1.7	ug/kg	02/10/2011 0040
Aldrin	ND		1	1.7	ug/kg	02/10/2011 0040
alpha-BHC	ND		1	1.7	ug/kg	02/10/2011 0040
alpha-Chlordane	ND		1	1.7	ug/kg	02/10/2011 0040
beta-BHC	ND		1	1.7	ug/kg	02/10/2011 0040
delta-BHC	ND		1	1.7	ug/kg	02/10/2011 0040
Dieldrin	ND		1	1.7	ug/kg	02/10/2011 0040
Endosulfan I	ND		1	1.7	ug/kg	02/10/2011 0040
Endosulfan II	**2.1**		**1**	**1.7**	**ug/kg**	**02/10/2011 0040**
Endosulfan sulfate	ND		1	1.7	ug/kg	02/10/2011 0040
Endrin	ND		1	1.7	ug/kg	02/10/2011 0040
Endrin aldehyde	ND		1	1.7	ug/kg	02/10/2011 0040
Endrin ketone	ND		1	1.7	ug/kg	02/10/2011 0040
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	02/10/2011 0040
gamma-Chlordane	ND		1	1.7	ug/kg	02/10/2011 0040
Heptachlor	ND		1	1.7	ug/kg	02/10/2011 0040
Heptachlor epoxide	ND		1	1.7	ug/kg	02/10/2011 0040
Methoxychlor	ND		1	6.7	ug/kg	02/10/2011 0040
Toxaphene	ND		1	83	ug/kg	02/10/2011 0040

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		111	58-123
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: MQ51822-002
Batch: 51822
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/01/2011 1115

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	17		1	102	50-130	02/10/2011 0100
4,4'-DDE	17	18		1	104	50-130	02/10/2011 0100
4,4'-DDT	17	17		1	101	50-130	02/10/2011 0100
Aldrin	17	17		1	103	50-130	02/10/2011 0100
alpha-BHC	17	18		1	105	50-130	02/10/2011 0100
alpha-Chlordane	17	18		1	103	50-130	02/10/2011 0100
beta-BHC	17	17		1	98	50-130	02/10/2011 0100
delta-BHC	17	18		1	105	50-130	02/10/2011 0100
Dieldrin	17	18		1	107	50-130	02/10/2011 0100
Endosulfan I	17	17		1	102	50-130	02/10/2011 0100
Endosulfan II	17	20		1	119	50-130	02/10/2011 0100
Endosulfan sulfate	17	18		1	105	50-130	02/10/2011 0100
Endrin	17	19		1	110	50-130	02/10/2011 0100
Endrin aldehyde	17	17		1	98	50-130	02/10/2011 0100
Endrin ketone	17	20		1	116	50-130	02/10/2011 0100
gamma-BHC (Lindane)	17	20		1	116	50-130	02/10/2011 0100
gamma-Chlordane	17	18		1	106	50-130	02/10/2011 0100
Heptachlor	17	18		1	107	50-130	02/10/2011 0100
Heptachlor epoxide	17	17		1	102	50-130	02/10/2011 0100
Methoxychlor	17	19		1	109	50-130	02/10/2011 0100

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		110	58-123
Tetrachloro-m-xylene		87	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: MA27031-001MS
Batch: 51822
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/01/2011 1115

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	20	17		1	88	50-130	02/10/2011 0140
alpha-BHC	ND	20	17		1	87	50-130	02/10/2011 0140
beta-BHC	ND	20	16		1	83	50-130	02/10/2011 0140
delta-BHC	ND	20	16		1	81	50-130	02/10/2011 0140
gamma-BHC (Lindane)	ND	20	17		1	84	50-130	02/10/2011 0140
alpha-Chlordane	31	20	40	N	1	45	50-130	02/10/2011 0140
gamma-Chlordane	22	20	38		1	77	50-130	02/10/2011 0140
4,4'-DDD	12	20	35		1	118	50-130	02/10/2011 0140
4,4'-DDE	150	20	190	N	1	241	50-130	02/10/2011 0140
4,4'-DDT	310	20	450	N	1	225	50-130	02/10/2011 0140
Dieldrin	64	20	110	N	1	239	50-130	02/10/2011 0140
Endosulfan I	ND	20	21		1	103	50-130	02/10/2011 0140
Endosulfan II	22	20	26	N	1	22	50-130	02/10/2011 0140
Endosulfan sulfate	ND	20	37	N	1	184	50-130	02/10/2011 0140
Endrin	ND	20	31	N	1	-110	50-130	02/10/2011 0140
Endrin aldehyde	37	20	51	P	1	68	50-130	02/10/2011 0140
Endrin ketone	9.1	20	30	P	1	106	50-130	02/10/2011 0140
Heptachlor	ND	20	20		1	99	50-130	02/10/2011 0140
Heptachlor epoxide	ND	20	19		1	97	50-130	02/10/2011 0140
Methoxychlor	38	20	43	N	1	25	50-130	02/10/2011 0140

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		88	58-123
Tetrachloro-m-xylene		80	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: MA27031-001MD
Batch: 51822
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 02/01/2011 1115

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	20	17		1	83	4.3	50-130	30	02/10/2011 0200
alpha-BHC	ND	20	15		1	76	12	50-130	30	02/10/2011 0200
beta-BHC	ND	20	17	P	1	85	3.0	50-130	30	02/10/2011 0200
delta-BHC	ND	20	17	P	1	82	2.8	50-130	30	02/10/2011 0200
gamma-BHC (Lindane)	ND	20	16		1	79	5.3	50-130	30	02/10/2011 0200
alpha-Chlordane	31	20	38	N	1	33	6.0	50-130	30	02/10/2011 0200
gamma-Chlordane	22	20	36		1	67	5.1	50-130	30	02/10/2011 0200
4,4'-DDD	12	20	32		1	99	11	50-130	30	02/10/2011 0200
4,4'-DDE	150	20	170		1	129	12	50-130	30	02/10/2011 0200
4,4'-DDT	310	20	410	N	1	25	9.2	50-130	30	02/10/2011 0200
Dieldrin	64	20	89		1	118	24	50-130	30	02/10/2011 0200
Endosulfan I	ND	20	20		1	98	4.4	50-130	30	02/10/2011 0200
Endosulfan II	22	20	32	N	1	47	17	50-130	30	02/10/2011 0200
Endosulfan sulfate	ND	20	40	N	1	199	9.0	50-130	30	02/10/2011 0200
Endrin	ND	20	28	N	1	-126	11	50-130	30	02/10/2011 0200
Endrin aldehyde	37	20	42	N	1	24	19	50-130	30	02/10/2011 0200
Endrin ketone	9.1	20	27	P	1	87	12	50-130	30	02/10/2011 0200
Heptachlor	ND	20	19	P	1	97	1.2	50-130	30	02/10/2011 0200
Heptachlor epoxide	ND	20	19		1	94	3.0	50-130	30	02/10/2011 0200
Methoxychlor	38	20	41	N	1	14	5.2	50-130	30	02/10/2011 0200

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		81	58-123
Tetrachloro-m-xylene		72	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Pesticides - MB

Sample ID: MQ51836-001
Batch: 51836
Analytical Method: 8081B

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 02/01/2011 1421 **Leachate Date:** 01/31/2011 1550

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Chlordane	ND		1	0.0025	mg/L	02/09/2011 1636
Endrin	ND		1	0.00050	mg/L	02/09/2011 1636
gamma-BHC (Lindane)	ND		1	0.00050	mg/L	02/09/2011 1636
Heptachlor	ND		1	0.00050	mg/L	02/09/2011 1636
Heptachlor epoxide	ND		1	0.00050	mg/L	02/09/2011 1636
Methoxychlor	ND		1	0.0020	mg/L	02/09/2011 1636
Toxaphene	ND		1	0.0050	mg/L	02/09/2011 1636

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		92	49-124
Tetrachloro-m-xylene		92	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Pesticides - LCS

Sample ID: MQ51836-002
Batch: 51836
Analytical Method: 8081B

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 02/01/2011 1421 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Endrin	0.0080	0.0092		1	115	70-130	02/09/2011 1656
gamma-BHC (Lindane)	0.0080	0.0097		1	121	70-130	02/09/2011 1656
Heptachlor	0.0080	0.010		1	125	70-130	02/09/2011 1656
Heptachlor epoxide	0.0080	0.0087		1	109	70-130	02/09/2011 1656
Methoxychlor	0.0080	0.010		1	126	70-130	02/09/2011 1656

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		111	49-124
Tetrachloro-m-xylene		99	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Pesticides - MS

Sample ID: MA27031-001MS
Batch: 51836
Analytical Method: 8081B

Matrix: Solid
Prep Method: 1311/3520C
Prep Date: 02/01/2011 1421 **Leachate Date:** 01/31/2011 1550

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
gamma-BHC (Lindane)	ND	0.0097	0.0099		1	124	70-130	02/09/2011 1737
Endrin	ND	0.0097	0.0096		1	120	70-130	02/09/2011 1737
Heptachlor	ND	0.0097	0.0097		1	121	70-130	02/09/2011 1737
Heptachlor epoxide	ND	0.0097	0.0088		1	110	70-130	02/09/2011 1737
Methoxychlor	ND	0.0097	0.010		1	129	70-130	02/09/2011 1737

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		96	49-124
Tetrachloro-m-xylene		99	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Herbicides - MB

Sample ID: MQ51870-001
Batch: 51870
Analytical Method: 8151A

Matrix: Solid
Prep Method: 1311/8151A
Prep Date: 02/01/2011 1636 **Leachate Date:** 01/31/2011 1550

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
2,4,5-TP (Silvex)	ND		1	0.0050	mg/L	02/08/2011 1032
2,4-D	ND		1	0.020	mg/L	02/08/2011 1032

Surrogate	Q	% Rec	Acceptance Limit
DCAA		72	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Herbicides - LCS

Sample ID: MQ51870-002
Batch: 51870
Analytical Method: 8151A

Matrix: Solid
Prep Method: 1311/8151A
Prep Date: 02/01/2011 1636 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-TP (Silvex)	0.20	0.18		1	91	56-132	02/08/2011 1055
2,4-D	0.20	0.17		1	86	59-139	02/08/2011 1055

Surrogate	Q	% Rec	Acceptance Limit
DCAA		73	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Herbicides - MS

Sample ID: MA27031-001MS
Batch: 51870
Analytical Method: 8151A

Matrix: Solid
Prep Method: 1311/8151A
Prep Date: 02/01/2011 1636 **Leachate Date:** 01/31/2011 1550

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4-D	ND	0.24	0.18		1	92	59-139	02/08/2011 1141
2,4,5-TP (Silvex)	ND	0.24	0.19		1	97	56-132	02/08/2011 1141

