

NOTE: Groundwater VOC concentrations for detected compounds given in ug/L.

 = Concentration exceeds corresponding NYSDEC Class GA Groundwater Standard.

HJB-MW-13 Compound	Class GA Standard	Jul-06	Oct-06	Jun-11	Jul-12	Feb-13	Aug-13	Feb-14	Aug-14
Methylene Chloride	5	ND	ND	ND	ND	ND	1 J	ND	ND
Tetrachloroethene	10	ND	ND	ND	0.95 J	1.3 J	ND	ND	ND

BUILDING

SCALE: 1" = 20'

User: CADD Spec: ACAD File: G:\ACAD\PROJ\4279\009\HENRY JOHNSON ERP\CHEMOX-BASE.DWG Scale: 1"=20' Date: 03/03/2014 Time: 10:37 Layout: Layout

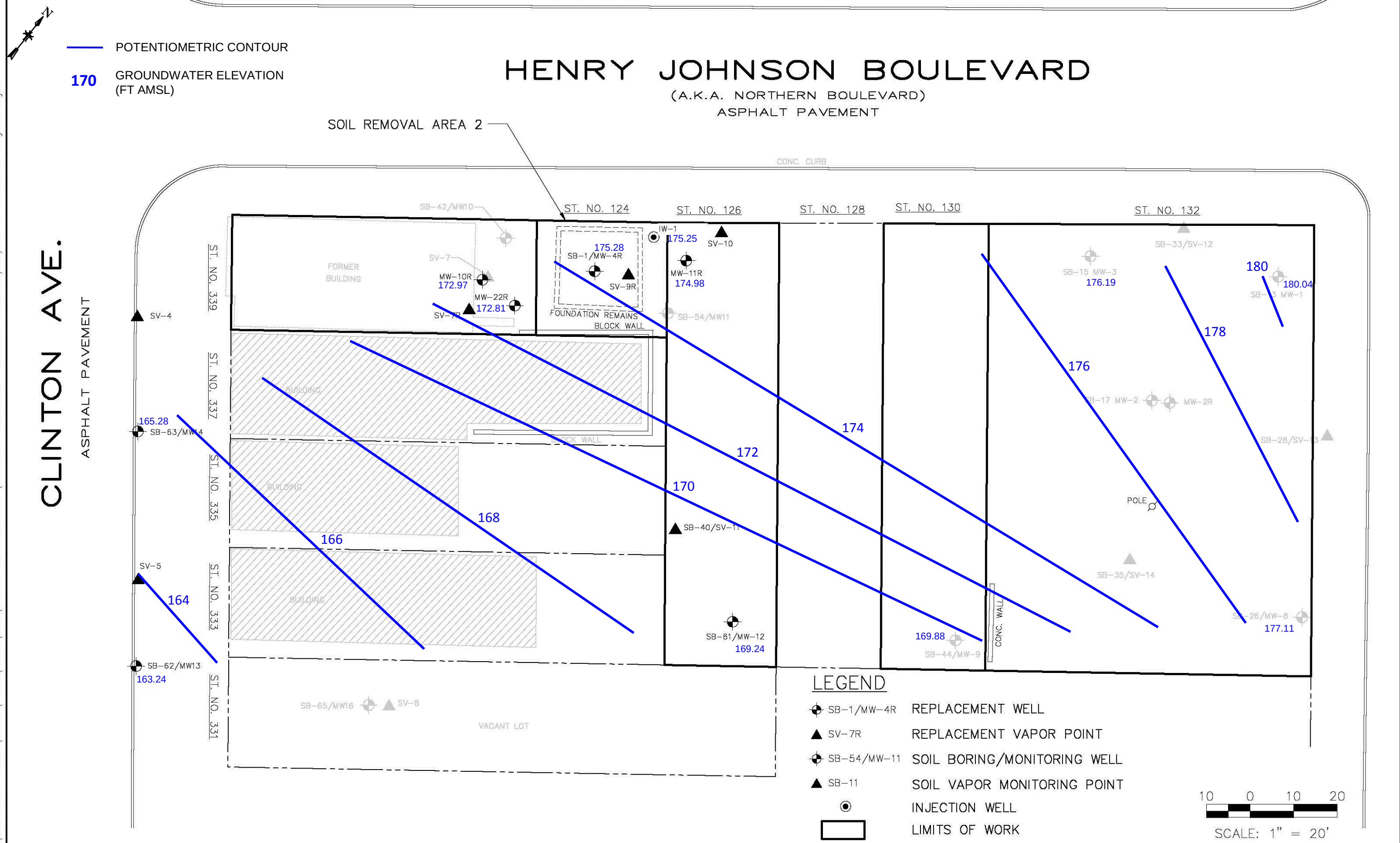


TABLE 1
SUMMARY OF DETECTED VOCs IN GROUNDWATER
HENRY JOHNSON BOULEVARD PROPERTIES ERP
CITY OF ALBANY, NEW YORK

Well ID	NYSDEC Class GA Standard or Guidance Value	IW-1			MW-4 / MW-4R						
Sample ID		HJB-IW-1	HJB-IW-1	HJB-IW-1	HJB-MW-4	HJB-MW-4	HJB-MW-4	HJB-MW-4R	HJB-MW-4R	HJB-MW-4R	MW-DUP-091311
Duplicate											
Sampling Date		6/14/2011	9/13/2011	8/22/2014	4/12/2006	7/28/2006	10/31/2006	7/5/2007	6/14/2011	9/13/2011	9/13/2011
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOCs											
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	3 J	1 J	1 J	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5	7 J	6	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	7	5 UJ	8	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U	5 U	5 U
Chloroform	7	2.7 J	5 U	1.5 J	5 U	5 UJ	1 J	2 J	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	47	75	25	180	340 JE	460 JE	10	48	27	53
Methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	1.1 J	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	100	140	90	6,000 D	15,000 D	19,000 D	5,000 D	170	16	140
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	16	30	14	190 DJ	680 DJ	1,600 DJ	30	22	5.4	20
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	3.3 J	3.7	2.2 J	8	10 J	8	5 U	2.6 J	1 J	2.5 J

Notes

 - Concentration exceeds NYSDEC Class GA Standard
 U - The compound was not detected at the indicated concentration
 J - Compound detected below the reporting limit or is estimated
 E - Concentration exceeded the calibration range.
 N - Positively identified TICS.
 B - The analyte was found in the method blank as well as sample.
 D - Concentration was obtained from a diluted analysis.
 NA - Not Analyzed.

