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Appendix F

Pre-RI Sample Analytical Reports

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PHASE I RI DATA PACKAGES

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

AECOM
4016 Salt Pointe Parkway
North Charleston, SC 29405
Attention: Scott Ross

Project Name: **Shakespeare - Newberry**

Project Number: **60328308**

Lot Number: **QH27050**

Date Completed: **09/03/2015**

Nisreen Saikaly
Project Manager

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

Case Narrative

AECOM

Lot Number: QH27050

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.

Sample Summary

AECOM

Lot Number: QH27050

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-2I	Aqueous	08/26/2015 1235	08/27/2015
002	MW-9I	Aqueous	08/26/2015 1415	08/27/2015
003	MW-6I	Aqueous	08/26/2015 1540	08/27/2015
004	MW-5I	Aqueous	08/27/2015 1440	08/27/2015
005	MW-7I	Aqueous	08/27/2015 1550	08/27/2015
006	TRIP BLANK	Aqueous	08/26/2015	08/27/2015

(6 samples)

Executive Summary

AECOM

Lot Number: QH27050

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-2I	Aqueous	Chloroform	8260B	0.75	BJ	ug/L	5
001	MW-2I	Aqueous	Trichloroethene	8260B	17		ug/L	6
002	MW-9I	Aqueous	Chloroform	8260B	24	J	ug/L	7
002	MW-9I	Aqueous	cis-1,2-Dichloroethene	8260B	21	J	ug/L	7
002	MW-9I	Aqueous	Tetrachloroethene	8260B	1.7	J	ug/L	7
002	MW-9I	Aqueous	Trichloroethene	8260B	380		ug/L	8
003	MW-6I	Aqueous	Chloroform	8260B	0.89	BJ	ug/L	9
003	MW-6I	Aqueous	cis-1,2-Dichloroethene	8260B	2.6	J	ug/L	9
003	MW-6I	Aqueous	Tetrachloroethene	8260B	0.29	J	ug/L	9
003	MW-6I	Aqueous	Trichloroethene	8260B	20		ug/L	10
004	MW-5I	Aqueous	Acetone	8260B	2.1	J	ug/L	11
004	MW-5I	Aqueous	Chloroform	8260B	2.9	J	ug/L	11
004	MW-5I	Aqueous	1,2-Dichloroethane	8260B	1.1	J	ug/L	11
004	MW-5I	Aqueous	cis-1,2-Dichloroethene	8260B	0.92	J	ug/L	11
004	MW-5I	Aqueous	Trichloroethene	8260B	430		ug/L	12
005	MW-7I	Aqueous	Chloroform	8260B	1.6	J	ug/L	13
005	MW-7I	Aqueous	1,1-Dichloroethane	8260B	1.7	J	ug/L	13
005	MW-7I	Aqueous	1,1-Dichloroethene	8260B	3.8	J	ug/L	13
005	MW-7I	Aqueous	cis-1,2-Dichloroethene	8260B	61		ug/L	13
005	MW-7I	Aqueous	Tetrachloroethene	8260B	1.3	J	ug/L	13
005	MW-7I	Aqueous	Trichloroethene	8260B	290		ug/L	14

(21 detections)

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-001**
Description: **MW-2I**
Matrix: **Aqueous**
Date Sampled: **08/26/2015 1235**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	09/03/2015 0218	JJG		84037

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	2
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	2
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	2
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	2
Chloroform	**67-66-3**	**8260B**	**0.75**	**BJ**	**5.0**	**0.21**	**ug/L**	**2**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	2
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	2
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	2
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	2
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	2
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	2
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	2
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	2

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-001**
Description: **MW-2I**
Matrix: **Aqueous**
Date Sampled: **08/26/2015 1235**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	09/03/2015 0218	JJG		84037

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**17**		**5.0**	**0.16**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		95	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-002**
Description: **MW-9I**
Matrix: **Aqueous**
Date Sampled: **08/26/2015 1415**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	09/02/2015 1522	ALL		83958

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	2
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	2
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	2
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	2
Chloroform	**67-66-3**	**8260B**	**24**	**J**	**25**	**1.1**	**ug/L**	**2**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	2
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	2
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**21**	**J**	**25**	**1.0**	**ug/L**	**2**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	2
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	2
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	2
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	2
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	2
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	2
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	2
Tetrachloroethene	**127-18-4**	**8260B**	**1.7**	**J**	**25**	**1.1**	**ug/L**	**2**
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	2

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-002**
Description: **MW-9I**
Matrix: **Aqueous**
Date Sampled: **08/26/2015 1415**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	09/02/2015 1522	ALL		83958

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**380**		**25**	**0.80**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		25	1.6	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		93	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-003**
Description: **MW-6I**
Matrix: **Aqueous**
Date Sampled: **08/26/2015 1540**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	09/03/2015 0240	JJG		84037

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	2
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	2
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	2
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	2
Chloroform	**67-66-3**	**8260B**	**0.89**	**BJ**	**5.0**	**0.21**	**ug/L**	**2**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	2
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	2
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**2.6**	**J**	**5.0**	**0.20**	**ug/L**	**2**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	2
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	2
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	2
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	2
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	2
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	2
Tetrachloroethene	**127-18-4**	**8260B**	**0.29**	**J**	**5.0**	**0.22**	**ug/L**	**2**
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	2

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-003**
Description: **MW-6I**
Matrix: **Aqueous**
Date Sampled: **08/26/2015 1540**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	09/03/2015 0240	JJG		84037

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**20**		**5.0**	**0.16**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		93	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-004**
Description: **MW-5I**
Matrix: **Aqueous**
Date Sampled: **08/27/2015 1440**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/01/2015 1309	SES		83869
2	5030B	8260B	5	09/02/2015 1544	ALL		83958

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**2.1**	**J**	**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**2.9**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**1.1**	**J**	**5.0**	**0.23**	**ug/L**	**1**
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.92**	**J**	**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-004**
Description: **MW-5I**
Matrix: **Aqueous**
Date Sampled: **08/27/2015 1440**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/01/2015 1309	SES		83869
2	5030B	8260B	5	09/02/2015 1544	ALL		83958

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**430**		**25**	**0.80**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130		95	70-130
Bromofluorobenzene		105	70-130		87	70-130
Toluene-d8		106	70-130		92	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QH27050-005**

Description: **MW-7I** Matrix: **Aqueous**

Date Sampled: **08/27/2015 1550**

Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	09/01/2015 1828	SES		83869

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	**67-66-3**	**8260B**	**1.6**	**J**	**25**	**1.1**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260B**	**1.7**	**J**	**25**	**0.95**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**3.8**	**J**	**25**	**1.6**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**61**		**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.3**	**J**	**25**	**1.1**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-005**
Description: **MW-7I**
Matrix: **Aqueous**
Date Sampled: **08/27/2015 1550**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	09/01/2015 1828	SES		83869

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**290**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	1.6	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		120	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		100	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-006**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **08/26/2015**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/01/2015 1106	SES		83869

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH27050-006**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **08/26/2015**
Date Received: **08/27/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/01/2015 1106	SES		83869

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		109	70-130

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

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ83869-001
Batch: 83869
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	09/01/2015 1026
Benzene	ND		1	5.0	0.21	ug/L	09/01/2015 1026
Bromodichloromethane	ND		1	5.0	0.23	ug/L	09/01/2015 1026
Bromoform	ND		1	5.0	0.35	ug/L	09/01/2015 1026
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	09/01/2015 1026
2-Butanone (MEK)	ND		1	10	1.8	ug/L	09/01/2015 1026
Carbon disulfide	ND		1	5.0	0.45	ug/L	09/01/2015 1026
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	09/01/2015 1026
Chlorobenzene	ND		1	5.0	0.20	ug/L	09/01/2015 1026
Chloroethane	ND		1	5.0	0.28	ug/L	09/01/2015 1026
Chloroform	ND		1	5.0	0.21	ug/L	09/01/2015 1026
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	09/01/2015 1026
Cyclohexane	ND		1	5.0	0.30	ug/L	09/01/2015 1026
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	09/01/2015 1026
Dibromochloromethane	ND		1	5.0	0.23	ug/L	09/01/2015 1026
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	09/01/2015 1026
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	09/01/2015 1026
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	09/01/2015 1026
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	09/01/2015 1026
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	09/01/2015 1026
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	09/01/2015 1026
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	09/01/2015 1026
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	09/01/2015 1026
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	09/01/2015 1026
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	09/01/2015 1026
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	09/01/2015 1026
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	09/01/2015 1026
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	09/01/2015 1026
Ethylbenzene	ND		1	5.0	0.21	ug/L	09/01/2015 1026
2-Hexanone	ND		1	10	0.26	ug/L	09/01/2015 1026
Isopropylbenzene	ND		1	5.0	0.14	ug/L	09/01/2015 1026
Methyl acetate	ND		1	5.0	0.24	ug/L	09/01/2015 1026
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	09/01/2015 1026
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	09/01/2015 1026
Methylcyclohexane	ND		1	5.0	0.16	ug/L	09/01/2015 1026
Methylene chloride	ND		1	5.0	0.42	ug/L	09/01/2015 1026
Styrene	ND		1	5.0	0.13	ug/L	09/01/2015 1026
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	09/01/2015 1026
Tetrachloroethene	ND		1	5.0	0.22	ug/L	09/01/2015 1026
Toluene	ND		1	5.0	0.24	ug/L	09/01/2015 1026
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	09/01/2015 1026
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	09/01/2015 1026
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	09/01/2015 1026
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	09/01/2015 1026

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ83869-001
Batch: 83869
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	09/01/2015 1026
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	09/01/2015 1026
Vinyl chloride	ND		1	2.0	0.50	ug/L	09/01/2015 1026
Xylenes (total)	ND		1	5.0	0.32	ug/L	09/01/2015 1026

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		78	70-130
1,2-Dichloroethane-d4		74	70-130
Toluene-d8		75	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ83869-002
Batch: 83869
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	104	60-140	09/01/2015 0922
Benzene	50	52		1	105	70-130	09/01/2015 0922
Bromodichloromethane	50	54		1	107	70-130	09/01/2015 0922
Bromoform	50	54		1	108	70-130	09/01/2015 0922
Bromomethane (Methyl bromide)	50	53		1	105	60-140	09/01/2015 0922
2-Butanone (MEK)	100	120		1	117	60-140	09/01/2015 0922
Carbon disulfide	50	54		1	109	60-140	09/01/2015 0922
Carbon tetrachloride	50	58		1	116	70-130	09/01/2015 0922
Chlorobenzene	50	51		1	102	70-130	09/01/2015 0922
Chloroethane	50	52		1	105	60-140	09/01/2015 0922
Chloroform	50	52		1	104	70-130	09/01/2015 0922
Chloromethane (Methyl chloride)	50	55		1	110	60-140	09/01/2015 0922
Cyclohexane	50	54		1	107	70-130	09/01/2015 0922
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	94	70-130	09/01/2015 0922
Dibromochloromethane	50	54		1	108	70-130	09/01/2015 0922
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	09/01/2015 0922
1,3-Dichlorobenzene	50	51		1	102	70-130	09/01/2015 0922
1,2-Dichlorobenzene	50	51		1	101	70-130	09/01/2015 0922
1,4-Dichlorobenzene	50	50		1	101	70-130	09/01/2015 0922
Dichlorodifluoromethane	50	67		1	134	60-140	09/01/2015 0922
1,2-Dichloroethane	50	53		1	107	70-130	09/01/2015 0922
1,1-Dichloroethane	50	52		1	105	70-130	09/01/2015 0922
trans-1,2-Dichloroethene	50	52		1	105	70-130	09/01/2015 0922
cis-1,2-Dichloroethene	50	52		1	104	70-130	09/01/2015 0922
1,1-Dichloroethene	50	54		1	107	70-130	09/01/2015 0922
1,2-Dichloropropane	50	52		1	104	70-130	09/01/2015 0922
trans-1,3-Dichloropropene	50	52		1	104	70-130	09/01/2015 0922
cis-1,3-Dichloropropene	50	54		1	107	70-130	09/01/2015 0922
Ethylbenzene	50	53		1	106	70-130	09/01/2015 0922
2-Hexanone	100	110		1	109	60-140	09/01/2015 0922
Isopropylbenzene	50	53		1	105	70-130	09/01/2015 0922
Methyl acetate	50	59		1	118	60-140	09/01/2015 0922
Methyl tertiary butyl ether (MTBE)	50	54		1	109	70-130	09/01/2015 0922
4-Methyl-2-pentanone	100	110		1	112	60-140	09/01/2015 0922
Methylcyclohexane	50	56		1	111	70-130	09/01/2015 0922
Methylene chloride	50	53		1	107	70-130	09/01/2015 0922
Styrene	50	52		1	104	70-130	09/01/2015 0922
1,1,2,2-Tetrachloroethane	50	52		1	103	70-130	09/01/2015 0922
Tetrachloroethene	50	53		1	105	70-130	09/01/2015 0922
Toluene	50	51		1	102	70-130	09/01/2015 0922
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	57		1	115	70-130	09/01/2015 0922
1,2,4-Trichlorobenzene	50	45		1	90	70-130	09/01/2015 0922
1,1,2-Trichloroethane	50	51		1	102	70-130	09/01/2015 0922
1,1,1-Trichloroethane	50	56		1	111	70-130	09/01/2015 0922

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ83869-002
Batch: 83869
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	51		1	103	70-130	09/01/2015 0922
Trichlorofluoromethane	50	59		1	119	70-130	09/01/2015 0922
Vinyl chloride	50	56		1	113	70-130	09/01/2015 0922
Xylenes (total)	100	100		1	104	70-130	09/01/2015 0922

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		82	70-130
1,2-Dichloroethane-d4		74	70-130
Toluene-d8		77	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QH27050-001MS
Batch: 83869
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	1000	1600	N	10	156	60-140	09/01/2015 1918
Benzene	ND	500	500		10	101	70-130	09/01/2015 1918
Bromodichloromethane	ND	500	550		10	109	71-143	09/01/2015 1918
Bromoform	ND	500	470		10	94	65-131	09/01/2015 1918
Bromomethane (Methyl bromide)	ND	500	450		10	90	36-168	09/01/2015 1918
2-Butanone (MEK)	ND	1000	1200		10	118	60-140	09/01/2015 1918
Carbon disulfide	ND	500	420		10	84	60-140	09/01/2015 1918
Carbon tetrachloride	ND	500	570		10	114	37-166	09/01/2015 1918
Chlorobenzene	ND	500	490		10	98	78-129	09/01/2015 1918
Chloroethane	ND	500	450		10	90	60-140	09/01/2015 1918
Chloroform	0.75	500	520		10	104	63-123	09/01/2015 1918
Chloromethane (Methyl chloride)	ND	500	470		10	93	20-158	09/01/2015 1918
Cyclohexane	ND	500	480		10	96	70-130	09/01/2015 1918
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	500		10	100	70-130	09/01/2015 1918
Dibromochloromethane	ND	500	510		10	101	74-134	09/01/2015 1918
1,2-Dibromoethane (EDB)	ND	500	500		10	99	70-130	09/01/2015 1918
1,2-Dichlorobenzene	ND	500	490		10	98	70-130	09/01/2015 1918
1,3-Dichlorobenzene	ND	500	480		10	97	70-130	09/01/2015 1918
1,4-Dichlorobenzene	ND	500	470		10	95	70-130	09/01/2015 1918
Dichlorodifluoromethane	ND	500	590		10	118	10-158	09/01/2015 1918
1,1-Dichloroethane	ND	500	510		10	102	69-132	09/01/2015 1918
1,2-Dichloroethane	ND	500	590		10	119	70-130	09/01/2015 1918
1,1-Dichloroethene	ND	500	490		10	98	50-132	09/01/2015 1918
cis-1,2-Dichloroethene	ND	500	500		10	100	70-130	09/01/2015 1918
trans-1,2-Dichloroethene	ND	500	510		10	102	70-130	09/01/2015 1918
1,2-Dichloropropane	ND	500	500		10	100	71-126	09/01/2015 1918
cis-1,3-Dichloropropene	ND	500	460		10	92	69-130	09/01/2015 1918
trans-1,3-Dichloropropene	ND	500	440		10	89	73-131	09/01/2015 1918
Ethylbenzene	ND	500	490		10	99	70-130	09/01/2015 1918
2-Hexanone	ND	1000	1100		10	107	60-140	09/01/2015 1918
Isopropylbenzene	ND	500	470		10	93	70-130	09/01/2015 1918
Methyl acetate	ND	500	610		10	122	15-128	09/01/2015 1918
Methyl tertiary butyl ether (MTBE)	ND	500	550		10	111	70-130	09/01/2015 1918
4-Methyl-2-pentanone	ND	1000	1100		10	115	60-140	09/01/2015 1918
Methylcyclohexane	ND	500	450		10	91	70-130	09/01/2015 1918
Methylene chloride	ND	500	490		10	98	69-129	09/01/2015 1918
Styrene	ND	500	510		10	102	70-130	09/01/2015 1918
1,1,2,2-Tetrachloroethane	ND	500	470		10	94	60-155	09/01/2015 1918
Tetrachloroethene	ND	500	490		10	97	70-130	09/01/2015 1918
Toluene	ND	500	480		10	97	70-130	09/01/2015 1918
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	500	490		10	97	70-130	09/01/2015 1918
1,2,4-Trichlorobenzene	ND	500	490		10	99	70-130	09/01/2015 1918
1,1,1-Trichloroethane	ND	500	580		10	116	77-132	09/01/2015 1918
1,1,2-Trichloroethane	ND	500	490		10	99	77-132	09/01/2015 1918

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 MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QH27050-001MS
Batch: 83869
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	17	500	520		10	101	73-124	09/01/2015 1918
Trichlorofluoromethane	ND	500	550		10	110	60-140	09/01/2015 1918
Vinyl chloride	ND	500	460		10	92	29-159	09/01/2015 1918
Xylenes (total)	ND	1000	990		10	99	70-130	09/01/2015 1918