Surrogate	Q	% Rec	Acceptance Limit
DCAA		77	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MB

Sample ID: MQ51988-001
Batch: 51988
Analytical Method: 8151A

Matrix: Solid
Prep Method: 8151A
Prep Date: 02/03/2011 920

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
2,4,5-T	ND		1	10	ug/kg	02/08/2011 1228
2,4,5-TP (Silvex)	ND		1	10	ug/kg	02/08/2011 1228
2,4-D	ND		1	40	ug/kg	02/08/2011 1228

Surrogate	Q	% Rec	Acceptance Limit
DCAA		65	44-114

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - LCS

Sample ID: MQ51988-002
Batch: 51988
Analytical Method: 8151A

Matrix: Solid
Prep Method: 8151A
Prep Date: 02/03/2011 920

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-T	200	200		1	100	58-129	02/08/2011 1251
2,4,5-TP (Silvex)	200	200		1	98	58-135	02/08/2011 1251
2,4-D	200	210		1	104	63-142	02/08/2011 1251

Surrogate	Q	% Rec	Acceptance Limit
DCAA		73	44-114

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - LCSD

Sample ID: MQ51988-003
Batch: 51988
Analytical Method: 8151A

Matrix: Solid
Prep Method: 8151A
Prep Date: 02/03/2011 920

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2,4,5-T	200	200		1	98	1.9	58-129	40	02/08/2011 1314
2,4,5-TP (Silvex)	200	190		1	96	2.1	58-135	40	02/08/2011 1314
2,4-D	200	200		1	101	2.3	63-142	40	02/08/2011 1314

Surrogate	Q	% Rec	Acceptance Limit
DCAA		70	44-114

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - MB

Sample ID: MQ51969-001
Batch: 51969
Analytical Method: 6010C

Matrix: Solid
Prep Method: 1311/3010A
Prep Date: 02/02/2011 1855 **Leachate Date:** 01/31/2011 1550

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		10	0.10	mg/L	02/06/2011 1708
Barium	ND		10	0.25	mg/L	02/06/2011 1708
Cadmium	ND		10	0.020	mg/L	02/06/2011 1708
Chromium	ND		10	0.050	mg/L	02/06/2011 1708
Lead	ND		10	0.10	mg/L	02/06/2011 1708
Selenium	ND		10	0.10	mg/L	02/06/2011 1708
Silver	ND		10	0.050	mg/L	02/06/2011 1708

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCS

Sample ID: MQ51969-002
Batch: 51969
Analytical Method: 6010C

Matrix: Solid
Prep Method: 1311/3010A
Prep Date: 02/02/2011 1855 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	5.0	5.1		10	102	80-120	02/06/2011 1712
Barium	10	10		10	105	80-120	02/06/2011 1712
Cadmium	1.0	1.0		10	101	80-120	02/06/2011 1712
Chromium	5.0	5.1		10	102	80-120	02/06/2011 1712
Lead	5.0	5.2		10	103	80-120	02/06/2011 1712
Selenium	1.0	0.96		10	96	80-120	02/06/2011 1712
Silver	5.0	5.2		10	104	80-120	02/06/2011 1712

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCSD

Sample ID: MQ51969-003 **Matrix:** Solid
Batch: 51969 **Prep Method:** 1311/3010A
Analytical Method: 6010C **Prep Date:** 02/02/2011 1855 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	5.0	5.1		10	103	0.54	80-120	20	02/06/2011 1716
Barium	10	11		10	106	1.0	80-120	20	02/06/2011 1716
Cadmium	1.0	1.0		10	102	1.2	80-120	20	02/06/2011 1716
Chromium	5.0	5.1		10	103	0.73	80-120	20	02/06/2011 1716
Lead	5.0	5.2		10	104	0.38	80-120	20	02/06/2011 1716
Selenium	1.0	1.0		10	101	5.4	80-120	20	02/06/2011 1716
Silver	5.0	5.1		10	102	1.5	80-120	20	02/06/2011 1716

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N - Recovery is out of criteria
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - MS

Sample ID: MA27031-001MS
Batch: 51969
Analytical Method: 6010C

Matrix: Solid
Prep Method: 1311/3010A
Prep Date: 02/02/2011 1855 **Leachate Date:** 01/31/2011 1550

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.15	5.0	4.8		10	93	75-125	02/06/2011 1723
Barium	ND	10	10		10	100	75-125	02/06/2011 1723
Cadmium	ND	1.0	0.96		10	96	75-125	02/06/2011 1723
Chromium	ND	5.0	4.8		10	97	75-125	02/06/2011 1723
Lead	ND	5.0	4.9		10	97	75-125	02/06/2011 1723
Selenium	ND	1.0	0.93		10	93	75-125	02/06/2011 1723
Silver	ND	5.0	4.9		10	97	75-125	02/06/2011 1723

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - MB

Sample ID: MQ52153-001
Batch: 52153
Analytical Method: 7470A

Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 02/04/2011 1908 **Leachate Date:** 01/31/2011 1550

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.00020	mg/L	02/05/2011 0100

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCS

Sample ID: MQ52153-002
Batch: 52153
Analytical Method: 7470A

Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 02/04/2011 1908 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0021		1	107	85-115	02/05/2011 0103

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TCLP Metals - LCSD

Sample ID: MQ52153-003
Batch: 52153
Analytical Method: 7470A

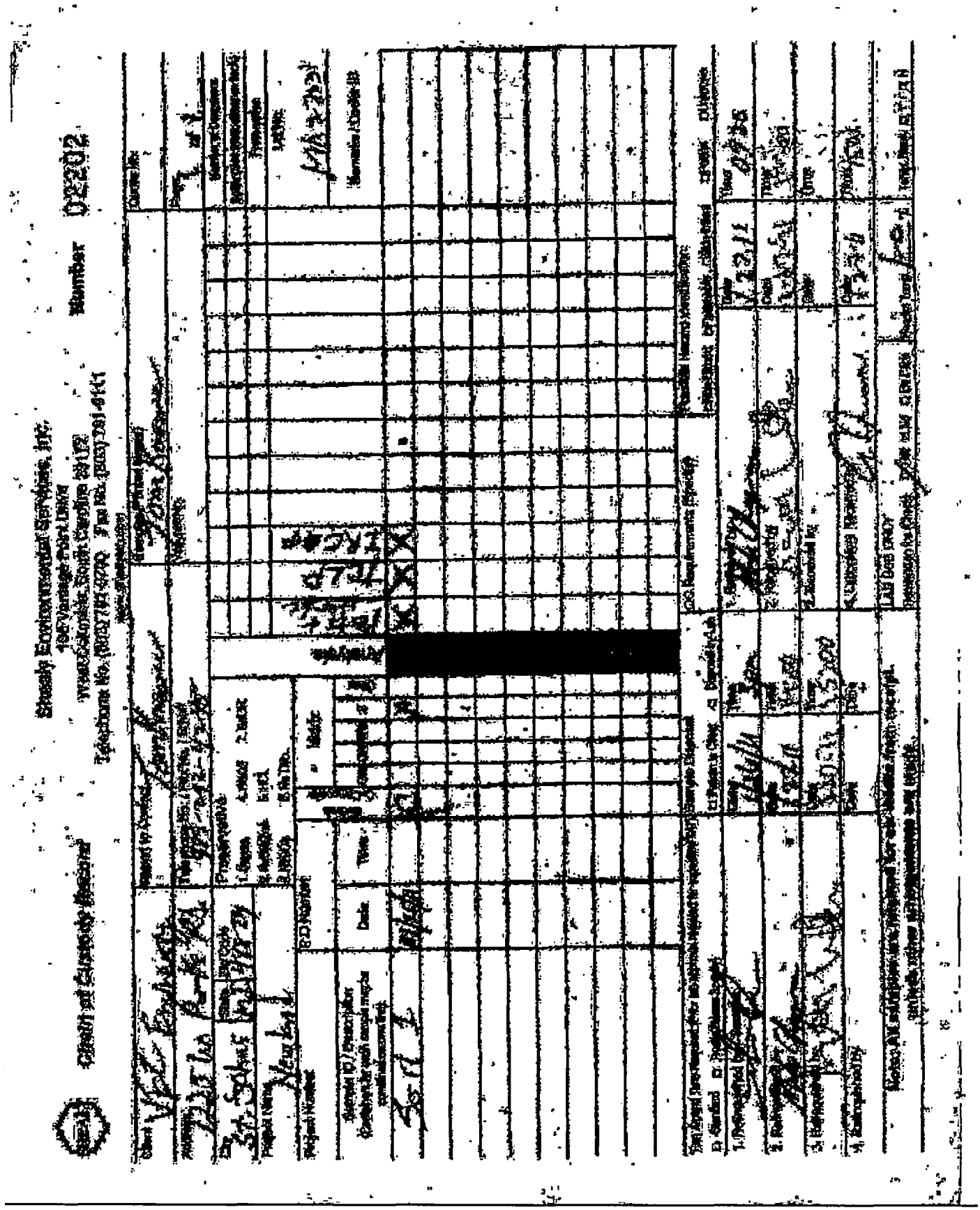
Matrix: Solid
Prep Method: 1311/7470A
Prep Date: 02/04/2011 1908 **Leachate Date:** 01/31/2011 1550

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0020	0.0021		1	105	1.9	85-115	20	02/05/2011 0106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results



Shealy Environmental Services, Inc.
Policy Number: 3.10-240
Revision Number: 6

Page 1 of 2
Replaces Date: 10/20/06
Effective Date: 6/29/07

Sample Receipt Checklist (SRC)

Client: _____ Cooler Inspected by/date/time: _____ Lot #: _____

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☐	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: _____ °C _____ °C _____ °C _____ °C
_____ °C _____ °C _____ °C _____ °C

Method: ☐ Temperature Blank ☐ Against Bottles
Method of coolant: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No or Yes for 14, 15, 16, an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☐	3. If temperature of the cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial couriers, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☐	4. Is the temperature blank or a packing slip attached for this form?
Yes ☐	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☐	6. Were samples IDs listed?
Yes ☐	No ☐	NA ☐	7. Was collection date & time listed? Mat [illegible] Ca, Cu, Fe, Mg, Mn, Na, Sr, Zn
Yes ☐	No ☐	NA ☐	8. Were tests to be performed listed on the COC or with quote # provided?
Yes ☐	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☐	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☐	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☐	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☐	NA ☐	13. Were all samples received within 5 the holding time or 48 hours, whichever comes first?
Yes ☐	No ☐	NA ☐	14. Were any samples containers mislabeled?
Yes ☐	No ☐	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☐	16. Were bubbles present > "pea size" (2 mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☐	17. Were all metals (except Hg/CrVI/field parameters) received at a pH of <2?
Yes ☐	No ☐	NA ☐	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☐	19. Were all applicable NH3/TKN/cyanide/phenol/TOC/Aroc/PCB/herb (<5.2 mg/L) and toxicity (<0.1 mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☐	20. Were collected temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H2SO4, HNO3, HCl, NaOH) with the SR # (initials).