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HENRY JOHNSON BOULEVARD PROPERTIES ERP
CITY OF ALBANY, NEW YORK

Well ID Sample ID Duplicate Sampling Date Matrix Units	NYSDEC Class GA Standard or Guidance Value ug/L	MW-10 / MW-10R									
		HJB-MW-10	HJB-MW-10	HJB-MW-10	HJB-MW-10R	HJB-MW-10R	HJB-MW-10R	HJB-MW-10R	DUP-082713	HJB-MW-10R	HJB-MW-10R
		7/27/2006 WATER ug/L	10/30/2006 WATER ug/L	6/14/2011 WATER ug/L	9/12/2011 WATER ug/L	7/18/2012 WATER ug/L	2/13/2013 WATER ug/L	8/27/2013 WATER ug/L	8/27/2013 WATER ug/L	2/11/2014 WATER ug/L	8/22/2014 WATER ug/L
VOCs											
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		17	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	1 J	5 U	1.2 BJ	1.3 BJ	5 U	5 U
Methyl tert-butyl ether	10	5 U	1 J	5 U	5 U	0.66 J	5 U	0.53 J	0.54 J	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5 U	5 U	1.6 J	160 D	2,300 D	300 D	77	76	51	120
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	1.4 J	24	5.6 DJ	2.7 BJ	2.7 BJ	5 U	1.7 J
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5 U	5 U	0.66 J	0.66 J	5 U	5 U

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CITY OF ALBANY, NEW YORK

Well ID Sample ID Duplicate Sampling Date Matrix Units	NYSDEC Class GA Standard or Guidance Value ug/L	MW-11 / MW-11R									
		HJB-MW-11	HJB-MW-11	HJB-MW-11R	HJB-MW-11R	HJB-MW-11R	HJB-MW-11R	HJB-MW-11R	HJB-MW-11R	HJB-MW-11R	HJB-MW-11R
		7/27/2006 WATER ug/L	10/30/2006 WATER ug/L	7/5/2007 WATER ug/L	6/14/2011 WATER ug/L	9/13/2011 WATER ug/L	7/18/2012 WATER ug/L	2/13/2013 WATER ug/L	8/27/2013 WATER ug/L	2/11/2014 WATER ug/L	8/22/2014 WATER ug/L
VOCs											
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U	1.4 J	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5 U	4 J	5 U	5 U	1.4 J	5 U	5 U	5 U	5 U	1.5 J
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

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CITY OF ALBANY, NEW YORK

Well ID Sample ID Duplicate Sampling Date Matrix Units	NYSDEC Class GA Standard or Guidance Value ug/L	MW-12				
		HJB-MW-12	HJB-MW-12	HJB-MW-12	HJB-MW-12	HJB-MW-12
		7/27/2006 WATER ug/L	10/30/2006 WATER ug/L	6/14/2011 WATER ug/L	7/18/2012 WATER ug/L	2/13/2013 WATER ug/L
VOCs						
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5.3	5 U	3.1 J
Benzene	1	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	5 U	5 U	3.4 J	5 U	5 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	2.3 J
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5 U

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		HJB-MW-13	HJB-MW-13	HJB-MW-13	HJB-MW-13	HJB-MW-13	HJB-MW-13	HJB-MW-13	HJB-MW-13
		7/28/2006 WATER ug/L	10/31/2006 WATER ug/L	6/14/2011 WATER ug/L	7/18/2012 WATER ug/L	2/13/2013 WATER ug/L	8/27/2013 WATER ug/L	2/11/2014 WATER ug/L	8/22/2014 WATER ug/L
VOCs									
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	1 J	5 U	5 U
Naphthalene	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5 U	5 U	5 U	0.95 J	1.3 J	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

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CITY OF ALBANY, NEW YORK

Well ID Sample ID Duplicate Sampling Date Matrix Units	NYSDEC Class GA Standard or Guidance Value ug/L	MW-14							
		HJB-MW-14	HJB-MW-14	HJB-MW-14	HJB-MW-14	HJB-MW-14	HJB-MW-14	HJB-MW-14	HJB-MW-14
		7/28/2006 WATER ug/L	11/1/2006 WATER ug/L	6/14/2011 WATER ug/L	7/18/2012 WATER ug/L	2/13/2013 WATER ug/L	8/27/2013 WATER ug/L	2/11/2014 WATER ug/L	8/22/2014 WATER ug/L
VOCs									
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	12	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	0.62 J	5 U	5 U
Naphthalene	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5 U	5 U	5 U	5 U	1.2 J	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Notes

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CITY OF ALBANY, NEW YORK

Well ID Sample ID Duplicate Sampling Date Matrix Units	NYSDEC Class GA Standard or Guidance Value ug/L	MW-22 / MW-22R									
		HJB-MW-22	HJB-MW-22R	HJB-MW-22R	DUP 071812	HJB-MW-22R	HJB-MW-22R	HJB-MW-22R	DUP 021114	HJB-MW-22R	DUP MW-X
		6/14/2011 WATER ug/L	9/12/2011 WATER ug/L	7/18/2012 WATER ug/L	7/18/2012 WATER ug/L	2/13/2013 WATER ug/L	8/27/2013 WATER ug/L	2/11/2014 WATER ug/L	2/11/2014 WATER ug/L	8/22/2014 WATER ug/L	8/22/2014 WATER ug/L
VOCs											
1,1,1,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	0.61 J	0.69 J	1.9 J	1.8 J	1.3 J	1.9 J
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	0.72 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5	5 U	3.2 J	33	40	3.6 J	20	40	39	52	55
Methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	9.3	160	2,600 D	3,100 D	2,700 D	4,100 D	7,100 D	7,000 D	4,500 D	4,800 D
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	11	90	110	50	99	140	140	140	150
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5 U	5 U	1.2 J	1.1 J	2 J	2 J

Notes

 - Concentration exceeds NYSDEC Class GA Standard
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 NA - Not Analyzed.