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		117	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QH27050-001MD
Batch: 83869
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	1000	1500	N	10	149	4.5	60-140	20	09/01/2015 1942
Benzene	ND	500	500		10	101	0.091	70-130	20	09/01/2015 1942
Bromodichloromethane	ND	500	530		10	106	2.8	71-143	20	09/01/2015 1942
Bromoform	ND	500	450		10	91	2.9	65-131	20	09/01/2015 1942
Bromomethane (Methyl bromide)	ND	500	490		10	98	8.6	36-168	20	09/01/2015 1942
2-Butanone (MEK)	ND	1000	1200		10	118	0.55	60-140	20	09/01/2015 1942
Carbon disulfide	ND	500	430		10	85	1.5	60-140	20	09/01/2015 1942
Carbon tetrachloride	ND	500	550		10	110	3.1	37-166	20	09/01/2015 1942
Chlorobenzene	ND	500	490		10	98	0.17	78-129	20	09/01/2015 1942
Chloroethane	ND	500	490		10	97	8.3	60-140	20	09/01/2015 1942
Chloroform	0.75	500	520		10	104	0.89	63-123	20	09/01/2015 1942
Chloromethane (Methyl chloride)	ND	500	540		10	107	14	20-158	20	09/01/2015 1942
Cyclohexane	ND	500	460		10	93	3.1	70-130	20	09/01/2015 1942
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	480		10	95	4.4	70-130	20	09/01/2015 1942
Dibromochloromethane	ND	500	500		10	100	1.1	74-134	20	09/01/2015 1942
1,2-Dibromoethane (EDB)	ND	500	500		10	99	0.073	70-130	20	09/01/2015 1942
1,2-Dichlorobenzene	ND	500	490		10	98	0.70	70-130	20	09/01/2015 1942
1,3-Dichlorobenzene	ND	500	470		10	95	1.9	70-130	20	09/01/2015 1942
1,4-Dichlorobenzene	ND	500	470		10	93	1.7	70-130	20	09/01/2015 1942
Dichlorodifluoromethane	ND	500	600		10	119	1.4	10-158	20	09/01/2015 1942
1,1-Dichloroethane	ND	500	520		10	103	1.2	69-132	20	09/01/2015 1942
1,2-Dichloroethane	ND	500	570		10	114	4.1	70-130	20	09/01/2015 1942
1,1-Dichloroethene	ND	500	500		10	100	1.8	50-132	20	09/01/2015 1942
cis-1,2-Dichloroethene	ND	500	510		10	102	1.5	70-130	20	09/01/2015 1942
trans-1,2-Dichloroethene	ND	500	510		10	102	0.20	70-130	20	09/01/2015 1942
1,2-Dichloropropane	ND	500	500		10	101	0.80	71-126	20	09/01/2015 1942
cis-1,3-Dichloropropene	ND	500	450		10	90	2.6	69-130	20	09/01/2015 1942
trans-1,3-Dichloropropene	ND	500	430		10	86	3.6	73-131	20	09/01/2015 1942
Ethylbenzene	ND	500	490		10	97	1.4	70-130	20	09/01/2015 1942
2-Hexanone	ND	1000	1000		10	104	2.9	60-140	20	09/01/2015 1942
Isopropylbenzene	ND	500	470		10	93	0.40	70-130	20	09/01/2015 1942
Methyl acetate	ND	500	590		10	117	4.0	15-128	20	09/01/2015 1942
Methyl tertiary butyl ether (MTBE)	ND	500	560		10	112	1.3	70-130	20	09/01/2015 1942
4-Methyl-2-pentanone	ND	1000	1100		10	111	2.8	60-140	20	09/01/2015 1942
Methylcyclohexane	ND	500	450		10	89	1.5	70-130	20	09/01/2015 1942
Methylene chloride	ND	500	500		10	100	1.3	69-129	20	09/01/2015 1942
Styrene	ND	500	500		10	100	1.9	70-130	20	09/01/2015 1942
1,1,2,2-Tetrachloroethane	ND	500	480		10	95	2.1	60-155	20	09/01/2015 1942
Tetrachloroethene	ND	500	470		10	94	2.8	70-130	20	09/01/2015 1942
Toluene	ND	500	480		10	96	1.3	70-130	20	09/01/2015 1942
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	500	480		10	97	0.55	70-130	20	09/01/2015 1942
1,2,4-Trichlorobenzene	ND	500	470		10	95	4.0	70-130	20	09/01/2015 1942
1,1,1-Trichloroethane	ND	500	570		10	113	2.1	77-132	20	09/01/2015 1942
1,1,2-Trichloroethane	ND	500	500		10	99	0.37	77-132	20	09/01/2015 1942

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 MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QH27050-001MD
Batch: 83869
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	17	500	510		10	101	0.36	73-124	20	09/01/2015 1942
Trichlorofluoromethane	ND	500	540		10	108	2.1	60-140	20	09/01/2015 1942
Vinyl chloride	ND	500	530		10	107	15	29-159	20	09/01/2015 1942
Xylenes (total)	ND	1000	980		10	98	0.54	70-130	20	09/01/2015 1942

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ83958-001
Batch: 83958
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	09/02/2015 0934
Benzene	ND		1	5.0	0.21	ug/L	09/02/2015 0934
Bromodichloromethane	ND		1	5.0	0.23	ug/L	09/02/2015 0934
Bromoform	ND		1	5.0	0.35	ug/L	09/02/2015 0934
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	09/02/2015 0934
2-Butanone (MEK)	ND		1	10	1.8	ug/L	09/02/2015 0934
Carbon disulfide	ND		1	5.0	0.45	ug/L	09/02/2015 0934
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	09/02/2015 0934
Chlorobenzene	ND		1	5.0	0.20	ug/L	09/02/2015 0934
Chloroethane	ND		1	5.0	0.28	ug/L	09/02/2015 0934
Chloroform	ND		1	5.0	0.21	ug/L	09/02/2015 0934
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	09/02/2015 0934
Cyclohexane	ND		1	5.0	0.30	ug/L	09/02/2015 0934
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	09/02/2015 0934
Dibromochloromethane	ND		1	5.0	0.23	ug/L	09/02/2015 0934
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	09/02/2015 0934
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	09/02/2015 0934
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	09/02/2015 0934
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	09/02/2015 0934
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	09/02/2015 0934
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	09/02/2015 0934
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	09/02/2015 0934
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	09/02/2015 0934
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	09/02/2015 0934
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	09/02/2015 0934
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	09/02/2015 0934
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	09/02/2015 0934
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	09/02/2015 0934
Ethylbenzene	ND		1	5.0	0.21	ug/L	09/02/2015 0934
2-Hexanone	ND		1	10	0.26	ug/L	09/02/2015 0934
Isopropylbenzene	ND		1	5.0	0.14	ug/L	09/02/2015 0934
Methyl acetate	ND		1	5.0	0.24	ug/L	09/02/2015 0934
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	09/02/2015 0934
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	09/02/2015 0934
Methylcyclohexane	ND		1	5.0	0.16	ug/L	09/02/2015 0934
Methylene chloride	ND		1	5.0	0.42	ug/L	09/02/2015 0934
Styrene	ND		1	5.0	0.13	ug/L	09/02/2015 0934
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	09/02/2015 0934
Tetrachloroethene	ND		1	5.0	0.22	ug/L	09/02/2015 0934
Toluene	ND		1	5.0	0.24	ug/L	09/02/2015 0934
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	09/02/2015 0934
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	09/02/2015 0934
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	09/02/2015 0934
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	09/02/2015 0934

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ83958-001
Batch: 83958
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	09/02/2015 0934
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	09/02/2015 0934
Vinyl chloride	ND		1	2.0	0.50	ug/L	09/02/2015 0934
Xylenes (total)	ND		1	5.0	0.32	ug/L	09/02/2015 0934

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		92	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ83958-002
Batch: 83958
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	108	60-140	09/02/2015 0835
Benzene	50	53		1	106	70-130	09/02/2015 0835
Bromodichloromethane	50	54		1	108	70-130	09/02/2015 0835
Bromoform	50	56		1	113	70-130	09/02/2015 0835
Bromomethane (Methyl bromide)	50	52		1	104	60-140	09/02/2015 0835
2-Butanone (MEK)	100	110		1	111	60-140	09/02/2015 0835
Carbon disulfide	50	56		1	112	60-140	09/02/2015 0835
Carbon tetrachloride	50	56		1	112	70-130	09/02/2015 0835
Chlorobenzene	50	52		1	104	70-130	09/02/2015 0835
Chloroethane	50	54		1	109	60-140	09/02/2015 0835
Chloroform	50	51		1	102	70-130	09/02/2015 0835
Chloromethane (Methyl chloride)	50	52		1	105	60-140	09/02/2015 0835
Cyclohexane	50	57		1	114	70-130	09/02/2015 0835
1,2-Dibromo-3-chloropropane (DBCP)	50	53		1	106	70-130	09/02/2015 0835
Dibromochloromethane	50	57		1	113	70-130	09/02/2015 0835
1,2-Dibromoethane (EDB)	50	53		1	105	70-130	09/02/2015 0835
1,4-Dichlorobenzene	50	52		1	105	70-130	09/02/2015 0835
1,3-Dichlorobenzene	50	53		1	105	70-130	09/02/2015 0835
1,2-Dichlorobenzene	50	53		1	107	70-130	09/02/2015 0835
Dichlorodifluoromethane	50	55		1	110	60-140	09/02/2015 0835
1,2-Dichloroethane	50	53		1	107	70-130	09/02/2015 0835
1,1-Dichloroethane	50	54		1	107	70-130	09/02/2015 0835
trans-1,2-Dichloroethene	50	55		1	110	70-130	09/02/2015 0835
cis-1,2-Dichloroethene	50	53		1	106	70-130	09/02/2015 0835
1,1-Dichloroethene	50	58		1	115	70-130	09/02/2015 0835
1,2-Dichloropropane	50	54		1	108	70-130	09/02/2015 0835
cis-1,3-Dichloropropene	50	55		1	110	70-130	09/02/2015 0835
trans-1,3-Dichloropropene	50	55		1	110	70-130	09/02/2015 0835
Ethylbenzene	50	55		1	109	70-130	09/02/2015 0835
2-Hexanone	100	110		1	109	60-140	09/02/2015 0835
Isopropylbenzene	50	55		1	110	70-130	09/02/2015 0835
Methyl acetate	50	59		1	118	60-140	09/02/2015 0835
Methyl tertiary butyl ether (MTBE)	50	54		1	108	70-130	09/02/2015 0835
4-Methyl-2-pentanone	100	110		1	110	60-140	09/02/2015 0835
Methylcyclohexane	50	58		1	116	70-130	09/02/2015 0835
Methylene chloride	50	54		1	107	70-130	09/02/2015 0835
Styrene	50	54		1	108	70-130	09/02/2015 0835
1,1,2,2-Tetrachloroethane	50	53		1	106	70-130	09/02/2015 0835
Tetrachloroethene	50	56		1	111	70-130	09/02/2015 0835
Toluene	50	55		1	110	70-130	09/02/2015 0835
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	59		1	118	70-130	09/02/2015 0835
1,2,4-Trichlorobenzene	50	57		1	115	70-130	09/02/2015 0835
1,1,2-Trichloroethane	50	53		1	107	70-130	09/02/2015 0835
1,1,1-Trichloroethane	50	54		1	108	70-130	09/02/2015 0835

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ83958-002
Batch: 83958
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	54		1	108	70-130	09/02/2015 0835
Trichlorofluoromethane	50	55		1	109	70-130	09/02/2015 0835
Vinyl chloride	50	51		1	103	70-130	09/02/2015 0835
Xylenes (total)	100	110		1	109	70-130	09/02/2015 0835

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ84037-001
Batch: 84037
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	09/02/2015 2121
Benzene	ND		1	5.0	0.21	ug/L	09/02/2015 2121
Bromodichloromethane	ND		1	5.0	0.23	ug/L	09/02/2015 2121
Bromoform	ND		1	5.0	0.35	ug/L	09/02/2015 2121
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	09/02/2015 2121
2-Butanone (MEK)	ND		1	10	1.8	ug/L	09/02/2015 2121
Carbon disulfide	ND		1	5.0	0.45	ug/L	09/02/2015 2121
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	09/02/2015 2121
Chlorobenzene	ND		1	5.0	0.20	ug/L	09/02/2015 2121
Chloroethane	ND		1	5.0	0.28	ug/L	09/02/2015 2121
Chloroform	**0.23**	**J**	**1**	**5.0**	**0.21**	**ug/L**	**09/02/2015 2121**
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	09/02/2015 2121
Cyclohexane	ND		1	5.0	0.30	ug/L	09/02/2015 2121
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	09/02/2015 2121
Dibromochloromethane	ND		1	5.0	0.23	ug/L	09/02/2015 2121
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	09/02/2015 2121
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	09/02/2015 2121
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	09/02/2015 2121
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	09/02/2015 2121
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	09/02/2015 2121
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	09/02/2015 2121
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	09/02/2015 2121
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	09/02/2015 2121
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	09/02/2015 2121
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	09/02/2015 2121
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	09/02/2015 2121
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	09/02/2015 2121
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	09/02/2015 2121
Ethylbenzene	ND		1	5.0	0.21	ug/L	09/02/2015 2121
2-Hexanone	ND		1	10	0.26	ug/L	09/02/2015 2121
Isopropylbenzene	ND		1	5.0	0.14	ug/L	09/02/2015 2121
Methyl acetate	ND		1	5.0	0.24	ug/L	09/02/2015 2121
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	09/02/2015 2121
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	09/02/2015 2121
Methylcyclohexane	ND		1	5.0	0.16	ug/L	09/02/2015 2121
Methylene chloride	ND		1	5.0	0.42	ug/L	09/02/2015 2121
Styrene	ND		1	5.0	0.13	ug/L	09/02/2015 2121
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	09/02/2015 2121
Tetrachloroethene	ND		1	5.0	0.22	ug/L	09/02/2015 2121
Toluene	ND		1	5.0	0.24	ug/L	09/02/2015 2121
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	09/02/2015 2121
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	09/02/2015 2121
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	09/02/2015 2121
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	09/02/2015 2121

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ84037-001
Batch: 84037
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	09/02/2015 2121
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	09/02/2015 2121
Vinyl chloride	ND		1	2.0	0.50	ug/L	09/02/2015 2121
Xylenes (total)	ND		1	5.0	0.32	ug/L	09/02/2015 2121

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ84037-002
Batch: 84037
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	108	60-140	09/02/2015 2035
Benzene	50	50		1	100	70-130	09/02/2015 2035
Bromodichloromethane	50	51		1	103	70-130	09/02/2015 2035
Bromoform	50	42		1	85	70-130	09/02/2015 2035
Bromomethane (Methyl bromide)	50	49		1	97	60-140	09/02/2015 2035
2-Butanone (MEK)	100	100		1	102	60-140	09/02/2015 2035
Carbon disulfide	50	48		1	96	60-140	09/02/2015 2035
Carbon tetrachloride	50	51		1	102	70-130	09/02/2015 2035
Chlorobenzene	50	48		1	96	70-130	09/02/2015 2035
Chloroethane	50	51		1	102	60-140	09/02/2015 2035
Chloroform	50	46		1	92	70-130	09/02/2015 2035
Chloromethane (Methyl chloride)	50	51		1	101	60-140	09/02/2015 2035
Cyclohexane	50	47		1	94	70-130	09/02/2015 2035
1,2-Dibromo-3-chloropropane (DBCP)	50	48		1	97	70-130	09/02/2015 2035
Dibromochloromethane	50	51		1	103	70-130	09/02/2015 2035
1,2-Dibromoethane (EDB)	50	53		1	105	70-130	09/02/2015 2035
1,4-Dichlorobenzene	50	47		1	95	70-130	09/02/2015 2035
1,3-Dichlorobenzene	50	50		1	99	70-130	09/02/2015 2035
1,2-Dichlorobenzene	50	50		1	100	70-130	09/02/2015 2035
Dichlorodifluoromethane	50	56		1	113	60-140	09/02/2015 2035
1,2-Dichloroethane	50	49		1	98	70-130	09/02/2015 2035
1,1-Dichloroethane	50	48		1	96	70-130	09/02/2015 2035
trans-1,2-Dichloroethene	50	49		1	99	70-130	09/02/2015 2035
cis-1,2-Dichloroethene	50	48		1	96	70-130	09/02/2015 2035
1,1-Dichloroethene	50	50		1	99	70-130	09/02/2015 2035
1,2-Dichloropropane	50	48		1	97	70-130	09/02/2015 2035
trans-1,3-Dichloropropene	50	52		1	105	70-130	09/02/2015 2035
cis-1,3-Dichloropropene	50	53		1	105	70-130	09/02/2015 2035
Ethylbenzene	50	49		1	98	70-130	09/02/2015 2035
2-Hexanone	100	110		1	108	60-140	09/02/2015 2035
Isopropylbenzene	50	51		1	102	70-130	09/02/2015 2035
Methyl acetate	50	52		1	104	60-140	09/02/2015 2035
Methyl tertiary butyl ether (MTBE)	50	52		1	105	70-130	09/02/2015 2035
4-Methyl-2-pentanone	100	110		1	107	60-140	09/02/2015 2035
Methylcyclohexane	50	52		1	105	70-130	09/02/2015 2035
Methylene chloride	50	50		1	100	70-130	09/02/2015 2035
Styrene	50	46		1	92	70-130	09/02/2015 2035
1,1,2,2-Tetrachloroethane	50	53		1	106	70-130	09/02/2015 2035
Tetrachloroethene	50	49		1	98	70-130	09/02/2015 2035
Toluene	50	50		1	99	70-130	09/02/2015 2035
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	50		1	100	70-130	09/02/2015 2035
1,2,4-Trichlorobenzene	50	48		1	97	70-130	09/02/2015 2035
1,1,2-Trichloroethane	50	53		1	105	70-130	09/02/2015 2035
1,1,1-Trichloroethane	50	49		1	97	70-130	09/02/2015 2035

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ84037-002
Batch: 84037
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	49		1	97	70-130	09/02/2015 2035
Trichlorofluoromethane	50	52		1	104	70-130	09/02/2015 2035
Vinyl chloride	50	50		1	100	70-130	09/02/2015 2035
Xylenes (total)	100	100		1	100	70-130	09/02/2015 2035

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 49356

Client: AECOM	Report to Contact: Scott Ross	Telephone No. / E-mail: 2032019662 Scott.Ross@AECOM.com	Quote No.
Address: 101 Research Ct	Sampler's Signature: x [signature]	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Columbia	State: SC	Zip Code: 29203	Printed Name: Justin Butler	
Project Name: Shakespeare			
Project No.: 60328303	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# of Containers	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Other	HCl	HNO3	Ice	NaOH	H2SO4	BTEX	Remarks / Cooler I.D.
MW-2I	8/26/15	1235	6	X						3			X	
MW-9I	8/26/15	1415	6	X						3			X	
MW-6S	8/26/15	1540	6	X						3			X	
MW-6I	8/27/15	1440	6	X						3			X	
MW-7I	8/27/15	1550	6	X						3			X	
Trip Blank				X						2			X	

QH27050

Turn Around Time Required (Prior lab approval required for expedited TAT.)	Sample Disposal	Possible Hazard Identification	QC Requirements (Specify)
☒ Standard ☐ Rush (Specify)	☐ Return to Client ☐ Disposal by Lab	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	

	Date	Time		Date	Time
1. Relinquished by: [signature]	8/27/15	1750	1. Received by		
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by: [signature]	Date: 8/27/15	Time: 1750

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

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack: Receipt Temp. 4.9 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: AECOM Cooler Inspected by/date: JGB / 8/27/15 Lot #: Q14270S0

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 1 / 4.9 / 4.9 °C ___ / ___ / ___ °C ___ / ___ / ___ °C ___ / ___ / ___ °C Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
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 on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☑	16934 8/27/15	24. Was the quote number used taken from the container label?