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3.

TKN/cyanide/TOC/phenol/Aroc/PCB/herb.

Total/dissolved sample(s) _____ were received with TRC >0.1 mg/L and were not filtered within 15 minutes.

Corrective Action Taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond Yes ☐ No ☐

SOP employed? _____ Date of response? _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Lot Number:MC23036
Date Completed:04/13/2011

Nisreen Saikaly
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: MC23036

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Shealy is not NELAC certified for Phosphorus by 365.1 but is certified in SC and NC.

Shealy is not NELAC certified for VPH, but is certified for VPH in NC.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The initial analysis of sample -001 is associated with batch 55696. This batch has the LCS recovery for Endosulfan I outside the acceptance limits. The sample was re-extracted outside the holding time. All runs are reported.

Herbicides

The LCS recovery is below method control limits in batch 56149. Sample -001 is associated with this batch. There was no sample remaining for the re-extraction. Sample results are reported.

Sample Summary
VEC Engineering, PLLC
Lot Number: MC23036

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Well	Aqueous	03/22/2011 1100	03/23/2011

(1 sample)

Executive Summary
VEC Engineering, PLLC
Lot Number: MC23036

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	Well	Aqueous	beta-BHC	8081B	0.040		ug/L	6
001	Well	Aqueous	Dieldrin	8081B	0.12		ug/L	6
001	Well	Aqueous	Endrin ketone	8081B	0.044		ug/L	6
001	Well	Aqueous	beta-BHC	8081B	0.040	H	ug/L	7
001	Well	Aqueous	Dieldrin	8081B	0.12	H	ug/L	7
001	Well	Aqueous	Endrin ketone	8081B	0.049	H	ug/L	7

(6 detections)

Herbicides by GC

Client: VEC Engineering, PLLC
Description: Well
Date Sampled: 03/22/2011 1100
Date Received: 03/23/2011

Laboratory ID: MC23036-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8151A	8151A	1	04/04/2011 1547	MPM	03/29/2011 1710	56149

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
2,4-D	94-75-7	8151A	ND		2.0	ug/L	1
2,4,5-T	93-76-5	8151A	ND		0.51	ug/L	1
2,4,5-TP (Silvex)	93-72-1	8151A	ND		0.51	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
DCAA		86	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: Well
Date Sampled: 03/22/2011 1100
Date Received: 03/23/2011

Laboratory ID: MC23036-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	03/31/2011 0129	NCM	03/24/2011 1515	55696
2	3520C	8081B	1	04/12/2011 0339	NCM	04/05/2011 1050	56646

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.026	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.026	ug/L	1
beta-BHC	319-85-7	8081B	0.040		0.026	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.026	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.026	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.026	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.026	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.026	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.026	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.026	ug/L	1
Dieldrin	60-57-1	8081B	0.12		0.026	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.026	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.026	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.026	ug/L	1
Endrin	72-20-8	8081B	ND		0.026	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.026	ug/L	1
Endrin ketone	53494-70-5	8081B	0.044		0.026	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.026	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.026	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.26	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	13	20-131	HN	16	20-131
Tetrachloro-m-xylene		81	26-132	H	69	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: Well
Date Sampled: 03/22/2011 1100
Date Received: 03/23/2011

Laboratory ID: MC23036-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	03/31/2011 0129	NCM	03/24/2011 1515	55696
2	3520C	8081B	1	04/12/2011 0339	NCM	04/05/2011 1050	56646

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND	H	0.026	ug/L	2
alpha-BHC	319-84-6	8081B	ND	H	0.026	ug/L	2
beta-BHC	319-85-7	8081B	0.040	H	0.026	ug/L	2
delta-BHC	319-86-8	8081B	ND	H	0.026	ug/L	2
gamma-BHC (Lindane)	58-89-9	8081B	ND	H	0.026	ug/L	2
alpha-Chlordane	5103-71-9	8081B	ND	H	0.026	ug/L	2
gamma-Chlordane	5103-74-2	8081B	ND	H	0.026	ug/L	2
4,4'-DDD	72-54-8	8081B	ND	H	0.026	ug/L	2
4,4'-DDE	72-55-9	8081B	ND	H	0.026	ug/L	2
4,4'-DDT	50-29-3	8081B	ND	H	0.026	ug/L	2
Dieldrin	60-57-1	8081B	0.12	H	0.026	ug/L	2
Endosulfan I	959-98-8	8081B	ND	H	0.026	ug/L	2
Endosulfan II	33213-65-9	8081B	ND	H	0.026	ug/L	2
Endosulfan sulfate	1031-07-8	8081B	ND	H	0.026	ug/L	2
Endrin	72-20-8	8081B	ND	H	0.026	ug/L	2
Endrin aldehyde	7421-93-4	8081B	ND	H	0.026	ug/L	2
Endrin ketone	53494-70-5	8081B	0.049	H	0.026	ug/L	2
Heptachlor	76-44-8	8081B	ND	H	0.026	ug/L	2
Heptachlor epoxide	1024-57-3	8081B	ND	H	0.026	ug/L	2
Methoxychlor	72-43-5	8081B	ND	H	0.10	ug/L	2
Toxaphene	8001-35-2	8081B	ND	H	0.26	ug/L	2

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl	N	13	20-131	HN	16	20-131
Tetrachloro-m-xylene		81	26-132	H	69	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

QC Summary

Organochlorine Pesticides by GC - MB

Sample ID: MQ55696-001
Batch: 55696
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 03/24/2011 1515

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	ug/L	03/30/2011 2228
4,4'-DDE	ND		1	0.025	ug/L	03/30/2011 2228
4,4'-DDT	ND		1	0.025	ug/L	03/30/2011 2228
Aldrin	ND		1	0.025	ug/L	03/30/2011 2228
alpha-BHC	ND		1	0.025	ug/L	03/30/2011 2228
alpha-Chlordane	ND		1	0.025	ug/L	03/30/2011 2228
beta-BHC	ND		1	0.025	ug/L	03/30/2011 2228
delta-BHC	ND		1	0.025	ug/L	03/30/2011 2228
Dieldrin	ND		1	0.025	ug/L	03/30/2011 2228
Endosulfan I	ND		1	0.025	ug/L	03/30/2011 2228
Endosulfan II	ND		1	0.025	ug/L	03/30/2011 2228
Endosulfan sulfate	ND		1	0.025	ug/L	03/30/2011 2228
Endrin	ND		1	0.025	ug/L	03/30/2011 2228
Endrin aldehyde	ND		1	0.025	ug/L	03/30/2011 2228
Endrin ketone	ND		1	0.025	ug/L	03/30/2011 2228
gamma-BHC (Lindane)	ND		1	0.025	ug/L	03/30/2011 2228
gamma-Chlordane	ND		1	0.025	ug/L	03/30/2011 2228
Heptachlor	ND		1	0.025	ug/L	03/30/2011 2228
Heptachlor epoxide	ND		1	0.025	ug/L	03/30/2011 2228
Methoxychlor	ND		1	0.10	ug/L	03/30/2011 2228
Toxaphene	ND		1	0.25	ug/L	03/30/2011 2228

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		71	20-131
Tetrachloro-m-xylene		91	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: MQ55696-002
Batch: 55696
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 03/24/2011 1515

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.59		1	118	70-130	03/30/2011 2248
4,4'-DDE	0.50	0.57		1	114	70-130	03/30/2011 2248
4,4'-DDT	0.50	0.61		1	123	70-130	03/30/2011 2248
Aldrin	0.50	0.51		1	102	70-130	03/30/2011 2248
alpha-BHC	0.50	0.55		1	109	70-130	03/30/2011 2248
beta-BHC	0.50	0.55		1	109	70-130	03/30/2011 2248
delta-BHC	0.50	0.58		1	117	70-130	03/30/2011 2248
Dieldrin	0.50	0.57		1	114	70-130	03/30/2011 2248
Endosulfan I	0.50	0.30	N	1	60	70-130	03/30/2011 2248
Endosulfan II	0.50	0.35		1	70	70-130	03/30/2011 2248
Endosulfan sulfate	0.50	0.55		1	111	70-130	03/30/2011 2248
Endrin	0.50	0.62		1	123	70-130	03/30/2011 2248
Endrin aldehyde	0.50	0.50		1	101	70-130	03/30/2011 2248
gamma-BHC (Lindane)	0.50	0.59		1	117	70-130	03/30/2011 2248
gamma-Chlordane	0.50	0.56		1	113	70-130	03/30/2011 2248
Heptachlor	0.50	0.54		1	109	70-130	03/30/2011 2248
Heptachlor epoxide	0.50	0.54		1	109	70-130	03/30/2011 2248
Methoxychlor	0.50	0.58		1	116	70-130	03/30/2011 2248

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		52	20-131
Tetrachloro-m-xylene		92	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MB

Sample ID: MQ56149-001
Batch: 56149
Analytical Method: 8151A

Matrix: Aqueous
Prep Method: 8151A
Prep Date: 03/29/2011 1710

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
2,4,5-T	ND		1	0.50	ug/L	04/04/2011 1500
2,4,5-TP (Silvex)	ND		1	0.50	ug/L	04/04/2011 1500
2,4-D	ND		1	2.0	ug/L	04/04/2011 1500

Surrogate	Q	% Rec	Acceptance Limit
DCAA		74	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - LCS

Sample ID: MQ56149-002
Batch: 56149
Analytical Method: 8151A

Matrix: Aqueous
Prep Method: 8151A
Prep Date: 03/29/2011 1710

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4,5-T	10	6.3	N	1	63	70-130	04/04/2011 1523
2,4,5-TP (Silvex)	10	6.5	N	1	65	70-130	04/04/2011 1523
2,4-D	10	6.8	N	1	68	70-130	04/04/2011 1523

Surrogate	Q	% Rec	Acceptance Limit
DCAA		63	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MS

Sample ID: MC23036-001MS
Batch: 56149
Analytical Method: 8151A

Matrix: Aqueous
Prep Method: 8151A
Prep Date: 03/29/2011 1710

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
2,4-D	ND	11	13		1	121	70-130	04/04/2011 1611
2,4,5-T	ND	11	9.8		1	93	70-130	04/04/2011 1611
2,4,5-TP (Silvex)	ND	11	10		1	97	70-130	04/04/2011 1611