Report Date:
08-Sep-14 13:32



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: N1525
Project : Henry Johnson Blvd
Project #:

Attn: Stefan Bagnato

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N1525-01	MW-13 082214	Aqueous	22-Aug-14 09:20	23-Aug-14 10:35
N1525-02	TRIP BLANK	Aqueous	22-Aug-14 00:00	23-Aug-14 10:35
N1525-03	MW-14 082214	Aqueous	22-Aug-14 10:20	23-Aug-14 10:35
N1525-04	MW-10R 082214	Aqueous	22-Aug-14 11:45	23-Aug-14 10:35
N1525-05	MW-X 082214	Aqueous	22-Aug-14 13:00	23-Aug-14 10:35
N1525-06	MW-22R 082214	Aqueous	22-Aug-14 14:00	23-Aug-14 10:35
N1525-07	IW-1 082214	Aqueous	22-Aug-14 15:05	23-Aug-14 10:35
N1525-08	MW-11R 082214	Aqueous	22-Aug-14 15:35	23-Aug-14 10:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Data Summary Pack ***

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1525

Client ID: MALCOLM_LATHAM

Project: Henry Johnson Blvd

WO Name: Henry Johnson Blvd

Location: HENRY_JOHNSON,

Comments: N/A

Case:

SDG:

PO: 04279009.0000

HC Due: 09/08/14

Fax Due:

☐

Fax Report:

Report Level: ASP-B

Special Program:

EDD: CLF

EQUIS_4_NYSDEC_v3

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1525-01A	MW-13 082214	08/22/2014 09:20	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-02A	TRIP BLANK	08/22/2014 00:00	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-03A	MW-14 082214	08/22/2014 10:20	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-04A	MW-10R 082214	08/22/2014 11:45	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-05A	MW-X 082214	08/22/2014 13:00	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-06A	MW-22R 082214	08/22/2014 14:00	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-07A	IW-1 082214	08/22/2014 15:05	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA
N1525-08A	MW-11R 082214	08/22/2014 15:35	08/23/2014	Aqueous	SW8260_W	/ +TICs					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

*** Volatiles ***

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: Henry Johnson Blvd

Laboratory Workorder / SDG #: N1525

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

MW-X 082214 (N1525-05ADL) : Dilution Factor: 200
MW-22R 082214 (N1525-06ADL) : Dilution Factor: 200

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

Manual integration was performed on the following:

MW-X 082214 (N1525-05A) 1,1-Dichloroethene due to M7

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', is written over a horizontal line.

Signed:_____

Date:_____9/8/2014_____



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Data Flag/Qualifiers (Page 1 of 2):

- U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a “trace” concentration below the reporting limit and equal to or above the detection limit.
- D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as an aldol condensation by-product.



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Data Flag/Qualifiers (Page 2 of 2):