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) using SR # ___.

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

Sample(s) ___ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be > 2 by ___ Date: ___

Sample(s) ___ were not received at a pH of <2 and were adjusted accordingly using SR#

Sample labels applied by: JGB Verified by: ___ Date: 8/27/15

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

AECOM
4016 Salt Pointe Parkway
North Charleston, SC 29405
Attention: Scott Ross

Project Name: **Shakespeare - Newberry**

Project Number: **60328308**

Lot Number: **QH13026**

Date Completed: **08/21/2015**

Nisreen Saikaly
Project Manager

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

Case Narrative

AECOM

Lot Number: QH13026

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.

Sample Summary

AECOM

Lot Number: QH13026

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-21I	Aqueous	08/12/2015 1440	08/13/2015
002	MW-3I	Aqueous	08/12/2015 1605	08/13/2015
003	MW-20I	Aqueous	08/13/2015 1100	08/13/2015
004	MW-20I-A	Aqueous	08/13/2015 1100	08/13/2015
005	TRIP BLANK	Aqueous	08/12/2015	08/13/2015

(5 samples)

Executive Summary

AECOM

Lot Number: QH13026

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-21I	Aqueous	Acetone	8260B	4.9	J	ug/L	5
001	MW-21I	Aqueous	Chloroform	8260B	1.6	J	ug/L	5
002	MW-3I	Aqueous	Acetone	8260B	2.4	J	ug/L	7
002	MW-3I	Aqueous	Chloroform	8260B	2.2	J	ug/L	7
002	MW-3I	Aqueous	cis-1,2-Dichloroethene	8260B	2.3	J	ug/L	7
002	MW-3I	Aqueous	Tetrachloroethene	8260B	0.25	J	ug/L	7
002	MW-3I	Aqueous	Trichloroethene	8260B	4.8	J	ug/L	8
003	MW-20I	Aqueous	Chloroform	8260B	2.4	J	ug/L	9
003	MW-20I	Aqueous	cis-1,2-Dichloroethene	8260B	6.2	J	ug/L	9
003	MW-20I	Aqueous	Tetrachloroethene	8260B	2.4	J	ug/L	9
003	MW-20I	Aqueous	Trichloroethene	8260B	460		ug/L	10
004	MW-20I-A	Aqueous	Chloroform	8260B	2.7	J	ug/L	11
004	MW-20I-A	Aqueous	cis-1,2-Dichloroethene	8260B	5.9	J	ug/L	11
004	MW-20I-A	Aqueous	Tetrachloroethene	8260B	2.5	J	ug/L	11
004	MW-20I-A	Aqueous	Trichloroethene	8260B	460		ug/L	12
005	TRIP BLANK	Aqueous	Chloromethane (Methyl	8260B	0.21	J	ug/L	13

(16 detections)

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-001**
Description: **MW-21I**
Matrix: **Aqueous**
Date Sampled: **08/12/2015 1440**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/19/2015 1512	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**4.9**	**J**	**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**1.6**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-001**
Description: **MW-21I**
Matrix: **Aqueous**
Date Sampled: **08/12/2015 1440**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/19/2015 1512	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		91	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-002**
Description: **MW-3I**
Matrix: **Aqueous**
Date Sampled: **08/12/2015 1605**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/19/2015 1534	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**2.4**	**J**	**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**2.2**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**2.3**	**J**	**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**0.25**	**J**	**5.0**	**0.22**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-002**
Description: **MW-3I**
Matrix: **Aqueous**
Date Sampled: **08/12/2015 1605**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/19/2015 1534	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**4.8**	**J**	**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		74	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		87	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-003**
Description: **MW-20I**
Matrix: **Aqueous**
Date Sampled: **08/13/2015 1100**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/19/2015 1750	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	**67-66-3**	**8260B**	**2.4**	**J**	**25**	**1.1**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**6.2**	**J**	**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**2.4**	**J**	**25**	**1.1**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-003**
Description: **MW-20I**
Matrix: **Aqueous**
Date Sampled: **08/13/2015 1100**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/19/2015 1750	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**460**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	1.6	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		89	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-004**
Description: **MW-20I-A**
Matrix: **Aqueous**
Date Sampled: **08/13/2015 1100**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/19/2015 1812	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	**67-66-3**	**8260B**	**2.7**	**J**	**25**	**1.1**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**5.9**	**J**	**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**2.5**	**J**	**25**	**1.1**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-004**
Description: **MW-20I-A**
Matrix: **Aqueous**
Date Sampled: **08/13/2015 1100**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	08/19/2015 1812	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**460**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	1.6	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		92	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-005**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **08/12/2015**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/19/2015 1341	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	**74-87-3**	**8260B**	**0.21**	**J**	**5.0**	**0.19**	**ug/L**	**1**
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QH13026-005**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **08/12/2015**
Date Received: **08/13/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/19/2015 1341	PAP		82792

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82792-001
Batch: 82792
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	08/19/2015 1006
Benzene	ND		1	5.0	0.21	ug/L	08/19/2015 1006
Bromodichloromethane	ND		1	5.0	0.23	ug/L	08/19/2015 1006
Bromoform	ND		1	5.0	0.35	ug/L	08/19/2015 1006
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	08/19/2015 1006
2-Butanone (MEK)	ND		1	10	1.8	ug/L	08/19/2015 1006
Carbon disulfide	ND		1	5.0	0.45	ug/L	08/19/2015 1006
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	08/19/2015 1006
Chlorobenzene	ND		1	5.0	0.20	ug/L	08/19/2015 1006
Chloroethane	ND		1	5.0	0.28	ug/L	08/19/2015 1006
Chloroform	ND		1	5.0	0.21	ug/L	08/19/2015 1006
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	08/19/2015 1006
Cyclohexane	ND		1	5.0	0.30	ug/L	08/19/2015 1006
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	08/19/2015 1006
Dibromochloromethane	ND		1	5.0	0.23	ug/L	08/19/2015 1006
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	08/19/2015 1006
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	08/19/2015 1006
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	08/19/2015 1006
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	08/19/2015 1006
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	08/19/2015 1006
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	08/19/2015 1006
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	08/19/2015 1006
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	08/19/2015 1006
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	08/19/2015 1006
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	08/19/2015 1006
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	08/19/2015 1006
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	08/19/2015 1006
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	08/19/2015 1006
Ethylbenzene	ND		1	5.0	0.21	ug/L	08/19/2015 1006
2-Hexanone	ND		1	10	0.26	ug/L	08/19/2015 1006
Isopropylbenzene	ND		1	5.0	0.14	ug/L	08/19/2015 1006
Methyl acetate	ND		1	5.0	0.24	ug/L	08/19/2015 1006
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	08/19/2015 1006
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	08/19/2015 1006
Methylcyclohexane	ND		1	5.0	0.16	ug/L	08/19/2015 1006
Methylene chloride	ND		1	5.0	0.42	ug/L	08/19/2015 1006
Styrene	ND		1	5.0	0.13	ug/L	08/19/2015 1006
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	08/19/2015 1006
Tetrachloroethene	ND		1	5.0	0.22	ug/L	08/19/2015 1006
Toluene	ND		1	5.0	0.24	ug/L	08/19/2015 1006
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	08/19/2015 1006
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	08/19/2015 1006
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	08/19/2015 1006
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	08/19/2015 1006

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ82792-001
Batch: 82792
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	08/19/2015 1006
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	08/19/2015 1006
Vinyl chloride	ND		1	2.0	0.50	ug/L	08/19/2015 1006
Xylenes (total)	ND		1	5.0	0.32	ug/L	08/19/2015 1006

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		78	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82792-002
Batch: 82792
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	104	60-140	08/19/2015 0902
Benzene	50	53		1	106	70-130	08/19/2015 0902
Bromodichloromethane	50	52		1	104	70-130	08/19/2015 0902
Bromoform	50	52		1	104	70-130	08/19/2015 0902
Bromomethane (Methyl bromide)	50	55		1	110	60-140	08/19/2015 0902
2-Butanone (MEK)	100	110		1	109	60-140	08/19/2015 0902
Carbon disulfide	50	62		1	123	60-140	08/19/2015 0902
Carbon tetrachloride	50	58		1	115	70-130	08/19/2015 0902
Chlorobenzene	50	53		1	105	70-130	08/19/2015 0902
Chloroethane	50	53		1	106	42-163	08/19/2015 0902
Chloroform	50	51		1	102	70-130	08/19/2015 0902
Chloromethane (Methyl chloride)	50	55		1	111	60-140	08/19/2015 0902
Cyclohexane	50	58		1	117	70-130	08/19/2015 0902
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	93	70-130	08/19/2015 0902
Dibromochloromethane	50	52		1	103	70-130	08/19/2015 0902
1,2-Dibromoethane (EDB)	50	52		1	104	70-130	08/19/2015 0902
1,4-Dichlorobenzene	50	52		1	103	70-130	08/19/2015 0902
1,2-Dichlorobenzene	50	54		1	108	70-130	08/19/2015 0902
1,3-Dichlorobenzene	50	53		1	106	70-130	08/19/2015 0902
Dichlorodifluoromethane	50	62		1	124	60-140	08/19/2015 0902
1,2-Dichloroethane	50	53		1	107	70-130	08/19/2015 0902
1,1-Dichloroethane	50	54		1	108	70-130	08/19/2015 0902
1,1-Dichloroethene	50	57		1	113	70-130	08/19/2015 0902
trans-1,2-Dichloroethene	50	55		1	111	70-130	08/19/2015 0902
cis-1,2-Dichloroethene	50	55		1	110	70-130	08/19/2015 0902
1,2-Dichloropropane	50	52		1	103	70-130	08/19/2015 0902
cis-1,3-Dichloropropene	50	52		1	105	70-130	08/19/2015 0902
trans-1,3-Dichloropropene	50	51		1	103	70-130	08/19/2015 0902
Ethylbenzene	50	53		1	106	70-130	08/19/2015 0902
2-Hexanone	100	100		1	102	60-140	08/19/2015 0902
Isopropylbenzene	50	55		1	110	70-130	08/19/2015 0902
Methyl acetate	50	61		1	122	60-140	08/19/2015 0902
Methyl tertiary butyl ether (MTBE)	50	54		1	109	70-130	08/19/2015 0902
4-Methyl-2-pentanone	100	100		1	102	60-140	08/19/2015 0902
Methylcyclohexane	50	56		1	113	70-130	08/19/2015 0902
Methylene chloride	50	52		1	105	70-130	08/19/2015 0902
Styrene	50	53		1	106	70-130	08/19/2015 0902
1,1,2,2-Tetrachloroethane	50	51		1	102	70-130	08/19/2015 0902
Tetrachloroethene	50	52		1	104	70-130	08/19/2015 0902
Toluene	50	53		1	107	70-130	08/19/2015 0902
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	58		1	116	70-130	08/19/2015 0902
1,2,4-Trichlorobenzene	50	51		1	103	70-130	08/19/2015 0902
1,1,1-Trichloroethane	50	56		1	112	70-130	08/19/2015 0902
1,1,2-Trichloroethane	50	51		1	103	70-130	08/19/2015 0902

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ82792-002
Batch: 82792
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	54		1	108	70-130	08/19/2015 0902
Trichlorofluoromethane	50	55		1	110	70-130	08/19/2015 0902
Vinyl chloride	50	55		1	109	70-130	08/19/2015 0902
Xylenes (total)	100	110		1	106	70-130	08/19/2015 0902

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		75	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

Number 49355

Client	Report to Contact	Telephone No. / E-mail	Quote No.
AECOM	Scott Ross	803-254-4460 Scott.Ross@AECOM.com	

Address: 101 Research Drive
City: Columbia | State: SC | Zip Code: 29203
Project Name: Shakespeare
Project No.: 60328308
P.O. No.:
Sampler's Signature: x
Printed Name: Justin Butler
Analysis (Attach list if more space is needed): 8260
Page 1 of 1

QH13026

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Remarks / Cooler I.D.
MW-21F	8/12/15	1440	G	X						3			X	
MW-33	8/12/15	1605	G	X						3			X	
MW-20I	8/13/15	1100	G	X						3			X	
MW-20I-a	8/13/15	1100	G	X						3			X	
Trip Blank	—	—		X						2			X	

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

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	8/13/15	1340	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	8-13-15	1240

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

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 2.7 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: AECOM Cooler Inspected by/date: KB / 8/13/15 Lot #: QH13026

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 12.7 / 2.7 °C / / °C / / °C / / °C Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
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 on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	16934	24. Was the quote number used taken from the container label?
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) using SR #_____.			
Sample(s)_____ were received with bubbles >6 mm in diameter.			
Sample(s)_____ were received with TRC >0.2 mg/L (If #21 is No)			
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____ Sample(s)_____ were not received at a pH of <2 and were adjusted accordingly using SR#			
Sample labels applied by: KB Verified by:_____ Date: 8/13/15			

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

AECOM
4016 Salt Pointe Parkway
North Charleston, SC 29405
Attention: Scott Ross

Project Name: **Shakespeare - Newberry**

Project Number: **60328308.11**

Lot Number: **QG08070**

Date Completed: **07/20/2015**

Date Revised: **08/25/2015**

Nisreen Saikaly
Project Manager

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

Case Narrative

AECOM

Lot Number: QG08070

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.

Report Revision 08/25/2015

This report is revised to update the Project number.

Sample Summary

AECOM

Lot Number: QG08070

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-5	Aqueous	07/07/2015 1340	07/08/2015
002	MW-7	Aqueous	07/07/2015 1432	07/08/2015
003	MW-1	Aqueous	07/07/2015 1530	07/08/2015
004	MW-3	Aqueous	07/07/2015 1627	07/08/2015
005	DUP-1	Aqueous	07/07/2015	07/08/2015
006	MW-4	Aqueous	07/08/2015 0905	07/08/2015
007	MW-6	Aqueous	07/08/2015 1000	07/08/2015
008	MW-2	Aqueous	07/08/2015 1055	07/08/2015
009	MW-8	Aqueous	07/08/2015 1147	07/08/2015
010	MW-9	Aqueous	07/08/2015 1305	07/08/2015
011	TMW-32	Aqueous	07/08/2015 1350	07/08/2015
012	TMW-24	Aqueous	07/08/2015 1425	07/08/2015
013	TMW-25	Aqueous	07/08/2015 1515	
014	TRIP BLANK	Aqueous	07/08/2015	07/08/2015

(14 samples)

Executive Summary

AECOM

Lot Number: QG08070

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-5	Aqueous	Chloroform	8260B	0.90	J	ug/L	6
001	MW-5	Aqueous	Toluene	8260B	0.79	J	ug/L	6
001	MW-5	Aqueous	Trichloroethene	8260B	71		ug/L	7
002	MW-7	Aqueous	Benzene	8260B	0.36	J	ug/L	8
002	MW-7	Aqueous	1,1-Dichloroethane	8260B	1.9	J	ug/L	8
002	MW-7	Aqueous	1,1-Dichloroethene	8260B	3.6	J	ug/L	8
002	MW-7	Aqueous	cis-1,2-Dichloroethene	8260B	110		ug/L	8
002	MW-7	Aqueous	trans-1,2-Dichloroethene	8260B	1.5	J	ug/L	8
002	MW-7	Aqueous	Isopropylbenzene	8260B	2.2	J	ug/L	8
002	MW-7	Aqueous	Tetrachloroethene	8260B	0.81	J	ug/L	8
002	MW-7	Aqueous	Trichloroethene	8260B	69		ug/L	9
002	MW-7	Aqueous	Vinyl chloride	8260B	3.6		ug/L	9
002	MW-7	Aqueous	Barium	6010C	0.13		mg/L	10
002	MW-7	Aqueous	Calcium	6010C	0.54	J	mg/L	10
002	MW-7	Aqueous	Cobalt	6010C	0.0028	J	mg/L	10
002	MW-7	Aqueous	Iron	6010C	0.038	J	mg/L	10
002	MW-7	Aqueous	Magnesium	6010C	0.51	J	mg/L	10
002	MW-7	Aqueous	Manganese	6010C	0.10		mg/L	10
002	MW-7	Aqueous	Mercury	7470A	0.000048	J	mg/L	10
002	MW-7	Aqueous	Potassium	6010C	2.6	J	mg/L	10
002	MW-7	Aqueous	Sodium	6010C	6.4		mg/L	10
002	MW-7	Aqueous	Zinc	6010C	0.0098	J	mg/L	10
003	MW-1	Aqueous	Barium	6010C	0.085		mg/L	13
003	MW-1	Aqueous	Calcium	6010C	0.54	J	mg/L	13
003	MW-1	Aqueous	Cobalt	6010C	0.0029	J	mg/L	13
003	MW-1	Aqueous	Iron	6010C	0.080	J	mg/L	13
003	MW-1	Aqueous	Magnesium	6010C	0.27	J	mg/L	13
003	MW-1	Aqueous	Manganese	6010C	0.13		mg/L	13
003	MW-1	Aqueous	Potassium	6010C	2.6	J	mg/L	13
003	MW-1	Aqueous	Sodium	6010C	3.1	J	mg/L	13
003	MW-1	Aqueous	Zinc	6010C	0.0068	J	mg/L	13
005	DUP-1	Aqueous	Benzene	8260B	0.45	J	ug/L	16
005	DUP-1	Aqueous	1,1-Dichloroethane	8260B	1.8	J	ug/L	16
005	DUP-1	Aqueous	1,1-Dichloroethene	8260B	3.5	J	ug/L	16
005	DUP-1	Aqueous	cis-1,2-Dichloroethene	8260B	110		ug/L	16
005	DUP-1	Aqueous	trans-1,2-Dichloroethene	8260B	1.6	J	ug/L	16
005	DUP-1	Aqueous	Isopropylbenzene	8260B	2.2	J	ug/L	16
005	DUP-1	Aqueous	Trichloroethene	8260B	69		ug/L	17
005	DUP-1	Aqueous	Vinyl chloride	8260B	3.3		ug/L	17
005	DUP-1	Aqueous	Barium	6010C	0.13		mg/L	18
005	DUP-1	Aqueous	Calcium	6010C	0.49	J	mg/L	18
005	DUP-1	Aqueous	Cobalt	6010C	0.0028	J	mg/L	18
005	DUP-1	Aqueous	Magnesium	6010C	0.49	J	mg/L	18
005	DUP-1	Aqueous	Manganese	6010C	0.097		mg/L	18
005	DUP-1	Aqueous	Mercury	7470A	0.000063	J	mg/L	18