Surrogate	Q	% Rec	Acceptance Limit
DCAA		90	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Herbicides by GC - MSD

Sample ID: MC23036-001MD
Batch: 56149
Analytical Method: 8151A

Matrix: Aqueous
Prep Method: 8151A
Prep Date: 03/29/2011 1710

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
2,4-D	ND	10	11		1	113	10	70-130	40	04/04/2011 1634
2,4,5-T	ND	10	9.4		1	93	3.5	70-130	40	04/04/2011 1634
2,4,5-TP (Silvex)	ND	10	9.7		1	96	4.4	70-130	40	04/04/2011 1634

Surrogate	Q	% Rec	Acceptance Limit
DCAA		89	62-117

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: MQ56646-001
Batch: 56646
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 04/05/2011 1050

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	ug/L	04/12/2011 0139
4,4'-DDE	ND		1	0.025	ug/L	04/12/2011 0139
4,4'-DDT	ND		1	0.025	ug/L	04/12/2011 0139
Aldrin	ND		1	0.025	ug/L	04/12/2011 0139
alpha-BHC	ND		1	0.025	ug/L	04/12/2011 0139
alpha-Chlordane	ND		1	0.025	ug/L	04/12/2011 0139
beta-BHC	ND		1	0.025	ug/L	04/12/2011 0139
delta-BHC	ND		1	0.025	ug/L	04/12/2011 0139
Dieldrin	ND		1	0.025	ug/L	04/12/2011 0139
Endosulfan I	ND		1	0.025	ug/L	04/12/2011 0139
Endosulfan II	ND		1	0.025	ug/L	04/12/2011 0139
Endosulfan sulfate	ND		1	0.025	ug/L	04/12/2011 0139
Endrin	ND		1	0.025	ug/L	04/12/2011 0139
Endrin aldehyde	ND		1	0.025	ug/L	04/12/2011 0139
Endrin ketone	ND		1	0.025	ug/L	04/12/2011 0139
gamma-BHC (Lindane)	ND		1	0.025	ug/L	04/12/2011 0139
gamma-Chlordane	ND		1	0.025	ug/L	04/12/2011 0139
Heptachlor	ND		1	0.025	ug/L	04/12/2011 0139
Heptachlor epoxide	ND		1	0.025	ug/L	04/12/2011 0139
Methoxychlor	ND		1	0.10	ug/L	04/12/2011 0139
Toxaphene	ND		1	0.25	ug/L	04/12/2011 0139

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		63	20-131
Tetrachloro-m-xylene		78	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: MQ56646-002
Batch: 56646
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 04/05/2011 1050

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.48		1	96	70-130	04/12/2011 0159
4,4'-DDE	0.50	0.47		1	94	70-130	04/12/2011 0159
4,4'-DDT	0.50	0.47		1	93	70-130	04/12/2011 0159
Aldrin	0.50	0.46		1	91	70-130	04/12/2011 0159
alpha-BHC	0.50	0.41		1	83	70-130	04/12/2011 0159
beta-BHC	0.50	0.44		1	89	70-130	04/12/2011 0159
delta-BHC	0.50	0.46		1	91	70-130	04/12/2011 0159
Dieldrin	0.50	0.47		1	94	70-130	04/12/2011 0159
Endosulfan I	0.50	0.40		1	79	70-130	04/12/2011 0159
Endosulfan II	0.50	0.46		1	92	70-130	04/12/2011 0159
Endosulfan sulfate	0.50	0.45		1	90	70-130	04/12/2011 0159
Endrin	0.50	0.51		1	102	70-130	04/12/2011 0159
Endrin aldehyde	0.50	0.48		1	97	70-130	04/12/2011 0159
gamma-BHC (Lindane)	0.50	0.48		1	96	70-130	04/12/2011 0159
gamma-Chlordane	0.50	0.47		1	94	70-130	04/12/2011 0159
Heptachlor	0.50	0.39		1	78	70-130	04/12/2011 0159
Heptachlor epoxide	0.50	0.45		1	90	70-130	04/12/2011 0159
Methoxychlor	0.50	0.45		1	91	70-130	04/12/2011 0159

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		88	20-131
Tetrachloro-m-xylene		79	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: MC23036-001MS
Batch: 56646
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 04/05/2011 1050

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	1.0	0.77		1	76	70-130	04/12/2011 0400
alpha-BHC	ND	1.0	0.86		1	85	70-130	04/12/2011 0400
beta-BHC	0.040	1.0	0.97		1	91	70-130	04/12/2011 0400
delta-BHC	ND	1.0	1.0		1	100	70-130	04/12/2011 0400
gamma-BHC (Lindane)	ND	1.0	1.0		1	99	70-130	04/12/2011 0400
gamma-Chlordane	ND	1.0	1.2		1	117	70-130	04/12/2011 0400
4,4'-DDD	ND	1.0	0.99		1	97	70-130	04/12/2011 0400
4,4'-DDE	ND	1.0	0.81		1	80	70-130	04/12/2011 0400
4,4'-DDT	ND	1.0	0.80		1	78	70-130	04/12/2011 0400
Dieldrin	0.12	1.0	1.1		1	97	70-130	04/12/2011 0400
Endosulfan I	ND	1.0	0.78		1	76	70-130	04/12/2011 0400
Endosulfan II	ND	1.0	1.0		1	100	70-130	04/12/2011 0400
Endosulfan sulfate	ND	1.0	0.96		1	94	70-130	04/12/2011 0400
Endrin	ND	1.0	1.1	P	1	108	70-130	04/12/2011 0400
Endrin aldehyde	ND	1.0	1.1		1	104	70-130	04/12/2011 0400
Heptachlor	ND	1.0	0.71	N	1	69	70-130	04/12/2011 0400
Heptachlor epoxide	ND	1.0	0.96		1	94	70-130	04/12/2011 0400
Methoxychlor	ND	1.0	0.89		1	88	70-130	04/12/2011 0400

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		24	20-131
Tetrachloro-m-xylene		76	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: MC23036-001MD
Batch: 56646
Analytical Method: 8081B

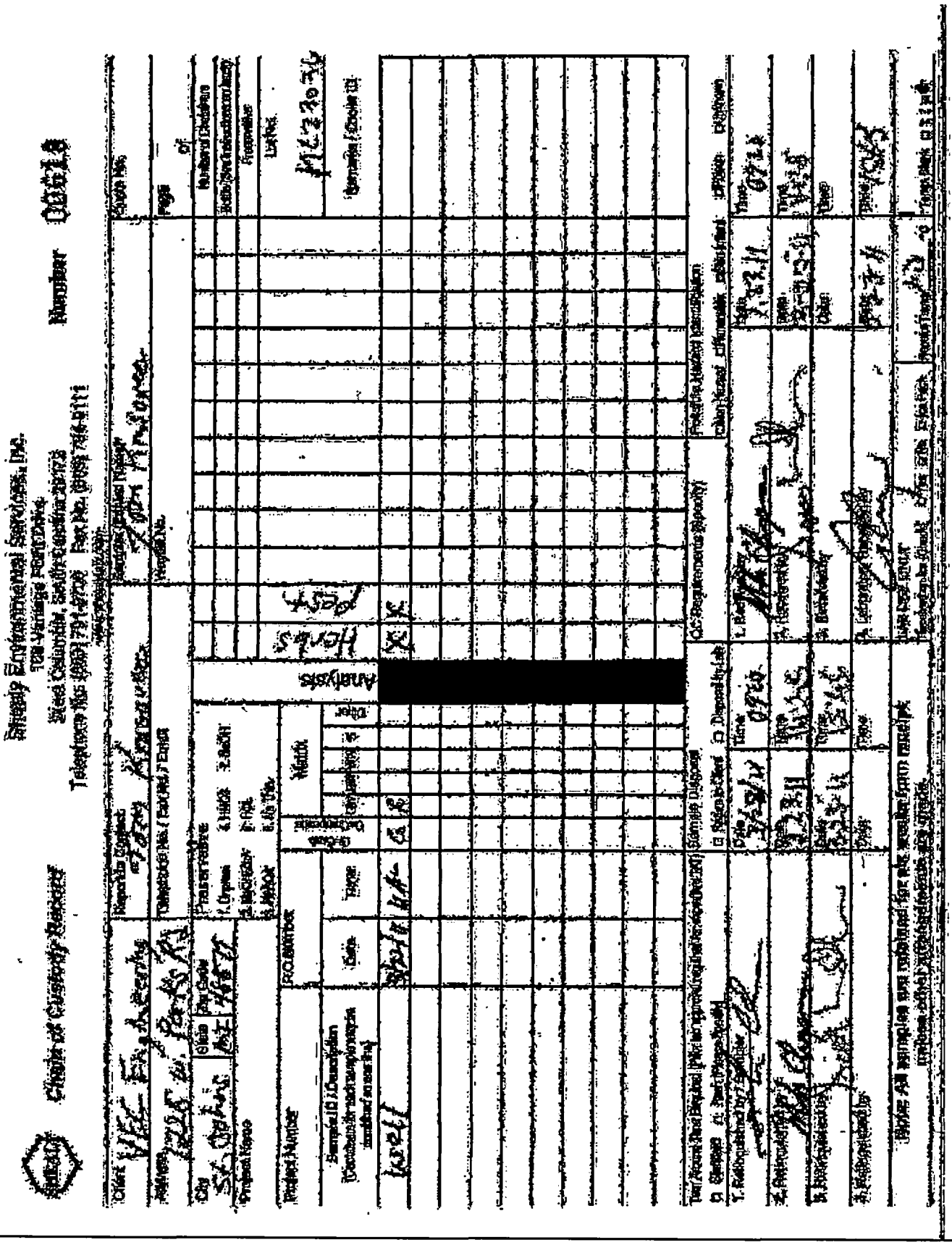
Matrix: Aqueous
Prep Method: 3520C
Prep Date: 04/05/2011 1050

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	1.0	0.61	N	1	60	23	70-130	30	04/12/2011 0420
alpha-BHC	ND	1.0	0.86		1	84	0.41	70-130	30	04/12/2011 0420
beta-BHC	0.040	1.0	0.96		1	90	1.1	70-130	30	04/12/2011 0420
delta-BHC	ND	1.0	1.0		1	100	0.16	70-130	30	04/12/2011 0420
gamma-BHC (Lindane)	ND	1.0	1.0		1	98	0.87	70-130	30	04/12/2011 0420
gamma-Chlordane	ND	1.0	0.89	P	1	87	29	70-130	30	04/12/2011 0420
4,4'-DDD	ND	1.0	1.0		1	98	0.25	70-130	30	04/12/2011 0420
4,4'-DDE	ND	1.0	0.67	N	1	66	20	70-130	30	04/12/2011 0420
4,4'-DDT	ND	1.0	0.68	N	1	66	17	70-130	30	04/12/2011 0420
Dieldrin	0.12	1.0	1.2		1	101	3.6	70-130	30	04/12/2011 0420
Endosulfan I	ND	1.0	0.72		1	71	7.0	70-130	30	04/12/2011 0420
Endosulfan II	ND	1.0	1.2	P	1	116	14	70-130	30	04/12/2011 0420
Endosulfan sulfate	ND	1.0	0.97		1	95	0.82	70-130	30	04/12/2011 0420
Endrin	ND	1.0	1.2	P	1	120	10	70-130	30	04/12/2011 0420
Endrin aldehyde	ND	1.0	1.1		1	106	1.1	70-130	30	04/12/2011 0420
Heptachlor	ND	1.0	0.67	N	1	66	5.0	70-130	30	04/12/2011 0420
Heptachlor epoxide	ND	1.0	0.95		1	93	0.92	70-130	30	04/12/2011 0420
Methoxychlor	ND	1.0	0.86		1	84	3.7	70-130	30	04/12/2011 0420

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	17	20-131
Tetrachloro-m-xylene		75	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results



Sample Receipt Checklist (SRC)

Client: [illegible] Cooler Inspected by/date: [illegible] Lot #: [illegible]

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☑		2. If custody seals were present, were they intact and unbroken?