- N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- * For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.
- L NYSDEC qualifier: Result is biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS Matrix Spike.
- MSD Matrix Spike Duplicate
- DUP Duplicate analysis
- SD Serial Dilution
- PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1135.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1135.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-13 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-01A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1135.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1132.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1132.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-02A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1132.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1136.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1136.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-14 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-03A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1136.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1137.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	1.7	J
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1137.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	120	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-10R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-04A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1137.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-X 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1138.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	J
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.9	J
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	55	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	150	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-X 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1138.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	3300	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-X 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-05A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1138.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-X 082214DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4450.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	1000	U
74-83-9	Bromomethane	1000	U
75-00-3	Chloroethane	1000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
67-64-1	Acetone	1000	U
74-88-4	Iodomethane	1000	U
75-15-0	Carbon disulfide	1000	U
75-09-2	Methylene chloride	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
1634-04-4	Methyl tert-butyl ether	1000	U
75-34-3	1,1-Dichloroethane	1000	U
108-05-4	Vinyl acetate	1000	U
78-93-3	2-Butanone	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
594-20-7	2,2-Dichloropropane	1000	U
74-97-5	Bromochloromethane	1000	U
67-66-3	Chloroform	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
563-58-6	1,1-Dichloropropene	1000	U
56-23-5	Carbon tetrachloride	1000	U
107-06-2	1,2-Dichloroethane	1000	U
71-43-2	Benzene	1000	U
79-01-6	Trichloroethene	1000	U
78-87-5	1,2-Dichloropropane	1000	U
74-95-3	Dibromomethane	1000	U
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	1000	U
108-88-3	Toluene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
142-28-9	1,3-Dichloropropane	1000	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-X 082214DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-05ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4450.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	4800	D
591-78-6	2-Hexanone	1000	U
124-48-1	Dibromochloromethane	1000	U
106-93-4	1,2-Dibromoethane	1000	U
108-90-7	Chlorobenzene	1000	U
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
100-41-4	Ethylbenzene	1000	U
179601-23-1	m,p-Xylene	1000	U
95-47-6	o-Xylene	1000	U
1330-20-7	Xylene (Total)	1000	U
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-86-1	Bromobenzene	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
103-65-1	n-Propylbenzene	1000	U
95-49-8	2-Chlorotoluene	1000	U
108-67-8	1,3,5-Trimethylbenzene	1000	U
106-43-4	4-Chlorotoluene	1000	U
98-06-6	tert-Butylbenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
135-98-8	sec-Butylbenzene	1000	U
99-87-6	4-Isopropyltoluene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
104-51-8	n-Butylbenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
87-68-3	Hexachlorobutadiene	1000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-X 082214DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-05ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4450.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-22R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1139.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.0	J
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.3	J
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	52	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	140	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-22R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1139.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	3300	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-22R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-06A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1139.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-22R 082214DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-06ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4451.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	1000	U
74-83-9	Bromomethane	1000	U
75-00-3	Chloroethane	1000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
67-64-1	Acetone	1000	U
74-88-4	Iodomethane	1000	U
75-15-0	Carbon disulfide	1000	U
75-09-2	Methylene chloride	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
1634-04-4	Methyl tert-butyl ether	1000	U
75-34-3	1,1-Dichloroethane	1000	U
108-05-4	Vinyl acetate	1000	U
78-93-3	2-Butanone	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
594-20-7	2,2-Dichloropropane	1000	U
74-97-5	Bromochloromethane	1000	U
67-66-3	Chloroform	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
563-58-6	1,1-Dichloropropene	1000	U
56-23-5	Carbon tetrachloride	1000	U
107-06-2	1,2-Dichloroethane	1000	U
71-43-2	Benzene	1000	U
79-01-6	Trichloroethene	1000	U
78-87-5	1,2-Dichloropropane	1000	U
74-95-3	Dibromomethane	1000	U
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	1000	U
108-88-3	Toluene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
142-28-9	1,3-Dichloropropane	1000	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-22R 082214DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-06ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4451.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	4500	D
591-78-6	2-Hexanone	1000	U
124-48-1	Dibromochloromethane	1000	U
106-93-4	1,2-Dibromoethane	1000	U
108-90-7	Chlorobenzene	1000	U
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
100-41-4	Ethylbenzene	1000	U
179601-23-1	m,p-Xylene	1000	U
95-47-6	o-Xylene	1000	U
1330-20-7	Xylene (Total)	1000	U
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-86-1	Bromobenzene	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
103-65-1	n-Propylbenzene	1000	U
95-49-8	2-Chlorotoluene	1000	U
108-67-8	1,3,5-Trimethylbenzene	1000	U
106-43-4	4-Chlorotoluene	1000	U
98-06-6	tert-Butylbenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
135-98-8	sec-Butylbenzene	1000	U
99-87-6	4-Isopropyltoluene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
104-51-8	n-Butylbenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
87-68-3	Hexachlorobutadiene	1000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-22R 082214DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-06ADL
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4451.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 200.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IW-1 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4456.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	2.2	J
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	25	
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.5	J
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	14	
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IW-1 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4456.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	90	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

IW-1 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-07A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4456.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4457.D
Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4457.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/23/2014

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	1.5	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-11R 082214

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: N1525-08A
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4457.D
Level: (TRACE or LOW/MED) LOW Date Received: 08/23/2014
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-78750
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1130.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-78750
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1130.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-78750
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1130.D
Level: (TRACE or LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-78802
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4445.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
74-95-3	Dibromomethane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-78802

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4445.D

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-78802
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4445.D
Level: (TRACE or LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 09/02/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-78750
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1124.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	49	
74-87-3	Chloromethane	52	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	60	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	56	
74-88-4	Iodomethane	51	
75-15-0	Carbon disulfide	40	
75-09-2	Methylene chloride	55	
156-60-5	trans-1,2-Dichloroethene	55	
1634-04-4	Methyl tert-butyl ether	47	
75-34-3	1,1-Dichloroethane	47	
108-05-4	Vinyl acetate	48	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	53	
594-20-7	2,2-Dichloropropane	46	
74-97-5	Bromochloromethane	56	
67-66-3	Chloroform	47	
71-55-6	1,1,1-Trichloroethane	46	
563-58-6	1,1-Dichloropropene	59	
56-23-5	Carbon tetrachloride	45	
107-06-2	1,2-Dichloroethane	41	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	56	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	45	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	45	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	47	
79-00-5	1,1,2-Trichloroethane	52	
142-28-9	1,3-Dichloropropane	46	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-78750

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1124.D

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. Date Analyzed: 08/28/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	52	
591-78-6	2-Hexanone	45	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	49	
100-41-4	Ethylbenzene	50	
179601-23-1	m,p-Xylene	97	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	45	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	51	
95-49-8	2-Chlorotoluene	49	
108-67-8	1,3,5-Trimethylbenzene	42	
106-43-4	4-Chlorotoluene	49	
98-06-6	tert-Butylbenzene	46	
95-63-6	1,2,4-Trimethylbenzene	42	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	43	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	35	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	45	
87-61-6	1,2,3-Trichlorobenzene	41	
91-20-3	Naphthalene	40	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-78802

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4442.D

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	55	
74-87-3	Chloromethane	53	
75-01-4	Vinyl chloride	54	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	54	
74-88-4	Iodomethane	55	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	50	
156-60-5	trans-1,2-Dichloroethene	53	
1634-04-4	Methyl tert-butyl ether	54	
75-34-3	1,1-Dichloroethane	52	
108-05-4	Vinyl acetate	53	
78-93-3	2-Butanone	57	
156-59-2	cis-1,2-Dichloroethene	54	
594-20-7	2,2-Dichloropropane	51	
74-97-5	Bromochloromethane	55	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	50	
563-58-6	1,1-Dichloropropene	53	
56-23-5	Carbon tetrachloride	52	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	53	
78-87-5	1,2-Dichloropropane	48	
74-95-3	Dibromomethane	51	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	58	
108-88-3	Toluene	53	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	50	
142-28-9	1,3-Dichloropropane	49	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____

Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-78802

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5P4442.D

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. Date Analyzed: 09/02/2014

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	50	
591-78-6	2-Hexanone	57	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	52	
100-41-4	Ethylbenzene	52	
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	52	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	53	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	51	
96-18-4	1,2,3-Trichloropropane	48	
103-65-1	n-Propylbenzene	52	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	52	
98-06-6	tert-Butylbenzene	51	
95-63-6	1,2,4-Trimethylbenzene	52	
135-98-8	sec-Butylbenzene	51	
99-87-6	4-Isopropyltoluene	52	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	52	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	54	
87-68-3	Hexachlorobutadiene	53	
87-61-6	1,2,3-Trichlorobenzene	53	
91-20-3	Naphthalene	58	

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-78750
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1125.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	46	
74-87-3	Chloromethane	52	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	60	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	54	
67-64-1	Acetone	61	
74-88-4	Iodomethane	49	
75-15-0	Carbon disulfide	55	
75-09-2	Methylene chloride	57	
156-60-5	trans-1,2-Dichloroethene	55	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	48	
108-05-4	Vinyl acetate	51	
78-93-3	2-Butanone	48	
156-59-2	cis-1,2-Dichloroethene	54	
594-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	57	
67-66-3	Chloroform	48	
71-55-6	1,1,1-Trichloroethane	44	
563-58-6	1,1-Dichloropropene	59	
56-23-5	Carbon tetrachloride	44	
107-06-2	1,2-Dichloroethane	42	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	56	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	48	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	49	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	55	
142-28-9	1,3-Dichloropropane	47	

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-78750
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1N1125.D
Level: (TRACE/LOW/MED) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 08/28/2014
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
127-18-4	Tetrachloroethene	53	
591-78-6	2-Hexanone	49	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	51	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	51	
179601-23-1	m,p-Xylene	95	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	49	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	47	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	53	
103-65-1	n-Propylbenzene	51	
95-49-8	2-Chlorotoluene	49	
108-67-8	1,3,5-Trimethylbenzene	43	
106-43-4	4-Chlorotoluene	49	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	43	
135-98-8	sec-Butylbenzene	46	
99-87-6	4-Isopropyltoluene	46	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	49	
104-51-8	n-Butylbenzene	43	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	40	
120-82-1	1,2,4-Trichlorobenzene	50	
87-68-3	Hexachlorobutadiene	48	
87-61-6	1,2,3-Trichlorobenzene	48	
91-20-3	Naphthalene	49	

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
 Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-78750	95	104	99	85				0
02	LCSD-78750	94	111	98	86				0
03	MB-78750	97	105	98	82				0
04	TRIP BLANK	94	101	97	85				0
05	MW-13 082214	95	105	96	83				0
06	MW-14 082214	94	103	98	83				0
07	MW-10R 082214	94	98	97	83				0
08	MW-X 082214	96	100	98	83				0
09	MW-22R 082214	97	103	98	83				0
10	LCS-78802	103	103	98	100				0
11	MB-78802	98	99	95	99				0
12	MW-X 082214DL	100	95	98	96				0
13	MW-22R 082214DL	100	95	99	104				0
14	IW-1 082214	99	96	94	95				0
15	MW-11R 082214	105	103	97	97				0

QC LIMITS
 (85-115)
 (70-120)
 (85-120)
 (75-120)

VDMC1 (DBFM) Dibromofluoromethane
 VDMC2 (DCE) = 1,2-Dichloroethane-d4
 VDMC3 (TOL) = Toluene-d8
 VDMC4 (BFB) = Bromofluorobenzene
 # Column to be used to flag recovery values
 * Values outside of contract required QC limits

som14.07.15.0901

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Lab Sample ID: LCS-78750 LCS Lot No.: _____
Date Extracted: 08/28/2014 Date Analyzed (1): 08/28/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	49.0616	98		30 - 155
Chloromethane	50.0000	0.0000	51.8511	104		40 - 125
Vinyl chloride	50.0000	0.0000	51.5052	103		50 - 145
Bromomethane	50.0000	0.0000	59.9175	120		30 - 145
Chloroethane	50.0000	0.0000	51.3198	103		60 - 135
Trichlorofluoromethane	50.0000	0.0000	43.6154	87		60 - 145
1,1-Dichloroethene	50.0000	0.0000	52.7487	105		70 - 130
Acetone	50.0000	0.0000	55.6034	111		40 - 140
Iodomethane	50.0000	0.0000	50.8405	102		72 - 121
Carbon disulfide	50.0000	0.0000	39.7029	79		35 - 160
Methylene chloride	50.0000	0.0000	55.2324	110		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	54.7880	110		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	46.8207	94		65 - 125
1,1-Dichloroethane	50.0000	0.0000	47.4799	95		70 - 135
Vinyl acetate	50.0000	0.0000	48.2657	97		38 - 163
2-Butanone	50.0000	0.0000	44.3202	89		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	52.8177	106		70 - 125
2,2-Dichloropropane	50.0000	0.0000	46.1361	92		70 - 135
Bromochloromethane	50.0000	0.0000	56.2420	112		65 - 130
Chloroform	50.0000	0.0000	46.7598	94		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	46.0480	92		65 - 130
1,1-Dichloropropene	50.0000	0.0000	58.7214	117		75 - 130
Carbon tetrachloride	50.0000	0.0000	44.6026	89		65 - 140
1,2-Dichloroethane	50.0000	0.0000	40.9176	82		70 - 130
Benzene	50.0000	0.0000	51.3129	103		80 - 120
Trichloroethene	50.0000	0.0000	56.0799	112		70 - 125
1,2-Dichloropropane	50.0000	0.0000	48.5093	97		75 - 125
Dibromomethane	50.0000	0.0000	46.5088	93		75 - 125
Bromodichloromethane	50.0000	0.0000	44.6763	89		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	50.3383	101		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	44.8595	90		60 - 135
Toluene	50.0000	0.0000	50.6514	101		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	46.9508	94		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	51.5881	103		75 - 125
1,3-Dichloropropane	50.0000	0.0000	45.7683	92		75 - 125
Tetrachloroethene	50.0000	0.0000	52.3542	105		45 - 150
2-Hexanone	50.0000	0.0000	44.8891	90		55 - 130
Dibromochloromethane	50.0000	0.0000	48.1464	96		60 - 135
1,2-Dibromoethane	50.0000	0.0000	49.7374	99		80 - 120
Chlorobenzene	50.0000	0.0000	50.3214	101		80 - 120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	48.6578	97		80 - 130
Ethylbenzene	50.0000	0.0000	50.0234	100		75 - 125
m,p-Xylene	100.0000	0.0000	97.1140	97		75 - 130
o-Xylene	50.0000	0.0000	47.8806	96		80 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Lab Sample ID: LCS-78750 LCS Lot No.: _____
Date Extracted: 08/28/2014 Date Analyzed (1): 08/28/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	144.9947	97		81 - 121
Styrene	50.0000	0.0000	47.8931	96		65 - 135
Bromoform	50.0000	0.0000	46.2842	93		70 - 130
Isopropylbenzene	50.0000	0.0000	45.6170	91		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	44.6673	89		65 - 130
Bromobenzene	50.0000	0.0000	51.5005	103		75 - 125
1,2,3-Trichloropropane	50.0000	0.0000	49.9721	100		75 - 125
n-Propylbenzene	50.0000	0.0000	50.6034	101		70 - 130
2-Chlorotoluene	50.0000	0.0000	48.7130	97		75 - 125
1,3,5-Trimethylbenzene	50.0000	0.0000	42.0908	84		75 - 130
4-Chlorotoluene	50.0000	0.0000	49.1499	98		75 - 130
tert-Butylbenzene	50.0000	0.0000	45.5482	91		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	41.9245	84		75 - 130
sec-Butylbenzene	50.0000	0.0000	45.2983	91		70 - 125
4-Isopropyltoluene	50.0000	0.0000	45.3897	91		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.3299	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	47.4207	95		75 - 125
n-Butylbenzene	50.0000	0.0000	42.7659	86		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	47.8164	96		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	34.9559	70		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	47.2127	94		65 - 135
Hexachlorobutadiene	50.0000	0.0000	44.5805	89		50 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	40.8051	82		55 - 140
Naphthalene	50.0000	0.0000	39.6733	79		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Lab Sample ID: LCS-78802 LCS Lot No.: _____
Date Extracted: 09/02/2014 Date Analyzed (1): 09/02/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	55.1580	110		30 - 155
Chloromethane	50.0000	0.0000	53.2335	106		40 - 125
Vinyl chloride	50.0000	0.0000	53.6347	107		50 - 145
Bromomethane	50.0000	0.0000	51.9589	104		30 - 145
Chloroethane	50.0000	0.0000	50.5839	101		60 - 135
Trichlorofluoromethane	50.0000	0.0000	54.9408	110		60 - 145
1,1-Dichloroethene	50.0000	0.0000	53.0219	106		70 - 130
Acetone	50.0000	0.0000	54.2950	109		40 - 140
Iodomethane	50.0000	0.0000	54.8809	110		72 - 121
Carbon disulfide	50.0000	0.0000	50.0472	100		35 - 160
Methylene chloride	50.0000	0.0000	49.8562	100		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	52.7717	106		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	54.1219	108		65 - 125
1,1-Dichloroethane	50.0000	0.0000	51.9058	104		70 - 135
Vinyl acetate	50.0000	0.0000	52.9409	106		38 - 163
2-Butanone	50.0000	0.0000	56.9122	114		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	53.5307	107		70 - 125
2,2-Dichloropropane	50.0000	0.0000	51.2647	103		70 - 135
Bromochloromethane	50.0000	0.0000	54.6349	109		65 - 130
Chloroform	50.0000	0.0000	51.5806	103		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	49.7016	99		65 - 130
1,1-Dichloropropene	50.0000	0.0000	52.6001	105		75 - 130
Carbon tetrachloride	50.0000	0.0000	52.1403	104		65 - 140
1,2-Dichloroethane	50.0000	0.0000	50.4937	101		70 - 130
Benzene	50.0000	0.0000	50.7263	101		80 - 120
Trichloroethene	50.0000	0.0000	52.6439	105		70 - 125
1,2-Dichloropropane	50.0000	0.0000	48.2578	97		75 - 125
Dibromomethane	50.0000	0.0000	50.8468	102		75 - 125
Bromodichloromethane	50.0000	0.0000	47.8630	96		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	52.5820	105		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	57.8683	116		60 - 135
Toluene	50.0000	0.0000	52.8394	106		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	53.7698	108		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	49.9798	100		75 - 125
1,3-Dichloropropane	50.0000	0.0000	49.4740	99		75 - 125
Tetrachloroethene	50.0000	0.0000	49.9327	100		45 - 150
2-Hexanone	50.0000	0.0000	57.0795	114		55 - 130
Dibromochloromethane	50.0000	0.0000	50.3291	101		60 - 135
1,2-Dibromoethane	50.0000	0.0000	50.7450	101		80 - 120
Chlorobenzene	50.0000	0.0000	50.0124	100		80 - 120
1,1,1,2-Tetrachloroethane	50.0000	0.0000	51.9553	104		80 - 130
Ethylbenzene	50.0000	0.0000	52.2949	105		75 - 125
m,p-Xylene	100.0000	0.0000	105.5051	106		75 - 130
o-Xylene	50.0000	0.0000	51.7150	103		80 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Lab Sample ID: LCS-78802 LCS Lot No.: _____
Date Extracted: 09/02/2014 Date Analyzed (1): 09/02/2014