Executive Summary (Continued)

Lot Number: QG08070

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	DUP-1	Aqueous	Potassium	6010C	2.4	J	mg/L	18
005	DUP-1	Aqueous	Sodium	6010C	6.1		mg/L	18
005	DUP-1	Aqueous	Zinc	6010C	0.0079	J	mg/L	18
006	MW-4	Aqueous	Benzene	8260B	0.53	J	ug/L	19
006	MW-4	Aqueous	cis-1,2-Dichloroethene	8260B	14		ug/L	19
006	MW-4	Aqueous	trans-1,2-Dichloroethene	8260B	0.87	J	ug/L	19
006	MW-4	Aqueous	Trichloroethene	8260B	3.5	J	ug/L	20
007	MW-6	Aqueous	cis-1,2-Dichloroethene	8260B	740		ug/L	21
007	MW-6	Aqueous	trans-1,2-Dichloroethene	8260B	26		ug/L	21
007	MW-6	Aqueous	Isopropylbenzene	8260B	3.1	J	ug/L	21
007	MW-6	Aqueous	Trichloroethene	8260B	64		ug/L	22
007	MW-6	Aqueous	Vinyl chloride	8260B	15		ug/L	22
009	MW-8	Aqueous	Chloroform	8260B	3.1	J	ug/L	25
009	MW-8	Aqueous	1,1-Dichloroethene	8260B	2.8	J	ug/L	25
009	MW-8	Aqueous	cis-1,2-Dichloroethene	8260B	78		ug/L	25
009	MW-8	Aqueous	trans-1,2-Dichloroethene	8260B	3.5	J	ug/L	25
009	MW-8	Aqueous	Isopropylbenzene	8260B	0.74	J	ug/L	25
009	MW-8	Aqueous	Tetrachloroethene	8260B	8.4		ug/L	25
009	MW-8	Aqueous	Trichloroethene	8260B	1100		ug/L	26
010	MW-9	Aqueous	cis-1,2-Dichloroethene	8260B	11	J	ug/L	27
010	MW-9	Aqueous	Trichloroethene	8260B	340		ug/L	28
011	TMW-32	Aqueous	Acetone	8260B	11	J	ug/L	29
011	TMW-32	Aqueous	Chloroform	8260B	0.33	J	ug/L	29
011	TMW-32	Aqueous	cis-1,2-Dichloroethene	8260B	3.8	J	ug/L	29
011	TMW-32	Aqueous	Styrene	8260B	23		ug/L	29
011	TMW-32	Aqueous	Trichloroethene	8260B	200		ug/L	30
012	TMW-24	Aqueous	Acetone	8260B	58	J	ug/L	31
012	TMW-24	Aqueous	Chloroform	8260B	2.5	J	ug/L	31
012	TMW-24	Aqueous	cis-1,2-Dichloroethene	8260B	4.0	J	ug/L	31
012	TMW-24	Aqueous	Trichloroethene	8260B	1200		ug/L	32

(75 detections)

Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QG08070-001**

Description: **MW-5** Matrix: **Aqueous**

Date Sampled: **07/07/2015 1340**

Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1635	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.90**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.79**	**J**	**5.0**	**0.24**	**ug/L**	**1**
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-001**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1340**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1635	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**71**		**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		114	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-002**
Description: **MW-7**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1432**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1657	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.36**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260B**	**1.9**	**J**	**5.0**	**0.19**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**3.6**	**J**	**5.0**	**0.31**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**110**		**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**1.5**	**J**	**5.0**	**0.33**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	**98-82-8**	**8260B**	**2.2**	**J**	**5.0**	**0.14**	**ug/L**	**1**
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**0.81**	**J**	**5.0**	**0.22**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

PQL = Practical quantitation limit
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J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
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Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-002**
Description: **MW-7**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1432**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1657	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**69**		**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**3.6**		**2.0**	**0.50**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		125	70-130
Toluene-d8		122	70-130

PQL = Practical quantitation limit
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: **AECOM**
Laboratory ID: **QG08070-002**
Description: **MW-7**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1432**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/10/2015 1545	COH	07/10/2015 1208	79295
1	3005A	6010C	1	07/10/2015 1642	ECS	07/09/2015 1800	79254

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.40	0.095	mg/L	1
Antimony	7440-36-0	6010C	ND		0.020	0.0066	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.015	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.13**		**0.025**	**0.0019**	**mg/L**	**1**
Beryllium	7440-41-7	6010C	ND		0.0050	0.00022	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0050	0.00054	mg/L	1
Calcium	**7440-70-2**	**6010C**	**0.54**	**J**	**5.0**	**0.13**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.010	0.00072	mg/L	1
Cobalt	**7440-48-4**	**6010C**	**0.0028**	**J**	**0.025**	**0.0013**	**mg/L**	**1**
Copper	7440-50-8	6010C	ND		0.010	0.0018	mg/L	1
Iron	**7439-89-6**	**6010C**	**0.038**	**J**	**0.10**	**0.033**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Magnesium	**7439-95-4**	**6010C**	**0.51**	**J**	**5.0**	**0.26**	**mg/L**	**1**
Manganese	**7439-96-5**	**6010C**	**0.10**		**0.015**	**0.00081**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000048**	**J**	**0.00010**	**0.000028**	**mg/L**	**1**
Nickel	7440-02-0	6010C	ND		0.040	0.0028	mg/L	1
Potassium	**7440-09-7**	**6010C**	**2.6**	**J**	**5.0**	**0.30**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.020	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.010	0.0021	mg/L	1
Sodium	**7440-23-5**	**6010C**	**6.4**		**5.0**	**0.33**	**mg/L**	**1**
Thallium	7440-28-0	6010C	ND		0.050	0.0049	mg/L	1
Vanadium	7440-62-2	6010C	ND		0.050	0.0026	mg/L	1
Zinc	**7440-66-6**	**6010C**	**0.0098**	**J**	**0.020**	**0.0022**	**mg/L**	**1**

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ND = Not detected at or above the MDL
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
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Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-003**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1530**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1720	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-003**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1530**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1720	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		123	70-130
Toluene-d8		120	70-130

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

TAL Metals

Client: **AECOM**
Laboratory ID: **QG08070-003**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1530**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/10/2015 1547	COH	07/10/2015 1208	79295
1	3005A	6010C	1	07/10/2015 1647	ECS	07/09/2015 1800	79254

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.40	0.095	mg/L	1
Antimony	7440-36-0	6010C	ND		0.020	0.0066	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.015	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.085**		**0.025**	**0.0019**	**mg/L**	**1**
Beryllium	7440-41-7	6010C	ND		0.0050	0.00022	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0050	0.00054	mg/L	1
Calcium	**7440-70-2**	**6010C**	**0.54**	**J**	**5.0**	**0.13**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.010	0.00072	mg/L	1
Cobalt	**7440-48-4**	**6010C**	**0.0029**	**J**	**0.025**	**0.0013**	**mg/L**	**1**
Copper	7440-50-8	6010C	ND		0.010	0.0018	mg/L	1
Iron	**7439-89-6**	**6010C**	**0.080**	**J**	**0.10**	**0.033**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Magnesium	**7439-95-4**	**6010C**	**0.27**	**J**	**5.0**	**0.26**	**mg/L**	**1**
Manganese	**7439-96-5**	**6010C**	**0.13**		**0.015**	**0.00081**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	0.0028	mg/L	1
Potassium	**7440-09-7**	**6010C**	**2.6**	**J**	**5.0**	**0.30**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.020	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.010	0.0021	mg/L	1
Sodium	**7440-23-5**	**6010C**	**3.1**	**J**	**5.0**	**0.33**	**mg/L**	**1**
Thallium	7440-28-0	6010C	ND		0.050	0.0049	mg/L	1
Vanadium	7440-62-2	6010C	ND		0.050	0.0026	mg/L	1
Zinc	**7440-66-6**	**6010C**	**0.0068**	**J**	**0.020**	**0.0022**	**mg/L**	**1**

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1627**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1742	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **07/07/2015 1627**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1742	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		118	70-130
Toluene-d8		115	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-005**
Description: **DUP-1**
Matrix: **Aqueous**
Date Sampled: **07/07/2015**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1804	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.45**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260B**	**1.8**	**J**	**5.0**	**0.19**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**3.5**	**J**	**5.0**	**0.31**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**110**		**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**1.6**	**J**	**5.0**	**0.33**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	**98-82-8**	**8260B**	**2.2**	**J**	**5.0**	**0.14**	**ug/L**	**1**
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-005**
Description: **DUP-1**
Matrix: **Aqueous**
Date Sampled: **07/07/2015**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1804	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**69**		**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**3.3**		**2.0**	**0.50**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		124	70-130
Toluene-d8		121	70-130

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

TAL Metals

Client: **AECOM**
Laboratory ID: **QG08070-005**
Description: **DUP-1**
Matrix: **Aqueous**
Date Sampled: **07/07/2015**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/10/2015 1549	COH	07/10/2015 1208	79295
1	3005A	6010C	1	07/10/2015 1652	ECS	07/09/2015 1800	79254

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.40	0.095	mg/L	1
Antimony	7440-36-0	6010C	ND		0.020	0.0066	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.015	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.13**		**0.025**	**0.0019**	**mg/L**	**1**
Beryllium	7440-41-7	6010C	ND		0.0050	0.00022	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0050	0.00054	mg/L	1
Calcium	**7440-70-2**	**6010C**	**0.49**	**J**	**5.0**	**0.13**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.010	0.00072	mg/L	1
Cobalt	**7440-48-4**	**6010C**	**0.0028**	**J**	**0.025**	**0.0013**	**mg/L**	**1**
Copper	7440-50-8	6010C	ND		0.010	0.0018	mg/L	1
Iron	7439-89-6	6010C	ND		0.10	0.033	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Magnesium	**7439-95-4**	**6010C**	**0.49**	**J**	**5.0**	**0.26**	**mg/L**	**1**
Manganese	**7439-96-5**	**6010C**	**0.097**		**0.015**	**0.00081**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000063**	**J**	**0.00010**	**0.000028**	**mg/L**	**1**
Nickel	7440-02-0	6010C	ND		0.040	0.0028	mg/L	1
Potassium	**7440-09-7**	**6010C**	**2.4**	**J**	**5.0**	**0.30**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.020	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.010	0.0021	mg/L	1
Sodium	**7440-23-5**	**6010C**	**6.1**		**5.0**	**0.33**	**mg/L**	**1**
Thallium	7440-28-0	6010C	ND		0.050	0.0049	mg/L	1
Vanadium	7440-62-2	6010C	ND		0.050	0.0026	mg/L	1
Zinc	**7440-66-6**	**6010C**	**0.0079**	**J**	**0.020**	**0.0022**	**mg/L**	**1**

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

Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QG08070-006**

Description: **MW-4** Matrix: **Aqueous**

Date Sampled: **07/08/2015 0905**

Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1826	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.53**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**14**		**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**0.87**	**J**	**5.0**	**0.33**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-006**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 0905**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1826	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**3.5**	**J**	**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		123	70-130
Toluene-d8		120	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QG08070-007**

Description: **MW-6** Matrix: **Aqueous**

Date Sampled: **07/08/2015 1000**

Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/10/2015 1849	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	67-66-3	8260B	ND		25	1.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**740**		**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**26**		**25**	**1.7**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	**98-82-8**	**8260B**	**3.1**	**J**	**25**	**0.70**	**ug/L**	**1**
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		25	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-007**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1000**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/10/2015 1849	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**64**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**15**		**10**	**2.5**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		122	70-130
Toluene-d8		121	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
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Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-008**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1055**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	07/17/2015 1337	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	2
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	2
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	2
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	2
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	2
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	2
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	2
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	2
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	2
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	2
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	2
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	2

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-008**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1055**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	07/17/2015 1337	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		95	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-009**
Description: **MW-8**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1147**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1933	EH1		79484
2	5030B	8260B	20	07/17/2015 1859	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**3.1**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**2.8**	**J**	**5.0**	**0.31**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**78**		**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**3.5**	**J**	**5.0**	**0.33**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	**98-82-8**	**8260B**	**0.74**	**J**	**5.0**	**0.14**	**ug/L**	**1**
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**8.4**		**5.0**	**0.22**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-009**
Description: **MW-8**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1147**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 1933	EH1		79484
2	5030B	8260B	20	07/17/2015 1859	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1100**		**100**	**3.2**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130		85	70-130
Bromofluorobenzene		122	70-130		110	70-130
Toluene-d8		123	70-130		97	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QG08070-010**

Description: **MW-9** Matrix: **Aqueous**

Date Sampled: **07/08/2015 1305**

Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/10/2015 1955	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	67-66-3	8260B	ND		25	1.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**11**	**J**	**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		25	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-010**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1305**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/10/2015 1955	EH1		79484

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**340**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		121	70-130
Toluene-d8		122	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-011**
Description: **TMW-32**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1350**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 2018	EH1		79484
2	5030B	8260B	5	07/17/2015 1921	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**11**	**J**	**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.33**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**3.8**	**J**	**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	**100-42-5**	**8260B**	**23**		**5.0**	**0.13**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-011**
Description: **TMW-32**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1350**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/10/2015 2018	EH1		79484
2	5030B	8260B	5	07/17/2015 1921	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**200**		**25**	**0.80**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130		87	70-130
Bromofluorobenzene		126	70-130		115	70-130
Toluene-d8		120	70-130		98	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-012**
Description: **TMW-24**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1425**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/10/2015 2040	EH1		79484
2	5030B	8260B	10	07/17/2015 1943	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**58**	**J**	**100**	**8.1**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	**67-66-3**	**8260B**	**2.5**	**J**	**25**	**1.1**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**4.0**	**J**	**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		25	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-012**
Description: **TMW-24**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1425**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/10/2015 2040	EH1		79484
2	5030B	8260B	10	07/17/2015 1943	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1200**		**50**	**1.6**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130		87	70-130
Bromofluorobenzene		123	70-130		109	70-130
Toluene-d8		121	70-130		98	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-014**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **07/08/2015**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/17/2015 1146	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG08070-014**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **07/08/2015**
Date Received: **07/08/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/17/2015 1146	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		96	70-130

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

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ79484-001
Batch: 79484
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	07/10/2015 1601
Benzene	ND		1	5.0	0.21	ug/L	07/10/2015 1601
Bromodichloromethane	ND		1	5.0	0.23	ug/L	07/10/2015 1601
Bromoform	ND		1	5.0	0.35	ug/L	07/10/2015 1601
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	07/10/2015 1601
2-Butanone (MEK)	ND		1	10	1.8	ug/L	07/10/2015 1601
Carbon disulfide	ND		1	5.0	0.45	ug/L	07/10/2015 1601
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	07/10/2015 1601
Chlorobenzene	ND		1	5.0	0.20	ug/L	07/10/2015 1601
Chloroethane	ND		1	5.0	0.28	ug/L	07/10/2015 1601
Chloroform	ND		1	5.0	0.21	ug/L	07/10/2015 1601
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	07/10/2015 1601
Cyclohexane	ND		1	5.0	0.30	ug/L	07/10/2015 1601
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	07/10/2015 1601
Dibromochloromethane	ND		1	5.0	0.23	ug/L	07/10/2015 1601
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	07/10/2015 1601
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/10/2015 1601
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/10/2015 1601
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	07/10/2015 1601
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	07/10/2015 1601
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	07/10/2015 1601
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	07/10/2015 1601
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	07/10/2015 1601
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	07/10/2015 1601
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	07/10/2015 1601
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	07/10/2015 1601
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	07/10/2015 1601
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/10/2015 1601
Ethylbenzene	ND		1	5.0	0.21	ug/L	07/10/2015 1601
2-Hexanone	ND		1	10	0.26	ug/L	07/10/2015 1601
Isopropylbenzene	ND		1	5.0	0.14	ug/L	07/10/2015 1601
Methyl acetate	ND		1	5.0	0.24	ug/L	07/10/2015 1601
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	07/10/2015 1601
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	07/10/2015 1601
Methylcyclohexane	ND		1	5.0	0.16	ug/L	07/10/2015 1601
Methylene chloride	ND		1	5.0	0.42	ug/L	07/10/2015 1601
Styrene	ND		1	5.0	0.13	ug/L	07/10/2015 1601
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	07/10/2015 1601
Tetrachloroethene	ND		1	5.0	0.22	ug/L	07/10/2015 1601
Toluene	ND		1	5.0	0.24	ug/L	07/10/2015 1601
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	07/10/2015 1601
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	07/10/2015 1601
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	07/10/2015 1601
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	07/10/2015 1601