Cooler Temperature upon receipt: [illegible] °C [illegible] °C [illegible] °C [illegible] °C [illegible] °C [illegible] °C [illegible] °C [illegible] °C

Method: ☐ Temperature Blank ☑ Acetone Bottles
Method of ambient: ☐ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note [circle one], other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☐	4. Is the temperature blank or packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed?
Yes ☑	No ☐		7. Was sampling date & time listed?
Yes ☑	No ☐		8. Were tests to be performed listed on the COC?
Yes ☑	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		12. Was adequate sample volume available?
Yes ☑	No ☐		13. Were all samples received within holding time or 48 hours, whichever came first?
Yes ☐	No ☑		14. Were any samples containers missing?
Yes ☐	No ☑		15. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☑	16. Were bubbles present > pea size (> ¼" in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals (except Hg/CrVI) in aqueous samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable MTBE/BTEX/naphthalene/phenol/8015/PCB/Soil (Cr6) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H2SO4, HNO3, HCl, NaOH) with the SR # (number).

Sample(s) _____ were received with bubbles > ¼" in diameter.

Sample(s) _____ were received with TRC > 0.2 mg/L. See SR#: _____

TNTC = Too Numerous To Count, N/A = Not Applicable, PC = Client

Corrective Action Taken, if necessary:

Was client notified: Yes ☐ No ☐ Will client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

VEC Engineering, PLLC
1225 West Parks Road
Saint Johns, MI 48879
Attention: Thomas J. Krasovec

Project Name: Newland

Lot Number: MG21058
Date Completed: 08/12/2011

Nisreen Saikaly
Project Manager

ACCREDITED IN ACCORDANCE WITH

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
VEC Engineering, PLLC
Lot Number: MG21058

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Shealy is not NELAC certified for Phosphorus by 365.1 but is certified in SC and NC.

Shealy is not NELAC certified for VPH, but is certified for VPH in NC.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides

The sample results associated with a P qualifier have a relative percent difference (RPD) between the two dissimilar phase GC columns which exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to disparity of the two results, it is likely that the reported results are biased high, or maybe a false positive.
Dilutions greater than 5X impact the surrogate and MS/MSD recoveries, thus negating their usefulness concerning quality control. The sample results are reported and no corrective action is required.

Sample Summary
VEC Engineering, PLLC
Lot Number: MG21058

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	EX 1-N1	Solid	07/20/2011	07/21/2011
002	EX 1-S1	Solid	07/20/2011	07/21/2011
003	EX 1-E1	Solid	07/20/2011	07/21/2011
004	EX 1-W1	Solid	07/20/2011	07/21/2011
005	EX 1-F1	Solid	07/20/2011	07/21/2011
006	EX 2-N1	Solid	07/20/2011	07/21/2011
007	EX 2-S1	Solid	07/20/2011	07/21/2011
008	EX 2-E1	Solid	07/20/2011	07/21/2011
009	EX 2-W1	Solid	07/20/2011	07/21/2011
010	EX 2-F1	Solid	07/20/2011	07/21/2011
011	EX 2-F2	Solid	07/20/2011	07/21/2011
012	Well	Aqueous	07/20/2011	07/21/2011
013	Tank	Aqueous	07/20/2011	07/21/2011
014	Septic	Solid	07/20/2011	07/21/2011

(14 samples)

Executive Summary
VEC Engineering, PLLC
Lot Number: MG21058

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	EX 1-N1	Solid	alpha-BHC	8081B	220		ug/kg	6
001	EX 1-N1	Solid	beta-BHC	8081B	11		ug/kg	6
001	EX 1-N1	Solid	delta-BHC	8081B	22		ug/kg	6
001	EX 1-N1	Solid	gamma-BHC (Lindane)	8081B	19		ug/kg	6
001	EX 1-N1	Solid	4,4'-DDT	8081B	50		ug/kg	6
001	EX 1-N1	Solid	Dieldrin	8081B	12		ug/kg	6
002	EX 1-S1	Solid	alpha-BHC	8081B	65		ug/kg	7
002	EX 1-S1	Solid	delta-BHC	8081B	17		ug/kg	7
002	EX 1-S1	Solid	gamma-BHC (Lindane)	8081B	15		ug/kg	7
002	EX 1-S1	Solid	4,4'-DDT	8081B	90		ug/kg	7
002	EX 1-S1	Solid	Endrin	8081B	18		ug/kg	7
003	EX 1-E1	Solid	4,4'-DDT	8081B	19		ug/kg	8
003	EX 1-E1	Solid	Dieldrin	8081B	2.8		ug/kg	8
004	EX 1-W1	Solid	4,4'-DDE	8081B	2.3		ug/kg	9
004	EX 1-W1	Solid	4,4'-DDT	8081B	20		ug/kg	9
004	EX 1-W1	Solid	Endrin	8081B	2.7		ug/kg	9
005	EX 1-F1	Solid	alpha-BHC	8081B	11		ug/kg	10
005	EX 1-F1	Solid	delta-BHC	8081B	5.3		ug/kg	10
005	EX 1-F1	Solid	gamma-BHC (Lindane)	8081B	4.2		ug/kg	10
005	EX 1-F1	Solid	4,4'-DDD	8081B	5.9		ug/kg	10
005	EX 1-F1	Solid	4,4'-DDE	8081B	7.1		ug/kg	10
005	EX 1-F1	Solid	4,4'-DDT	8081B	73		ug/kg	10
005	EX 1-F1	Solid	Dieldrin	8081B	6.0		ug/kg	10
005	EX 1-F1	Solid	Endrin	8081B	9.4		ug/kg	10
005	EX 1-F1	Solid	Toxaphene	8081B	230		ug/kg	10
006	EX 2-N1	Solid	4,4'-DDD	8081B	9100		ug/kg	11
006	EX 2-N1	Solid	4,4'-DDE	8081B	7400		ug/kg	11
006	EX 2-N1	Solid	4,4'-DDT	8081B	130000		ug/kg	11
006	EX 2-N1	Solid	Dieldrin	8081B	3800	P	ug/kg	11
007	EX 2-S1	Solid	4,4'-DDE	8081B	38		ug/kg	12
007	EX 2-S1	Solid	4,4'-DDT	8081B	40		ug/kg	12
007	EX 2-S1	Solid	Dieldrin	8081B	6.8		ug/kg	12
007	EX 2-S1	Solid	Toxaphene	8081B	120		ug/kg	12
008	EX 2-E1	Solid	4,4'-DDT	8081B	39		ug/kg	13
008	EX 2-E1	Solid	Dieldrin	8081B	2.9		ug/kg	13
009	EX 2-W1	Solid	gamma-Chlordane	8081B	30		ug/kg	14
009	EX 2-W1	Solid	4,4'-DDD	8081B	42		ug/kg	14
009	EX 2-W1	Solid	4,4'-DDE	8081B	140		ug/kg	14
009	EX 2-W1	Solid	4,4'-DDT	8081B	710		ug/kg	14
009	EX 2-W1	Solid	Dieldrin	8081B	200		ug/kg	14
009	EX 2-W1	Solid	Endosulfan sulfate	8081B	54		ug/kg	14
009	EX 2-W1	Solid	Endrin	8081B	98		ug/kg	14
009	EX 2-W1	Solid	Endrin aldehyde	8081B	55	P	ug/kg	14
009	EX 2-W1	Solid	Toxaphene	8081B	1800		ug/kg	14
010	EX 2-F1	Solid	4,4'-DDE	8081B	23		ug/kg	15

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
010	EX 2-F1	Solid	4,4'-DDT	8081B	77		ug/kg	15
010	EX 2-F1	Solid	Dieldrin	8081B	22		ug/kg	15
011	EX 2-F2	Solid	beta-BHC	8081B	6.6		ug/kg	16
011	EX 2-F2	Solid	delta-BHC	8081B	25		ug/kg	16
011	EX 2-F2	Solid	4,4'-DDD	8081B	5.7		ug/kg	16
011	EX 2-F2	Solid	4,4'-DDE	8081B	13		ug/kg	16
011	EX 2-F2	Solid	4,4'-DDT	8081B	190		ug/kg	16
011	EX 2-F2	Solid	Dieldrin	8081B	20		ug/kg	16
011	EX 2-F2	Solid	Endosulfan sulfate	8081B	6.6		ug/kg	16
011	EX 2-F2	Solid	Methoxychlor	8081B	34	P	ug/kg	16
011	EX 2-F2	Solid	Toxaphene	8081B	350		ug/kg	16
012	Well	Aqueous	Dieldrin	8081B	0.074		ug/L	17
012	Well	Aqueous	Endrin ketone	8081B	0.050		ug/L	17
013	Tank	Aqueous	alpha-BHC	8081B	0.26		ug/L	18
013	Tank	Aqueous	beta-BHC	8081B	0.28	P	ug/L	18
013	Tank	Aqueous	gamma-BHC (Lindane)	8081B	0.041		ug/L	18
013	Tank	Aqueous	4,4'-DDE	8081B	0.041		ug/L	18
013	Tank	Aqueous	4,4'-DDT	8081B	0.11		ug/L	18
013	Tank	Aqueous	Dieldrin	8081B	0.46	P	ug/L	18
013	Tank	Aqueous	Endrin	8081B	0.22	P	ug/L	18
013	Tank	Aqueous	Endrin ketone	8081B	0.23		ug/L	18