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Xylene (Total)	150.0000	0.0000	157.2202	105		81 - 121
Styrene	50.0000	0.0000	52.8488	106		65 - 135
Bromoform	50.0000	0.0000	53.5592	107		70 - 130
Isopropylbenzene	50.0000	0.0000	51.5866	103		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	48.3539	97		65 - 130
Bromobenzene	50.0000	0.0000	50.7126	101		75 - 125
1,2,3-Trichloropropane	50.0000	0.0000	47.8098	96		75 - 125
n-Propylbenzene	50.0000	0.0000	52.1043	104		70 - 130
2-Chlorotoluene	50.0000	0.0000	49.9959	100		75 - 125
1,3,5-Trimethylbenzene	50.0000	0.0000	51.8800	104		75 - 130
4-Chlorotoluene	50.0000	0.0000	51.9474	104		75 - 130
tert-Butylbenzene	50.0000	0.0000	51.2207	102		70 - 130
1,2,4-Trimethylbenzene	50.0000	0.0000	52.0668	104		75 - 130
sec-Butylbenzene	50.0000	0.0000	50.7825	102		70 - 125
4-Isopropyltoluene	50.0000	0.0000	51.8839	104		75 - 130
1,3-Dichlorobenzene	50.0000	0.0000	50.6793	101		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.9519	98		75 - 125
n-Butylbenzene	50.0000	0.0000	52.3490	105		70 - 135
1,2-Dichlorobenzene	50.0000	0.0000	50.9677	102		70 - 120
1,2-Dibromo-3-chloropropan	50.0000	0.0000	48.7069	97		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	53.7200	107		65 - 135
Hexachlorobutadiene	50.0000	0.0000	52.7994	106		50 - 140
1,2,3-Trichlorobenzene	50.0000	0.0000	53.3827	107		55 - 140
Naphthalene	50.0000	0.0000	57.8256	116		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS: _____

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-78750

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: N1525

Mod. Ref No.:

SDG No.: SN1525

Lab Sample ID: LCSD-78750

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #		QC LIMITS	
							RPD	REC.
Dichlorodifluoromethane	50.0000	46.0227	92		6		40	30 - 155
Chloromethane	50.0000	51.7096	103		1		40	40 - 125
Vinyl chloride	50.0000	51.0314	102		1		40	50 - 145
Bromomethane	50.0000	59.6783	119		1		40	30 - 145
Chloroethane	50.0000	50.7167	101		2		40	60 - 135
Trichlorofluoromethane	50.0000	44.0262	88		1		40	60 - 145
1,1-Dichloroethene	50.0000	54.0106	108		3		40	70 - 130
Acetone	50.0000	61.0990	122		9		40	40 - 140
Iodomethane	50.0000	48.7875	98		4		40	72 - 121
Carbon disulfide	50.0000	55.0771	110		33		40	35 - 160
Methylene chloride	50.0000	56.7617	114		4		40	55 - 140
trans-1,2-Dichloroethene	50.0000	55.2835	111		1		40	60 - 140
Methyl tert-butyl ether	50.0000	48.0664	96		2		40	65 - 125
1,1-Dichloroethane	50.0000	47.9132	96		1		40	70 - 135
Vinyl acetate	50.0000	50.8040	102		5		40	38 - 163
2-Butanone	50.0000	47.6440	95		7		40	30 - 150
cis-1,2-Dichloroethene	50.0000	53.8988	108		2		40	70 - 125
2,2-Dichloropropane	50.0000	48.1086	96		4		40	70 - 135
Bromochloromethane	50.0000	56.8233	114		2		40	65 - 130
Chloroform	50.0000	47.5134	95		1		40	65 - 135
1,1,1-Trichloroethane	50.0000	44.3657	89		3		40	65 - 130
1,1-Dichloropropene	50.0000	59.2094	118		1		40	75 - 130
Carbon tetrachloride	50.0000	44.1282	88		1		40	65 - 140
1,2-Dichloroethane	50.0000	41.7922	84		2		40	70 - 130
Benzene	50.0000	51.4112	103		0		40	80 - 120
Trichloroethene	50.0000	55.8120	112		0		40	70 - 125
1,2-Dichloropropane	50.0000	49.3035	99		2		40	75 - 125
Dibromomethane	50.0000	47.5513	95		2		40	75 - 125
Bromodichloromethane	50.0000	46.2728	93		4		40	75 - 120
cis-1,3-Dichloropropene	50.0000	51.0875	102		1		40	70 - 130
4-Methyl-2-pentanone	50.0000	48.5167	97		7		40	60 - 135
Toluene	50.0000	51.1519	102		1		40	75 - 120
trans-1,3-Dichloropropene	50.0000	48.3660	97		3		40	55 - 140
1,1,2-Trichloroethane	50.0000	54.5969	109		6		40	75 - 125
1,3-Dichloropropane	50.0000	47.0955	94		2		40	75 - 125
Tetrachloroethene	50.0000	52.7411	105		0		40	45 - 150
2-Hexanone	50.0000	49.3137	99		10		40	55 - 130
Dibromochloromethane	50.0000	49.6908	99		3		40	60 - 135
1,2-Dibromoethane	50.0000	51.4503	103		4		40	80 - 120
Chlorobenzene	50.0000	50.9401	102		1		40	80 - 120
1,1,1,2-Tetrachloroethane	50.0000	50.0880	100		3		40	80 - 130
Ethylbenzene	50.0000	50.5022	101		1		40	75 - 125
m,p-Xylene	100.0000	95.0560	95		2		40	75 - 130
o-Xylene	50.0000	47.9477	96		0		40	80 - 120
Xylene (Total)	150.0000	143.0037	95		2		40	81 - 121
Styrene	50.0000	48.9133	98		2		40	65 - 135

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-78750

Lab Name: SPECTRUM ANALYTICAL, INC.

Contract:

Lab Code: MITKEM Case No.: N1525

Mod. Ref No.:

SDG No.: SN1525

Lab Sample ID: LCSD-78750

LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC #		%RPD #		QC LIMITS	
							RPD	REC.
Bromoform	50.0000	48.9870	98		5		40	70 - 130
Isopropylbenzene	50.0000	46.4666	93		2		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	47.3235	95		7		40	65 - 130
Bromobenzene	50.0000	52.3705	105		2		40	75 - 125
1,2,3-Trichloropropane	50.0000	52.7620	106		6		40	75 - 125
n-Propylbenzene	50.0000	50.8206	102		1		40	70 - 130
2-Chlorotoluene	50.0000	49.4261	99		2		40	75 - 125
1,3,5-Trimethylbenzene	50.0000	42.5689	85		1		40	75 - 130
4-Chlorotoluene	50.0000	48.7721	98		0		40	75 - 130
tert-Butylbenzene	50.0000	46.7821	94		3		40	70 - 130
1,2,4-Trimethylbenzene	50.0000	42.7173	85		1		40	75 - 130
sec-Butylbenzene	50.0000	46.3703	93		2		40	70 - 125
4-Isopropyltoluene	50.0000	45.9013	92		1		40	75 - 130
1,3-Dichlorobenzene	50.0000	49.1377	98		1		40	75 - 125
1,4-Dichlorobenzene	50.0000	48.6114	97		2		40	75 - 125
n-Butylbenzene	50.0000	43.1703	86		0		40	70 - 135
1,2-Dichlorobenzene	50.0000	50.2365	100		4		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	40.4424	81		15		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	50.3710	101		7		40	65 - 135
Hexachlorobutadiene	50.0000	47.9330	96		8		40	50 - 140
1,2,3-Trichlorobenzene	50.0000	47.7310	95		15		40	55 - 140
Naphthalene	50.0000	49.0006	98		21		40	55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 68 outside limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-78750

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Lab File ID: V1N1130.D Lab Sample ID: MB-78750
Instrument ID: V1
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 08/28/2014
Level: (TRACE or LOW/MED) LOW Time Analyzed: 15:15
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-78750	LCS-78750	V1N1124.D	11:36
02	LCSD-78750	LCSD-78750	V1N1125.D	12:01
03	TRIP BLANK	N1525-02A	V1N1132.D	16:06
04	MW-13 082214	N1525-01A	V1N1135.D	17:20
05	MW-14 082214	N1525-03A	V1N1136.D	17:45
06	MW-10R 082214	N1525-04A	V1N1137.D	18:10
07	MW-X 082214	N1525-05A	V1N1138.D	18:34
08	MW-22R 082214	N1525-06A	V1N1139.D	18:59

COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-78802

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
Lab File ID: V5P4445.D Lab Sample ID: MB-78802
Instrument ID: V5
Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 09/02/2014
Level: (TRACE or LOW/MED) LOW Time Analyzed: 15:10
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-78802	LCS-78802	V5P4442.D	14:18
02	MW-X 082214DL	N1525-05ADL	V5P4450.D	17:19
03	MW-22R 082214DL	N1525-06ADL	V5P4451.D	17:44
04	IW-1 082214	N1525-07A	V5P4456.D	19:51
05	MW-11R 082214	N1525-08A	V5P4457.D	20:17

COMMENTS: _____

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 08/12/2014 08/12/2014
 EPA Sample No.(VSTD#####): VSTD0501P Date Analyzed: 08/28/2014
 Lab File ID (Standard): V1N1122.D Time Analyzed: 10:36
 Instrument ID: V1 Heated Purge: (Y/N) N

	IS1 (S1)		IS2 (S2)		IS3 (S3)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1307882	4.394	869243	7.25	344718	9.819
UPPER LIMIT	2615764	4.894	1738486	7.75	689436	10.319
LOWER LIMIT	653941	3.894	434622	6.75	172359	9.319
EPA SAMPLE NO.						
01 LCS-78750	1208625	4.400	813149	7.245	332215	9.825
02 LCSD-78750	1256067	4.394	846962	7.250	344505	9.819
03 MB-78750	1279438	4.395	856936	7.251	339535	9.830
04 TRIP BLANK	1147666	4.398	781362	7.244	312774	9.814
05 MW-13 082214	1204829	4.396	835319	7.241	335549	9.811
06 MW-14 082214	1283789	4.394	863345	7.250	336890	9.819
07 MW-10R 082214	1265775	4.387	863687	7.233	344024	9.813
08 MW-X 082214	1331016	4.393	904166	7.248	358851	9.818
09 MW-22R 082214	1360954	4.395	927440	7.240	376634	9.810

IS1 () = Fluorobenzene

IS2 () = Chlorobenzene-d5

IS3 () = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: N1525 Mod. Ref No.: _____ SDG No.: SN1525
 GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 09/02/2014 09/02/2014
 EPA Sample No.(VSTD#####): VSTD050V5 Date Analyzed: 09/02/2014
 Lab File ID (Standard): V5P4441.D Time Analyzed: 13:26
 Instrument ID: V5 Heated Purge: (Y/N) N

	IS1 (S1)		IS2 (S2)		IS3 (S3)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1004583	5.574	855498	9.045	394833	12.203
UPPER LIMIT	2009166	6.074	1710996	9.545	789666	12.703
LOWER LIMIT	502292	5.074	427749	8.545	197417	11.703
EPA SAMPLE NO.						
01 LCS-78802	906045	5.569	837884	9.040	399865	12.198
02 MB-78802	934142	5.570	834329	9.041	376316	12.199
03 MW-X 082214DL	896862	5.571	794766	9.042	348851	12.200
04 MW-22R 082214DL	899770	5.581	756549	9.040	354697	12.198
05 IW-1 082214	882028	5.570	790306	9.041	336072	12.199
06 MW-11R 082214	846496	5.575	756294	9.046	324113	12.204

IS1 () = Fluorobenzene

IS2 () = Chlorobenzene-d5

IS3 () = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.