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ79484-001
Batch: 79484
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	07/10/2015 1601
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	07/10/2015 1601
Vinyl chloride	ND		1	2.0	0.50	ug/L	07/10/2015 1601
Xylenes (total)	ND		1	5.0	1.7	ug/L	07/10/2015 1601

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		118	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		117	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ79484-002
Batch: 79484
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	104	60-140	07/10/2015 1531
Benzene	50	49		1	99	70-130	07/10/2015 1531
Bromodichloromethane	50	50		1	100	70-130	07/10/2015 1531
Bromoform	50	48		1	95	70-130	07/10/2015 1531
Bromomethane (Methyl bromide)	50	48		1	96	60-140	07/10/2015 1531
2-Butanone (MEK)	100	100		1	101	60-140	07/10/2015 1531
Carbon disulfide	50	52		1	103	60-140	07/10/2015 1531
Carbon tetrachloride	50	52		1	103	70-130	07/10/2015 1531
Chlorobenzene	50	48		1	95	70-130	07/10/2015 1531
Chloroethane	50	44		1	87	42-163	07/10/2015 1531
Chloroform	50	49		1	97	70-130	07/10/2015 1531
Chloromethane (Methyl chloride)	50	50		1	101	60-140	07/10/2015 1531
Cyclohexane	50	49		1	97	70-130	07/10/2015 1531
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	89	70-130	07/10/2015 1531
Dibromochloromethane	50	48		1	95	70-130	07/10/2015 1531
1,2-Dibromoethane (EDB)	50	48		1	96	70-130	07/10/2015 1531
1,4-Dichlorobenzene	50	49		1	98	70-130	07/10/2015 1531
1,3-Dichlorobenzene	50	50		1	99	70-130	07/10/2015 1531
1,2-Dichlorobenzene	50	49		1	97	70-130	07/10/2015 1531
Dichlorodifluoromethane	50	48		1	95	60-140	07/10/2015 1531
1,2-Dichloroethane	50	49		1	97	70-130	07/10/2015 1531
1,1-Dichloroethane	50	50		1	99	70-130	07/10/2015 1531
trans-1,2-Dichloroethene	50	46		1	92	70-130	07/10/2015 1531
cis-1,2-Dichloroethene	50	46		1	93	70-130	07/10/2015 1531
1,1-Dichloroethene	50	48		1	97	70-130	07/10/2015 1531
1,2-Dichloropropane	50	46		1	92	70-130	07/10/2015 1531
trans-1,3-Dichloropropene	50	42		1	84	70-130	07/10/2015 1531
cis-1,3-Dichloropropene	50	50		1	100	70-130	07/10/2015 1531
Ethylbenzene	50	51		1	103	70-130	07/10/2015 1531
2-Hexanone	100	89		1	89	60-140	07/10/2015 1531
Isopropylbenzene	50	49		1	97	70-130	07/10/2015 1531
Methyl acetate	50	52		1	105	60-140	07/10/2015 1531
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	07/10/2015 1531
4-Methyl-2-pentanone	100	100		1	101	60-140	07/10/2015 1531
Methylcyclohexane	50	46		1	91	70-130	07/10/2015 1531
Methylene chloride	50	49		1	97	70-130	07/10/2015 1531
Styrene	50	51		1	103	70-130	07/10/2015 1531
1,1,2,2-Tetrachloroethane	50	45		1	89	70-130	07/10/2015 1531
Tetrachloroethene	50	45		1	90	70-130	07/10/2015 1531
Toluene	50	44		1	88	70-130	07/10/2015 1531
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	46		1	92	70-130	07/10/2015 1531
1,2,4-Trichlorobenzene	50	55		1	111	70-130	07/10/2015 1531
1,1,2-Trichloroethane	50	47		1	94	70-130	07/10/2015 1531
1,1,1-Trichloroethane	50	51		1	102	70-130	07/10/2015 1531

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ79484-002
Batch: 79484
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	51		1	102	70-130	07/10/2015 1531
Trichlorofluoromethane	50	44		1	88	70-130	07/10/2015 1531
Vinyl chloride	50	50		1	101	70-130	07/10/2015 1531
Xylenes (total)	100	100		1	102	70-130	07/10/2015 1531

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		80	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QG08070-012MS
Batch: 79484
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	58	500	580		5	104	60-140	07/10/2015 2102
Benzene	ND	250	290		5	117	70-130	07/10/2015 2102
Bromodichloromethane	ND	250	300		5	120	71-143	07/10/2015 2102
Bromoform	ND	250	270		5	109	65-131	07/10/2015 2102
Bromomethane (Methyl bromide)	ND	250	270		5	108	36-168	07/10/2015 2102
2-Butanone (MEK)	ND	500	530		5	106	60-140	07/10/2015 2102
Carbon disulfide	ND	250	270		5	109	60-140	07/10/2015 2102
Carbon tetrachloride	ND	250	330		5	130	37-166	07/10/2015 2102
Chlorobenzene	ND	250	280		5	113	78-129	07/10/2015 2102
Chloroethane	ND	250	250		5	101	60-140	07/10/2015 2102
Chloroform	2.5	250	280		5	112	63-123	07/10/2015 2102
Chloromethane (Methyl chloride)	ND	250	280		5	113	20-158	07/10/2015 2102
Cyclohexane	ND	250	290		5	116	70-130	07/10/2015 2102
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	250		5	99	70-130	07/10/2015 2102
Dibromochloromethane	ND	250	270		5	108	74-134	07/10/2015 2102
1,2-Dibromoethane (EDB)	ND	250	280		5	113	70-130	07/10/2015 2102
1,2-Dichlorobenzene	ND	250	290		5	114	70-130	07/10/2015 2102
1,3-Dichlorobenzene	ND	250	290		5	117	70-130	07/10/2015 2102
1,4-Dichlorobenzene	ND	250	280		5	114	70-130	07/10/2015 2102
Dichlorodifluoromethane	ND	250	310		5	122	10-158	07/10/2015 2102
1,1-Dichloroethane	ND	250	280		5	114	69-132	07/10/2015 2102
1,2-Dichloroethane	ND	250	290		5	116	70-130	07/10/2015 2102
1,1-Dichloroethene	ND	250	290		5	116	50-132	07/10/2015 2102
cis-1,2-Dichloroethene	4.0	250	270		5	105	70-130	07/10/2015 2102
trans-1,2-Dichloroethene	ND	250	270		5	109	70-130	07/10/2015 2102
1,2-Dichloropropane	ND	250	270		5	106	71-126	07/10/2015 2102
cis-1,3-Dichloropropene	ND	250	280		5	112	69-130	07/10/2015 2102
trans-1,3-Dichloropropene	ND	250	250		5	98	73-131	07/10/2015 2102
Ethylbenzene	ND	250	310		5	122	70-130	07/10/2015 2102
2-Hexanone	ND	500	480		5	96	60-140	07/10/2015 2102
Isopropylbenzene	ND	250	300		5	119	70-130	07/10/2015 2102
Methyl acetate	ND	250	280		5	112	15-128	07/10/2015 2102
Methyl tertiary butyl ether (MTBE)	ND	250	280		5	110	70-130	07/10/2015 2102
4-Methyl-2-pentanone	ND	500	570		5	114	60-140	07/10/2015 2102
Methylcyclohexane	ND	250	290		5	115	70-130	07/10/2015 2102
Methylene chloride	ND	250	280		5	110	69-129	07/10/2015 2102
Styrene	ND	250	310		5	123	70-130	07/10/2015 2102
1,1,2,2-Tetrachloroethane	ND	250	280		5	110	60-155	07/10/2015 2102
Tetrachloroethene	ND	250	270		5	110	70-130	07/10/2015 2102
Toluene	ND	250	270		5	107	70-130	07/10/2015 2102
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	250	290		5	117	70-130	07/10/2015 2102
1,2,4-Trichlorobenzene	ND	250	320		5	130	70-130	07/10/2015 2102
1,1,1-Trichloroethane	ND	250	310		5	125	77-132	07/10/2015 2102
1,1,2-Trichloroethane	ND	250	270		5	106	77-132	07/10/2015 2102

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 MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QG08070-012MS
Batch: 79484
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	1200	250	1500	E	5	97	73-124	07/10/2015 2102
Trichlorofluoromethane	ND	250	280		5	113	60-140	07/10/2015 2102
Vinyl chloride	ND	250	300		5	119	29-159	07/10/2015 2102
Xylenes (total)	ND	500	620		5	124	70-130	07/10/2015 2102

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene	N	135	70-130
Toluene-d8		118	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QG08070-012MD
Batch: 79484
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	58	500	550		5	98	5.1	60-140	20	07/10/2015 2124
Benzene	ND	250	280		5	110	6.2	70-130	20	07/10/2015 2124
Bromodichloromethane	ND	250	270		5	108	10	71-143	20	07/10/2015 2124
Bromoform	ND	250	250		5	100	8.3	65-131	20	07/10/2015 2124
Bromomethane (Methyl bromide)	ND	250	270		5	108	0.41	36-168	20	07/10/2015 2124
2-Butanone (MEK)	ND	500	490		5	98	8.0	60-140	20	07/10/2015 2124
Carbon disulfide	ND	250	260		5	104	3.8	60-140	20	07/10/2015 2124
Carbon tetrachloride	ND	250	290		5	117	10	37-166	20	07/10/2015 2124
Chlorobenzene	ND	250	260		5	106	6.3	78-129	20	07/10/2015 2124
Chloroethane	ND	250	250		5	100	1.7	60-140	20	07/10/2015 2124
Chloroform	2.5	250	260		5	105	6.8	63-123	20	07/10/2015 2124
Chloromethane (Methyl chloride)	ND	250	290		5	114	0.64	20-158	20	07/10/2015 2124
Cyclohexane	ND	250	270		5	108	6.7	70-130	20	07/10/2015 2124
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	220		5	89	10	70-130	20	07/10/2015 2124
Dibromochloromethane	ND	250	250		5	100	7.5	74-134	20	07/10/2015 2124
1,2-Dibromoethane (EDB)	ND	250	260		5	104	7.7	70-130	20	07/10/2015 2124
1,2-Dichlorobenzene	ND	250	270		5	107	6.8	70-130	20	07/10/2015 2124
1,3-Dichlorobenzene	ND	250	280		5	110	5.4	70-130	20	07/10/2015 2124
1,4-Dichlorobenzene	ND	250	270		5	106	6.7	70-130	20	07/10/2015 2124
Dichlorodifluoromethane	ND	250	300		5	119	2.5	10-158	20	07/10/2015 2124
1,1-Dichloroethane	ND	250	270		5	106	6.8	69-132	20	07/10/2015 2124
1,2-Dichloroethane	ND	250	270		5	108	7.7	70-130	20	07/10/2015 2124
1,1-Dichloroethene	ND	250	280		5	111	4.7	50-132	20	07/10/2015 2124
cis-1,2-Dichloroethene	4.0	250	250		5	97	7.4	70-130	20	07/10/2015 2124
trans-1,2-Dichloroethene	ND	250	260		5	103	5.3	70-130	20	07/10/2015 2124
1,2-Dichloropropane	ND	250	250		5	99	7.4	71-126	20	07/10/2015 2124
cis-1,3-Dichloropropene	ND	250	260		5	104	7.8	69-130	20	07/10/2015 2124
trans-1,3-Dichloropropene	ND	250	220		5	90	8.7	73-131	20	07/10/2015 2124
Ethylbenzene	ND	250	290		5	115	5.9	70-130	20	07/10/2015 2124
2-Hexanone	ND	500	470		5	94	2.6	60-140	20	07/10/2015 2124
Isopropylbenzene	ND	250	280		5	111	6.4	70-130	20	07/10/2015 2124
Methyl acetate	ND	250	270		5	107	5.0	15-128	20	07/10/2015 2124
Methyl tertiary butyl ether (MTBE)	ND	250	260		5	105	5.1	70-130	20	07/10/2015 2124
4-Methyl-2-pentanone	ND	500	540		5	108	6.2	60-140	20	07/10/2015 2124
Methylcyclohexane	ND	250	270		5	107	7.4	70-130	20	07/10/2015 2124
Methylene chloride	ND	250	260		5	102	7.3	69-129	20	07/10/2015 2124
Styrene	ND	250	290		5	114	7.2	70-130	20	07/10/2015 2124
1,1,2,2-Tetrachloroethane	ND	250	260		5	104	5.4	60-155	20	07/10/2015 2124
Tetrachloroethene	ND	250	260		5	103	6.4	70-130	20	07/10/2015 2124
Toluene	ND	250	250		5	100	6.5	70-130	20	07/10/2015 2124
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	250	270		5	107	8.7	70-130	20	07/10/2015 2124
1,2,4-Trichlorobenzene	ND	250	300		5	118	9.2	70-130	20	07/10/2015 2124
1,1,1-Trichloroethane	ND	250	290		5	114	9.4	77-132	20	07/10/2015 2124
1,1,2-Trichloroethane	ND	250	250		5	100	6.1	77-132	20	07/10/2015 2124

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 MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QG08070-012MD
Batch: 79484
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	1200	250	1400	N	5	66	5.5	73-124	20	07/10/2015 2124
Trichlorofluoromethane	ND	250	270		5	110	3.2	60-140	20	07/10/2015 2124
Vinyl chloride	ND	250	310		5	123	2.9	29-159	20	07/10/2015 2124
Xylenes (total)	ND	500	570		5	114	7.9	70-130	20	07/10/2015 2124

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		129	70-130
Toluene-d8		118	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ79967-001
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	07/17/2015 1102
Benzene	ND		1	5.0	0.21	ug/L	07/17/2015 1102
Bromodichloromethane	ND		1	5.0	0.23	ug/L	07/17/2015 1102
Bromoform	ND		1	5.0	0.35	ug/L	07/17/2015 1102
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	07/17/2015 1102
2-Butanone (MEK)	ND		1	10	1.8	ug/L	07/17/2015 1102
Carbon disulfide	ND		1	5.0	0.45	ug/L	07/17/2015 1102
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	07/17/2015 1102
Chlorobenzene	ND		1	5.0	0.20	ug/L	07/17/2015 1102
Chloroethane	ND		1	5.0	0.28	ug/L	07/17/2015 1102
Chloroform	ND		1	5.0	0.21	ug/L	07/17/2015 1102
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	07/17/2015 1102
Cyclohexane	ND		1	5.0	0.30	ug/L	07/17/2015 1102
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	07/17/2015 1102
Dibromochloromethane	ND		1	5.0	0.23	ug/L	07/17/2015 1102
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	07/17/2015 1102
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/17/2015 1102
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/17/2015 1102
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	07/17/2015 1102
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	07/17/2015 1102
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	07/17/2015 1102
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	07/17/2015 1102
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	07/17/2015 1102
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	07/17/2015 1102
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	07/17/2015 1102
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	07/17/2015 1102
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	07/17/2015 1102
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/17/2015 1102
Ethylbenzene	ND		1	5.0	0.21	ug/L	07/17/2015 1102
2-Hexanone	ND		1	10	0.26	ug/L	07/17/2015 1102
Isopropylbenzene	ND		1	5.0	0.14	ug/L	07/17/2015 1102
Methyl acetate	ND		1	5.0	0.24	ug/L	07/17/2015 1102
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	07/17/2015 1102
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	07/17/2015 1102
Methylcyclohexane	ND		1	5.0	0.16	ug/L	07/17/2015 1102
Methylene chloride	ND		1	5.0	0.42	ug/L	07/17/2015 1102
Styrene	ND		1	5.0	0.13	ug/L	07/17/2015 1102
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	07/17/2015 1102
Tetrachloroethene	ND		1	5.0	0.22	ug/L	07/17/2015 1102
Toluene	ND		1	5.0	0.24	ug/L	07/17/2015 1102
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	07/17/2015 1102
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	07/17/2015 1102
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	07/17/2015 1102
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	07/17/2015 1102

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ79967-001
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	07/17/2015 1102
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	07/17/2015 1102
Vinyl chloride	ND		1	2.0	0.50	ug/L	07/17/2015 1102
Xylenes (total)	ND		1	5.0	1.7	ug/L	07/17/2015 1102

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ79967-002
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	92		1	92	60-140	07/17/2015 0946
Benzene	50	54		1	108	70-130	07/17/2015 0946
Bromodichloromethane	50	54		1	109	70-130	07/17/2015 0946
Bromoform	50	54		1	108	70-130	07/17/2015 0946
Bromomethane (Methyl bromide)	50	49		1	99	60-140	07/17/2015 0946
2-Butanone (MEK)	100	97		1	97	60-140	07/17/2015 0946
Carbon disulfide	50	56		1	111	60-140	07/17/2015 0946
Carbon tetrachloride	50	49		1	98	70-130	07/17/2015 0946
Chlorobenzene	50	54		1	108	70-130	07/17/2015 0946
Chloroethane	50	46		1	93	42-163	07/17/2015 0946
Chloroform	50	52		1	103	70-130	07/17/2015 0946
Chloromethane (Methyl chloride)	50	46		1	92	60-140	07/17/2015 0946
Cyclohexane	50	51		1	101	70-130	07/17/2015 0946
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	103	70-130	07/17/2015 0946
Dibromochloromethane	50	54		1	108	70-130	07/17/2015 0946
1,2-Dibromoethane (EDB)	50	54		1	107	70-130	07/17/2015 0946
1,4-Dichlorobenzene	50	53		1	106	70-130	07/17/2015 0946
1,3-Dichlorobenzene	50	54		1	108	70-130	07/17/2015 0946
1,2-Dichlorobenzene	50	54		1	107	70-130	07/17/2015 0946
Dichlorodifluoromethane	50	39		1	79	60-140	07/17/2015 0946
1,2-Dichloroethane	50	54		1	107	70-130	07/17/2015 0946
1,1-Dichloroethane	50	53		1	105	70-130	07/17/2015 0946
trans-1,2-Dichloroethene	50	55		1	110	70-130	07/17/2015 0946
cis-1,2-Dichloroethene	50	53		1	106	70-130	07/17/2015 0946
1,1-Dichloroethene	50	53		1	106	70-130	07/17/2015 0946
1,2-Dichloropropane	50	55		1	110	70-130	07/17/2015 0946
trans-1,3-Dichloropropene	50	54		1	107	70-130	07/17/2015 0946
cis-1,3-Dichloropropene	50	55		1	110	70-130	07/17/2015 0946
Ethylbenzene	50	54		1	108	70-130	07/17/2015 0946
2-Hexanone	100	100		1	103	60-140	07/17/2015 0946
Isopropylbenzene	50	54		1	109	70-130	07/17/2015 0946
Methyl acetate	50	51		1	102	60-140	07/17/2015 0946
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	07/17/2015 0946
4-Methyl-2-pentanone	100	110		1	107	60-140	07/17/2015 0946
Methylcyclohexane	50	49		1	98	70-130	07/17/2015 0946
Methylene chloride	50	53		1	105	70-130	07/17/2015 0946
Styrene	50	54		1	109	70-130	07/17/2015 0946
1,1,2,2-Tetrachloroethane	50	53		1	107	70-130	07/17/2015 0946
Tetrachloroethene	50	54		1	108	70-130	07/17/2015 0946
Toluene	50	56		1	111	70-130	07/17/2015 0946
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	103	70-130	07/17/2015 0946
1,2,4-Trichlorobenzene	50	55		1	110	70-130	07/17/2015 0946
1,1,2-Trichloroethane	50	54		1	108	70-130	07/17/2015 0946
1,1,1-Trichloroethane	50	53		1	106	70-130	07/17/2015 0946