(66 detections)

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 1-N1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-001
Matrix: Solid
% Solids: 86.4 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	08/03/2011 2323	NCM	07/28/2011 1946	64666
2	3550C	8081B	10	08/09/2011 2239	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		9.8	ug/kg	1
alpha-BHC	319-84-6	8081B	220		20	ug/kg	2
beta-BHC	319-85-7	8081B	11		9.8	ug/kg	1
delta-BHC	319-86-8	8081B	22		9.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	19		9.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		9.8	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		9.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		9.8	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		9.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	50		9.8	ug/kg	1
Dieldrin	60-57-1	8081B	12		9.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		9.8	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		9.8	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		9.8	ug/kg	1
Endrin	72-20-8	8081B	ND		9.8	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		9.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		9.8	ug/kg	1
Heptachlor	76-44-8	8081B	ND		9.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		9.8	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		39	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		480	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		85	51-123		94	51-123
Tetrachloro-m-xylene		69	51-104		81	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 1-S1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-002
Matrix: Solid
% Solids: 85.0 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	08/04/2011 0024	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		10	ug/kg	1
alpha-BHC	319-84-6	8081B	65		10	ug/kg	1
beta-BHC	319-85-7	8081B	ND		10	ug/kg	1
delta-BHC	319-86-8	8081B	17		10	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	15		10	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		10	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		10	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		10	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		10	ug/kg	1
4,4'-DDT	50-29-3	8081B	90		10	ug/kg	1
Dieldrin	60-57-1	8081B	ND		10	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		10	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		10	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		10	ug/kg	1
Endrin	72-20-8	8081B	18		10	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		10	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		10	ug/kg	1
Heptachlor	76-44-8	8081B	ND		10	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		10	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		39	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		490	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		93	51-123
Tetrachloro-m-xylene		68	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 1-E1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-003
Matrix: Solid
% Solids: 82.2 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/04/2011 0045	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	19		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	2.8		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		86	51-123
Tetrachloro-m-xylene		55	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 1-W1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-004
Matrix: Solid
% Solids: 88.5 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/04/2011 0106	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.9	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.9	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	2.3		1.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	20		1.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.9	ug/kg	1
Endrin	72-20-8	8081B	2.7		1.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7.4	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		92	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		85	51-123
Tetrachloro-m-xylene		58	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 1-F1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-005
Matrix: Solid
% Solids: 87.5 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	2	08/04/2011 0126	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		3.9	ug/kg	1
alpha-BHC	319-84-6	8081B	11		3.9	ug/kg	1
beta-BHC	319-85-7	8081B	ND		3.9	ug/kg	1
delta-BHC	319-86-8	8081B	5.3		3.9	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	4.2		3.9	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		3.9	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		3.9	ug/kg	1
4,4'-DDD	72-54-8	8081B	5.9		3.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	7.1		3.9	ug/kg	1
4,4'-DDT	50-29-3	8081B	73		3.9	ug/kg	1
Dieldrin	60-57-1	8081B	6.0		3.9	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		3.9	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		3.9	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		3.9	ug/kg	1
Endrin	72-20-8	8081B	9.4		3.9	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		3.9	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		3.9	ug/kg	1
Heptachlor	76-44-8	8081B	ND		3.9	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		3.9	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		15	ug/kg	1
Toxaphene	8001-35-2	8081B	230		190	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		75	51-123
Tetrachloro-m-xylene		53	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 2-N1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-006
Matrix: Solid
% Solids: 86.4 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1000	08/04/2011 0147	NCM	07/28/2011 1946	64666
2	3550C	8081B	5000	08/05/2011 2146	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1900	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1900	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1900	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1900	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1900	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		1900	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		1900	ug/kg	1
4,4'-DDD	72-54-8	8081B	9100		1900	ug/kg	1
4,4'-DDE	72-55-9	8081B	7400		1900	ug/kg	1
4,4'-DDT	50-29-3	8081B	130000		9700	ug/kg	2
Dieldrin	60-57-1	8081B	3800	P	1900	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1900	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1900	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1900	ug/kg	1
Endrin	72-20-8	8081B	ND		1900	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1900	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1900	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1900	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1900	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		7700	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		95000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl	N	322	51-123	N	0.00	51-123
Tetrachloro-m-xylene		74	51-104	N	0.00	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 2-S1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-007
Matrix: Solid
% Solids: 83.6 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/04/2011 0207	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	38		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	40		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	6.8		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	120		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		76	51-123
Tetrachloro-m-xylene		58	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 2-E1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-008
Matrix: Solid
% Solids: 83.5 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/04/2011 0228	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	39		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	2.9		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	51-123
Tetrachloro-m-xylene		58	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 2-W1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-009
Matrix: Solid
% Solids: 90.0 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	10	08/04/2011 0249	NCM	07/28/2011 1946	64666
2	3550C	8081B	50	08/05/2011 2207	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		19	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		19	ug/kg	1
beta-BHC	319-85-7	8081B	ND		19	ug/kg	1
delta-BHC	319-86-8	8081B	ND		19	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		19	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		19	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	30		19	ug/kg	1
4,4'-DDD	72-54-8	8081B	42		19	ug/kg	1
4,4'-DDE	72-55-9	8081B	140		19	ug/kg	1
4,4'-DDT	50-29-3	8081B	710		94	ug/kg	2
Dieldrin	60-57-1	8081B	200		19	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		19	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		19	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	54		19	ug/kg	1
Endrin	72-20-8	8081B	98		19	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	55	P	19	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		19	ug/kg	1
Heptachlor	76-44-8	8081B	ND		19	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		19	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		74	ug/kg	1
Toxaphene	8001-35-2	8081B	1800		920	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		87	51-123		89	51-123
Tetrachloro-m-xylene		66	51-104		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 2-F1
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-010
Matrix: Solid
% Solids: 82.4 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	5	08/04/2011 0309	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		10	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		10	ug/kg	1
beta-BHC	319-85-7	8081B	ND		10	ug/kg	1
delta-BHC	319-86-8	8081B	ND		10	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		10	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		10	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		10	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		10	ug/kg	1
4,4'-DDE	72-55-9	8081B	23		10	ug/kg	1
4,4'-DDT	50-29-3	8081B	77		10	ug/kg	1
Dieldrin	60-57-1	8081B	22		10	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		10	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		10	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		10	ug/kg	1
Endrin	72-20-8	8081B	ND		10	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		10	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		10	ug/kg	1
Heptachlor	76-44-8	8081B	ND		10	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		10	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		40	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		500	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		82	51-123
Tetrachloro-m-xylene		63	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: EX 2-F2
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-011
Matrix: Solid
% Solids: 88.1 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	2	08/04/2011 0330	NCM	07/28/2011 1946	64666
2	3550C	8081B	10	08/05/2011 2228	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		3.8	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		3.8	ug/kg	1
beta-BHC	319-85-7	8081B	6.6		3.8	ug/kg	1
delta-BHC	319-86-8	8081B	25		3.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		3.8	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		3.8	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		3.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	5.7		3.8	ug/kg	1
4,4'-DDE	72-55-9	8081B	13		3.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	190		19	ug/kg	2
Dieldrin	60-57-1	8081B	20		3.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		3.8	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		3.8	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	6.6		3.8	ug/kg	1
Endrin	72-20-8	8081B	ND		3.8	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		3.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		3.8	ug/kg	1
Heptachlor	76-44-8	8081B	ND		3.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		3.8	ug/kg	1
Methoxychlor	72-43-5	8081B	34	P	15	ug/kg	1
Toxaphene	8001-35-2	8081B	350		190	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		80	51-123		93	51-123
Tetrachloro-m-xylene		68	51-104		81	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: Well
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-012
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	08/02/2011 1615	NCM	07/22/2011 1603	64235

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.025	ug/L	1
alpha-BHC	319-84-6	8081B	ND		0.025	ug/L	1
beta-BHC	319-85-7	8081B	ND		0.025	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.025	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.025	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.025	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.025	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.025	ug/L	1
4,4'-DDE	72-55-9	8081B	ND		0.025	ug/L	1
4,4'-DDT	50-29-3	8081B	ND		0.025	ug/L	1
Dieldrin	60-57-1	8081B	0.074		0.025	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.025	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.025	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.025	ug/L	1
Endrin	72-20-8	8081B	ND		0.025	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.025	ug/L	1
Endrin ketone	53494-70-5	8081B	0.050		0.025	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.025	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.025	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.10	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.25	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		53	20-131
Tetrachloro-m-xylene		93	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: Tank
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-013
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081B	1	08/02/2011 1636	NCM	07/22/2011 1603	64235
2	3520C	8081B	1	08/04/2011 0533	NCM	07/22/2011 1603	64235

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.032	ug/L	1
alpha-BHC	319-84-6	8081B	0.26		0.032	ug/L	1
beta-BHC	319-85-7	8081B	0.28	P	0.032	ug/L	1
delta-BHC	319-86-8	8081B	ND		0.032	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081B	0.041		0.032	ug/L	1
alpha-Chlordane	5103-71-9	8081B	ND		0.032	ug/L	1
gamma-Chlordane	5103-74-2	8081B	ND		0.032	ug/L	1
4,4'-DDD	72-54-8	8081B	ND		0.032	ug/L	1
4,4'-DDE	72-55-9	8081B	0.041		0.032	ug/L	1
4,4'-DDT	50-29-3	8081B	0.11		0.032	ug/L	2
Dieldrin	60-57-1	8081B	0.46	P	0.032	ug/L	1
Endosulfan I	959-98-8	8081B	ND		0.032	ug/L	1
Endosulfan II	33213-65-9	8081B	ND		0.032	ug/L	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.032	ug/L	1
Endrin	72-20-8	8081B	0.22	P	0.032	ug/L	1
Endrin aldehyde	7421-93-4	8081B	ND		0.032	ug/L	1
Endrin ketone	53494-70-5	8081B	0.23		0.032	ug/L	1
Heptachlor	76-44-8	8081B	ND		0.032	ug/L	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.032	ug/L	1
Methoxychlor	72-43-5	8081B	ND		0.13	ug/L	1
Toxaphene	8001-35-2	8081B	ND		0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Decachlorobiphenyl		21	20-131	N	17	20-131
Tetrachloro-m-xylene		81	26-132		66	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

Organochlorine Pesticides by GC

Client: VEC Engineering, PLLC
Description: Septic
Date Sampled: 07/20/2011
Date Received: 07/21/2011