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ79967-002
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	53		1	107	70-130	07/17/2015 0946
Trichlorofluoromethane	50	43		1	86	70-130	07/17/2015 0946
Vinyl chloride	50	46		1	93	70-130	07/17/2015 0946
Xylenes (total)	100	110		1	109	70-130	07/17/2015 0946

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		82	70-130
Toluene-d8		95	70-130

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 MDL

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QG08070-009MS
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	2000	2100		20	106	60-140	07/17/2015 2006
Benzene	ND	1000	1200		20	118	70-130	07/17/2015 2006
Bromodichloromethane	ND	1000	1200		20	115	71-143	07/17/2015 2006
Bromoform	ND	1000	1100		20	114	65-131	07/17/2015 2006
Bromomethane (Methyl bromide)	ND	1000	1000		20	101	36-168	07/17/2015 2006
2-Butanone (MEK)	ND	2000	2000		20	102	60-140	07/17/2015 2006
Carbon disulfide	ND	1000	1200		20	122	60-140	07/17/2015 2006
Carbon tetrachloride	ND	1000	1200		20	116	37-166	07/17/2015 2006
Chlorobenzene	ND	1000	1200		20	116	78-129	07/17/2015 2006
Chloroethane	ND	1000	1000		20	101	60-140	07/17/2015 2006
Chloroform	3.1	1000	1100		20	113	63-123	07/17/2015 2006
Chloromethane (Methyl chloride)	ND	1000	1000		20	100	20-158	07/17/2015 2006
Cyclohexane	ND	1000	1100		20	111	70-130	07/17/2015 2006
1,2-Dibromo-3-chloropropane (DBCP)	ND	1000	1100		20	108	70-130	07/17/2015 2006
Dibromochloromethane	ND	1000	1200		20	116	74-134	07/17/2015 2006
1,2-Dibromoethane (EDB)	ND	1000	1200		20	116	70-130	07/17/2015 2006
1,2-Dichlorobenzene	ND	1000	1100		20	112	70-130	07/17/2015 2006
1,3-Dichlorobenzene	ND	1000	1100		20	113	70-130	07/17/2015 2006
1,4-Dichlorobenzene	ND	1000	1100		20	111	70-130	07/17/2015 2006
Dichlorodifluoromethane	ND	1000	950		20	95	10-158	07/17/2015 2006
1,1-Dichloroethane	ND	1000	1200		20	116	69-132	07/17/2015 2006
1,2-Dichloroethane	ND	1000	1100		20	115	70-130	07/17/2015 2006
1,1-Dichloroethene	2.8	1000	1300		20	126	50-132	07/17/2015 2006
cis-1,2-Dichloroethene	78	1000	1200		20	117	70-130	07/17/2015 2006
trans-1,2-Dichloroethene	3.5	1000	1200		20	120	70-130	07/17/2015 2006
1,2-Dichloropropane	ND	1000	1200		20	116	71-126	07/17/2015 2006
cis-1,3-Dichloropropene	ND	1000	1100		20	112	69-130	07/17/2015 2006
trans-1,3-Dichloropropene	ND	1000	1100		20	110	73-131	07/17/2015 2006
Ethylbenzene	ND	1000	1200		20	118	70-130	07/17/2015 2006
2-Hexanone	ND	2000	2200		20	110	60-140	07/17/2015 2006
Isopropylbenzene	0.74	1000	1200		20	116	70-130	07/17/2015 2006
Methyl acetate	ND	1000	1100		20	110	15-128	07/17/2015 2006
Methyl tertiary butyl ether (MTBE)	ND	1000	1100		20	111	70-130	07/17/2015 2006
4-Methyl-2-pentanone	ND	2000	2300		20	113	60-140	07/17/2015 2006
Methylcyclohexane	ND	1000	1000		20	100	70-130	07/17/2015 2006
Methylene chloride	ND	1000	1100		20	114	69-129	07/17/2015 2006
Styrene	ND	1000	1200		20	116	70-130	07/17/2015 2006
1,1,2,2-Tetrachloroethane	ND	1000	1200		20	116	60-155	07/17/2015 2006
Tetrachloroethene	8.4	1000	1200		20	118	70-130	07/17/2015 2006
Toluene	ND	1000	1200		20	119	70-130	07/17/2015 2006
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	1100		20	110	70-130	07/17/2015 2006
1,2,4-Trichlorobenzene	ND	1000	1100		20	110	70-130	07/17/2015 2006
1,1,1-Trichloroethane	ND	1000	1200		20	122	77-132	07/17/2015 2006
1,1,2-Trichloroethane	ND	1000	1200		20	116	77-132	07/17/2015 2006

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 MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QG08070-009MS
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	1100	1000	2300		20	113	73-124	07/17/2015 2006
Trichlorofluoromethane	ND	1000	1000		20	101	60-140	07/17/2015 2006
Vinyl chloride	ND	1000	1000		20	103	29-159	07/17/2015 2006
Xylenes (total)	ND	2000	2300		20	117	70-130	07/17/2015 2006

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QG08070-009MD
Batch: 79967
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	2000	2200		20	109	3.0	60-140	20	07/17/2015 2028
Benzene	ND	1000	1200		20	119	0.85	70-130	20	07/17/2015 2028
Bromodichloromethane	ND	1000	1200		20	118	2.5	71-143	20	07/17/2015 2028
Bromoform	ND	1000	1100		20	113	0.94	65-131	20	07/17/2015 2028
Bromomethane (Methyl bromide)	ND	1000	1000		20	100	0.97	36-168	20	07/17/2015 2028
2-Butanone (MEK)	ND	2000	2100		20	107	4.4	60-140	20	07/17/2015 2028
Carbon disulfide	ND	1000	1200		20	123	0.42	60-140	20	07/17/2015 2028
Carbon tetrachloride	ND	1000	1100		20	114	1.3	37-166	20	07/17/2015 2028
Chlorobenzene	ND	1000	1100		20	114	1.1	78-129	20	07/17/2015 2028
Chloroethane	ND	1000	1000		20	101	0.36	60-140	20	07/17/2015 2028
Chloroform	3.1	1000	1100		20	113	0.52	63-123	20	07/17/2015 2028
Chloromethane (Methyl chloride)	ND	1000	1000		20	100	0.33	20-158	20	07/17/2015 2028
Cyclohexane	ND	1000	1200		20	117	5.4	70-130	20	07/17/2015 2028
1,2-Dibromo-3-chloropropane (DBCP)	ND	1000	1100		20	109	0.63	70-130	20	07/17/2015 2028
Dibromochloromethane	ND	1000	1200		20	116	0.032	74-134	20	07/17/2015 2028
1,2-Dibromoethane (EDB)	ND	1000	1200		20	116	0.55	70-130	20	07/17/2015 2028
1,2-Dichlorobenzene	ND	1000	1100		20	112	0.0056	70-130	20	07/17/2015 2028
1,3-Dichlorobenzene	ND	1000	1100		20	112	0.82	70-130	20	07/17/2015 2028
1,4-Dichlorobenzene	ND	1000	1100		20	111	0.58	70-130	20	07/17/2015 2028
Dichlorodifluoromethane	ND	1000	970		20	97	2.4	10-158	20	07/17/2015 2028
1,1-Dichloroethane	ND	1000	1200		20	117	1.2	69-132	20	07/17/2015 2028
1,2-Dichloroethane	ND	1000	1200		20	117	1.6	70-130	20	07/17/2015 2028
1,1-Dichloroethene	2.8	1000	1200		20	123	2.8	50-132	20	07/17/2015 2028
cis-1,2-Dichloroethene	78	1000	1300		20	118	1.2	70-130	20	07/17/2015 2028
trans-1,2-Dichloroethene	3.5	1000	1200		20	121	0.79	70-130	20	07/17/2015 2028
1,2-Dichloropropane	ND	1000	1200		20	118	1.2	71-126	20	07/17/2015 2028
cis-1,3-Dichloropropene	ND	1000	1100		20	112	0.30	69-130	20	07/17/2015 2028
trans-1,3-Dichloropropene	ND	1000	1100		20	110	0.65	73-131	20	07/17/2015 2028
Ethylbenzene	ND	1000	1200		20	117	1.1	70-130	20	07/17/2015 2028
2-Hexanone	ND	2000	2200		20	110	0.079	60-140	20	07/17/2015 2028
Isopropylbenzene	0.74	1000	1200		20	117	0.18	70-130	20	07/17/2015 2028
Methyl acetate	ND	1000	1100		20	111	0.34	15-128	20	07/17/2015 2028
Methyl tertiary butyl ether (MTBE)	ND	1000	1100		20	112	0.65	70-130	20	07/17/2015 2028
4-Methyl-2-pentanone	ND	2000	2300		20	116	2.2	60-140	20	07/17/2015 2028
Methylcyclohexane	ND	1000	1100		20	106	6.2	70-130	20	07/17/2015 2028
Methylene chloride	ND	1000	1100		20	114	0.45	69-129	20	07/17/2015 2028
Styrene	ND	1000	1200		20	115	0.63	70-130	20	07/17/2015 2028
1,1,2,2-Tetrachloroethane	ND	1000	1200		20	117	1.0	60-155	20	07/17/2015 2028
Tetrachloroethene	8.4	1000	1200		20	118	0.46	70-130	20	07/17/2015 2028
Toluene	ND	1000	1200		20	118	0.51	70-130	20	07/17/2015 2028
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	1200		20	116	5.9	70-130	20	07/17/2015 2028
1,2,4-Trichlorobenzene	ND	1000	1100		20	113	2.4	70-130	20	07/17/2015 2028
1,1,1-Trichloroethane	ND	1000	1200		20	122	0.18	77-132	20	07/17/2015 2028
1,1,2-Trichloroethane	ND	1000	1200		20	117	0.69	77-132	20	07/17/2015 2028

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 MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QG08070-009MD
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	1100	1000	2300		20	115	0.69	73-124	20	07/17/2015 2028
Trichlorofluoromethane	ND	1000	990		20	99	1.8	60-140	20	07/17/2015 2028
Vinyl chloride	ND	1000	1100		20	105	2.4	29-159	20	07/17/2015 2028
Xylenes (total)	ND	2000	2300		20	116	0.92	70-130	20	07/17/2015 2028

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

TAL Metals - MB

Sample ID: QQ79254-001
Batch: 79254
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/09/2015 1800

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Aluminum	ND		1	0.40	0.095	mg/L	07/10/2015 1532
Antimony	ND		1	0.020	0.0066	mg/L	07/10/2015 1532
Arsenic	**0.0031**	**J**	**1**	**0.015**	**0.0022**	**mg/L**	**07/10/2015 1532**
Barium	ND		1	0.025	0.0019	mg/L	07/10/2015 1532
Beryllium	ND		1	0.0050	0.00022	mg/L	07/10/2015 1532
Cadmium	ND		1	0.0050	0.00054	mg/L	07/10/2015 1532
Calcium	ND		1	5.0	0.13	mg/L	07/10/2015 1532
Chromium	ND		1	0.010	0.00072	mg/L	07/10/2015 1532
Cobalt	ND		1	0.025	0.0013	mg/L	07/10/2015 1532
Copper	ND		1	0.010	0.0018	mg/L	07/10/2015 1532
Iron	ND		1	0.10	0.033	mg/L	07/10/2015 1532
Lead	ND		1	0.010	0.0047	mg/L	07/10/2015 1532
Magnesium	ND		1	5.0	0.26	mg/L	07/10/2015 1532
Manganese	ND		1	0.015	0.00081	mg/L	07/10/2015 1532
Nickel	ND		1	0.040	0.0028	mg/L	07/10/2015 1532
Potassium	ND		1	5.0	0.30	mg/L	07/10/2015 1532
Selenium	ND		1	0.020	0.0085	mg/L	07/10/2015 1532
Silver	ND		1	0.010	0.0021	mg/L	07/10/2015 1532
Sodium	ND		1	5.0	0.33	mg/L	07/10/2015 1532
Thallium	ND		1	0.050	0.0049	mg/L	07/10/2015 1532
Vanadium	ND		1	0.050	0.0026	mg/L	07/10/2015 1532
Zinc	ND		1	0.020	0.0022	mg/L	07/10/2015 1532

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

TAL Metals - LCS

Sample ID: QQ79254-002
Batch: 79254
Analytical Method: 6010C

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 07/09/2015 1800

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aluminum	20	20		1	99	80-120	07/10/2015 1537
Antimony	0.40	0.38		1	95	80-120	07/10/2015 1537
Arsenic	0.40	0.38		1	94	80-120	07/10/2015 1537
Barium	2.0	2.0		1	98	80-120	07/10/2015 1537
Beryllium	2.0	2.0		1	101	80-120	07/10/2015 1537
Cadmium	0.40	0.37		1	92	80-120	07/10/2015 1537
Calcium	40	40		1	100	80-120	07/10/2015 1537
Chromium	2.0	1.9		1	95	80-120	07/10/2015 1537
Cobalt	2.0	1.9		1	95	80-120	07/10/2015 1537
Copper	2.0	1.9		1	95	80-120	07/10/2015 1537
Iron	20	20		1	99	80-120	07/10/2015 1537
Lead	0.40	0.38		1	96	80-120	07/10/2015 1537
Magnesium	40	40		1	100	80-120	07/10/2015 1537
Manganese	2.0	2.0		1	99	80-120	07/10/2015 1537
Nickel	2.0	1.9		1	95	80-120	07/10/2015 1537
Potassium	40	40		1	101	80-120	07/10/2015 1537
Selenium	0.40	0.38		1	96	80-120	07/10/2015 1537
Silver	0.40	0.38		1	96	80-120	07/10/2015 1537
Sodium	40	40		1	99	80-120	07/10/2015 1537
Thallium	0.80	0.78		1	97	80-120	07/10/2015 1537
Vanadium	2.0	1.9		1	95	80-120	07/10/2015 1537
Zinc	2.0	1.9		1	97	80-120	07/10/2015 1537

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 MDL
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

TAL Metals - MB

Sample ID: QQ79295-001
Batch: 79295
Analytical Method: 7470A
Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/10/2015 1208

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Mercury	ND		1	0.00010	0.000028	mg/L	07/10/2015 1504

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

TAL Metals - LCS

Sample ID: QQ79295-002
Batch: 79295
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 07/10/2015 1208

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0020		1	101	80-120	07/10/2015 1506

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 MDL
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

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

Number 50355

Client: AECOM	Report to Contact: SCOTT ROSS	Telephone No. / E-mail: 803 201 9662 SCOTT.ROSS@AECOM.COM	Quote No.
Address: 101 RESEARCH DR	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page 1 of 2
City: COLUMBIA	State: SC	Zip Code: 29203	Printed Name: JAMES LEIGHTON	
Project Name: SHAKESPEARE			
Project No.	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc Kit	VOC's (TCL)	Methane's (TAL)	Remarks / Cooler I.D.
MW-5	7-7-15	1340	G	X						3			X		
MW-7		1432	G	X					1	3			X	X	
MW-1		1430	G	X					1	3			X	X	
MW-3		1627	G	X						3			X		
DUP-1		—	G	X					1	3			X	X	
MW-4	7-8-15	0905	G	X						3			X		
MW-6		1000	G	X						3			X		
MW-2		1055	G	X						3			X		
MW-8		1147	G	X						3			X		
MW-9		1305	G	X						3			X		

QG08070

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

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: J. Leighton	7-8-15	1640	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: Tracy Dowling	7/8/15	1640

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

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack
Receipt Temp 5.2 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
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www.shealylab.com

Chain of Custody Record

Number 50358

QG08070

Client: AECOM
Address: 101 RESEARCH DR
City: COLUMBIA | State: SC | Zip Code: 29203
Project Name: SHAKESPEARE
Project No.:
P.O. No.:
Report to Contact: SCOTT ROSS
Sampler's Signature: X
Printed Name: JAMES LEIGHTNER
Telephone No. / E-mail: 803 201 9662 SCOTT.ROSS@AECOM.COM
Quote No.:
Analysis (Attach list if more space is needed)
Page 2 of 2

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Soil	Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's (Full)	Remarks / Cooler I.D.
TMW-32	7-8-15	1350	G	X						3			X	
TMW-24	↓	1425	G	X						3			X	
TMW-25	↓	1515	G	X						3			X	
TRIP BLANK	—									2			X	

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

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	7-8-15	1640	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	7/8/15	1640

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

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 5.2 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: AECOM Cooler Inspected by/date: JWB / 7/8/15 Lot #: Q608070

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: — / 5.2 / 5.2 °C ___ / ___ / ___ °C ___ / ___ / ___ °C ___ / ___ / ___ °C Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: ___ IR Gun Correction Factor: 0 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
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 on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☑ JWB 7/8/15		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?
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) using SR # ___.			
Sample(s) ___ were received with bubbles >6 mm in diameter.			
Sample(s) ___ were received with TRC >0.2 mg/L (If #21 is No)			
SC Drinking Water Project Sample(s) pH verified to be > 2 by ___ Date: ___ Sample(s) ___ were not received at a pH of <2 and were adjusted accordingly using SR# ___			
Sample labels applied by: JWB Verified by: ___ Date: 7/8/15			

Comments:

Sample 013 was missing

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

AECOM
4016 Salt Pointe Parkway
North Charleston, SC 29405
Attention: Scott Ross

Project Name: **Shakespeare - Newberry**

Project Number: **60328308.11**

Lot Number: **QG09023**

Date Completed: **07/20/2015**

Date Revised: **08/25/2015**

Nisreen Saikaly
Project Manager

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

Case Narrative

AECOM

Lot Number: QG09023

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.

Report Revision 08/25/2015

This report is revised to update the Project number.

Sample Summary

AECOM

Lot Number: QG09023

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TMW-25	Aqueous	07/08/2015 1515	07/09/2015
002	TMW-31	Aqueous	07/09/2015 0905	07/09/2015
003	TMW-23	Aqueous	07/09/2015 1015	07/09/2015
004	TMW-30	Aqueous	07/09/2015 1055	07/09/2015
005	TMW-22	Aqueous	07/09/2015 1138	07/09/2015
006	TMW-21	Aqueous	07/09/2015 1230	07/09/2015
007	TMW-33	Aqueous	07/09/2015 1320	07/09/2015
008	Trip Blank	Aqueous	07/09/2015	07/09/2015

(8 samples)

Executive Summary

AECOM

Lot Number: QG09023

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	TMW-25	Aqueous	Acetone	8260B	7.5	J	ug/L	5
001	TMW-25	Aqueous	Chloroform	8260B	0.32	J	ug/L	5
001	TMW-25	Aqueous	Styrene	8260B	2.8	J	ug/L	5
001	TMW-25	Aqueous	Trichloroethene	8260B	15		ug/L	6
002	TMW-31	Aqueous	Acetone	8260B	51	J	ug/L	7
002	TMW-31	Aqueous	cis-1,2-Dichloroethene	8260B	2.0	J	ug/L	7
002	TMW-31	Aqueous	Styrene	8260B	27		ug/L	7
002	TMW-31	Aqueous	Trichloroethene	8260B	330		ug/L	8
003	TMW-23	Aqueous	Acetone	8260B	19	J	ug/L	9
003	TMW-23	Aqueous	cis-1,2-Dichloroethene	8260B	6.3		ug/L	9
003	TMW-23	Aqueous	Styrene	8260B	68		ug/L	9
003	TMW-23	Aqueous	Tetrachloroethene	8260B	0.65	J	ug/L	9
003	TMW-23	Aqueous	Trichloroethene	8260B	92		ug/L	10
004	TMW-30	Aqueous	Acetone	8260B	21		ug/L	11
004	TMW-30	Aqueous	Chloroform	8260B	6.1		ug/L	11
004	TMW-30	Aqueous	cis-1,2-Dichloroethene	8260B	5.6		ug/L	11
004	TMW-30	Aqueous	Styrene	8260B	32		ug/L	11
004	TMW-30	Aqueous	Tetrachloroethene	8260B	0.94	J	ug/L	11
004	TMW-30	Aqueous	1,1,2-Trichloroethane	8260B	0.30	J	ug/L	11
004	TMW-30	Aqueous	Trichloroethene	8260B	150		ug/L	12
005	TMW-22	Aqueous	Acetone	8260B	58	J	ug/L	13
005	TMW-22	Aqueous	Chloroform	8260B	6.6	J	ug/L	13
005	TMW-22	Aqueous	cis-1,2-Dichloroethene	8260B	31		ug/L	13
005	TMW-22	Aqueous	Styrene	8260B	24	J	ug/L	13
005	TMW-22	Aqueous	Tetrachloroethene	8260B	4.4	J	ug/L	13
005	TMW-22	Aqueous	Trichloroethene	8260B	680		ug/L	14
006	TMW-21	Aqueous	Chloroform	8260B	9.5	J	ug/L	15
006	TMW-21	Aqueous	cis-1,2-Dichloroethene	8260B	58	J	ug/L	15
006	TMW-21	Aqueous	Styrene	8260B	8.6	J	ug/L	15
006	TMW-21	Aqueous	Tetrachloroethene	8260B	7.2	J	ug/L	15
006	TMW-21	Aqueous	Trichloroethene	8260B	1000		ug/L	16
007	TMW-33	Aqueous	Chloroform	8260B	3.3	J	ug/L	17
007	TMW-33	Aqueous	Trichloroethene	8260B	240		ug/L	18

(33 detections)

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-001**
Description: **TMW-25**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1515**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/17/2015 1743	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**7.5**	**J**	**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**0.32**	**J**	**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	**100-42-5**	**8260B**	**2.8**	**J**	**5.0**	**0.13**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-001**
Description: **TMW-25**
Matrix: **Aqueous**
Date Sampled: **07/08/2015 1515**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/17/2015 1743	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**15**		**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QG09023-002**

Description: **TMW-31** Matrix: **Aqueous**

Date Sampled: **07/09/2015 0905**

Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/18/2015 0455	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**51**	**J**	**100**	**8.1**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	67-66-3	8260B	ND		25	1.1	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**2.0**	**J**	**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	**100-42-5**	**8260B**	**27**		**25**	**0.65**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		25	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-002**
Description: **TMW-31**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 0905**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/18/2015 0455	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**330**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		112	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-003**
Description: **TMW-23**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1015**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2015 0024	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**19**	**J**	**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**6.3**		**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	**100-42-5**	**8260B**	**68**		**5.0**	**0.13**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**0.65**	**J**	**5.0**	**0.22**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-003**
Description: **TMW-23**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1015**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2015 0024	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**92**		**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		99	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-004**
Description: **TMW-30**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1055**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2015 0047	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**21**		**20**	**1.6**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	**67-66-3**	**8260B**	**6.1**		**5.0**	**0.21**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**5.6**		**5.0**	**0.20**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	**100-42-5**	**8260B**	**32**		**5.0**	**0.13**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**0.94**	**J**	**5.0**	**0.22**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	**79-00-5**	**8260B**	**0.30**	**J**	**5.0**	**0.22**	**ug/L**	**1**

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-004**
Description: **TMW-30**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1055**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/18/2015 0047	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**150**		**5.0**	**0.16**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		99	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-005**
Description: **TMW-22**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1138**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/18/2015 0517	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**58**	**J**	**100**	**8.1**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	**67-66-3**	**8260B**	**6.6**	**J**	**25**	**1.1**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**31**		**25**	**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	**100-42-5**	**8260B**	**24**	**J**	**25**	**0.65**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**4.4**	**J**	**25**	**1.1**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-005**
Description: **TMW-22**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1138**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/18/2015 0517	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**680**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		99	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM** Laboratory ID: **QG09023-006**

Description: **TMW-21** Matrix: **Aqueous**

Date Sampled: **07/09/2015 1230**

Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	07/18/2015 0624	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		400	32	ug/L	1
Benzene	71-43-2	8260B	ND		100	4.2	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		100	4.6	ug/L	1
Bromoform	75-25-2	8260B	ND		100	7.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		100	3.8	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		200	36	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		100	9.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		100	6.2	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		100	4.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		100	5.6	ug/L	1
Chloroform	**67-66-3**	**8260B**	**9.5**	**J**	**100**	**4.2**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		100	3.8	ug/L	1
Cyclohexane	110-82-7	8260B	ND		100	6.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		100	11	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		100	4.6	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		100	3.4	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		100	9.2	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		100	3.8	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		100	3.8	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		100	17	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		100	3.8	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	4.6	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		100	6.2	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**58**	**J**	**100**	**4.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		100	6.6	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		100	5.8	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		100	6.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		100	4.4	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		100	4.2	ug/L	1
2-Hexanone	591-78-6	8260B	ND		200	5.2	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		100	2.8	ug/L	1
Methyl acetate	79-20-9	8260B	ND		100	4.8	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	4.6	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		200	5.8	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		100	3.2	ug/L	1
Methylene chloride	75-09-2	8260B	ND		100	8.4	ug/L	1
Styrene	**100-42-5**	**8260B**	**8.6**	**J**	**100**	**2.6**	**ug/L**	**1**
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		100	2.6	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**7.2**	**J**	**100**	**4.4**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		100	4.8	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		100	6.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		100	2.6	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		100	4.8	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		100	4.4	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-006**
Description: **TMW-21**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1230**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	07/18/2015 0624	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**1000**		**100**	**3.2**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		100	15	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		40	10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		100	34	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		115	70-130
Toluene-d8		101	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-007**
Description: **TMW-33**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1320**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/18/2015 0539	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		100	8.1	ug/L	1
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		25	1.2	ug/L	1
Bromoform	75-25-2	8260B	ND		25	1.8	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		25	0.95	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	9.1	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		25	2.3	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		25	1.6	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		25	1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		25	1.4	ug/L	1
Chloroform	**67-66-3**	**8260B**	**3.3**	**J**	**25**	**1.1**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		25	0.95	ug/L	1
Cyclohexane	110-82-7	8260B	ND		25	1.5	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		25	2.8	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		25	1.2	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		25	0.85	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		25	2.3	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		25	0.95	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		25	0.95	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		25	4.3	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		25	0.95	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		25	1.6	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		25	1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		25	1.7	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		25	1.5	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	1.5	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	1.1	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	1.1	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	1.3	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		25	0.70	ug/L	1
Methyl acetate	79-20-9	8260B	ND		25	1.2	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	1.5	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		25	0.80	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	2.1	ug/L	1
Styrene	100-42-5	8260B	ND		25	0.65	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		25	0.65	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		25	1.1	ug/L	1
Toluene	108-88-3	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		25	1.5	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		25	0.65	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		25	1.2	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		25	1.1	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-007**
Description: **TMW-33**
Matrix: **Aqueous**
Date Sampled: **07/09/2015 1320**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/18/2015 0539	JJG		80017

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	**79-01-6**	**8260B**	**240**		**25**	**0.80**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		25	3.7	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	2.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		97	70-130

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Laboratory ID: **QG09023-008**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **07/09/2015**
Date Received: **07/09/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/17/2015 1315	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.6	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.23	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.35	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.19	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.45	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.31	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.28	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.21	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.19	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.30	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.57	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.23	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.17	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.46	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.19	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.19	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.85	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.19	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.31	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.33	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.29	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.22	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.26	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.14	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.24	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.29	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.16	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.42	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.13	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.13	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.22	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.13	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.24	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.22	ug/L	1

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

Volatile Organic Compounds by GC/MS

Client: **AECOM**
Description: **Trip Blank**
Date Sampled: **07/09/2015**
Date Received: **07/09/2015**

Laboratory ID: **QG09023-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/17/2015 1315	JM1		79967

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.16	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.74	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ79967-001
Batch: 79967
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	07/17/2015 1102
Benzene	ND		1	5.0	0.21	ug/L	07/17/2015 1102
Bromodichloromethane	ND		1	5.0	0.23	ug/L	07/17/2015 1102
Bromoform	ND		1	5.0	0.35	ug/L	07/17/2015 1102
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	07/17/2015 1102
2-Butanone (MEK)	ND		1	10	1.8	ug/L	07/17/2015 1102
Carbon disulfide	ND		1	5.0	0.45	ug/L	07/17/2015 1102
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	07/17/2015 1102
Chlorobenzene	ND		1	5.0	0.20	ug/L	07/17/2015 1102
Chloroethane	ND		1	5.0	0.28	ug/L	07/17/2015 1102
Chloroform	ND		1	5.0	0.21	ug/L	07/17/2015 1102
Chloromethane (Methyl chloride)	ND		1	5.0	0.19	ug/L	07/17/2015 1102
Cyclohexane	ND		1	5.0	0.30	ug/L	07/17/2015 1102
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	07/17/2015 1102
Dibromochloromethane	ND		1	5.0	0.23	ug/L	07/17/2015 1102
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	07/17/2015 1102
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/17/2015 1102
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/17/2015 1102
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	07/17/2015 1102
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	07/17/2015 1102
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	07/17/2015 1102
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	07/17/2015 1102
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	07/17/2015 1102
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	07/17/2015 1102
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	07/17/2015 1102
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	07/17/2015 1102
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	07/17/2015 1102
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/17/2015 1102
Ethylbenzene	ND		1	5.0	0.21	ug/L	07/17/2015 1102
2-Hexanone	ND		1	10	0.26	ug/L	07/17/2015 1102
Isopropylbenzene	ND		1	5.0	0.14	ug/L	07/17/2015 1102
Methyl acetate	ND		1	5.0	0.24	ug/L	07/17/2015 1102
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	07/17/2015 1102
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	07/17/2015 1102
Methylcyclohexane	ND		1	5.0	0.16	ug/L	07/17/2015 1102
Methylene chloride	ND		1	5.0	0.42	ug/L	07/17/2015 1102
Styrene	ND		1	5.0	0.13	ug/L	07/17/2015 1102
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	07/17/2015 1102
Tetrachloroethene	ND		1	5.0	0.22	ug/L	07/17/2015 1102
Toluene	ND		1	5.0	0.24	ug/L	07/17/2015 1102
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	07/17/2015 1102
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	07/17/2015 1102
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	07/17/2015 1102
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	07/17/2015 1102

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ79967-001
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	07/17/2015 1102
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	07/17/2015 1102
Vinyl chloride	ND		1	2.0	0.50	ug/L	07/17/2015 1102
Xylenes (total)	ND		1	5.0	1.7	ug/L	07/17/2015 1102

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ79967-002
Batch: 79967
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	92		1	92	60-140	07/17/2015 0946
Benzene	50	54		1	108	70-130	07/17/2015 0946
Bromodichloromethane	50	54		1	109	70-130	07/17/2015 0946
Bromoform	50	54		1	108	70-130	07/17/2015 0946
Bromomethane (Methyl bromide)	50	49		1	99	60-140	07/17/2015 0946
2-Butanone (MEK)	100	97		1	97	60-140	07/17/2015 0946
Carbon disulfide	50	56		1	111	60-140	07/17/2015 0946
Carbon tetrachloride	50	49		1	98	70-130	07/17/2015 0946
Chlorobenzene	50	54		1	108	70-130	07/17/2015 0946
Chloroethane	50	46		1	93	42-163	07/17/2015 0946
Chloroform	50	52		1	103	70-130	07/17/2015 0946
Chloromethane (Methyl chloride)	50	46		1	92	60-140	07/17/2015 0946
Cyclohexane	50	51		1	101	70-130	07/17/2015 0946
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	103	70-130	07/17/2015 0946
Dibromochloromethane	50	54		1	108	70-130	07/17/2015 0946
1,2-Dibromoethane (EDB)	50	54		1	107	70-130	07/17/2015 0946
1,4-Dichlorobenzene	50	53		1	106	70-130	07/17/2015 0946
1,3-Dichlorobenzene	50	54		1	108	70-130	07/17/2015 0946
1,2-Dichlorobenzene	50	54		1	107	70-130	07/17/2015 0946
Dichlorodifluoromethane	50	39		1	79	60-140	07/17/2015 0946
1,2-Dichloroethane	50	54		1	107	70-130	07/17/2015 0946
1,1-Dichloroethane	50	53		1	105	70-130	07/17/2015 0946
trans-1,2-Dichloroethene	50	55		1	110	70-130	07/17/2015 0946
cis-1,2-Dichloroethene	50	53		1	106	70-130	07/17/2015 0946
1,1-Dichloroethene	50	53		1	106	70-130	07/17/2015 0946
1,2-Dichloropropane	50	55		1	110	70-130	07/17/2015 0946
trans-1,3-Dichloropropene	50	54		1	107	70-130	07/17/2015 0946
cis-1,3-Dichloropropene	50	55		1	110	70-130	07/17/2015 0946
Ethylbenzene	50	54		1	108	70-130	07/17/2015 0946
2-Hexanone	100	100		1	103	60-140	07/17/2015 0946
Isopropylbenzene	50	54		1	109	70-130	07/17/2015 0946
Methyl acetate	50	51		1	102	60-140	07/17/2015 0946
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	07/17/2015 0946
4-Methyl-2-pentanone	100	110		1	107	60-140	07/17/2015 0946
Methylcyclohexane	50	49		1	98	70-130	07/17/2015 0946
Methylene chloride	50	53		1	105	70-130	07/17/2015 0946
Styrene	50	54		1	109	70-130	07/17/2015 0946
1,1,2,2-Tetrachloroethane	50	53		1	107	70-130	07/17/2015 0946
Tetrachloroethene	50	54		1	108	70-130	07/17/2015 0946
Toluene	50	56		1	111	70-130	07/17/2015 0946
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	103	70-130	07/17/2015 0946
1,2,4-Trichlorobenzene	50	55		1	110	70-130	07/17/2015 0946
1,1,2-Trichloroethane	50	54		1	108	70-130	07/17/2015 0946
1,1,1-Trichloroethane	50	53		1	106	70-130	07/17/2015 0946

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ79967-002
Batch: 79967
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	53		1	107	70-130	07/17/2015 0946
Trichlorofluoromethane	50	43		1	86	70-130	07/17/2015 0946
Vinyl chloride	50	46		1	93	70-130	07/17/2015 0946
Xylenes (total)	100	110		1	109	70-130	07/17/2015 0946