Laboratory ID: MG21058-014
Matrix: Solid
% Solids: 82.0 07/21/2011 2053

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8081B	1	08/04/2011 0350	NCM	07/28/2011 1946	64666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		2.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		2.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		2.0	ug/kg	1
alpha-Chlordane	5103-71-9	8081B	ND		2.0	ug/kg	1
gamma-Chlordane	5103-74-2	8081B	ND		2.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.0	ug/kg	1
Endrin	72-20-8	8081B	ND		2.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		8.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		82	51-123
Tetrachloro-m-xylene		62	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time

QC Summary

Organochlorine Pesticides by GC - MB

Sample ID: MQ64235-001
Batch: 64235
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/22/2011 1603

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	0.025	ug/L	08/02/2011 1411
4,4'-DDE	ND		1	0.025	ug/L	08/02/2011 1411
4,4'-DDT	ND		1	0.025	ug/L	08/02/2011 1411
Aldrin	ND		1	0.025	ug/L	08/02/2011 1411
alpha-BHC	ND		1	0.025	ug/L	08/02/2011 1411
alpha-Chlordane	ND		1	0.025	ug/L	08/02/2011 1411
beta-BHC	ND		1	0.025	ug/L	08/02/2011 1411
delta-BHC	ND		1	0.025	ug/L	08/02/2011 1411
Dieldrin	ND		1	0.025	ug/L	08/02/2011 1411
Endosulfan I	ND		1	0.025	ug/L	08/02/2011 1411
Endosulfan II	ND		1	0.025	ug/L	08/02/2011 1411
Endosulfan sulfate	ND		1	0.025	ug/L	08/02/2011 1411
Endrin	ND		1	0.025	ug/L	08/02/2011 1411
Endrin aldehyde	ND		1	0.025	ug/L	08/02/2011 1411
Endrin ketone	ND		1	0.025	ug/L	08/02/2011 1411
gamma-BHC (Lindane)	ND		1	0.025	ug/L	08/02/2011 1411
gamma-Chlordane	ND		1	0.025	ug/L	08/02/2011 1411
Heptachlor	ND		1	0.025	ug/L	08/02/2011 1411
Heptachlor epoxide	ND		1	0.025	ug/L	08/02/2011 1411
Methoxychlor	ND		1	0.10	ug/L	08/02/2011 1411
Toxaphene	ND		1	0.25	ug/L	08/02/2011 1411

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	18	20-131
Tetrachloro-m-xylene		89	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: MQ64235-002
Batch: 64235
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/22/2011 1603

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	0.50	0.58		1	116	70-130	08/02/2011 1432
4,4'-DDE	0.50	0.57		1	115	70-130	08/02/2011 1432
4,4'-DDT	0.50	0.62		1	125	70-130	08/02/2011 1432
Aldrin	0.50	0.55		1	110	70-130	08/02/2011 1432
alpha-BHC	0.50	0.56		1	113	70-130	08/02/2011 1432
beta-BHC	0.50	0.58		1	115	70-130	08/02/2011 1432
delta-BHC	0.50	0.57		1	114	70-130	08/02/2011 1432
Dieldrin	0.50	0.60		1	121	70-130	08/02/2011 1432
Endosulfan I	0.50	0.56		1	111	70-130	08/02/2011 1432
Endosulfan II	0.50	0.57		1	115	70-130	08/02/2011 1432
Endosulfan sulfate	0.50	0.55		1	111	70-130	08/02/2011 1432
Endrin	0.50	0.62		1	124	70-130	08/02/2011 1432
Endrin aldehyde	0.50	0.55		1	109	70-130	08/02/2011 1432
gamma-BHC (Lindane)	0.50	0.60		1	120	70-130	08/02/2011 1432
gamma-Chlordane	0.50	0.57		1	113	70-130	08/02/2011 1432
Heptachlor	0.50	0.52		1	104	70-130	08/02/2011 1432
Heptachlor epoxide	0.50	0.58		1	115	70-130	08/02/2011 1432
Methoxychlor	0.50	0.60		1	119	70-130	08/02/2011 1432

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		28	20-131
Tetrachloro-m-xylene		92	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: MG21058-013MS
Batch: 64235
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/22/2011 1603

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	1.4	1.3		1	94	70-130	08/02/2011 1656
alpha-BHC	0.26	1.4	1.7		1	107	70-130	08/02/2011 1656
beta-BHC	0.28	1.4	1.3		1	78	70-130	08/02/2011 1656
delta-BHC	ND	1.4	1.6		1	118	70-130	08/02/2011 1656
gamma-BHC (Lindane)	0.041	1.4	1.5		1	107	70-130	08/02/2011 1656
gamma-Chlordane	ND	1.4	1.9	N	1	139	70-130	08/02/2011 1656
4,4'-DDD	ND	1.4	1.4		1	105	70-130	08/02/2011 1656
4,4'-DDE	0.041	1.4	1.2	P	1	88	70-130	08/02/2011 1656
4,4'-DDT	0.11	1.4	1.6	P	1	108	70-130	08/02/2011 1656
Dieldrin	0.46	1.4	1.5		1	80	70-130	08/02/2011 1656
Endosulfan I	ND	1.4	1.3		1	97	70-130	08/02/2011 1656
Endosulfan II	ND	1.4	1.2		1	90	70-130	08/02/2011 1656
Endosulfan sulfate	ND	1.4	1.4		1	100	70-130	08/02/2011 1656
Endrin	0.22	1.4	1.9		1	124	70-130	08/02/2011 1656
Endrin aldehyde	ND	1.4	1.3		1	92	70-130	08/02/2011 1656
Heptachlor	ND	1.4	1.2		1	90	70-130	08/02/2011 1656
Heptachlor epoxide	ND	1.4	1.4		1	105	70-130	08/02/2011 1656
Methoxychlor	ND	1.4	1.9	N	1	142	70-130	08/02/2011 1656

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		54	20-131
Tetrachloro-m-xylene		88	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: MG21058-013MD
Batch: 64235
Analytical Method: 8081B

Matrix: Aqueous
Prep Method: 3520C
Prep Date: 07/22/2011 1603

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	1.3	1.1		1	83	18	70-130	30	08/02/2011 1717
alpha-BHC	0.26	1.3	1.6		1	102	8.0	70-130	30	08/02/2011 1717
beta-BHC	0.28	1.3	1.3		1	79	3.1	70-130	30	08/02/2011 1717
delta-BHC	ND	1.3	1.4		1	113	9.7	70-130	30	08/02/2011 1717
gamma-BHC (Lindane)	0.041	1.3	1.4		1	103	9.2	70-130	30	08/02/2011 1717
gamma-Chlordane	ND	1.3	1.7	P	1	130	12	70-130	30	08/02/2011 1717
4,4'-DDD	ND	1.3	1.3		1	99	12	70-130	30	08/02/2011 1717
4,4'-DDE	0.041	1.3	0.98	P	1	73	23	70-130	30	08/02/2011 1717
4,4'-DDT	0.11	1.3	1.3	P	1	90	22	70-130	30	08/02/2011 1717
Dieldrin	0.46	1.3	1.4		1	77	6.8	70-130	30	08/02/2011 1717
Endosulfan I	ND	1.3	1.2		1	91	12	70-130	30	08/02/2011 1717
Endosulfan II	ND	1.3	1.2		1	92	3.7	70-130	30	08/02/2011 1717
Endosulfan sulfate	ND	1.3	1.3		1	105	0.85	70-130	30	08/02/2011 1717
Endrin	0.22	1.3	1.7		1	115	11	70-130	30	08/02/2011 1717
Endrin aldehyde	ND	1.3	1.2		1	95	2.2	70-130	30	08/02/2011 1717
Heptachlor	ND	1.3	1.1		1	84	12	70-130	30	08/02/2011 1717
Heptachlor epoxide	ND	1.3	1.3		1	100	9.8	70-130	30	08/02/2011 1717
Methoxychlor	ND	1.3	1.7	N	1	131	13	70-130	30	08/02/2011 1717

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		34	20-131
Tetrachloro-m-xylene		82	26-132

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: MQ64666-001
Batch: 64666
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/28/2011 1946

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.7	ug/kg	08/03/2011 2241
4,4'-DDE	ND		1	1.7	ug/kg	08/03/2011 2241
4,4'-DDT	ND		1	1.7	ug/kg	08/03/2011 2241
Aldrin	ND		1	1.7	ug/kg	08/03/2011 2241
alpha-BHC	ND		1	1.7	ug/kg	08/03/2011 2241
alpha-Chlordane	ND		1	1.7	ug/kg	08/03/2011 2241
beta-BHC	ND		1	1.7	ug/kg	08/03/2011 2241
delta-BHC	ND		1	1.7	ug/kg	08/03/2011 2241
Dieldrin	ND		1	1.7	ug/kg	08/03/2011 2241
Endosulfan I	ND		1	1.7	ug/kg	08/03/2011 2241
Endosulfan II	ND		1	1.7	ug/kg	08/03/2011 2241
Endosulfan sulfate	ND		1	1.7	ug/kg	08/03/2011 2241
Endrin	ND		1	1.7	ug/kg	08/03/2011 2241
Endrin aldehyde	ND		1	1.7	ug/kg	08/03/2011 2241
Endrin ketone	ND		1	1.7	ug/kg	08/03/2011 2241
gamma-BHC (Lindane)	ND		1	1.7	ug/kg	08/03/2011 2241
gamma-Chlordane	ND		1	1.7	ug/kg	08/03/2011 2241
Heptachlor	ND		1	1.7	ug/kg	08/03/2011 2241
Heptachlor epoxide	ND		1	1.7	ug/kg	08/03/2011 2241
Methoxychlor	ND		1	6.7	ug/kg	08/03/2011 2241
Toxaphene	ND		1	83	ug/kg	08/03/2011 2241

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		100	51-123
Tetrachloro-m-xylene		69	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: MQ64666-002
Batch: 64666
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/28/2011 1946

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	17	16		1	92	70-130	08/03/2011 2302
4,4'-DDE	17	15		1	86	70-130	08/03/2011 2302
4,4'-DDT	17	18		1	109	70-130	08/03/2011 2302
Aldrin	17	13		1	76	70-130	08/03/2011 2302
alpha-BHC	17	13		1	76	70-130	08/03/2011 2302
alpha-Chlordane	17	14		1	82	70-130	08/03/2011 2302
beta-BHC	17	14		1	83	70-130	08/03/2011 2302
delta-BHC	17	15		1	88	70-130	08/03/2011 2302
Dieldrin	17	15		1	87	70-130	08/03/2011 2302
Endosulfan I	17	14		1	80	70-130	08/03/2011 2302
Endosulfan II	17	15		1	91	70-130	08/03/2011 2302
Endosulfan sulfate	17	16		1	93	70-130	08/03/2011 2302
Endrin	17	16		1	97	70-130	08/03/2011 2302
Endrin aldehyde	17	15		1	89	70-130	08/03/2011 2302
Endrin ketone	17	15		1	89	70-130	08/03/2011 2302
gamma-BHC (Lindane)	17	14		1	81	70-130	08/03/2011 2302
gamma-Chlordane	17	14		1	83	70-130	08/03/2011 2302
Heptachlor	17	13		1	75	70-130	08/03/2011 2302
Heptachlor epoxide	17	14		1	80	70-130	08/03/2011 2302
Methoxychlor	17	18		1	109	70-130	08/03/2011 2302

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		93	51-123
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: MG21058-001MS
Batch: 64666
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/28/2011 1946

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	19	18		5	75	70-130	08/03/2011 2343
alpha-BHC	220	19	71	N	5	-683	70-130	08/03/2011 2343
beta-BHC	11	19	24		5	70	70-130	08/03/2011 2343
delta-BHC	22	19	34	N	5	62	70-130	08/03/2011 2343
gamma-BHC (Lindane)	19	19	26	N	5	33	70-130	08/03/2011 2343
alpha-Chlordane	ND	19	18		5	76	70-130	08/03/2011 2343
gamma-Chlordane	ND	19	19		5	80	70-130	08/03/2011 2343
4,4'-DDD	ND	19	23		5	86	70-130	08/03/2011 2343
4,4'-DDE	ND	19	20	N	5	58	70-130	08/03/2011 2343
4,4'-DDT	50	19	56	N	5	35	70-130	08/03/2011 2343
Dieldrin	12	19	21	N	5	52	70-130	08/03/2011 2343
Endosulfan I	ND	19	16		5	86	70-130	08/03/2011 2343
Endosulfan II	ND	19	20		5	89	70-130	08/03/2011 2343
Endosulfan sulfate	ND	19	27		5	109	70-130	08/03/2011 2343
Endrin	ND	19	29		5	114	70-130	08/03/2011 2343
Endrin aldehyde	ND	19	25		5	85	70-130	08/03/2011 2343
Endrin ketone	ND	19	19		5	79	70-130	08/03/2011 2343
Heptachlor	ND	19	15		5	78	70-130	08/03/2011 2343
Heptachlor epoxide	ND	19	16		5	85	70-130	08/03/2011 2343
Methoxychlor	ND	19	47	N	5	52	70-130	08/03/2011 2343

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		88	51-123
Tetrachloro-m-xylene		66	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: MG21058-001MD
Batch: 64666
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3550C
Prep Date: 07/28/2011 1946

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	20	18		5	72	1.3	70-130	20	08/04/2011 0004
alpha-BHC	220	20	62	N	5	-711	14	70-130	20	08/04/2011 0004
beta-BHC	11	20	24		5	70	1.0	70-130	20	08/04/2011 0004
delta-BHC	22	20	33	N	5	57	2.3	70-130	20	08/04/2011 0004
gamma-BHC (Lindane)	19	20	25	N	5	30	1.7	70-130	20	08/04/2011 0004
alpha-Chlordane	ND	20	18		5	72	1.6	70-130	20	08/04/2011 0004
gamma-Chlordane	ND	20	18		5	75	2.2	70-130	20	08/04/2011 0004
4,4'-DDD	ND	20	23		5	85	1.3	70-130	20	08/04/2011 0004
4,4'-DDE	ND	20	21	N	5	60	3.5	70-130	20	08/04/2011 0004
4,4'-DDT	50	20	57	N	5	36	0.66	70-130	20	08/04/2011 0004
Dieldrin	12	20	21	N	5	50	0.11	70-130	20	08/04/2011 0004
Endosulfan I	ND	20	16		5	83	1.1	70-130	20	08/04/2011 0004
Endosulfan II	ND	20	20		5	86	0.50	70-130	20	08/04/2011 0004
Endosulfan sulfate	ND	20	26		5	100	5.0	70-130	20	08/04/2011 0004
Endrin	ND	20	26		5	95	12	70-130	20	08/04/2011 0004
Endrin aldehyde	ND	20	24		5	76	4.9	70-130	20	08/04/2011 0004
Endrin ketone	ND	20	19		5	77	0.76	70-130	20	08/04/2011 0004
Heptachlor	ND	20	15		5	74	1.5	70-130	20	08/04/2011 0004
Heptachlor epoxide	ND	20	16		5	80	2.2	70-130	20	08/04/2011 0004
Methoxychlor	ND	20	45	N	5	38	5.3	70-130	20	08/04/2011 0004

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		91	51-123
Tetrachloro-m-xylene		64	51-104

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number 13489

Client: VEC Engineering	Report to Contact: Tom Kwiecinski	Sampler (Printed Name): TJK	Quote No.
Address: 1225 W. Parks Rd	Telephone No. / Fax No. / Email: 989-292-4245	Work Id No.	Page 1 of 2
City: St. Johns State: MI Zip Code: 48879	Preservative: 1. Empire 2. NaOH/Zn 3. HNO3 4. HNO3 5. HCl 6. Na Thio.		Number of Containers: Bottle (See instructions on back) Preservative: Lot No. MG 21058
Project Name: Newland			
Project Number	PO Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	Grab Composite	Matrix: GW	DW	WW	S	Other	Analysis	Pesticides	Remarks / Cooler ID
EX1 - N1	7/20		G				X			X	
S1											
E1											
W1											
F1											
EX2 - N1											
S1											
E1											
W1											
F1											

Turnaround Time Required (Prior lab approval required for expected TAT): ☐ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

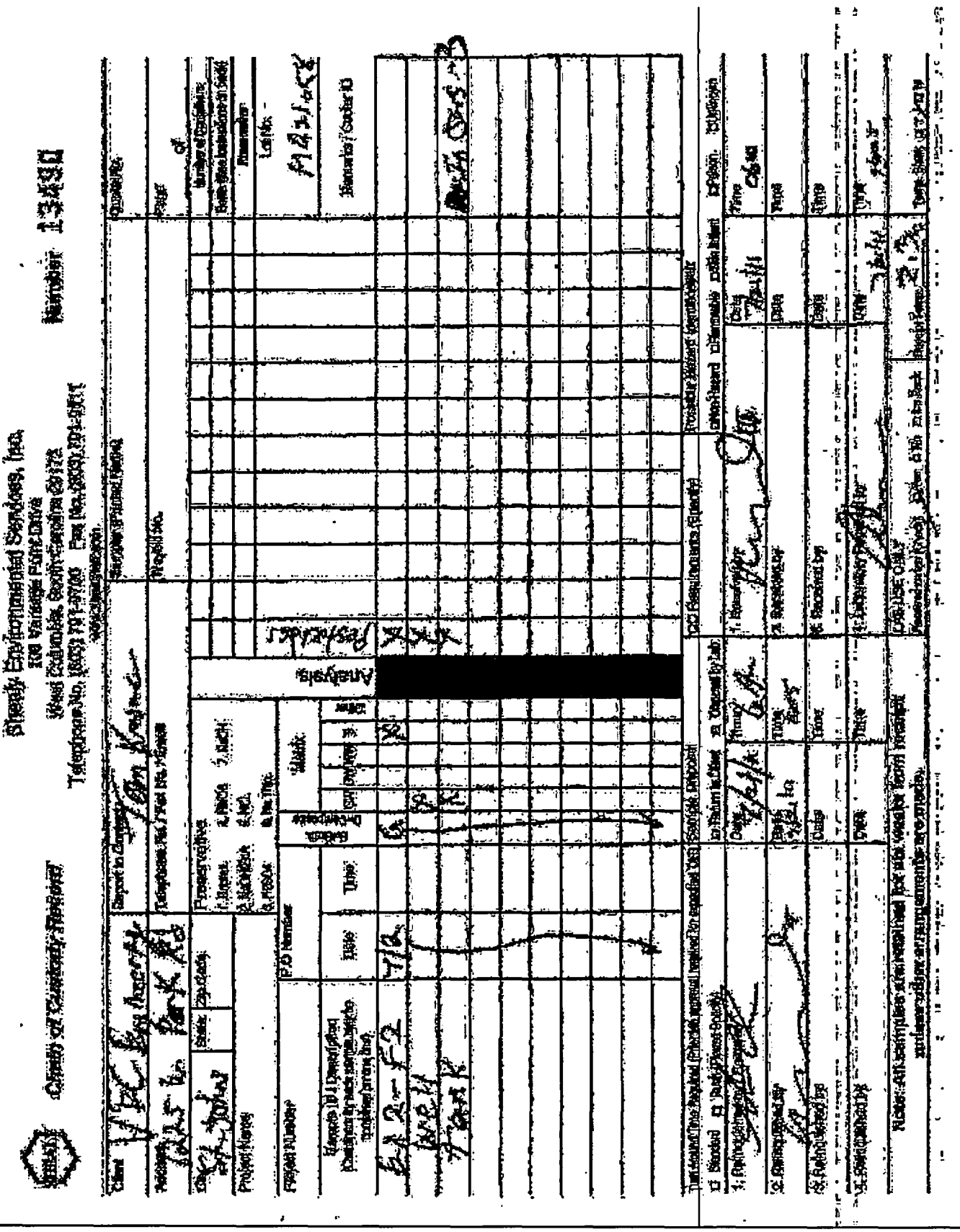
QC Requirements (Specify)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Non-Ignited ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by Sampler: [signature]	7/21/11	6a	1. Received by: [signature]		
2. Relinquished by: [signature]	7/21/11	6a	2. Received by: [signature]	7/21/11	6a
3. Relinquished by: [signature]	7/21/11	1645	3. Received by:		
4. Relinquished by:			4. Laboratory Received by: [signature]	7/21/11	1645

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Cooler) ☐ Dry ☐ No ☐ Ice Pack | Receipt Date: 2-3 | Temp. Blank ☐ T.L.A. ☐



Shealy Environmental Services, Inc.
Document Number: F-AD-015
Revision Number: 8

Page 1 of 1
Replaces Date: [illegible]
Effective Date: [illegible]

Sample Receipt Checklist (SRC)

Client: VEC Engineering Cooler Inspected by/date: [illegible] Lot #: [illegible]

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☑		2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt: [illegible] °C / °C / °C / °C / °C / °C / °C / °C

Method: ☐ Temperature Blank ☐ Against Bottles

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☐	5a. Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed?
Yes ☑	No ☑	[illegible]	7. Was collection date & time listed? [illegible]
Yes ☐	No ☐		8. Were tests to be performed listed on the COC?
Yes ☑	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☑	[illegible]	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		12. Was adequate sample volume available?
Yes ☐	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		14. Were any samples containers missing?
Yes ☑	No ☐		15. Were there any excess samples not listed on COC? [illegible]
Yes ☐	No ☐	NA ☑	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation: (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) with the SR# (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____