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		82	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ80017-001
Batch: 80017
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	1.6	ug/L	07/17/2015 2234
Benzene	ND		1	5.0	0.21	ug/L	07/17/2015 2234
Bromodichloromethane	ND		1	5.0	0.23	ug/L	07/17/2015 2234
Bromoform	ND		1	5.0	0.35	ug/L	07/17/2015 2234
Bromomethane (Methyl bromide)	ND		1	5.0	0.19	ug/L	07/17/2015 2234
2-Butanone (MEK)	ND		1	10	1.8	ug/L	07/17/2015 2234
Carbon disulfide	ND		1	5.0	0.45	ug/L	07/17/2015 2234
Carbon tetrachloride	ND		1	5.0	0.31	ug/L	07/17/2015 2234
Chlorobenzene	ND		1	5.0	0.20	ug/L	07/17/2015 2234
Chloroethane	ND		1	5.0	0.28	ug/L	07/17/2015 2234
Chloroform	ND		1	5.0	0.21	ug/L	07/17/2015 2234
Chloromethane (Methyl chloride)	**0.46**	**J**	**1**	**5.0**	**0.19**	**ug/L**	**07/17/2015 2234**
Cyclohexane	ND		1	5.0	0.30	ug/L	07/17/2015 2234
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.57	ug/L	07/17/2015 2234
Dibromochloromethane	ND		1	5.0	0.23	ug/L	07/17/2015 2234
1,2-Dibromoethane (EDB)	ND		1	5.0	0.17	ug/L	07/17/2015 2234
1,3-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/17/2015 2234
1,4-Dichlorobenzene	ND		1	5.0	0.19	ug/L	07/17/2015 2234
1,2-Dichlorobenzene	ND		1	5.0	0.46	ug/L	07/17/2015 2234
Dichlorodifluoromethane	ND		1	5.0	0.85	ug/L	07/17/2015 2234
1,1-Dichloroethane	ND		1	5.0	0.19	ug/L	07/17/2015 2234
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	07/17/2015 2234
cis-1,2-Dichloroethene	ND		1	5.0	0.20	ug/L	07/17/2015 2234
1,1-Dichloroethene	ND		1	5.0	0.31	ug/L	07/17/2015 2234
trans-1,2-Dichloroethene	ND		1	5.0	0.33	ug/L	07/17/2015 2234
1,2-Dichloropropane	ND		1	5.0	0.29	ug/L	07/17/2015 2234
cis-1,3-Dichloropropene	ND		1	5.0	0.30	ug/L	07/17/2015 2234
trans-1,3-Dichloropropene	ND		1	5.0	0.22	ug/L	07/17/2015 2234
Ethylbenzene	ND		1	5.0	0.21	ug/L	07/17/2015 2234
2-Hexanone	ND		1	10	0.26	ug/L	07/17/2015 2234
Isopropylbenzene	ND		1	5.0	0.14	ug/L	07/17/2015 2234
Methyl acetate	ND		1	5.0	0.24	ug/L	07/17/2015 2234
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	07/17/2015 2234
4-Methyl-2-pentanone	ND		1	10	0.29	ug/L	07/17/2015 2234
Methylcyclohexane	ND		1	5.0	0.16	ug/L	07/17/2015 2234
Methylene chloride	ND		1	5.0	0.42	ug/L	07/17/2015 2234
Styrene	ND		1	5.0	0.13	ug/L	07/17/2015 2234
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.13	ug/L	07/17/2015 2234
Tetrachloroethene	ND		1	5.0	0.22	ug/L	07/17/2015 2234
Toluene	ND		1	5.0	0.24	ug/L	07/17/2015 2234
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.30	ug/L	07/17/2015 2234
1,2,4-Trichlorobenzene	ND		1	5.0	0.13	ug/L	07/17/2015 2234
1,1,2-Trichloroethane	ND		1	5.0	0.22	ug/L	07/17/2015 2234
1,1,1-Trichloroethane	ND		1	5.0	0.24	ug/L	07/17/2015 2234

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 MDL
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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ80017-001
Batch: 80017
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.16	ug/L	07/17/2015 2234
Trichlorofluoromethane	ND		1	5.0	0.74	ug/L	07/17/2015 2234
Vinyl chloride	ND		1	2.0	0.50	ug/L	07/17/2015 2234
Xylenes (total)	ND		1	5.0	1.7	ug/L	07/17/2015 2234

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ80017-002
Batch: 80017
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	107	60-140	07/17/2015 2149
Benzene	50	58		1	115	70-130	07/17/2015 2149
Bromodichloromethane	50	56		1	112	70-130	07/17/2015 2149
Bromoform	50	56		1	113	70-130	07/17/2015 2149
Bromomethane (Methyl bromide)	50	51		1	102	60-140	07/17/2015 2149
2-Butanone (MEK)	100	100		1	104	60-140	07/17/2015 2149
Carbon disulfide	50	61		1	122	60-140	07/17/2015 2149
Carbon tetrachloride	50	55		1	110	70-130	07/17/2015 2149
Chlorobenzene	50	57		1	114	70-130	07/17/2015 2149
Chloroethane	50	50		1	100	42-163	07/17/2015 2149
Chloroform	50	54		1	107	70-130	07/17/2015 2149
Chloromethane (Methyl chloride)	50	49		1	98	60-140	07/17/2015 2149
Cyclohexane	50	58		1	116	70-130	07/17/2015 2149
1,2-Dibromo-3-chloropropane (DBCP)	50	56		1	111	70-130	07/17/2015 2149
Dibromochloromethane	50	57		1	114	70-130	07/17/2015 2149
1,2-Dibromoethane (EDB)	50	57		1	113	70-130	07/17/2015 2149
1,3-Dichlorobenzene	50	58		1	117	70-130	07/17/2015 2149
1,4-Dichlorobenzene	50	58		1	116	70-130	07/17/2015 2149
1,2-Dichlorobenzene	50	58		1	116	70-130	07/17/2015 2149
Dichlorodifluoromethane	50	44		1	88	60-140	07/17/2015 2149
1,1-Dichloroethane	50	55		1	111	70-130	07/17/2015 2149
1,2-Dichloroethane	50	56		1	112	70-130	07/17/2015 2149
cis-1,2-Dichloroethene	50	56		1	111	70-130	07/17/2015 2149
1,1-Dichloroethene	50	59		1	117	70-130	07/17/2015 2149
trans-1,2-Dichloroethene	50	58		1	116	70-130	07/17/2015 2149
1,2-Dichloropropane	50	56		1	113	70-130	07/17/2015 2149
cis-1,3-Dichloropropene	50	57		1	113	70-130	07/17/2015 2149
trans-1,3-Dichloropropene	50	56		1	113	70-130	07/17/2015 2149
Ethylbenzene	50	59		1	117	70-130	07/17/2015 2149
2-Hexanone	100	110		1	110	60-140	07/17/2015 2149
Isopropylbenzene	50	60		1	121	70-130	07/17/2015 2149
Methyl acetate	50	55		1	109	60-140	07/17/2015 2149
Methyl tertiary butyl ether (MTBE)	50	55		1	109	70-130	07/17/2015 2149
4-Methyl-2-pentanone	100	110		1	113	60-140	07/17/2015 2149
Methylcyclohexane	50	56		1	111	70-130	07/17/2015 2149
Methylene chloride	50	55		1	110	70-130	07/17/2015 2149
Styrene	50	58		1	116	70-130	07/17/2015 2149
1,1,2,2-Tetrachloroethane	50	58		1	117	70-130	07/17/2015 2149
Tetrachloroethene	50	60		1	119	70-130	07/17/2015 2149
Toluene	50	58		1	116	70-130	07/17/2015 2149
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	59		1	118	70-130	07/17/2015 2149
1,2,4-Trichlorobenzene	50	58		1	117	70-130	07/17/2015 2149
1,1,2-Trichloroethane	50	57		1	114	70-130	07/17/2015 2149
1,1,1-Trichloroethane	50	58		1	115	70-130	07/17/2015 2149

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 MDL
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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ80017-002
Batch: 80017
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	58		1	116	70-130	07/17/2015 2149
Trichlorofluoromethane	50	51		1	102	70-130	07/17/2015 2149
Vinyl chloride	50	51		1	102	70-130	07/17/2015 2149
Xylenes (total)	100	120		1	115	70-130	07/17/2015 2149

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		80	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QG09023-004MS
Batch: 80017
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	21	100	97		1	76	60-140	07/18/2015 0647
Benzene	ND	50	56		1	113	70-130	07/18/2015 0647
Bromodichloromethane	ND	50	55		1	110	71-143	07/18/2015 0647
Bromoform	ND	50	52		1	104	65-131	07/18/2015 0647
Bromomethane (Methyl bromide)	ND	50	38		1	77	36-168	07/18/2015 0647
2-Butanone (MEK)	ND	100	91		1	91	60-140	07/18/2015 0647
Carbon disulfide	ND	50	60		1	120	60-140	07/18/2015 0647
Carbon tetrachloride	ND	50	55		1	111	37-166	07/18/2015 0647
Chlorobenzene	ND	50	55		1	110	78-129	07/18/2015 0647
Chloroethane	ND	50	38		1	76	60-140	07/18/2015 0647
Chloroform	6.1	50	53		1	93	63-123	07/18/2015 0647
Chloromethane (Methyl chloride)	ND	50	37		1	73	20-158	07/18/2015 0647
Cyclohexane	ND	50	58		1	117	70-130	07/18/2015 0647
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	48		1	96	70-130	07/18/2015 0647
Dibromochloromethane	ND	50	54		1	108	74-134	07/18/2015 0647
1,2-Dibromoethane (EDB)	ND	50	53		1	106	70-130	07/18/2015 0647
1,2-Dichlorobenzene	ND	50	54		1	108	70-130	07/18/2015 0647
1,3-Dichlorobenzene	ND	50	54		1	109	70-130	07/18/2015 0647
1,4-Dichlorobenzene	ND	50	54		1	108	70-130	07/18/2015 0647
Dichlorodifluoromethane	ND	50	33		1	66	10-158	07/18/2015 0647
1,1-Dichloroethane	ND	50	55		1	109	69-132	07/18/2015 0647
1,2-Dichloroethane	ND	50	54		1	108	70-130	07/18/2015 0647
1,1-Dichloroethene	ND	50	60		1	119	50-132	07/18/2015 0647
cis-1,2-Dichloroethene	5.6	50	55		1	98	70-130	07/18/2015 0647
trans-1,2-Dichloroethene	ND	50	57		1	115	70-130	07/18/2015 0647
1,2-Dichloropropane	ND	50	56		1	112	71-126	07/18/2015 0647
cis-1,3-Dichloropropene	ND	50	52		1	104	69-130	07/18/2015 0647
trans-1,3-Dichloropropene	ND	50	51		1	102	73-131	07/18/2015 0647
Ethylbenzene	ND	50	57		1	113	70-130	07/18/2015 0647
2-Hexanone	ND	100	98		1	98	60-140	07/18/2015 0647
Isopropylbenzene	ND	50	58		1	116	70-130	07/18/2015 0647
Methyl acetate	ND	50	45		1	89	15-128	07/18/2015 0647
Methyl tertiary butyl ether (MTBE)	ND	50	51		1	103	70-130	07/18/2015 0647
4-Methyl-2-pentanone	ND	100	100		1	104	60-140	07/18/2015 0647
Methylcyclohexane	ND	50	57		1	114	70-130	07/18/2015 0647
Methylene chloride	ND	50	53		1	106	69-129	07/18/2015 0647
Styrene	32	50	55	N	1	48	70-130	07/18/2015 0647
1,1,2,2-Tetrachloroethane	ND	50	53		1	105	60-155	07/18/2015 0647
Tetrachloroethene	0.94	50	58		1	115	70-130	07/18/2015 0647
Toluene	ND	50	58		1	116	70-130	07/18/2015 0647
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	60		1	121	70-130	07/18/2015 0647
1,2,4-Trichlorobenzene	ND	50	53		1	107	70-130	07/18/2015 0647
1,1,1-Trichloroethane	ND	50	58		1	116	77-132	07/18/2015 0647
1,1,2-Trichloroethane	0.30	50	53		1	106	77-132	07/18/2015 0647

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 MDL
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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QG09023-004MS
Batch: 80017
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	150	50	57	N	1	-178	73-124	07/18/2015 0647
Trichlorofluoromethane	ND	50	39		1	78	60-140	07/18/2015 0647
Vinyl chloride	ND	50	40		1	80	29-159	07/18/2015 0647
Xylenes (total)	ND	100	110		1	111	70-130	07/18/2015 0647

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		118	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QG09023-004MD
Batch: 80017
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	21	100	77	N,+	1	57	23	60-140	20	07/18/2015 0709
Benzene	ND	50	46	+	1	91	21	70-130	20	07/18/2015 0709
Bromodichloromethane	ND	50	43	+	1	86	24	71-143	20	07/18/2015 0709
Bromoform	ND	50	40	+	1	80	25	65-131	20	07/18/2015 0709
Bromomethane (Methyl bromide)	ND	50	43		1	86	11	36-168	20	07/18/2015 0709
2-Butanone (MEK)	ND	100	74	+	1	74	21	60-140	20	07/18/2015 0709
Carbon disulfide	ND	50	49		1	98	20	60-140	20	07/18/2015 0709
Carbon tetrachloride	ND	50	45	+	1	90	21	37-166	20	07/18/2015 0709
Chlorobenzene	ND	50	44	+	1	88	22	78-129	20	07/18/2015 0709
Chloroethane	ND	50	44		1	87	14	60-140	20	07/18/2015 0709
Chloroform	6.1	50	43	+	1	73	21	63-123	20	07/18/2015 0709
Chloromethane (Methyl chloride)	ND	50	42		1	83	12	20-158	20	07/18/2015 0709
Cyclohexane	ND	50	47	+	1	94	21	70-130	20	07/18/2015 0709
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	37	+	1	73	27	70-130	20	07/18/2015 0709
Dibromochloromethane	ND	50	42	+	1	84	24	74-134	20	07/18/2015 0709
1,2-Dibromoethane (EDB)	ND	50	41	+	1	83	24	70-130	20	07/18/2015 0709
1,2-Dichlorobenzene	ND	50	42	+	1	84	25	70-130	20	07/18/2015 0709
1,3-Dichlorobenzene	ND	50	42	+	1	85	25	70-130	20	07/18/2015 0709
1,4-Dichlorobenzene	ND	50	42	+	1	84	25	70-130	20	07/18/2015 0709
Dichlorodifluoromethane	ND	50	36		1	72	8.8	10-158	20	07/18/2015 0709
1,1-Dichloroethane	ND	50	45		1	89	20	69-132	20	07/18/2015 0709
1,2-Dichloroethane	ND	50	43	+	1	85	23	70-130	20	07/18/2015 0709
1,1-Dichloroethene	ND	50	48	+	1	97	21	50-132	20	07/18/2015 0709
cis-1,2-Dichloroethene	5.6	50	45	+	1	78	21	70-130	20	07/18/2015 0709
trans-1,2-Dichloroethene	ND	50	46	+	1	92	22	70-130	20	07/18/2015 0709
1,2-Dichloropropane	ND	50	44	+	1	88	24	71-126	20	07/18/2015 0709
cis-1,3-Dichloropropene	ND	50	41	+	1	82	23	69-130	20	07/18/2015 0709
trans-1,3-Dichloropropene	ND	50	40	+	1	79	25	73-131	20	07/18/2015 0709
Ethylbenzene	ND	50	46	+	1	91	22	70-130	20	07/18/2015 0709
2-Hexanone	ND	100	76	+	1	76	26	60-140	20	07/18/2015 0709
Isopropylbenzene	ND	50	45	+	1	91	24	70-130	20	07/18/2015 0709
Methyl acetate	ND	50	35	+	1	69	25	15-128	20	07/18/2015 0709
Methyl tertiary butyl ether (MTBE)	ND	50	40	+	1	80	25	70-130	20	07/18/2015 0709
4-Methyl-2-pentanone	ND	100	80	+	1	80	26	60-140	20	07/18/2015 0709
Methylcyclohexane	ND	50	46	+	1	92	21	70-130	20	07/18/2015 0709
Methylene chloride	ND	50	43		1	87	20	69-129	20	07/18/2015 0709
Styrene	32	50	44	N,+	1	25	22	70-130	20	07/18/2015 0709
1,1,2,2-Tetrachloroethane	ND	50	41	+	1	82	25	60-155	20	07/18/2015 0709
Tetrachloroethene	0.94	50	47	+	1	92	22	70-130	20	07/18/2015 0709
Toluene	ND	50	46	+	1	92	22	70-130	20	07/18/2015 0709
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	49	+	1	97	22	70-130	20	07/18/2015 0709
1,2,4-Trichlorobenzene	ND	50	43	+	1	86	21	70-130	20	07/18/2015 0709
1,1,1-Trichloroethane	ND	50	46	+	1	93	22	77-132	20	07/18/2015 0709
1,1,2-Trichloroethane	0.30	50	42	+	1	84	23	77-132	20	07/18/2015 0709

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 MDL
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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QG09023-004MD
Batch: 80017
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	150	50	46	N,+	1	-199	21	73-124	20	07/18/2015 0709
Trichlorofluoromethane	ND	50	44		1	87	11	60-140	20	07/18/2015 0709
Vinyl chloride	ND	50	45		1	90	11	29-159	20	07/18/2015 0709
Xylenes (total)	ND	100	89	+	1	89	22	70-130	20	07/18/2015 0709

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 50356

Client: AECOM	Report to Contact: Scott Ross	Telephone No. / E-mail: 8032019662 Scott.Ross@AECOM.com	Quote No.
Address: 101 Research Dr	Sampler's Signature: X [signature]	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Columbia State: SC Zip Code: 29203	Printed Name: James Leightner		QG09023
Project Name: Shakespeare			
Project No.	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Air/Special	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs (TCL)	Remarks / Cooler I.D.
TMW-25	7-8-15	1515	G	✓						3			✓	
TMW-31	7-9-15	0905	G	✓						3			✓	
TMW-23		1015	G	✓						3			✓	
TMW-30		1055	G	✓						3			✓	
TMW-22		1138	G	✓						3			✓	
TMW-21		1230	G	✓						3			✓	
TMW-33		1320	G	✓						3			✓	
TRIP BLANK		—	—	✓						2			✓	

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

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	7-9-15	1450	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	7/9/15	1450

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

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack
Receipt Temp 11.9 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: Aecom Cooler Inspected by/date: KWP 7-9-15 Lot #: QG09023

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: / 11.8/11.8 °C / / °C / / / °C / / / °C Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
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 on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?
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) using SR # _____.			
Sample(s)_____ were received with bubbles >6 mm in diameter.			
Sample(s)_____ were received with TRC >0.2 mg/L (If #21 is No)			
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____ Sample(s)_____ were not received at a pH of <2 and were adjusted accordingly using SR#_____			
Sample labels applied by: KWP Verified by: _____ Date: 7-9-15			

Comments: