APPENDIX C

Laboratory Results

Soil Pre-characterization Data (December 2009)

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Dana Zewinski
J.R. Vinagro Corporation
2208 Plainfield Pike
Johnston, RI 02919

RE: Chapman Testing (N/A)
ESS Laboratory Work Order Number: 0912230

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Laurel Stoddard
Date: 2009.12.30 11:53:07 -05'00'

Laurel Stoddard
Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

SAMPLE RECEIPT

The following samples were received on December 18, 2009 for the analyses specified on the enclosed Chain of Custody Record.

Question F: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
0912230-01	TP-1 0.5-1.5	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-02	TP-1 3-4	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-03	TP-2 0.5-1.5	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-04	TP-3 4-5	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-05	TP-4 4-5	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-06	TP-5 1-2	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-07	TP-5 6-7	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-08	TP-6 3-4	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-09	TP-7 2-3	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-10	TP-8 0.5-1.5	Soil	6010B, 7471A, 8082, 8260B, MA EPH04-1
0912230-11	Trip Blank	Solid	8260B

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

BL91817-MS1 — **Matrix Spike recovery is above upper control limit (M+).**
Lead (178% @ 75-125%)

BL91818-SRM1 — **Standard Reference Material is biased high (R+).**
Mercury (135% @ 66-132%)

5035/8260B Volatile Organic Compounds / Methanol

0912230-03 — **Surrogate recovery(ies) above upper control limit (S+).**
1,2-Dichloroethane-d4 (139% @ 70-130%), Dibromofluoromethane (134% @ 70-130%), Toluene-d8 (143% @ 70-130%)

0912230-03 — **Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
4-Bromofluorobenzene (143% @ 70-130%)

0912230-03RE1 — **Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
4-Bromofluorobenzene (131% @ 70-130%)

0912230-10 — **Surrogate recovery(ies) above upper control limit (S+).**
1,2-Dichloroethane-d4 (136% @ 70-130%), Dibromofluoromethane (131% @ 70-130%)

0912230-10 — **Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
4-Bromofluorobenzene (142% @ 70-130%), Toluene-d8 (142% @ 70-130%)

BL91804-MS1 — **Matrix Spike recovery is above upper control limit (M+).**
Hexachlorobutadiene (138% @ 70-130%)

BL91804-MS1 — **Matrix Spike recovery is below lower control limit (M-).**
1,4-Dioxane - Screen (34% @ 44-241%)

BL91804-MSD1 — **Matrix Spike recovery is above upper control limit (M+).**
Hexachlorobutadiene (140% @ 70-130%)

BL91804-MSD1 — **Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
4-Bromofluorobenzene (132% @ 70-130%), Toluene-d8 (134% @ 70-130%)

BSL0138-CCV1 — **Continuing Calibration recovery is below lower control limit (C-).**
1,4-Dioxane - Screen (58% @ 70-130%)

BSL0149-CCV1 — **Continuing Calibration recovery is above upper control limit (C+).**
Chloroethane (149% @ 70-130%)

8082 Polychlorinated Biphenyls (PCB)

BL91808-MS1 — **Matrix Spike recovery is below lower control limit (M-).**
Aroclor 1016 (38% @ 40-140%)

BL91808-MS1 — **Surrogate recovery(ies) below lower control limit (S-).**
Decachlorobiphenyl (29% @ 30-150%)

BL91808-MSD1 — **Matrix Spike recovery is below lower control limit (M-).**
Aroclor 1260 (36% @ 40-140%)

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

0912230-01 — **Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
1-Chlorooctadecane (22% @ 40-140%)

0912230-01RE1 — **Surrogate recovery(ies) below lower control limit (S-).**

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing ESS Laboratory Work Order: 0912230

	O-Terphenyl (17% @ 40-140%)
0912230-01RE1	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
	1-Chlorooctadecane (10% @ 40-140%)
0912230-10	**Surrogate recovery(ies) below lower control limit (S-).**
	O-Terphenyl (29% @ 40-140%)
0912230-10	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
	1-Chlorooctadecane (29% @ 40-140%)
0912230-10RE1	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).**
	1-Chlorooctadecane (39% @ 40-140%)
BL91813-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	C19-C36 Aliphatics1 (50%)
BL92213-BSD1	**Blank Spike recovery is below lower control limit (B-).**
	C9-C18 Aliphatics1 (% @ 40-140%)
BL92213-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	C9-C18 Aliphatics1 (200%), Hexacosane (C26) (51%), Octacosane (C28) (66%), Triacontane (C30) (69%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.6)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817
Barium	**36.6** (3.6)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817
Cadmium	ND (0.73)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817
Chromium	**16.8** (1.5)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817
Lead	**51.4** (7.3)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817
Mercury	ND (0.038)	7471A		1	JP	12/21/09 19:35	0.6	40	BL91818
Selenium	ND (7.3)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817
Silver	ND (0.73)	6010B		1	SVD	12/18/09 22:51	1.56	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88
Initial Volume: 20.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0980)		1	12/19/09 2:44	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.294)		1	12/19/09 2:44	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
1,4-Dioxane - Screen	ND (4.90)		1	12/19/09 2:44	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0980)		1	12/19/09 2:44	BSL0138	BL91804
2-Butanone	ND (1.23)		1	12/19/09 2:44	BSL0138	BL91804
2-Chlorotoluene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
2-Hexanone	ND (0.490)		1	12/19/09 2:44	BSL0138	BL91804
4-Chlorotoluene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.490)		1	12/19/09 2:44	BSL0138	BL91804
Acetone	ND (1.23)		1	12/19/09 2:44	BSL0138	BL91804
Benzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Bromobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Bromochloromethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Bromodichloromethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88
Initial Volume: 20.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Bromomethane	ND (0.0980)		1	12/19/09 2:44	BSL0138	BL91804
Carbon Disulfide	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Chlorobenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Chloroethane	ND (0.0980)		1	12/19/09 2:44	BSL0138	BL91804
Chloroform	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Chloromethane	ND (0.0980)		1	12/19/09 2:44	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Dibromochloromethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Dibromomethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Diethyl Ether	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Di-isopropyl ether	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Ethylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Isopropylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Methylene Chloride	ND (0.245)		1	12/19/09 2:44	BSL0138	BL91804
Naphthalene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
n-Butylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
n-Propylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
sec-Butylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Styrene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
tert-Butylbenzene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Tetrachloroethene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Tetrahydrofuran	ND (0.490)		1	12/19/09 2:44	BSL0138	BL91804
Toluene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88
Initial Volume: 20.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Vinyl Chloride	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Xylene O	ND (0.0490)		1	12/19/09 2:44	BSL0138	BL91804
Xylene P,M	ND (0.0980)		1	12/19/09 2:44	BSL0138	BL91804
Xylenes (Total)	ND (0.147)		1	12/19/09 2:44		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*102 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*103 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1221	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1232	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1242	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1248	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1254	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1260	0.0666 (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1262	ND (0.0563)		1	12/18/09 18:09		BL91808
Aroclor 1268	ND (0.0563)		1	12/18/09 18:09		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*62 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88
Initial Volume: 24.6
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.6)		1	12/24/09 23:01	BSL0179	BL91813
C19-C36 Aliphatics1	**353** (34.6)		1	12/24/09 23:01	BSL0179	BL91813
C11-C22 Unadjusted Aromatics1	**104** (34.6)		1	12/21/09 8:59	BSL0143	BL91813
C11-C22 Aromatics1,2	**102** (34.6)			12/21/09 8:59		[CALC]
2-Methylnaphthalene	ND (0.46)		1	12/21/09 8:59	BSL0143	BL91813
Acenaphthene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Naphthalene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Phenanthrene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Acenaphthylene	ND (0.46)		1	12/21/09 8:59	BSL0143	BL91813
Anthracene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Benzo(a)anthracene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Benzo(a)pyrene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Benzo(b)fluoranthene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Chrysene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.46)		1	12/21/09 8:59	BSL0143	BL91813
Fluoranthene	**1.10** (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Fluorene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.92)		1	12/21/09 8:59	BSL0143	BL91813
Pyrene	**1.08** (0.92)		1	12/21/09 8:59	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*22 %*	*SC*	*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*85 %*		*40-140*
Surrogate: O-Terphenyl	*41 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 0.5-1.5
Date Sampled: 12/17/09 09:00
Percent Solids: 88
Initial Volume: 24.9
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-01RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 18:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.2)		1	12/24/09 23:51	BSL0179	BL91813
C19-C36 Aliphatics1	**210** (34.2)		1	12/24/09 23:51	BSL0179	BL91813
C11-C22 Unadjusted Aromatics1	**95.9** (34.2)		1	12/23/09 20:37	BSL0164	BL91813
C11-C22 Aromatics1,2	**93.9** (34.2)			12/23/09 20:37		[CALC]
2-Methylnaphthalene	ND (0.46)		1	12/23/09 20:37	BSL0164	BL91813
Acenaphthene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Naphthalene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Phenanthrene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Acenaphthylene	ND (0.46)		1	12/23/09 20:37	BSL0164	BL91813
Anthracene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Benzo(a)anthracene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Benzo(a)pyrene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Benzo(b)fluoranthene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Benzo(g,h,i)perylene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Benzo(k)fluoranthene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Chrysene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Dibenzo(a,h)Anthracene	ND (0.46)		1	12/23/09 20:37	BSL0164	BL91813
Fluoranthene	**1.01** (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Fluorene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.91)		1	12/23/09 20:37	BSL0164	BL91813
Pyrene	**1.02** (0.91)		1	12/23/09 20:37	BSL0164	BL91813

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*10 %*	*SC*	*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*80 %*		*40-140*
Surrogate: O-Terphenyl	*17 %*	*S-*	*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 3-4
Date Sampled: 12/17/09 09:05
Percent Solids: 91

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-02
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.6)	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817
Barium	**42.1 (3.6)**	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817
Cadmium	ND (0.73)	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817
Chromium	**10.2 (1.4)**	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817
Lead	ND (7.2)	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817
Mercury	ND (0.035)	7471A		1	JP	12/21/09 19:42	0.63	40	BL91818
Selenium	ND (7.2)	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817
Silver	ND (0.73)	6010B		1	SVD	12/18/09 22:55	1.52	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 3-4
Date Sampled: 12/17/09 09:05
Percent Solids: 91
Initial Volume: 23.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0812)		1	12/19/09 3:13	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.244)		1	12/19/09 3:13	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
1,4-Dioxane - Screen	ND (4.06)		1	12/19/09 3:13	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0812)		1	12/19/09 3:13	BSL0138	BL91804
2-Butanone	ND (1.02)		1	12/19/09 3:13	BSL0138	BL91804
2-Chlorotoluene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
2-Hexanone	ND (0.406)		1	12/19/09 3:13	BSL0138	BL91804
4-Chlorotoluene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.406)		1	12/19/09 3:13	BSL0138	BL91804
Acetone	ND (1.02)		1	12/19/09 3:13	BSL0138	BL91804
Benzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Bromobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Bromochloromethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Bromodichloromethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 3-4
Date Sampled: 12/17/09 09:05
Percent Solids: 91
Initial Volume: 23.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Bromomethane	ND (0.0812)		1	12/19/09 3:13	BSL0138	BL91804
Carbon Disulfide	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Chlorobenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Chloroethane	ND (0.0812)		1	12/19/09 3:13	BSL0138	BL91804
Chloroform	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Chloromethane	ND (0.0812)		1	12/19/09 3:13	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Dibromochloromethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Dibromomethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Diethyl Ether	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Di-isopropyl ether	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Ethylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Isopropylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Methylene Chloride	ND (0.203)		1	12/19/09 3:13	BSL0138	BL91804
Naphthalene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
n-Butylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
n-Propylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
sec-Butylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Styrene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
tert-Butylbenzene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Tetrachloroethene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Tetrahydrofuran	ND (0.406)		1	12/19/09 3:13	BSL0138	BL91804
Toluene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 3-4
Date Sampled: 12/17/09 09:05
Percent Solids: 91
Initial Volume: 23.1
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Vinyl Chloride	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Xylene O	ND (0.0406)		1	12/19/09 3:13	BSL0138	BL91804
Xylene P,M	ND (0.0812)		1	12/19/09 3:13	BSL0138	BL91804
Xylenes (Total)	ND (0.122)		1	12/19/09 3:13		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*114 %*		*70-130*
Surrogate: Dibromofluoromethane	*106 %*		*70-130*
Surrogate: Toluene-d8	*113 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 3-4
Date Sampled: 12/17/09 09:05
Percent Solids: 91
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1221	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1232	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1242	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1248	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1254	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1260	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1262	ND (0.0531)		1	12/18/09 18:28		BL91808
Aroclor 1268	ND (0.0531)		1	12/18/09 18:28		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-1 3-4
Date Sampled: 12/17/09 09:05
Percent Solids: 91
Initial Volume: 25.5
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.3)		1	12/21/09 13:37	BSL0142	BL91813
C19-C36 Aliphatics1	**60.8** (32.3)		1	12/21/09 13:37	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	ND (32.3)		1	12/21/09 9:46	BSL0143	BL91813
C11-C22 Aromatics1,2	ND (32.3)			12/21/09 9:46		[CALC]
2-Methylnaphthalene	ND (0.43)		1	12/21/09 9:46	BSL0143	BL91813
Acenaphthene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Naphthalene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Phenanthrene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Acenaphthylene	ND (0.43)		1	12/21/09 9:46	BSL0143	BL91813
Anthracene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Benzo(a)anthracene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Benzo(a)pyrene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Benzo(b)fluoranthene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Chrysene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.43)		1	12/21/09 9:46	BSL0143	BL91813
Fluoranthene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Fluorene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813
Pyrene	ND (0.86)		1	12/21/09 9:46	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*70 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*86 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*78 %*		*40-140*
Surrogate: O-Terphenyl	*79 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.5)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817
Barium	**40.1** (3.5)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817
Cadmium	ND (0.70)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817
Chromium	**30.0** (1.4)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817
Lead	**32.6** (6.9)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817
Mercury	ND (0.035)	7471A		1	JP	12/21/09 19:44	0.6	40	BL91818
Selenium	ND (6.9)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817
Silver	ND (0.70)	6010B		1	SVD	12/18/09 23:00	1.55	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0780)		1	12/19/09 3:42	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.234)		1	12/19/09 3:42	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
1,4-Dioxane - Screen	ND (3.90)		1	12/19/09 3:42	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0780)		1	12/19/09 3:42	BSL0138	BL91804
2-Butanone	ND (0.974)		1	12/19/09 3:42	BSL0138	BL91804
2-Chlorotoluene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
2-Hexanone	ND (0.390)		1	12/19/09 3:42	BSL0138	BL91804
4-Chlorotoluene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.390)		1	12/19/09 3:42	BSL0138	BL91804
Acetone	ND (0.974)		1	12/19/09 3:42	BSL0138	BL91804
Benzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Bromobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Bromochloromethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Bromodichloromethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Bromomethane	ND (0.0780)		1	12/19/09 3:42	BSL0138	BL91804
Carbon Disulfide	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Chlorobenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Chloroethane	ND (0.0780)		1	12/19/09 3:42	BSL0138	BL91804
Chloroform	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Chloromethane	ND (0.0780)		1	12/19/09 3:42	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Dibromochloromethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Dibromomethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Diethyl Ether	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Di-isopropyl ether	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Ethylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Isopropylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Methylene Chloride	ND (0.195)		1	12/19/09 3:42	BSL0138	BL91804
Naphthalene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
n-Butylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
n-Propylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
sec-Butylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Styrene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
tert-Butylbenzene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Tetrachloroethene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Tetrahydrofuran	ND (0.390)		1	12/19/09 3:42	BSL0138	BL91804
Toluene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Vinyl Chloride	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Xylene O	ND (0.0390)		1	12/19/09 3:42	BSL0138	BL91804
Xylene P,M	ND (0.0780)		1	12/19/09 3:42	BSL0138	BL91804
Xylenes (Total)	ND (0.117)		1	12/19/09 3:42		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*139 %*	*S+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*143 %*	*SC*	*70-130*
Surrogate: Dibromofluoromethane	*134 %*	*S+*	*70-130*
Surrogate: Toluene-d8	*143 %*	*S+*	*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1221	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1232	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1242	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1248	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1254	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1260	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1262	ND (0.0535)		1	12/18/09 18:47		BL91808
Aroclor 1268	ND (0.0535)		1	12/18/09 18:47		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 24.7
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.6)		1	12/21/09 14:28	BSL0142	BL91813
C19-C36 Aliphatics1	ND (32.6)		1	12/21/09 14:28	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	ND (32.6)		1	12/21/09 10:32	BSL0143	BL91813
C11-C22 Aromatics1,2	ND (32.6)			12/21/09 10:32		[CALC]
2-Methylnaphthalene	ND (0.44)		1	12/21/09 10:32	BSL0143	BL91813
Acenaphthene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Naphthalene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Phenanthrene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Acenaphthylene	ND (0.44)		1	12/21/09 10:32	BSL0143	BL91813
Anthracene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Benzo(a)anthracene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Benzo(a)pyrene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Benzo(b)fluoranthene	**0.93** (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Chrysene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.44)		1	12/21/09 10:32	BSL0143	BL91813
Fluoranthene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Fluorene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813
Pyrene	ND (0.87)		1	12/21/09 10:32	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*65 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*83 %*		*40-140*
Surrogate: O-Terphenyl	*76 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0780)		1	12/23/09 0:18	BSL0149	BL92209
1,1,1-Trichloroethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,1,2,2-Tetrachloroethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,1,2-Trichloroethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,1-Dichloroethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,1-Dichloroethene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,1-Dichloropropene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2,3-Trichlorobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2,3-Trichloropropane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2,4-Trichlorobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2,4-Trimethylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2-Dibromo-3-Chloropropane	ND (0.234)		1	12/23/09 0:18	BSL0149	BL92209
1,2-Dibromoethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2-Dichlorobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2-Dichloroethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,2-Dichloropropane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,3,5-Trimethylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,3-Dichlorobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,3-Dichloropropane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,4-Dichlorobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
1,4-Dioxane - Screen	ND (3.90)		1	12/23/09 0:18	BSL0149	BL92209
2,2-Dichloropropane	ND (0.0780)		1	12/23/09 0:18	BSL0149	BL92209
2-Butanone	ND (0.974)		1	12/23/09 0:18	BSL0149	BL92209
2-Chlorotoluene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
2-Hexanone	ND (0.390)		1	12/23/09 0:18	BSL0149	BL92209
4-Chlorotoluene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
4-Isopropyltoluene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
4-Methyl-2-Pentanone	ND (0.390)		1	12/23/09 0:18	BSL0149	BL92209
Acetone	ND (0.974)		1	12/23/09 0:18	BSL0149	BL92209
Benzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Bromobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Bromochloromethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Bromodichloromethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Bromomethane	ND (0.0780)		1	12/23/09 0:18	BSL0149	BL92209
Carbon Disulfide	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Carbon Tetrachloride	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Chlorobenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Chloroethane	ND (0.0780)		1	12/23/09 0:18	BSL0149	BL92209
Chloroform	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Chloromethane	ND (0.0780)		1	12/23/09 0:18	BSL0149	BL92209
cis-1,2-Dichloroethene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
cis-1,3-Dichloropropene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Dibromochloromethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Dibromomethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Dichlorodifluoromethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Diethyl Ether	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Di-isopropyl ether	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Ethyl tertiary-butyl ether	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Ethylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Hexachlorobutadiene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Isopropylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Methyl tert-Butyl Ether	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Methylene Chloride	ND (0.195)		1	12/23/09 0:18	BSL0149	BL92209
Naphthalene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
n-Butylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
n-Propylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
sec-Butylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Styrene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
tert-Butylbenzene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Tertiary-amyl methyl ether	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Tetrachloroethene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Tetrahydrofuran	ND (0.390)		1	12/23/09 0:18	BSL0149	BL92209
Toluene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
trans-1,2-Dichloroethene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
trans-1,3-Dichloropropene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-2 0.5-1.5
Date Sampled: 12/17/09 09:20
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-03RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Trichlorofluoromethane	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Vinyl Chloride	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Xylene O	ND (0.0390)		1	12/23/09 0:18	BSL0149	BL92209
Xylene P,M	ND (0.0780)		1	12/23/09 0:18	BSL0149	BL92209
Xylenes (Total)	ND (0.117)		1	12/23/09 0:18		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*122 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*131 %*	*SC*	*70-130*
Surrogate: Dibromofluoromethane	*120 %*		*70-130*
Surrogate: Toluene-d8	*126 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-3 4-5
Date Sampled: 12/17/09 10:10
Percent Solids: 94

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-04
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.5)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817
Barium	**46.4** (3.5)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817
Cadmium	ND (0.71)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817
Chromium	**9.4** (1.4)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817
Lead	ND (7.1)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817
Mercury	ND (0.032)	7471A		1	JP	12/21/09 19:46	0.65	40	BL91818
Selenium	ND (7.1)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817
Silver	ND (0.71)	6010B		1	SVD	12/18/09 23:05	1.5	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-3 4-5
Date Sampled: 12/17/09 10:10
Percent Solids: 94
Initial Volume: 26.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0668)		1	12/19/09 4:10	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.200)		1	12/19/09 4:10	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
1,4-Dioxane - Screen	ND (3.34)		1	12/19/09 4:10	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0668)		1	12/19/09 4:10	BSL0138	BL91804
2-Butanone	ND (0.835)		1	12/19/09 4:10	BSL0138	BL91804
2-Chlorotoluene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
2-Hexanone	ND (0.334)		1	12/19/09 4:10	BSL0138	BL91804
4-Chlorotoluene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.334)		1	12/19/09 4:10	BSL0138	BL91804
Acetone	ND (0.835)		1	12/19/09 4:10	BSL0138	BL91804
Benzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Bromobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Bromochloromethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Bromodichloromethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-3 4-5
Date Sampled: 12/17/09 10:10
Percent Solids: 94
Initial Volume: 26.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Bromomethane	ND (0.0668)		1	12/19/09 4:10	BSL0138	BL91804
Carbon Disulfide	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Chlorobenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Chloroethane	ND (0.0668)		1	12/19/09 4:10	BSL0138	BL91804
Chloroform	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Chloromethane	ND (0.0668)		1	12/19/09 4:10	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Dibromochloromethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Dibromomethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Diethyl Ether	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Di-isopropyl ether	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Ethylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Isopropylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Methylene Chloride	ND (0.167)		1	12/19/09 4:10	BSL0138	BL91804
Naphthalene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
n-Butylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
n-Propylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
sec-Butylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Styrene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
tert-Butylbenzene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Tetrachloroethene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Tetrahydrofuran	ND (0.334)		1	12/19/09 4:10	BSL0138	BL91804
Toluene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-3 4-5
Date Sampled: 12/17/09 10:10
Percent Solids: 94
Initial Volume: 26.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Vinyl Chloride	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Xylene O	ND (0.0334)		1	12/19/09 4:10	BSL0138	BL91804
Xylene P,M	ND (0.0668)		1	12/19/09 4:10	BSL0138	BL91804
Xylenes (Total)	ND (0.100)		1	12/19/09 4:10		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*124 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*126 %*		*70-130*
Surrogate: Dibromofluoromethane	*118 %*		*70-130*
Surrogate: Toluene-d8	*125 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-3 4-5
Date Sampled: 12/17/09 10:10
Percent Solids: 94
Initial Volume: 19.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1221	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1232	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1242	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1248	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1254	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1260	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1262	ND (0.0557)		1	12/18/09 19:06		BL91808
Aroclor 1268	ND (0.0557)		1	12/18/09 19:06		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*64 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-3 4-5
Date Sampled: 12/17/09 10:10
Percent Solids: 94
Initial Volume: 24.5
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.6)		1	12/21/09 15:19	BSL0142	BL91813
C19-C36 Aliphatics1	ND (32.6)		1	12/21/09 15:19	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	ND (32.6)		1	12/21/09 11:19	BSL0143	BL91813
C11-C22 Aromatics1,2	ND (32.6)			12/21/09 11:19		[CALC]
2-Methylnaphthalene	ND (0.43)		1	12/21/09 11:19	BSL0143	BL91813
Acenaphthene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Naphthalene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Phenanthrene	**1.44** (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Acenaphthylene	ND (0.43)		1	12/21/09 11:19	BSL0143	BL91813
Anthracene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Benzo(a)anthracene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Benzo(a)pyrene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Benzo(b)fluoranthene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Chrysene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.43)		1	12/21/09 11:19	BSL0143	BL91813
Fluoranthene	**1.39** (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Fluorene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.87)		1	12/21/09 11:19	BSL0143	BL91813
Pyrene	**1.06** (0.87)		1	12/21/09 11:19	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*68 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*87 %*		*40-140*
Surrogate: O-Terphenyl	*83 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-4 4-5
Date Sampled: 12/17/09 11:10
Percent Solids: 94

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-05
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.4)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817
Barium	**22.2** (3.4)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817
Cadmium	ND (0.69)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817
Chromium	**5.5** (1.4)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817
Lead	**8.4** (6.8)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817
Mercury	ND (0.032)	7471A		1	JP	12/21/09 19:49	0.65	40	BL91818
Selenium	ND (6.8)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817
Silver	ND (0.69)	6010B		1	SVD	12/18/09 23:09	1.56	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-4 4-5
Date Sampled: 12/17/09 11:10
Percent Solids: 94
Initial Volume: 29.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0601)		1	12/19/09 4:39	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.180)		1	12/19/09 4:39	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
1,4-Dioxane - Screen	ND (3.01)		1	12/19/09 4:39	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0601)		1	12/19/09 4:39	BSL0138	BL91804
2-Butanone	ND (0.751)		1	12/19/09 4:39	BSL0138	BL91804
2-Chlorotoluene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
2-Hexanone	ND (0.301)		1	12/19/09 4:39	BSL0138	BL91804
4-Chlorotoluene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.301)		1	12/19/09 4:39	BSL0138	BL91804
Acetone	ND (0.751)		1	12/19/09 4:39	BSL0138	BL91804
Benzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Bromobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Bromochloromethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Bromodichloromethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-4 4-5
Date Sampled: 12/17/09 11:10
Percent Solids: 94
Initial Volume: 29.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Bromomethane	ND (0.0601)		1	12/19/09 4:39	BSL0138	BL91804
Carbon Disulfide	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Chlorobenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Chloroethane	ND (0.0601)		1	12/19/09 4:39	BSL0138	BL91804
Chloroform	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Chloromethane	ND (0.0601)		1	12/19/09 4:39	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Dibromochloromethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Dibromomethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Diethyl Ether	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Di-isopropyl ether	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Ethylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Isopropylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Methylene Chloride	ND (0.150)		1	12/19/09 4:39	BSL0138	BL91804
Naphthalene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
n-Butylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
n-Propylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
sec-Butylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Styrene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
tert-Butylbenzene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Tetrachloroethene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Tetrahydrofuran	ND (0.301)		1	12/19/09 4:39	BSL0138	BL91804
Toluene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-4 4-5
Date Sampled: 12/17/09 11:10
Percent Solids: 94
Initial Volume: 29.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Vinyl Chloride	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Xylene O	ND (0.0301)		1	12/19/09 4:39	BSL0138	BL91804
Xylene P,M	ND (0.0601)		1	12/19/09 4:39	BSL0138	BL91804
Xylenes (Total)	ND (0.0902)		1	12/19/09 4:39		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*118 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*122 %*		*70-130*
Surrogate: Dibromofluoromethane	*113 %*		*70-130*
Surrogate: Toluene-d8	*121 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-4 4-5
Date Sampled: 12/17/09 11:10
Percent Solids: 94
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1221	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1232	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1242	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1248	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1254	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1260	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1262	ND (0.0535)		1	12/18/09 19:25		BL91808
Aroclor 1268	ND (0.0535)		1	12/18/09 19:25		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*70 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-4 4-5
Date Sampled: 12/17/09 11:10
Percent Solids: 94
Initial Volume: 25.8
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (30.9)		1	12/21/09 17:51	BSL0142	BL91813
C19-C36 Aliphatics1	ND (30.9)		1	12/21/09 17:51	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	ND (30.9)		1	12/21/09 13:39	BSL0143	BL91813
C11-C22 Aromatics1,2	ND (30.9)			12/21/09 13:39		[CALC]
2-Methylnaphthalene	ND (0.41)		1	12/21/09 13:39	BSL0143	BL91813
Acenaphthene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Naphthalene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Phenanthrene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Acenaphthylene	ND (0.41)		1	12/21/09 13:39	BSL0143	BL91813
Anthracene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Benzo(a)anthracene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Benzo(a)pyrene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Benzo(b)fluoranthene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Chrysene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.41)		1	12/21/09 13:39	BSL0143	BL91813
Fluoranthene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Fluorene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813
Pyrene	ND (0.82)		1	12/21/09 13:39	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*81 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*87 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 1-2
Date Sampled: 12/17/09 11:25
Percent Solids: 88

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-06
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.8)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817
Barium	**30.5** (3.8)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817
Cadmium	ND (0.76)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817
Chromium	**7.6** (1.5)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817
Lead	ND (7.5)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817
Mercury	ND (0.038)	7471A		1	JP	12/21/09 20:03	0.6	40	BL91818
Selenium	ND (7.5)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817
Silver	ND (0.76)	6010B		1	SVD	12/18/09 23:39	1.51	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 1-2
Date Sampled: 12/17/09 11:25
Percent Solids: 88
Initial Volume: 22.5
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0894)		1	12/19/09 5:07	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.268)		1	12/19/09 5:07	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
1,4-Dioxane - Screen	ND (4.47)		1	12/19/09 5:07	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0894)		1	12/19/09 5:07	BSL0138	BL91804
2-Butanone	ND (1.12)		1	12/19/09 5:07	BSL0138	BL91804
2-Chlorotoluene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
2-Hexanone	ND (0.447)		1	12/19/09 5:07	BSL0138	BL91804
4-Chlorotoluene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.447)		1	12/19/09 5:07	BSL0138	BL91804
Acetone	ND (1.12)		1	12/19/09 5:07	BSL0138	BL91804
Benzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Bromobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Bromochloromethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Bromodichloromethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 1-2
Date Sampled: 12/17/09 11:25
Percent Solids: 88
Initial Volume: 22.5
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Bromomethane	ND (0.0894)		1	12/19/09 5:07	BSL0138	BL91804
Carbon Disulfide	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Chlorobenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Chloroethane	ND (0.0894)		1	12/19/09 5:07	BSL0138	BL91804
Chloroform	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Chloromethane	ND (0.0894)		1	12/19/09 5:07	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Dibromochloromethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Dibromomethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Diethyl Ether	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Di-isopropyl ether	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Ethylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Isopropylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Methylene Chloride	ND (0.223)		1	12/19/09 5:07	BSL0138	BL91804
Naphthalene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
n-Butylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
n-Propylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
sec-Butylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Styrene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
tert-Butylbenzene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Tetrachloroethene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Tetrahydrofuran	ND (0.447)		1	12/19/09 5:07	BSL0138	BL91804
Toluene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 1-2
Date Sampled: 12/17/09 11:25
Percent Solids: 88
Initial Volume: 22.5
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Vinyl Chloride	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Xylene O	ND (0.0447)		1	12/19/09 5:07	BSL0138	BL91804
Xylene P,M	ND (0.0894)		1	12/19/09 5:07	BSL0138	BL91804
Xylenes (Total)	ND (0.134)		1	12/19/09 5:07		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*117 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*119 %*		*70-130*
Surrogate: Dibromofluoromethane	*112 %*		*70-130*
Surrogate: Toluene-d8	*119 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 1-2
Date Sampled: 12/17/09 11:25
Percent Solids: 88
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1221	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1232	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1242	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1248	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1254	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1260	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1262	ND (0.0565)		1	12/18/09 19:44		BL91808
Aroclor 1268	ND (0.0565)		1	12/18/09 19:44		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*73 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 1-2
Date Sampled: 12/17/09 11:25
Percent Solids: 88
Initial Volume: 24.9
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (34.2)		1	12/21/09 18:42	BSL0142	BL91813
C19-C36 Aliphatics1	ND (34.2)		1	12/21/09 18:42	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	ND (34.2)		1	12/21/09 14:25	BSL0143	BL91813
C11-C22 Aromatics1,2	ND (34.2)			12/21/09 14:25		[CALC]
2-Methylnaphthalene	ND (0.46)		1	12/21/09 14:25	BSL0143	BL91813
Acenaphthene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Naphthalene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Phenanthrene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Acenaphthylene	ND (0.46)		1	12/21/09 14:25	BSL0143	BL91813
Anthracene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Benzo(a)anthracene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Benzo(a)pyrene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Benzo(b)fluoranthene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Chrysene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.46)		1	12/21/09 14:25	BSL0143	BL91813
Fluoranthene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Fluorene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813
Pyrene	ND (0.91)		1	12/21/09 14:25	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*73 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*85 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 6-7
Date Sampled: 12/17/09 11:30
Percent Solids: 94

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-07
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.5)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817
Barium	20.4 (3.5)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817
Cadmium	ND (0.69)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817
Chromium	4.0 (1.4)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817
Lead	ND (6.9)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817
Mercury	ND (0.034)	7471A		1	JP	12/21/09 20:42	0.62	40	BL91818
Selenium	ND (6.9)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817
Silver	ND (0.69)	6010B		1	SVD	12/18/09 23:44	1.54	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 6-7
Date Sampled: 12/17/09 11:30
Percent Solids: 94
Initial Volume: 28.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0628)		1	12/19/09 5:36	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.188)		1	12/19/09 5:36	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
1,4-Dioxane - Screen	ND (3.14)		1	12/19/09 5:36	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0628)		1	12/19/09 5:36	BSL0138	BL91804
2-Butanone	ND (0.785)		1	12/19/09 5:36	BSL0138	BL91804
2-Chlorotoluene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
2-Hexanone	ND (0.314)		1	12/19/09 5:36	BSL0138	BL91804
4-Chlorotoluene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.314)		1	12/19/09 5:36	BSL0138	BL91804
Acetone	ND (0.785)		1	12/19/09 5:36	BSL0138	BL91804
Benzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Bromobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Bromochloromethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Bromodichloromethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 6-7
Date Sampled: 12/17/09 11:30
Percent Solids: 94
Initial Volume: 28.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Bromomethane	ND (0.0628)		1	12/19/09 5:36	BSL0138	BL91804
Carbon Disulfide	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Chlorobenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Chloroethane	ND (0.0628)		1	12/19/09 5:36	BSL0138	BL91804
Chloroform	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Chloromethane	ND (0.0628)		1	12/19/09 5:36	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Dibromochloromethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Dibromomethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Diethyl Ether	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Di-isopropyl ether	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Ethylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Isopropylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Methylene Chloride	ND (0.157)		1	12/19/09 5:36	BSL0138	BL91804
Naphthalene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
n-Butylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
n-Propylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
sec-Butylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Styrene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
tert-Butylbenzene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Tetrachloroethene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Tetrahydrofuran	ND (0.314)		1	12/19/09 5:36	BSL0138	BL91804
Toluene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 6-7
Date Sampled: 12/17/09 11:30
Percent Solids: 94
Initial Volume: 28.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Vinyl Chloride	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Xylene O	ND (0.0314)		1	12/19/09 5:36	BSL0138	BL91804
Xylene P,M	ND (0.0628)		1	12/19/09 5:36	BSL0138	BL91804
Xylenes (Total)	ND (0.0942)		1	12/19/09 5:36		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*114 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*118 %*		*70-130*
Surrogate: Dibromofluoromethane	*108 %*		*70-130*
Surrogate: Toluene-d8	*117 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 6-7
Date Sampled: 12/17/09 11:30
Percent Solids: 94
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1221	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1232	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1242	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1248	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1254	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1260	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1262	ND (0.0546)		1	12/18/09 20:03		BL91808
Aroclor 1268	ND (0.0546)		1	12/18/09 20:03		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*66 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*59 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-5 6-7
Date Sampled: 12/17/09 11:30
Percent Solids: 94
Initial Volume: 24.7
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.3)		1	12/21/09 19:33	BSL0142	BL91813
C19-C36 Aliphatics1	ND (32.3)		1	12/21/09 19:33	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	ND (32.3)		1	12/21/09 17:49	BSL0143	BL91813
C11-C22 Aromatics1,2	ND (32.3)			12/21/09 17:49		[CALC]
2-Methylnaphthalene	ND (0.43)		1	12/21/09 17:49	BSL0143	BL91813
Acenaphthene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Naphthalene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Phenanthrene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Acenaphthylene	ND (0.43)		1	12/21/09 17:49	BSL0143	BL91813
Anthracene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Benzo(a)anthracene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Benzo(a)pyrene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Benzo(b)fluoranthene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Chrysene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.43)		1	12/21/09 17:49	BSL0143	BL91813
Fluoranthene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Fluorene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813
Pyrene	ND (0.86)		1	12/21/09 17:49	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*79 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*90 %*		*40-140*
Surrogate: O-Terphenyl	*92 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-6 3-4
Date Sampled: 12/17/09 12:00
Percent Solids: 92

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-08
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.5)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817
Barium	**46.6** (3.5)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817
Cadmium	ND (0.70)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817
Chromium	**9.7** (1.4)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817
Lead	ND (7.0)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817
Mercury	ND (0.035)	7471A		1	JP	12/21/09 20:44	0.62	40	BL91818
Selenium	ND (7.0)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817
Silver	ND (0.70)	6010B		1	SVD	12/18/09 23:48	1.56	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-6 3-4
Date Sampled: 12/17/09 12:00
Percent Solids: 92
Initial Volume: 23.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0790)		1	12/19/09 6:05	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.237)		1	12/19/09 6:05	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
1,4-Dioxane - Screen	ND (3.95)		1	12/19/09 6:05	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0790)		1	12/19/09 6:05	BSL0138	BL91804
2-Butanone	ND (0.987)		1	12/19/09 6:05	BSL0138	BL91804
2-Chlorotoluene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
2-Hexanone	ND (0.395)		1	12/19/09 6:05	BSL0138	BL91804
4-Chlorotoluene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.395)		1	12/19/09 6:05	BSL0138	BL91804
Acetone	ND (0.987)		1	12/19/09 6:05	BSL0138	BL91804
Benzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Bromobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Bromochloromethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Bromodichloromethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-6 3-4
Date Sampled: 12/17/09 12:00
Percent Solids: 92
Initial Volume: 23.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Bromomethane	ND (0.0790)		1	12/19/09 6:05	BSL0138	BL91804
Carbon Disulfide	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Chlorobenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Chloroethane	ND (0.0790)		1	12/19/09 6:05	BSL0138	BL91804
Chloroform	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Chloromethane	ND (0.0790)		1	12/19/09 6:05	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Dibromochloromethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Dibromomethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Diethyl Ether	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Di-isopropyl ether	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Ethylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Isopropylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Methylene Chloride	ND (0.197)		1	12/19/09 6:05	BSL0138	BL91804
Naphthalene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
n-Butylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
n-Propylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
sec-Butylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Styrene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
tert-Butylbenzene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Tetrachloroethene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Tetrahydrofuran	ND (0.395)		1	12/19/09 6:05	BSL0138	BL91804
Toluene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-6 3-4
Date Sampled: 12/17/09 12:00
Percent Solids: 92
Initial Volume: 23.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Vinyl Chloride	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Xylene O	ND (0.0395)		1	12/19/09 6:05	BSL0138	BL91804
Xylene P,M	ND (0.0790)		1	12/19/09 6:05	BSL0138	BL91804
Xylenes (Total)	ND (0.118)		1	12/19/09 6:05		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*115 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*119 %*		*70-130*
Surrogate: Dibromofluoromethane	*110 %*		*70-130*
Surrogate: Toluene-d8	*119 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-6 3-4
Date Sampled: 12/17/09 12:00
Percent Solids: 92
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1221	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1232	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1242	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1248	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1254	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1260	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1262	ND (0.0557)		1	12/18/09 20:22		BL91808
Aroclor 1268	ND (0.0557)		1	12/18/09 20:22		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*70 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-6 3-4
Date Sampled: 12/17/09 12:00
Percent Solids: 92
Initial Volume: 24.8
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.9)		1	12/21/09 20:23	BSL0142	BL91813
C19-C36 Aliphatics1	ND (32.9)		1	12/21/09 20:23	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	**59.0** (32.9)		1	12/21/09 18:36	BSL0143	BL91813
C11-C22 Aromatics1,2	**41.2** (32.9)			12/21/09 18:36		[CALC]
2-Methylnaphthalene	ND (0.44)		1	12/21/09 18:36	BSL0143	BL91813
Acenaphthene	ND (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Naphthalene	ND (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Phenanthrene	**4.29** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Acenaphthylene	**0.45** (0.44)		1	12/21/09 18:36	BSL0143	BL91813
Anthracene	**1.10** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Benzo(a)anthracene	**1.55** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Benzo(a)pyrene	**1.24** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Benzo(b)fluoranthene	**1.45** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Benzo(g,h,i)perylene	ND (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Benzo(k)fluoranthene	ND (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Chrysene	**1.24** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Dibenzo(a,h)Anthracene	ND (0.44)		1	12/21/09 18:36	BSL0143	BL91813
Fluoranthene	**3.54** (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Fluorene	ND (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	ND (0.88)		1	12/21/09 18:36	BSL0143	BL91813
Pyrene	**3.00** (0.88)		1	12/21/09 18:36	BSL0143	BL91813

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*66 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*93 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*84 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-7 2-3
Date Sampled: 12/17/09 12:45
Percent Solids: 89

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-09
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.7)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817
Barium	**28.6** (3.7)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817
Cadmium	ND (0.75)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817
Chromium	**7.5** (1.5)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817
Lead	**16.7** (7.5)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817
Mercury	**0.052** (0.036)	7471A		1	JP	12/21/09 20:47	0.61	40	BL91818
Selenium	ND (7.5)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817
Silver	ND (0.75)	6010B		1	SVD	12/18/09 23:52	1.5	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-7 2-3
Date Sampled: 12/17/09 12:45
Percent Solids: 89
Initial Volume: 24.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0809)		1	12/19/09 6:33	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.243)		1	12/19/09 6:33	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
1,4-Dioxane - Screen	ND (4.04)		1	12/19/09 6:33	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0809)		1	12/19/09 6:33	BSL0138	BL91804
2-Butanone	ND (1.01)		1	12/19/09 6:33	BSL0138	BL91804
2-Chlorotoluene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
2-Hexanone	ND (0.404)		1	12/19/09 6:33	BSL0138	BL91804
4-Chlorotoluene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.404)		1	12/19/09 6:33	BSL0138	BL91804
Acetone	ND (1.01)		1	12/19/09 6:33	BSL0138	BL91804
Benzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Bromobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Bromochloromethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Bromodichloromethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-7 2-3
Date Sampled: 12/17/09 12:45
Percent Solids: 89
Initial Volume: 24.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Bromomethane	ND (0.0809)		1	12/19/09 6:33	BSL0138	BL91804
Carbon Disulfide	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Chlorobenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Chloroethane	ND (0.0809)		1	12/19/09 6:33	BSL0138	BL91804
Chloroform	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Chloromethane	ND (0.0809)		1	12/19/09 6:33	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Dibromochloromethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Dibromomethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Diethyl Ether	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Di-isopropyl ether	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Ethylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Isopropylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Methylene Chloride	ND (0.202)		1	12/19/09 6:33	BSL0138	BL91804
Naphthalene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
n-Butylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
n-Propylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
sec-Butylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Styrene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
tert-Butylbenzene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Tetrachloroethene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Tetrahydrofuran	ND (0.404)		1	12/19/09 6:33	BSL0138	BL91804
Toluene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-7 2-3
Date Sampled: 12/17/09 12:45
Percent Solids: 89
Initial Volume: 24.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Vinyl Chloride	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Xylene O	ND (0.0404)		1	12/19/09 6:33	BSL0138	BL91804
Xylene P,M	ND (0.0809)		1	12/19/09 6:33	BSL0138	BL91804
Xylenes (Total)	ND (0.121)		1	12/19/09 6:33		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*120 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*125 %*		*70-130*
Surrogate: Dibromofluoromethane	*116 %*		*70-130*
Surrogate: Toluene-d8	*125 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-7 2-3
Date Sampled: 12/17/09 12:45
Percent Solids: 89
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1221	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1232	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1242	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1248	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1254	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1260	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1262	ND (0.0573)		1	12/18/09 20:41		BL91808
Aroclor 1268	ND (0.0573)		1	12/18/09 20:41		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*65 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-7 2-3
Date Sampled: 12/17/09 12:45
Percent Solids: 89
Initial Volume: 25.9
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.5)		1	12/21/09 21:14	BSL0142	BL91813
C19-C36 Aliphatics1	ND (32.5)		1	12/21/09 21:14	BSL0142	BL91813
C11-C22 Unadjusted Aromatics1	**142** (32.5)		1	12/21/09 19:23	BSL0143	BL91813
C11-C22 Aromatics1,2	77.9 (32.5)			12/22/09 10:39		[CALC]
2-Methylnaphthalene	**1.00** (0.43)		1	12/21/09 19:23	BSL0143	BL91813
Acenaphthene	ND (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Naphthalene	**2.00** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Phenanthrene	**15.0** (1.74)		2	12/22/09 10:39	BSL0143	BL91813
Acenaphthylene	**0.96** (0.43)		1	12/21/09 19:23	BSL0143	BL91813
Anthracene	**3.41** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Benzo(a)anthracene	**4.66** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Benzo(a)pyrene	**3.21** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Benzo(b)fluoranthene	**4.08** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Benzo(g,h,i)perylene	**1.36** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Benzo(k)fluoranthene	**1.31** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Chrysene	**3.81** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Dibenzo(a,h)Anthracene	**0.49** (0.43)		1	12/21/09 19:23	BSL0143	BL91813
Fluoranthene	**11.6** (1.74)		2	12/22/09 10:39	BSL0143	BL91813
Fluorene	**1.28** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	**1.67** (0.87)		1	12/21/09 19:23	BSL0143	BL91813
Pyrene	**7.98** (0.87)		1	12/21/09 19:23	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*61 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*95 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*82 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (3.5)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817
Barium	**31.4** (3.5)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817
Cadmium	ND (0.70)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817
Chromium	**7.2** (1.4)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817
Lead	**23.1** (7.0)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817
Mercury	**0.048** (0.033)	7471A		1	JP	12/21/09 20:49	0.63	40	BL91818
Selenium	ND (7.0)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817
Silver	ND (0.70)	6010B		1	SVD	12/18/09 23:57	1.51	100	BL91817

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95
Initial Volume: 25.8
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0665)		1	12/19/09 7:02	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.199)		1	12/19/09 7:02	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
1,4-Dioxane - Screen	ND (3.32)		1	12/19/09 7:02	BSL0138	BL91804
2,2-Dichloropropane	ND (0.0665)		1	12/19/09 7:02	BSL0138	BL91804
2-Butanone	ND (0.831)		1	12/19/09 7:02	BSL0138	BL91804
2-Chlorotoluene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
2-Hexanone	ND (0.332)		1	12/19/09 7:02	BSL0138	BL91804
4-Chlorotoluene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.332)		1	12/19/09 7:02	BSL0138	BL91804
Acetone	ND (0.831)		1	12/19/09 7:02	BSL0138	BL91804
Benzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Bromobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Bromochloromethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Bromodichloromethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95
Initial Volume: 25.8
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Bromomethane	ND (0.0665)		1	12/19/09 7:02	BSL0138	BL91804
Carbon Disulfide	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Chlorobenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Chloroethane	ND (0.0665)		1	12/19/09 7:02	BSL0138	BL91804
Chloroform	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Chloromethane	ND (0.0665)		1	12/19/09 7:02	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Dibromochloromethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Dibromomethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Diethyl Ether	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Di-isopropyl ether	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Ethylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Isopropylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Methylene Chloride	ND (0.166)		1	12/19/09 7:02	BSL0138	BL91804
Naphthalene	**0.149** (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
n-Butylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
n-Propylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
sec-Butylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Styrene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
tert-Butylbenzene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Tetrachloroethene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Tetrahydrofuran	ND (0.332)		1	12/19/09 7:02	BSL0138	BL91804
Toluene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95
Initial Volume: 25.8
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Vinyl Chloride	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Xylene O	ND (0.0332)		1	12/19/09 7:02	BSL0138	BL91804
Xylene P,M	ND (0.0665)		1	12/19/09 7:02	BSL0138	BL91804
Xylenes (Total)	ND (0.0997)		1	12/19/09 7:02		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*136 %*	*S+*	*70-130*
Surrogate: 4-Bromofluorobenzene	*142 %*	*SC*	*70-130*
Surrogate: Dibromofluoromethane	*131 %*	*S+*	*70-130*
Surrogate: Toluene-d8	*142 %*	*SC*	*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 12/18/09 11:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1221	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1232	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1242	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1248	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1254	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1260	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1262	ND (0.0529)		1	12/18/09 21:00		BL91808
Aroclor 1268	ND (0.0529)		1	12/18/09 21:00		BL91808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*58 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*48 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*55 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/18/09 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.1)		1	12/25/09 0:42	BSL0179	BL91813
C19-C36 Aliphatics1	ND (31.1)		1	12/25/09 0:42	BSL0179	BL91813
C11-C22 Unadjusted Aromatics1	**389** (155)		5	12/22/09 11:26	BSL0143	BL91813
C11-C22 Aromatics1,2	**255** (155)			12/22/09 11:26		[CALC]
2-Methylnaphthalene	ND (0.41)		1	12/21/09 20:10	BSL0143	BL91813
Acenaphthene	ND (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Naphthalene	ND (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Phenanthrene	**15.3** (4.14)		5	12/22/09 11:26	BSL0143	BL91813
Acenaphthylene	**1.16** (0.41)		1	12/21/09 20:10	BSL0143	BL91813
Anthracene	**4.04** (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Benzo(a)anthracene	**13.6** (4.14)		5	12/22/09 11:26	BSL0143	BL91813
Benzo(a)pyrene	**11.4** (4.14)		5	12/22/09 11:26	BSL0143	BL91813
Benzo(b)fluoranthene	**13.4** (4.14)		5	12/22/09 11:26	BSL0143	BL91813
Benzo(g,h,i)perylene	**4.40** (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Benzo(k)fluoranthene	**2.22** (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Chrysene	**8.19** (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Dibenzo(a,h)Anthracene	**1.18** (0.41)		1	12/21/09 20:10	BSL0143	BL91813
Fluoranthene	**28.3** (4.14)		5	12/22/09 11:26	BSL0143	BL91813
Fluorene	ND (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Indeno(1,2,3-cd)Pyrene	**5.25** (0.83)		1	12/21/09 20:10	BSL0143	BL91813
Pyrene	**25.2** (4.14)		5	12/22/09 11:26	BSL0143	BL91813

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*29 %*	*SC*	*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*82 %*		*40-140*
Surrogate: O-Terphenyl	*29 %*	*S-*	*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: TP-8 0.5-1.5
Date Sampled: 12/17/09 13:15
Percent Solids: 95
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-10RE1
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 12/22/09 11:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.1)		1	12/25/09 6:33	BSL0179	BL92213
C19-C36 Aliphatics1	ND (31.1)		1	12/25/09 6:33	BSL0179	BL92213
C11-C22 Unadjusted Aromatics1	**668 (311)**		10	12/24/09 12:49	BSL0164	BL92213
C11-C22 Aromatics1,2	**420 (311)**			12/24/09 12:49		[CALC]
2-Methylnaphthalene	**0.47 (0.41)**		1	12/23/09 16:44	BSL0164	BL92213
Acenaphthene	**0.97 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Naphthalene	**1.29 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Phenanthrene	**28.3 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213
Acenaphthylene	**1.51 (0.41)**		1	12/23/09 16:44	BSL0164	BL92213
Anthracene	**5.80 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Benzo(a)anthracene	**25.7 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213
Benzo(a)pyrene	**20.7 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213
Benzo(b)fluoranthene	**24.2 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213
Benzo(g,h,i)perylene	**4.63 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Benzo(k)fluoranthene	**2.90 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Chrysene	**21.1 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213
Dibenzo(a,h)Anthracene	**1.48 (0.41)**		1	12/23/09 16:44	BSL0164	BL92213
Fluoranthene	**53.3 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213
Fluorene	**1.31 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Indeno(1,2,3-cd)Pyrene	**6.74 (0.83)**		1	12/23/09 16:44	BSL0164	BL92213
Pyrene	**47.8 (8.29)**		10	12/24/09 12:49	BSL0164	BL92213

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*39 %*	*SC*	*40-140*
Surrogate: 2-Bromonaphthalene	*83 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*78 %*		*40-140*
Surrogate: O-Terphenyl	*47 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 12/17/09 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-11
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.100)		1	12/19/09 2:15	BSL0138	BL91804
1,1,1-Trichloroethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,1,2,2-Tetrachloroethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,1,2-Trichloroethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,1-Dichloroethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,1-Dichloroethene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,1-Dichloropropene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2,3-Trichlorobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2,3-Trichloropropane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2,4-Trichlorobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2,4-Trimethylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2-Dibromo-3-Chloropropane	ND (0.300)		1	12/19/09 2:15	BSL0138	BL91804
1,2-Dibromoethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2-Dichlorobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2-Dichloroethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,2-Dichloropropane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,3,5-Trimethylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,3-Dichlorobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,3-Dichloropropane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,4-Dichlorobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
1,4-Dioxane - Screen	ND (5.00)		1	12/19/09 2:15	BSL0138	BL91804
2,2-Dichloropropane	ND (0.100)		1	12/19/09 2:15	BSL0138	BL91804
2-Butanone	ND (1.25)		1	12/19/09 2:15	BSL0138	BL91804
2-Chlorotoluene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
2-Hexanone	ND (0.500)		1	12/19/09 2:15	BSL0138	BL91804
4-Chlorotoluene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
4-Isopropyltoluene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
4-Methyl-2-Pentanone	ND (0.500)		1	12/19/09 2:15	BSL0138	BL91804
Acetone	ND (1.25)		1	12/19/09 2:15	BSL0138	BL91804
Benzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Bromobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Bromochloromethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Bromodichloromethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 12/17/09 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-11
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromoform	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Bromomethane	ND (0.100)		1	12/19/09 2:15	BSL0138	BL91804
Carbon Disulfide	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Carbon Tetrachloride	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Chlorobenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Chloroethane	ND (0.100)		1	12/19/09 2:15	BSL0138	BL91804
Chloroform	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Chloromethane	ND (0.100)		1	12/19/09 2:15	BSL0138	BL91804
cis-1,2-Dichloroethene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
cis-1,3-Dichloropropene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Dibromochloromethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Dibromomethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Dichlorodifluoromethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Diethyl Ether	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Di-isopropyl ether	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Ethyl tertiary-butyl ether	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Ethylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Hexachlorobutadiene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Isopropylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Methyl tert-Butyl Ether	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Methylene Chloride	ND (0.250)		1	12/19/09 2:15	BSL0138	BL91804
Naphthalene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
n-Butylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
n-Propylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
sec-Butylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Styrene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
tert-Butylbenzene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Tertiary-amyl methyl ether	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Tetrachloroethene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Tetrahydrofuran	ND (0.500)		1	12/19/09 2:15	BSL0138	BL91804
Toluene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
trans-1,2-Dichloroethene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
trans-1,3-Dichloropropene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 12/17/09 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0912230
ESS Laboratory Sample ID: 0912230-11
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Trichloroethene	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Trichlorofluoromethane	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Vinyl Chloride	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Xylene O	ND (0.0500)		1	12/19/09 2:15	BSL0138	BL91804
Xylene P,M	ND (0.100)		1	12/19/09 2:15	BSL0138	BL91804
Xylenes (Total)	ND (0.300)		0	12/19/09 2:15	BSL0138	BL91804

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*106 %*		*70-130*
Surrogate: Dibromofluoromethane	*105 %*		*70-130*
Surrogate: Toluene-d8	*106 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

3050B/6000/7000 Total Metals

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL91817 - 3050B										
Blank										
Arsenic	ND	3.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
LCS										
Arsenic	31.9	3.3	mg/kg wet	33.33		96	80-120			
Barium	32.3	3.3	mg/kg wet	33.33		97	80-120			
Cadmium	15.5	0.67	mg/kg wet	16.67		93	80-120			
Chromium	32.8	1.3	mg/kg wet	33.33		98	80-120			
Lead	33.0	6.7	mg/kg wet	33.33		99	80-120			
Selenium	61.1	6.7	mg/kg wet	66.67		92	80-120			
Silver	16.1	0.67	mg/kg wet	16.67		96	80-120			
LCS Dup										
Arsenic	32.0	3.3	mg/kg wet	33.33		96	80-120	0.3	20	
Barium	32.6	3.3	mg/kg wet	33.33		98	80-120	1	20	
Cadmium	15.7	0.67	mg/kg wet	16.67		94	80-120	2	20	
Chromium	33.2	1.3	mg/kg wet	33.33		100	80-120	1	20	
Lead	33.4	6.7	mg/kg wet	33.33		100	80-120	1	20	
Selenium	61.0	6.7	mg/kg wet	66.67		92	80-120	0.2	20	
Silver	16.3	0.67	mg/kg wet	16.67		98	80-120	1	20	
Duplicate Source: 0912230-05										
Arsenic	ND	3.5	mg/kg dry		ND				35	
Barium	19.7	3.5	mg/kg dry		22.2			12	35	
Cadmium	ND	0.69	mg/kg dry		ND				35	
Chromium	5.90	1.4	mg/kg dry		5.54			6	35	
Lead	9.64	6.9	mg/kg dry		8.36			14	35	
Selenium	ND	6.9	mg/kg dry		ND				35	
Silver	ND	0.69	mg/kg dry		ND				35	
Duplicate Source: 0912230-10										
Arsenic	ND	3.5	mg/kg dry		ND				35	
Barium	27.2	3.5	mg/kg dry		31.4			14	35	
Cadmium	ND	0.70	mg/kg dry		ND				35	
Chromium	5.72	1.4	mg/kg dry		7.17			22	35	
Lead	16.4	7.0	mg/kg dry		23.1			34	35	
Selenium	ND	7.0	mg/kg dry		ND				35	
Silver	ND	0.70	mg/kg dry		ND				35	
Matrix Spike Source: 0912230-05										
Arsenic	32.9	3.5	mg/kg dry	35.46	ND	93	75-125			
Barium	54.1	3.5	mg/kg dry	35.46	22.2	90	75-125			
Cadmium	14.9	0.71	mg/kg dry	17.73	ND	84	75-125			
Chromium	38.1	1.4	mg/kg dry	35.46	5.54	92	75-125			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BL91817 - 3050B										
Lead	71.3	7.1	mg/kg dry	35.46	8.36	178	75-125			M+
Selenium	59.4	7.1	mg/kg dry	70.92	ND	84	75-125			
Silver	16.4	0.71	mg/kg dry	17.73	ND	92	75-125			
Matrix Spike Source: 0912230-10										
Arsenic	30.3	3.5	mg/kg dry	35.09	ND	86	75-125			
Barium	67.2	3.5	mg/kg dry	35.09	31.4	102	75-125			
Cadmium	14.1	0.71	mg/kg dry	17.54	ND	80	75-125			
Chromium	38.8	1.4	mg/kg dry	35.09	7.17	90	75-125			
Lead	55.7	7.0	mg/kg dry	35.09	23.1	93	75-125			
Selenium	57.5	7.0	mg/kg dry	70.18	ND	82	75-125			
Silver	15.5	0.71	mg/kg dry	17.54	ND	88	75-125			
Reference										
Arsenic	257	4.9	mg/kg wet	280.0		92	81-119			
Barium	484	4.9	mg/kg wet	520.0		93	83-117			
Cadmium	163	1.00	mg/kg wet	182.0		89	82-118			
Chromium	127	2.0	mg/kg wet	142.0		90	81-120			
Lead	68.3	9.9	mg/kg wet	72.20		95	82-118			
Selenium	148	9.9	mg/kg wet	165.0		89	78-123			
Silver	121	1.00	mg/kg wet	126.0		96	66-134			
Batch BL91818 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.201	0.033	mg/kg wet	0.2000		100	80-120			
LCS Dup										
Mercury	0.197	0.033	mg/kg wet	0.2000		98	80-120	2	20	
Duplicate Source: 0912230-05										
Mercury	ND	0.035	mg/kg dry		0.0279			200	35	
Duplicate Source: 0912230-10										
Mercury	0.0478	0.034	mg/kg dry		0.0483			1	35	
Matrix Spike Source: 0912230-05										
Mercury	0.218	0.035	mg/kg dry	0.2093	0.0279	91	75-125			
Matrix Spike Source: 0912230-10										
Mercury	0.274	0.034	mg/kg dry	0.2071	0.0483	109	75-125			
Matrix Spike Dup Source: 0912230-05										
Mercury	0.220	0.034	mg/kg dry	0.2059	0.0279	93	75-125	3	35	
Matrix Spike Dup Source: 0912230-10										
Mercury	0.264	0.035	mg/kg dry	0.2105	0.0483	102	75-125	6	35	
Reference										
Mercury	11.5	0.660	mg/kg wet	8.480		135	66-132			R+
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	1.25	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.500	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.500	mg/kg wet							
Acetone	ND	1.25	mg/kg wet							
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	ND	0.0500	mg/kg wet							
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.250	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.500	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.11*		mg/kg wet	*2.500*		*84*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.15*		mg/kg wet	*2.500*		*86*	*70-130*			
Surrogate: Dibromofluoromethane	*2.06*		mg/kg wet	*2.500*		*83*	*70-130*			
Surrogate: Toluene-d8	*2.10*		mg/kg wet	*2.500*		*84*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.37	0.100	mg/kg wet	2.500		95	70-130			
1,1,1-Trichloroethane	2.54	0.0500	mg/kg wet	2.500		102	70-130			
1,1,2,2-Tetrachloroethane	2.37	0.0500	mg/kg wet	2.500		95	70-130			
1,1,2-Trichloroethane	2.34	0.0500	mg/kg wet	2.500		93	70-130			
1,1-Dichloroethane	2.57	0.0500	mg/kg wet	2.500		103	70-130			
1,1-Dichloroethene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,1-Dichloropropene	2.68	0.0500	mg/kg wet	2.500		107	70-130			
1,2,3-Trichlorobenzene	2.22	0.0500	mg/kg wet	2.500		89	70-130			
1,2,3-Trichloropropane	2.58	0.0500	mg/kg wet	2.500		103	70-130			
1,2,4-Trichlorobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,2,4-Trimethylbenzene	2.68	0.0500	mg/kg wet	2.500		107	70-130			
1,2-Dibromo-3-Chloropropane	2.52	0.300	mg/kg wet	2.500		101	70-130			
1,2-Dibromoethane	2.26	0.0500	mg/kg wet	2.500		91	70-130			
1,2-Dichlorobenzene	2.37	0.0500	mg/kg wet	2.500		95	70-130			
1,2-Dichloroethane	2.60	0.0500	mg/kg wet	2.500		104	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
1,2-Dichloropropane	2.63	0.0500	mg/kg wet	2.500		105	70-130			
1,3,5-Trimethylbenzene	2.68	0.0500	mg/kg wet	2.500		107	70-130			
1,3-Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,3-Dichloropropane	2.53	0.0500	mg/kg wet	2.500		101	70-130			
1,4-Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,4-Dioxane - Screen	59.8	5.00	mg/kg wet	50.00		120	44-241			
2,2-Dichloropropane	2.58	0.100	mg/kg wet	2.500		103	70-130			
2-Butanone	11.6	1.25	mg/kg wet	12.50		93	70-130			
2-Chlorotoluene	2.88	0.0500	mg/kg wet	2.500		115	70-130			
2-Hexanone	12.6	0.500	mg/kg wet	12.50		101	70-130			
4-Chlorotoluene	2.72	0.0500	mg/kg wet	2.500		109	70-130			
4-Isopropyltoluene	2.56	0.0500	mg/kg wet	2.500		102	70-130			
4-Methyl-2-Pentanone	12.4	0.500	mg/kg wet	12.50		99	70-130			
Acetone	11.8	1.25	mg/kg wet	12.50		95	70-130			
Benzene	2.52	0.0500	mg/kg wet	2.500		101	70-130			
Bromobenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
Bromochloromethane	2.04	0.0500	mg/kg wet	2.500		82	70-130			
Bromodichloromethane	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Bromoform	2.15	0.0500	mg/kg wet	2.500		86	70-130			
Bromomethane	2.82	0.100	mg/kg wet	2.500		113	70-130			
Carbon Disulfide	2.65	0.0500	mg/kg wet	2.500		106	70-130			
Carbon Tetrachloride	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Chlorobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Chloroethane	3.14	0.100	mg/kg wet	2.500		126	70-130			
Chloroform	2.48	0.0500	mg/kg wet	2.500		99	70-130			
Chloromethane	2.77	0.100	mg/kg wet	2.500		111	70-130			
cis-1,2-Dichloroethene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
cis-1,3-Dichloropropene	2.67	0.0500	mg/kg wet	2.500		107	70-130			
Dibromochloromethane	2.31	0.0500	mg/kg wet	2.500		93	70-130			
Dibromomethane	2.24	0.0500	mg/kg wet	2.500		90	70-130			
Dichlorodifluoromethane	2.59	0.0500	mg/kg wet	2.500		104	70-130			
Diethyl Ether	2.36	0.0500	mg/kg wet	2.500		94	70-130			
Di-isopropyl ether	2.86	0.0500	mg/kg wet	2.500		114	70-130			
Ethyl tertiary-butyl ether	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Ethylbenzene	2.69	0.0500	mg/kg wet	2.500		108	70-130			
Hexachlorobutadiene	2.82	0.0500	mg/kg wet	2.500		113	70-130			
Isopropylbenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130			
Methyl tert-Butyl Ether	2.33	0.0500	mg/kg wet	2.500		93	70-130			
Methylene Chloride	2.38	0.250	mg/kg wet	2.500		95	70-130			
Naphthalene	2.16	0.0500	mg/kg wet	2.500		87	70-130			
n-Butylbenzene	2.94	0.0500	mg/kg wet	2.500		118	70-130			
n-Propylbenzene	2.75	0.0500	mg/kg wet	2.500		110	70-130			
sec-Butylbenzene	2.70	0.0500	mg/kg wet	2.500		108	70-130			
Styrene	2.51	0.0500	mg/kg wet	2.500		100	70-130			
tert-Butylbenzene	2.62	0.0500	mg/kg wet	2.500		105	70-130			
Tertiary-amyl methyl ether	2.42	0.0500	mg/kg wet	2.500		97	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
Tetrachloroethene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
Tetrahydrofuran	2.48	0.500	mg/kg wet	2.500		99	70-130			
Toluene	2.56	0.0500	mg/kg wet	2.500		103	70-130			
trans-1,2-Dichloroethene	2.65	0.0500	mg/kg wet	2.500		106	70-130			
trans-1,3-Dichloropropene	2.34	0.0500	mg/kg wet	2.500		94	70-130			
Trichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130			
Trichlorofluoromethane	2.17	0.0500	mg/kg wet	2.500		87	70-130			
Vinyl Chloride	2.51	0.0500	mg/kg wet	2.500		101	70-130			
Xylene O	2.52	0.0500	mg/kg wet	2.500		101	70-130			
Xylene P,M	5.05	0.100	mg/kg wet	5.000		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2.26*		mg/kg wet	*2.500*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.26*		mg/kg wet	*2.500*		*90*	*70-130*			
Surrogate: Dibromofluoromethane	*2.06*		mg/kg wet	*2.500*		*82*	*70-130*			
Surrogate: Toluene-d8	*2.21*		mg/kg wet	*2.500*		*88*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.37	0.100	mg/kg wet	2.500		95	70-130	0.1	25	
1,1,1-Trichloroethane	2.50	0.0500	mg/kg wet	2.500		100	70-130	1	25	
1,1,2,2-Tetrachloroethane	2.41	0.0500	mg/kg wet	2.500		96	70-130	2	25	
1,1,2-Trichloroethane	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
1,1-Dichloroethane	2.55	0.0500	mg/kg wet	2.500		102	70-130	1	25	
1,1-Dichloroethene	2.43	0.0500	mg/kg wet	2.500		97	70-130	0.8	25	
1,1-Dichloropropene	2.67	0.0500	mg/kg wet	2.500		107	70-130	0.4	25	
1,2,3-Trichlorobenzene	2.25	0.0500	mg/kg wet	2.500		90	70-130	1	25	
1,2,3-Trichloropropane	2.62	0.0500	mg/kg wet	2.500		105	70-130	2	25	
1,2,4-Trichlorobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130	0.08	25	
1,2,4-Trimethylbenzene	2.63	0.0500	mg/kg wet	2.500		105	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.62	0.300	mg/kg wet	2.500		105	70-130	4	25	
1,2-Dibromoethane	2.27	0.0500	mg/kg wet	2.500		91	70-130	0.4	25	
1,2-Dichlorobenzene	2.36	0.0500	mg/kg wet	2.500		95	70-130	0.2	25	
1,2-Dichloroethane	2.63	0.0500	mg/kg wet	2.500		105	70-130	1	25	
1,2-Dichloropropane	2.63	0.0500	mg/kg wet	2.500		105	70-130	0.1	25	
1,3,5-Trimethylbenzene	2.64	0.0500	mg/kg wet	2.500		105	70-130	2	25	
1,3-Dichlorobenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.6	25	
1,3-Dichloropropane	2.54	0.0500	mg/kg wet	2.500		102	70-130	0.6	25	
1,4-Dichlorobenzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	1	25	
1,4-Dioxane - Screen	61.1	5.00	mg/kg wet	50.00		122	44-241	2	200	
2,2-Dichloropropane	2.54	0.100	mg/kg wet	2.500		101	70-130	2	25	
2-Butanone	12.5	1.25	mg/kg wet	12.50		100	70-130	7	25	
2-Chlorotoluene	2.78	0.0500	mg/kg wet	2.500		111	70-130	3	25	
2-Hexanone	13.5	0.500	mg/kg wet	12.50		108	70-130	7	25	
4-Chlorotoluene	2.67	0.0500	mg/kg wet	2.500		107	70-130	2	25	
4-Isopropyltoluene	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
4-Methyl-2-Pentanone	12.7	0.500	mg/kg wet	12.50		102	70-130	3	25	
Acetone	13.0	1.25	mg/kg wet	12.50		104	70-130	9	25	
Benzene	2.49	0.0500	mg/kg wet	2.500		100	70-130	1	25	
Bromobenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.8	25	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
Bromochloromethane	2.04	0.0500	mg/kg wet	2.500		82	70-130	0.1	25	
Bromodichloromethane	2.66	0.0500	mg/kg wet	2.500		106	70-130	0.5	25	
Bromoform	2.18	0.0500	mg/kg wet	2.500		87	70-130	2	25	
Bromomethane	2.78	0.100	mg/kg wet	2.500		111	70-130	1	25	
Carbon Disulfide	2.61	0.0500	mg/kg wet	2.500		104	70-130	1	25	
Carbon Tetrachloride	2.66	0.0500	mg/kg wet	2.500		107	70-130	0.4	25	
Chlorobenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130	1	25	
Chloroethane	2.89	0.100	mg/kg wet	2.500		116	70-130	8	25	
Chloroform	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.6	25	
Chloromethane	2.70	0.100	mg/kg wet	2.500		108	70-130	2	25	
cis-1,2-Dichloroethene	2.42	0.0500	mg/kg wet	2.500		97	70-130	1	25	
cis-1,3-Dichloropropene	2.65	0.0500	mg/kg wet	2.500		106	70-130	0.7	25	
Dibromochloromethane	2.34	0.0500	mg/kg wet	2.500		94	70-130	1	25	
Dibromomethane	2.26	0.0500	mg/kg wet	2.500		91	70-130	0.9	25	
Dichlorodifluoromethane	2.54	0.0500	mg/kg wet	2.500		101	70-130	2	25	
Diethyl Ether	2.38	0.0500	mg/kg wet	2.500		95	70-130	1	25	
Di-isopropyl ether	2.85	0.0500	mg/kg wet	2.500		114	70-130	0.3	25	
Ethyl tertiary-butyl ether	2.49	0.0500	mg/kg wet	2.500		99	70-130	1	25	
Ethylbenzene	2.65	0.0500	mg/kg wet	2.500		106	70-130	2	25	
Hexachlorobutadiene	2.76	0.0500	mg/kg wet	2.500		110	70-130	2	25	
Isopropylbenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130	2	25	
Methyl tert-Butyl Ether	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
Methylene Chloride	2.37	0.250	mg/kg wet	2.500		95	70-130	0.8	25	
Naphthalene	2.20	0.0500	mg/kg wet	2.500		88	70-130	2	25	
n-Butylbenzene	2.87	0.0500	mg/kg wet	2.500		115	70-130	2	25	
n-Propylbenzene	2.72	0.0500	mg/kg wet	2.500		109	70-130	1	25	
sec-Butylbenzene	2.64	0.0500	mg/kg wet	2.500		106	70-130	2	25	
Styrene	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.3	25	
tert-Butylbenzene	2.58	0.0500	mg/kg wet	2.500		103	70-130	1	25	
Tertiary-amyl methyl ether	2.46	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Tetrachloroethene	2.17	0.0500	mg/kg wet	2.500		87	70-130	1	25	
Tetrahydrofuran	2.40	0.500	mg/kg wet	2.500		96	70-130	3	25	
Toluene	2.53	0.0500	mg/kg wet	2.500		101	70-130	1	25	
trans-1,2-Dichloroethene	2.61	0.0500	mg/kg wet	2.500		104	70-130	2	25	
trans-1,3-Dichloropropene	2.35	0.0500	mg/kg wet	2.500		94	70-130	0.3	25	
Trichloroethene	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.8	25	
Trichlorofluoromethane	2.12	0.0500	mg/kg wet	2.500		85	70-130	2	25	
Vinyl Chloride	2.46	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Xylene O	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.6	25	
Xylene P,M	4.98	0.100	mg/kg wet	5.000		100	70-130	1	25	
Surrogate: 1,2-Dichloroethane-d4	*2.26*		mg/kg wet	*2.500*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.24*		mg/kg wet	*2.500*		*90*	*70-130*			
Surrogate: Dibromofluoromethane	*2.05*		mg/kg wet	*2.500*		*82*	*70-130*			
Surrogate: Toluene-d8	*2.18*		mg/kg wet	*2.500*		*87*	*70-130*			
Matrix Spike **Source: 0912230-10**										
1,1,1,2-Tetrachloroethane	1.50	0.0612	mg/kg dry	1.530	ND	98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
1,1,1-Trichloroethane	1.54	0.0306	mg/kg dry	1.530	ND	100	70-130			
1,1,2,2-Tetrachloroethane	1.57	0.0306	mg/kg dry	1.530	ND	103	70-130			
1,1,2-Trichloroethane	1.48	0.0306	mg/kg dry	1.530	ND	97	70-130			
1,1-Dichloroethane	1.55	0.0306	mg/kg dry	1.530	ND	101	70-130			
1,1-Dichloroethene	1.51	0.0306	mg/kg dry	1.530	ND	98	70-130			
1,1-Dichloropropene	1.64	0.0306	mg/kg dry	1.530	ND	107	70-130			
1,2,3-Trichlorobenzene	1.37	0.0306	mg/kg dry	1.530	ND	89	70-130			
1,2,3-Trichloropropane	1.69	0.0306	mg/kg dry	1.530	ND	111	70-130			
1,2,4-Trichlorobenzene	1.48	0.0306	mg/kg dry	1.530	ND	97	70-130			
1,2,4-Trimethylbenzene	1.67	0.0306	mg/kg dry	1.530	ND	109	70-130			
1,2-Dibromo-3-Chloropropane	1.56	0.184	mg/kg dry	1.530	ND	102	70-130			
1,2-Dibromoethane	1.49	0.0306	mg/kg dry	1.530	ND	97	70-130			
1,2-Dichlorobenzene	1.50	0.0306	mg/kg dry	1.530	ND	98	70-130			
1,2-Dichloroethane	1.61	0.0306	mg/kg dry	1.530	ND	105	70-130			
1,2-Dichloropropane	1.60	0.0306	mg/kg dry	1.530	ND	105	70-130			
1,3,5-Trimethylbenzene	1.68	0.0306	mg/kg dry	1.530	ND	110	70-130			
1,3-Dichlorobenzene	1.52	0.0306	mg/kg dry	1.530	ND	99	70-130			
1,3-Dichloropropane	1.63	0.0306	mg/kg dry	1.530	ND	107	70-130			
1,4-Dichlorobenzene	1.51	0.0306	mg/kg dry	1.530	ND	99	70-130			
1,4-Dioxane - Screen	10.3	3.06	mg/kg dry	30.60	ND	34	44-241			M-
2,2-Dichloropropane	1.45	0.0612	mg/kg dry	1.530	ND	95	70-130			
2-Butanone	7.08	0.765	mg/kg dry	7.650	ND	93	70-130			
2-Chlorotoluene	1.79	0.0306	mg/kg dry	1.530	ND	117	70-130			
2-Hexanone	8.44	0.306	mg/kg dry	7.650	ND	110	70-130			
4-Chlorotoluene	1.69	0.0306	mg/kg dry	1.530	ND	111	70-130			
4-Isopropyltoluene	1.62	0.0306	mg/kg dry	1.530	ND	106	70-130			
4-Methyl-2-Pentanone	8.24	0.306	mg/kg dry	7.650	ND	108	70-130			
Acetone	6.89	0.765	mg/kg dry	7.650	ND	90	70-130			
Benzene	1.54	0.0306	mg/kg dry	1.530	0.0100	100	70-130			
Bromobenzene	1.53	0.0306	mg/kg dry	1.530	ND	100	70-130			
Bromochloromethane	1.30	0.0306	mg/kg dry	1.530	ND	85	70-130			
Bromodichloromethane	1.61	0.0306	mg/kg dry	1.530	ND	105	70-130			
Bromoform	1.41	0.0306	mg/kg dry	1.530	ND	92	70-130			
Bromomethane	1.54	0.0612	mg/kg dry	1.530	ND	101	70-130			
Carbon Disulfide	1.64	0.0306	mg/kg dry	1.530	ND	107	70-130			
Carbon Tetrachloride	1.50	0.0306	mg/kg dry	1.530	ND	98	70-130			
Chlorobenzene	1.53	0.0306	mg/kg dry	1.530	ND	100	70-130			
Chloroethane	1.99	0.0612	mg/kg dry	1.530	ND	130	70-130			
Chloroform	1.49	0.0306	mg/kg dry	1.530	ND	97	70-130			
Chloromethane	1.65	0.0612	mg/kg dry	1.530	ND	108	70-130			
cis-1,2-Dichloroethene	1.47	0.0306	mg/kg dry	1.530	ND	96	70-130			
cis-1,3-Dichloropropene	1.63	0.0306	mg/kg dry	1.530	ND	106	70-130			
Dibromochloromethane	1.49	0.0306	mg/kg dry	1.530	ND	97	70-130			
Dibromomethane	1.42	0.0306	mg/kg dry	1.530	ND	93	70-130			
Dichlorodifluoromethane	1.59	0.0306	mg/kg dry	1.530	ND	104	70-130			
Diethyl Ether	1.55	0.0306	mg/kg dry	1.530	ND	101	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - S035										
Di-isopropyl ether	1.75	0.0306	mg/kg dry	1.530	ND	115	70-130			
Ethyl tertiary-butyl ether	1.56	0.0306	mg/kg dry	1.530	ND	102	70-130			
Ethylbenzene	1.67	0.0306	mg/kg dry	1.530	ND	109	70-130			
Hexachlorobutadiene	2.11	0.0306	mg/kg dry	1.530	ND	138	70-130			M+
Isopropylbenzene	1.47	0.0306	mg/kg dry	1.530	ND	96	70-130			
Methyl tert-Butyl Ether	1.50	0.0306	mg/kg dry	1.530	ND	98	70-130			
Methylene Chloride	1.45	0.153	mg/kg dry	1.530	ND	95	70-130			
Naphthalene	1.49	0.0306	mg/kg dry	1.530	0.149	88	70-130			
n-Butylbenzene	1.89	0.0306	mg/kg dry	1.530	ND	123	70-130			
n-Propylbenzene	1.72	0.0306	mg/kg dry	1.530	ND	112	70-130			
sec-Butylbenzene	1.74	0.0306	mg/kg dry	1.530	ND	113	70-130			
Styrene	1.58	0.0306	mg/kg dry	1.530	ND	103	70-130			
tert-Butylbenzene	1.66	0.0306	mg/kg dry	1.530	ND	109	70-130			
Tertiary-amyl methyl ether	1.56	0.0306	mg/kg dry	1.530	ND	102	70-130			
Tetrachloroethene	1.38	0.0306	mg/kg dry	1.530	ND	90	70-130			
Tetrahydrofuran	1.47	0.306	mg/kg dry	1.530	ND	96	70-130			
Toluene	1.57	0.0306	mg/kg dry	1.530	0.0279	101	70-130			
trans-1,2-Dichloroethene	1.59	0.0306	mg/kg dry	1.530	ND	104	70-130			
trans-1,3-Dichloropropene	1.43	0.0306	mg/kg dry	1.530	ND	93	70-130			
Trichloroethene	1.51	0.0306	mg/kg dry	1.530	ND	99	70-130			
Trichlorofluoromethane	1.34	0.0306	mg/kg dry	1.530	ND	88	70-130			
Vinyl Chloride	1.63	0.0306	mg/kg dry	1.530	ND	106	70-130			
Xylene O	1.57	0.0306	mg/kg dry	1.530	ND	103	70-130			
Xylene P,M	3.16	0.0612	mg/kg dry	3.060	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*1.95*		mg/kg dry	*1.530*		*128*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.98*		mg/kg dry	*1.530*		*130*	*70-130*			
Surrogate: Dibromofluoromethane	*1.80*		mg/kg dry	*1.530*		*117*	*70-130*			
Surrogate: Toluene-d8	*2.00*		mg/kg dry	*1.530*		*130*	*70-130*			
Matrix Spike Dup Source: 0912230-10										
1,1,1,2-Tetrachloroethane	1.52	0.0612	mg/kg dry	1.530	ND	100	70-130	2	30	
1,1,1-Trichloroethane	1.58	0.0306	mg/kg dry	1.530	ND	103	70-130	3	30	
1,1,2,2-Tetrachloroethane	1.59	0.0306	mg/kg dry	1.530	ND	104	70-130	1	30	
1,1,2-Trichloroethane	1.48	0.0306	mg/kg dry	1.530	ND	97	70-130	0	30	
1,1-Dichloroethane	1.59	0.0306	mg/kg dry	1.530	ND	104	70-130	3	30	
1,1-Dichloroethene	1.54	0.0306	mg/kg dry	1.530	ND	100	70-130	2	30	
1,1-Dichloropropene	1.68	0.0306	mg/kg dry	1.530	ND	110	70-130	3	30	
1,2,3-Trichlorobenzene	1.38	0.0306	mg/kg dry	1.530	ND	90	70-130	0.8	30	
1,2,3-Trichloropropane	1.66	0.0306	mg/kg dry	1.530	ND	109	70-130	2	30	
1,2,4-Trichlorobenzene	1.49	0.0306	mg/kg dry	1.530	ND	97	70-130	0.8	30	
1,2,4-Trimethylbenzene	1.73	0.0306	mg/kg dry	1.530	ND	113	70-130	3	30	
1,2-Dibromo-3-Chloropropane	1.73	0.184	mg/kg dry	1.530	ND	113	70-130	10	30	
1,2-Dibromoethane	1.49	0.0306	mg/kg dry	1.530	ND	98	70-130	0.4	30	
1,2-Dichlorobenzene	1.54	0.0306	mg/kg dry	1.530	ND	101	70-130	2	30	
1,2-Dichloroethane	1.63	0.0306	mg/kg dry	1.530	ND	107	70-130	1	30	
1,2-Dichloropropane	1.65	0.0306	mg/kg dry	1.530	ND	108	70-130	3	30	
1,3,5-Trimethylbenzene	1.74	0.0306	mg/kg dry	1.530	ND	114	70-130	3	30	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - S035										
1,3-Dichlorobenzene	1.57	0.0306	mg/kg dry	1.530	ND	103	70-130	3	30	
1,3-Dichloropropane	1.64	0.0306	mg/kg dry	1.530	ND	107	70-130	0.5	30	
1,4-Dichlorobenzene	1.54	0.0306	mg/kg dry	1.530	ND	101	70-130	2	30	
1,4-Dioxane - Screen	37.0	3.06	mg/kg dry	30.60	ND	121	44-241	113	200	
2,2-Dichloropropane	1.48	0.0612	mg/kg dry	1.530	ND	96	70-130	2	30	
2-Butanone	6.88	0.765	mg/kg dry	7.650	ND	90	70-130	3	30	
2-Chlorotoluene	1.72	0.0306	mg/kg dry	1.530	ND	112	70-130	4	30	
2-Hexanone	8.13	0.306	mg/kg dry	7.650	ND	106	70-130	4	30	
4-Chlorotoluene	1.75	0.0306	mg/kg dry	1.530	ND	114	70-130	3	30	
4-Isopropyltoluene	1.66	0.0306	mg/kg dry	1.530	ND	109	70-130	2	30	
4-Methyl-2-Pentanone	8.11	0.306	mg/kg dry	7.650	ND	106	70-130	2	30	
Acetone	6.53	0.765	mg/kg dry	7.650	ND	85	70-130	5	30	
Benzene	1.58	0.0306	mg/kg dry	1.530	0.0100	103	70-130	3	30	
Bromobenzene	1.58	0.0306	mg/kg dry	1.530	ND	103	70-130	3	30	
Bromochloromethane	1.29	0.0306	mg/kg dry	1.530	ND	84	70-130	0.9	30	
Bromodichloromethane	1.65	0.0306	mg/kg dry	1.530	ND	108	70-130	2	30	
Bromoform	1.41	0.0306	mg/kg dry	1.530	ND	92	70-130	0	30	
Bromomethane	1.67	0.0612	mg/kg dry	1.530	ND	109	70-130	8	30	
Carbon Disulfide	1.69	0.0306	mg/kg dry	1.530	ND	111	70-130	3	30	
Carbon Tetrachloride	1.64	0.0306	mg/kg dry	1.530	ND	107	70-130	9	30	
Chlorobenzene	1.57	0.0306	mg/kg dry	1.530	ND	102	70-130	2	30	
Chloroethane	1.87	0.0612	mg/kg dry	1.530	ND	122	70-130	6	30	
Chloroform	1.53	0.0306	mg/kg dry	1.530	ND	100	70-130	3	30	
Chloromethane	1.72	0.0612	mg/kg dry	1.530	ND	112	70-130	4	30	
cis-1,2-Dichloroethene	1.51	0.0306	mg/kg dry	1.530	ND	99	70-130	3	30	
cis-1,3-Dichloropropene	1.63	0.0306	mg/kg dry	1.530	ND	107	70-130	0.3	30	
Dibromochloromethane	1.52	0.0306	mg/kg dry	1.530	ND	99	70-130	2	30	
Dibromomethane	1.39	0.0306	mg/kg dry	1.530	ND	91	70-130	2	30	
Dichlorodifluoromethane	1.63	0.0306	mg/kg dry	1.530	ND	106	70-130	2	30	
Diethyl Ether	1.51	0.0306	mg/kg dry	1.530	ND	99	70-130	3	30	
Di-isopropyl ether	1.78	0.0306	mg/kg dry	1.530	ND	116	70-130	2	30	
Ethyl tertiary-butyl ether	1.56	0.0306	mg/kg dry	1.530	ND	102	70-130	0	30	
Ethylbenzene	1.72	0.0306	mg/kg dry	1.530	ND	112	70-130	3	30	
Hexachlorobutadiene	2.15	0.0306	mg/kg dry	1.530	ND	140	70-130	2	30	M+
Isopropylbenzene	1.52	0.0306	mg/kg dry	1.530	ND	99	70-130	3	30	
Methyl tert-Butyl Ether	1.50	0.0306	mg/kg dry	1.530	ND	98	70-130	0.2	30	
Methylene Chloride	1.49	0.153	mg/kg dry	1.530	ND	97	70-130	3	30	
Naphthalene	1.53	0.0306	mg/kg dry	1.530	0.149	90	70-130	2	30	
n-Butylbenzene	1.94	0.0306	mg/kg dry	1.530	ND	127	70-130	3	30	
n-Propylbenzene	1.87	0.0306	mg/kg dry	1.530	ND	122	70-130	9	30	
sec-Butylbenzene	1.78	0.0306	mg/kg dry	1.530	ND	116	70-130	2	30	
Styrene	1.61	0.0306	mg/kg dry	1.530	ND	106	70-130	2	30	
tert-Butylbenzene	1.71	0.0306	mg/kg dry	1.530	ND	112	70-130	3	30	
Tertiary-amyl methyl ether	1.56	0.0306	mg/kg dry	1.530	ND	102	70-130	0.3	30	
Tetrachloroethene	1.41	0.0306	mg/kg dry	1.530	ND	92	70-130	2	30	
Tetrahydrofuran	1.48	0.306	mg/kg dry	1.530	ND	97	70-130	0.4	30	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL91804 - 5035										
Toluene	1.60	0.0306	mg/kg dry	1.530	0.0279	103	70-130	2	30	
trans-1,2-Dichloroethene	1.64	0.0306	mg/kg dry	1.530	ND	107	70-130	3	30	
trans-1,3-Dichloropropene	1.45	0.0306	mg/kg dry	1.530	ND	94	70-130	1	30	
Trichloroethene	1.54	0.0306	mg/kg dry	1.530	ND	101	70-130	2	30	
Trichlorofluoromethane	1.38	0.0306	mg/kg dry	1.530	ND	90	70-130	3	30	
Vinyl Chloride	1.59	0.0306	mg/kg dry	1.530	ND	104	70-130	3	30	
Xylene O	1.62	0.0306	mg/kg dry	1.530	ND	106	70-130	3	30	
Xylene P,M	3.26	0.0612	mg/kg dry	3.060	ND	107	70-130	3	30	
Surrogate: 1,2-Dichloroethane-d4	*1.97*		mg/kg dry	*1.530*		*129*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.02*		mg/kg dry	*1.530*		*132*	*70-130*			*SC*
Surrogate: Dibromofluoromethane	*1.82*		mg/kg dry	*1.530*		*119*	*70-130*			
Surrogate: Toluene-d8	*2.05*		mg/kg dry	*1.530*		*134*	*70-130*			*SC*
Batch BL92209 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	1.25	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.500	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.500	mg/kg wet							
Acetone	ND	1.25	mg/kg wet							
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL92209 - 5035										
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	ND	0.0500	mg/kg wet							
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.250	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.500	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.67*		mg/kg wet	*2.500*		*107*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.73*		mg/kg wet	*2.500*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*2.55*		mg/kg wet	*2.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*2.74*		mg/kg wet	*2.500*		*110*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.42	0.100	mg/kg wet	2.500		97	70-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL92209 - 5035										
1,1,1-Trichloroethane	2.50	0.0500	mg/kg wet	2.500		100	70-130			
1,1,2,2-Tetrachloroethane	2.46	0.0500	mg/kg wet	2.500		98	70-130			
1,1,2-Trichloroethane	2.32	0.0500	mg/kg wet	2.500		93	70-130			
1,1-Dichloroethane	2.56	0.0500	mg/kg wet	2.500		102	70-130			
1,1-Dichloroethene	2.40	0.0500	mg/kg wet	2.500		96	70-130			
1,1-Dichloropropene	2.65	0.0500	mg/kg wet	2.500		106	70-130			
1,2,3-Trichlorobenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130			
1,2,3-Trichloropropane	2.70	0.0500	mg/kg wet	2.500		108	70-130			
1,2,4-Trichlorobenzene	2.46	0.0500	mg/kg wet	2.500		99	70-130			
1,2,4-Trimethylbenzene	2.78	0.0500	mg/kg wet	2.500		111	70-130			
1,2-Dibromo-3-Chloropropane	2.73	0.300	mg/kg wet	2.500		109	70-130			
1,2-Dibromoethane	2.30	0.0500	mg/kg wet	2.500		92	70-130			
1,2-Dichlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,2-Dichloroethane	2.60	0.0500	mg/kg wet	2.500		104	70-130			
1,2-Dichloropropane	2.62	0.0500	mg/kg wet	2.500		105	70-130			
1,3,5-Trimethylbenzene	2.79	0.0500	mg/kg wet	2.500		111	70-130			
1,3-Dichlorobenzene	2.50	0.0500	mg/kg wet	2.500		100	70-130			
1,3-Dichloropropane	2.59	0.0500	mg/kg wet	2.500		104	70-130			
1,4-Dichlorobenzene	2.49	0.0500	mg/kg wet	2.500		99	70-130			
1,4-Dioxane - Screen	56.9	5.00	mg/kg wet	50.00		114	44-241			
2,2-Dichloropropane	2.55	0.100	mg/kg wet	2.500		102	70-130			
2-Butanone	11.9	1.25	mg/kg wet	12.50		95	70-130			
2-Chlorotoluene	2.98	0.0500	mg/kg wet	2.500		119	70-130			
2-Hexanone	13.4	0.500	mg/kg wet	12.50		108	70-130			
4-Chlorotoluene	2.85	0.0500	mg/kg wet	2.500		114	70-130			
4-Isopropyltoluene	2.64	0.0500	mg/kg wet	2.500		106	70-130			
4-Methyl-2-Pentanone	12.5	0.500	mg/kg wet	12.50		100	70-130			
Acetone	12.8	1.25	mg/kg wet	12.50		102	70-130			
Benzene	2.53	0.0500	mg/kg wet	2.500		101	70-130			
Bromobenzene	2.52	0.0500	mg/kg wet	2.500		101	70-130			
Bromochloromethane	2.00	0.0500	mg/kg wet	2.500		80	70-130			
Bromodichloromethane	2.66	0.0500	mg/kg wet	2.500		106	70-130			
Bromoform	2.20	0.0500	mg/kg wet	2.500		88	70-130			
Bromomethane	3.15	0.100	mg/kg wet	2.500		126	70-130			
Carbon Disulfide	2.63	0.0500	mg/kg wet	2.500		105	70-130			
Carbon Tetrachloride	2.58	0.0500	mg/kg wet	2.500		103	70-130			
Chlorobenzene	2.51	0.0500	mg/kg wet	2.500		100	70-130			
Chloroethane	3.24	0.100	mg/kg wet	2.500		129	70-130			
Chloroform	2.47	0.0500	mg/kg wet	2.500		99	70-130			
Chloromethane	2.65	0.100	mg/kg wet	2.500		106	70-130			
cis-1,2-Dichloroethene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
cis-1,3-Dichloropropene	2.66	0.0500	mg/kg wet	2.500		107	70-130			
Dibromochloromethane	2.37	0.0500	mg/kg wet	2.500		95	70-130			
Dibromomethane	2.16	0.0500	mg/kg wet	2.500		87	70-130			
Dichlorodifluoromethane	2.38	0.0500	mg/kg wet	2.500		95	70-130			
Diethyl Ether	2.34	0.0500	mg/kg wet	2.500		94	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL92209 - 5035										
Di-isopropyl ether	2.85	0.0500	mg/kg wet	2.500		114	70-130			
Ethyl tertiary-butyl ether	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Ethylbenzene	2.75	0.0500	mg/kg wet	2.500		110	70-130			
Hexachlorobutadiene	2.94	0.0500	mg/kg wet	2.500		118	70-130			
Isopropylbenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
Methyl tert-Butyl Ether	2.32	0.0500	mg/kg wet	2.500		93	70-130			
Methylene Chloride	2.38	0.250	mg/kg wet	2.500		95	70-130			
Naphthalene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
n-Butylbenzene	3.04	0.0500	mg/kg wet	2.500		122	70-130			
n-Propylbenzene	2.86	0.0500	mg/kg wet	2.500		115	70-130			
sec-Butylbenzene	2.78	0.0500	mg/kg wet	2.500		111	70-130			
Styrene	2.58	0.0500	mg/kg wet	2.500		103	70-130			
tert-Butylbenzene	2.71	0.0500	mg/kg wet	2.500		108	70-130			
Tertiary-amyl methyl ether	2.42	0.0500	mg/kg wet	2.500		97	70-130			
Tetrachloroethene	2.23	0.0500	mg/kg wet	2.500		89	70-130			
Tetrahydrofuran	2.33	0.500	mg/kg wet	2.500		93	70-130			
Toluene	2.54	0.0500	mg/kg wet	2.500		102	70-130			
trans-1,2-Dichloroethene	2.61	0.0500	mg/kg wet	2.500		104	70-130			
trans-1,3-Dichloropropene	2.33	0.0500	mg/kg wet	2.500		93	70-130			
Trichloroethene	2.49	0.0500	mg/kg wet	2.500		99	70-130			
Trichlorofluoromethane	2.10	0.0500	mg/kg wet	2.500		84	70-130			
Vinyl Chloride	2.45	0.0500	mg/kg wet	2.500		98	70-130			
Xylene O	2.58	0.0500	mg/kg wet	2.500		103	70-130			
Xylene P,M	5.16	0.100	mg/kg wet	5.000		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2.76*		mg/kg wet	*2.500*		*110*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.81*		mg/kg wet	*2.500*		*113*	*70-130*			
Surrogate: Dibromofluoromethane	*2.51*		mg/kg wet	*2.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2.82*		mg/kg wet	*2.500*		*113*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.41	0.100	mg/kg wet	2.500		96	70-130	0.2	25	
1,1,1-Trichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130	1	25	
1,1,2,2-Tetrachloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130	1	25	
1,1,2-Trichloroethane	2.35	0.0500	mg/kg wet	2.500		94	70-130	1	25	
1,1-Dichloroethane	2.54	0.0500	mg/kg wet	2.500		102	70-130	0.8	25	
1,1-Dichloroethene	2.37	0.0500	mg/kg wet	2.500		95	70-130	1	25	
1,1-Dichloropropene	2.61	0.0500	mg/kg wet	2.500		104	70-130	2	25	
1,2,3-Trichlorobenzene	2.35	0.0500	mg/kg wet	2.500		94	70-130	3	25	
1,2,3-Trichloropropane	2.73	0.0500	mg/kg wet	2.500		109	70-130	1	25	
1,2,4-Trichlorobenzene	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.6	25	
1,2,4-Trimethylbenzene	2.76	0.0500	mg/kg wet	2.500		110	70-130	0.8	25	
1,2-Dibromo-3-Chloropropane	2.71	0.300	mg/kg wet	2.500		108	70-130	1	25	
1,2-Dibromoethane	2.31	0.0500	mg/kg wet	2.500		92	70-130	0.4	25	
1,2-Dichlorobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.6	25	
1,2-Dichloroethane	2.59	0.0500	mg/kg wet	2.500		104	70-130	0.08	25	
1,2-Dichloropropane	2.61	0.0500	mg/kg wet	2.500		104	70-130	0.3	25	
1,3,5-Trimethylbenzene	2.75	0.0500	mg/kg wet	2.500		110	70-130	1	25	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL92289 - 5035										
1,3-Dichlorobenzene	2.49	0.0500	mg/kg wet	2.500		100	70-130	0.2	25	
1,3-Dichloropropane	2.61	0.0500	mg/kg wet	2.500		104	70-130	0.7	25	
1,4-Dichlorobenzene	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.3	25	
1,4-Dioxane - Screen	54.9	5.00	mg/kg wet	50.00		110	44-241	4	200	
2,2-Dichloropropane	2.51	0.100	mg/kg wet	2.500		100	70-130	2	25	
2-Butanone	11.2	1.25	mg/kg wet	12.50		90	70-130	6	25	
2-Chlorotoluene	2.92	0.0500	mg/kg wet	2.500		117	70-130	2	25	
2-Hexanone	12.9	0.500	mg/kg wet	12.50		103	70-130	4	25	
4-Chlorotoluene	2.81	0.0500	mg/kg wet	2.500		112	70-130	1	25	
4-Isopropyltoluene	2.60	0.0500	mg/kg wet	2.500		104	70-130	1	25	
4-Methyl-2-Pentanone	12.7	0.500	mg/kg wet	12.50		102	70-130	1	25	
Acetone	10.8	1.25	mg/kg wet	12.50		86	70-130	17	25	
Benzene	2.50	0.0500	mg/kg wet	2.500		100	70-130	1	25	
Bromobenzene	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.6	25	
Bromochloromethane	2.03	0.0500	mg/kg wet	2.500		81	70-130	1	25	
Bromodichloromethane	2.66	0.0500	mg/kg wet	2.500		106	70-130	0.08	25	
Bromoform	2.23	0.0500	mg/kg wet	2.500		89	70-130	2	25	
Bromomethane	2.80	0.100	mg/kg wet	2.500		112	70-130	12	25	
Carbon Disulfide	2.60	0.0500	mg/kg wet	2.500		104	70-130	1	25	
Carbon Tetrachloride	2.58	0.0500	mg/kg wet	2.500		103	70-130	0.3	25	
Chlorobenzene	2.49	0.0500	mg/kg wet	2.500		100	70-130	0.6	25	
Chloroethane	3.18	0.100	mg/kg wet	2.500		127	70-130	2	25	
Chloroform	2.44	0.0500	mg/kg wet	2.500		98	70-130	1	25	
Chloromethane	2.61	0.100	mg/kg wet	2.500		104	70-130	2	25	
cis-1,2-Dichloroethene	2.40	0.0500	mg/kg wet	2.500		96	70-130	2	25	
cis-1,3-Dichloropropene	2.67	0.0500	mg/kg wet	2.500		107	70-130	0.3	25	
Dibromochloromethane	2.39	0.0500	mg/kg wet	2.500		96	70-130	0.9	25	
Dibromomethane	2.18	0.0500	mg/kg wet	2.500		87	70-130	0.7	25	
Dichlorodifluoromethane	2.34	0.0500	mg/kg wet	2.500		93	70-130	2	25	
Diethyl Ether	2.37	0.0500	mg/kg wet	2.500		95	70-130	1	25	
Di-isopropyl ether	2.86	0.0500	mg/kg wet	2.500		114	70-130	0.2	25	
Ethyl tertiary-butyl ether	2.49	0.0500	mg/kg wet	2.500		100	70-130	1	25	
Ethylbenzene	2.72	0.0500	mg/kg wet	2.500		109	70-130	1	25	
Hexachlorobutadiene	2.90	0.0500	mg/kg wet	2.500		116	70-130	2	25	
Isopropylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
Methyl tert-Butyl Ether	2.38	0.0500	mg/kg wet	2.500		95	70-130	3	25	
Methylene Chloride	2.35	0.250	mg/kg wet	2.500		94	70-130	1	25	
Naphthalene	2.26	0.0500	mg/kg wet	2.500		90	70-130	3	25	
n-Butylbenzene	3.00	0.0500	mg/kg wet	2.500		120	70-130	1	25	
n-Propylbenzene	2.83	0.0500	mg/kg wet	2.500		113	70-130	1	25	
sec-Butylbenzene	2.73	0.0500	mg/kg wet	2.500		109	70-130	2	25	
Styrene	2.57	0.0500	mg/kg wet	2.500		103	70-130	0.4	25	
tert-Butylbenzene	2.67	0.0500	mg/kg wet	2.500		107	70-130	1	25	
Tertiary-amyl methyl ether	2.47	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Tetrachloroethene	2.18	0.0500	mg/kg wet	2.500		87	70-130	2	25	
Tetrahydrofuran	2.35	0.500	mg/kg wet	2.500		94	70-130	0.8	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BL92209 - 5035										
Toluene	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
trans-1,2-Dichloroethene	2.58	0.0500	mg/kg wet	2.500		103	70-130	1	25	
trans-1,3-Dichloropropene	2.34	0.0500	mg/kg wet	2.500		94	70-130	0.4	25	
Trichloroethene	2.43	0.0500	mg/kg wet	2.500		97	70-130	2	25	
Trichlorofluoromethane	2.07	0.0500	mg/kg wet	2.500		83	70-130	2	25	
Vinyl Chloride	2.40	0.0500	mg/kg wet	2.500		96	70-130	2	25	
Xylene O	2.52	0.0500	mg/kg wet	2.500		101	70-130	2	25	
Xylene P,M	5.12	0.100	mg/kg wet	5.000		102	70-130	0.9	25	
Surrogate: 1,2-Dichloroethane-d4	*2.79*		mg/kg wet	*2.500*		*111*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.82*		mg/kg wet	*2.500*		*113*	*70-130*			
Surrogate: Dibromofluoromethane	*2.53*		mg/kg wet	*2.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*2.82*		mg/kg wet	*2.500*		*113*	*70-130*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BL91808 - 3541										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BL91808 - 3541										
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

8082 Polychlorinated Biphenyls (PCB)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BL91808 - 3541										
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0203*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0227*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0201*		mg/kg wet	*0.02500*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0242*		mg/kg wet	*0.02500*		*97*	*30-150*			
LCS										
Aroclor 1016	0.525	0.0500	mg/kg wet	0.5000		105	40-140			
Aroclor 1260	0.500	0.0500	mg/kg wet	0.5000		100	40-140			
Surrogate: Decachlorobiphenyl	*0.0219*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0247*		mg/kg wet	*0.02500*		*99*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0253*		mg/kg wet	*0.02500*		*101*	*30-150*			
LCS Dup										
Aroclor 1016	0.536	0.0500	mg/kg wet	0.5000		107	40-140	2	50	
Aroclor 1260	0.508	0.0500	mg/kg wet	0.5000		102	40-140	2	50	
Surrogate: Decachlorobiphenyl	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0241*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0254*		mg/kg wet	*0.02500*		*101*	*30-150*			
Matrix Spike **Source: 0912230-10**										

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BL91808 - 3541										
Aroclor 1016	0.192	0.0506	mg/kg dry	0.5061	ND	38	40-140			M-
Aroclor 1260	0.209	0.0506	mg/kg dry	0.5061	ND	41	40-140			
Surrogate: Decachlorobiphenyl	*0.00743*		mg/kg dry	*0.02530*		*29*	*30-150*			*S-*
Surrogate: Decachlorobiphenyl [2C]	*0.0124*		mg/kg dry	*0.02530*		*49*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00797*		mg/kg dry	*0.02530*		*31*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00779*		mg/kg dry	*0.02530*		*31*	*30-150*			
Matrix Spike Dup **Source: 0912230-10**										
Aroclor 1016	0.213	0.0519	mg/kg dry	0.5185	ND	41	40-140	10	50	
Aroclor 1260	0.187	0.0519	mg/kg dry	0.5185	ND	36	40-140	11	50	M-
Surrogate: Decachlorobiphenyl	*0.00777*		mg/kg dry	*0.02593*		*30*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0131*		mg/kg dry	*0.02593*		*51*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00785*		mg/kg dry	*0.02593*		*30*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00795*		mg/kg dry	*0.02593*		*31*	*30-150*			
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL91813 - 3546										
Blank										
C19-C36 Aliphatics1	ND	30.0	mg/kg wet							
C9-C18 Aliphatics1	ND	30.0	mg/kg wet							
Decane (C10)	ND	1.0	mg/kg wet							
Docosane (C22)	ND	1.0	mg/kg wet							
Dodecane (C12)	ND	1.0	mg/kg wet							
Eicosane (C20)	ND	1.0	mg/kg wet							
Hexacosane (C26)	ND	1.0	mg/kg wet							
Hexadecane (C16)	ND	1.0	mg/kg wet							
Nonadecane (C19)	ND	1.0	mg/kg wet							
Nonane (C9)	ND	1.0	mg/kg wet							
Octacosane (C28)	ND	1.0	mg/kg wet							
Octadecane (C18)	ND	1.0	mg/kg wet							
Tetracosane (C24)	ND	1.0	mg/kg wet							
Tetradecane (C14)	ND	1.0	mg/kg wet							
Triacontane (C30)	ND	1.0	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.42*		mg/kg wet	*2.000*		*71*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.40	mg/kg wet							
Acenaphthene	ND	0.80	mg/kg wet							
Acenaphthylene	ND	0.40	mg/kg wet							
Anthracene	ND	0.80	mg/kg wet							
Benzo(a)anthracene	ND	0.80	mg/kg wet							
Benzo(a)pyrene	ND	0.80	mg/kg wet							
Benzo(b)fluoranthene	ND	0.80	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.80	mg/kg wet							
Benzo(k)fluoranthene	ND	0.80	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL91813 - 3546										
C11-C22 Unadjusted Aromatics1	ND	30.0	mg/kg wet							
Chrysene	ND	0.80	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.40	mg/kg wet							
Fluoranthene	ND	0.80	mg/kg wet							
Fluorene	ND	0.80	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.80	mg/kg wet							
Naphthalene	ND	0.80	mg/kg wet							
Phenanthrene	ND	0.80	mg/kg wet							
Pyrene	ND	0.80	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*47.0*		mg/L	*50.00*		*94*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*43.6*		mg/L	*50.00*		*87*	*40-140*			
Surrogate: O-Terphenyl	*1.79*		mg/kg wet	*2.000*		*89*	*40-140*			
LCS										
C19-C36 Aliphatics1	12.2	30.0	mg/kg wet	16.00		76	40-140			
C9-C18 Aliphatics1	11.0	30.0	mg/kg wet	12.00		91	40-140			
Decane (C10)	0.9	1.0	mg/kg wet	2.000		47	40-140			
Docosane (C22)	1.8	1.0	mg/kg wet	2.000		88	40-140			
Dodecane (C12)	1.1	1.0	mg/kg wet	2.000		55	40-140			
Eicosane (C20)	1.5	1.0	mg/kg wet	2.000		77	40-140			
Hexacosane (C26)	1.5	1.0	mg/kg wet	2.000		76	40-140			
Hexadecane (C16)	1.3	1.0	mg/kg wet	2.000		65	40-140			
Nonadecane (C19)	1.5	1.0	mg/kg wet	2.000		73	40-140			
Nonane (C9)	0.7	1.0	mg/kg wet	2.000		35	30-140			
Octacosane (C28)	1.5	1.0	mg/kg wet	2.000		74	40-140			
Octadecane (C18)	1.5	1.0	mg/kg wet	2.000		73	40-140			
Tetracosane (C24)	1.6	1.0	mg/kg wet	2.000		78	40-140			
Tetradecane (C14)	1.2	1.0	mg/kg wet	2.000		62	40-140			
Triacontane (C30)	1.5	1.0	mg/kg wet	2.000		77	40-140			
Surrogate: 1-Chlorooctadecane	*1.50*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS										
2-Methylnaphthalene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Acenaphthene	1.62	0.80	mg/kg wet	2.000		81	40-140			
Acenaphthylene	1.66	0.40	mg/kg wet	2.000		83	40-140			
Anthracene	1.81	0.80	mg/kg wet	2.000		90	40-140			
Benzo(a)anthracene	1.87	0.80	mg/kg wet	2.000		94	40-140			
Benzo(a)pyrene	2.02	0.80	mg/kg wet	2.000		101	40-140			
Benzo(b)fluoranthene	1.88	0.80	mg/kg wet	2.000		94	40-140			
Benzo(g,h,i)perylene	1.84	0.80	mg/kg wet	2.000		92	40-140			
Benzo(k)fluoranthene	1.94	0.80	mg/kg wet	2.000		97	40-140			
C11-C22 Unadjusted Aromatics1	40.9	30.0	mg/kg wet	34.00		120	40-140			
Chrysene	1.95	0.80	mg/kg wet	2.000		98	40-140			
Dibenzo(a,h)Anthracene	1.84	0.40	mg/kg wet	2.000		92	40-140			
Fluoranthene	1.88	0.80	mg/kg wet	2.000		94	40-140			
Fluorene	1.70	0.80	mg/kg wet	2.000		85	40-140			
Indeno(1,2,3-cd)Pyrene	1.82	0.80	mg/kg wet	2.000		91	40-140			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL91813 - 3546										
Naphthalene	1.47	0.80	mg/kg wet	2.000		74	40-140			
Phenanthrene	1.86	0.80	mg/kg wet	2.000		93	40-140			
Pyrene	1.86	0.80	mg/kg wet	2.000		93	40-140			
Surrogate: 2-Bromonaphthalene	*43.9*		mg/L	*50.00*		*88*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.9*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: O-Terphenyl	*1.86*		mg/kg wet	*2.000*		*93*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	20.3	30.0	mg/kg wet	16.00		127	40-140	50	25	D+
C9-C18 Aliphatics1	12.9	30.0	mg/kg wet	12.00		108	40-140	16	25	
Decane (C10)	1.0	1.0	mg/kg wet	2.000		50	40-140	6	25	
Docosane (C22)	1.8	1.0	mg/kg wet	2.000		92	40-140	4	25	
Dodecane (C12)	1.2	1.0	mg/kg wet	2.000		58	40-140	5	25	
Eicosane (C20)	1.7	1.0	mg/kg wet	2.000		83	40-140	8	25	
Hexacosane (C26)	1.6	1.0	mg/kg wet	2.000		80	40-140	6	25	
Hexadecane (C16)	1.5	1.0	mg/kg wet	2.000		77	40-140	17	25	
Nonadecane (C19)	1.6	1.0	mg/kg wet	2.000		82	40-140	12	25	
Nonane (C9)	0.7	1.0	mg/kg wet	2.000		36	30-140	4	25	
Octacosane (C28)	1.6	1.0	mg/kg wet	2.000		80	40-140	8	25	
Octadecane (C18)	1.7	1.0	mg/kg wet	2.000		84	40-140	15	25	
Tetracosane (C24)	1.7	1.0	mg/kg wet	2.000		85	40-140	9	25	
Tetradecane (C14)	1.4	1.0	mg/kg wet	2.000		71	40-140	14	25	
Triacontane (C30)	1.7	1.0	mg/kg wet	2.000		83	40-140	8	25	
Surrogate: 1-Chlorooctadecane	*1.51*		mg/kg wet	*2.000*		*75*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.62	0.40	mg/kg wet	2.000		81	40-140	4	25	
Acenaphthene	1.66	0.80	mg/kg wet	2.000		83	40-140	2	25	
Acenaphthylene	1.67	0.40	mg/kg wet	2.000		84	40-140	0.6	25	
Anthracene	1.85	0.80	mg/kg wet	2.000		93	40-140	2	25	
Benzo(a)anthracene	1.84	0.80	mg/kg wet	2.000		92	40-140	2	25	
Benzo(a)pyrene	1.97	0.80	mg/kg wet	2.000		98	40-140	2	25	
Benzo(b)fluoranthene	1.86	0.80	mg/kg wet	2.000		93	40-140	1	25	
Benzo(g,h,i)perylene	1.78	0.80	mg/kg wet	2.000		89	40-140	3	25	
Benzo(k)fluoranthene	1.89	0.80	mg/kg wet	2.000		95	40-140	3	25	
C11-C22 Unadjusted Aromatics1	39.3	30.0	mg/kg wet	34.00		116	40-140	4	25	
Chrysene	1.88	0.80	mg/kg wet	2.000		94	40-140	4	25	
Dibenzo(a,h)Anthracene	1.78	0.40	mg/kg wet	2.000		89	40-140	3	25	
Fluoranthene	1.84	0.80	mg/kg wet	2.000		92	40-140	3	25	
Fluorene	1.76	0.80	mg/kg wet	2.000		88	40-140	4	25	
Indeno(1,2,3-cd)Pyrene	1.77	0.80	mg/kg wet	2.000		88	40-140	3	25	
Naphthalene	1.52	0.80	mg/kg wet	2.000		76	40-140	3	25	
Phenanthrene	1.89	0.80	mg/kg wet	2.000		95	40-140	2	25	
Pyrene	1.82	0.80	mg/kg wet	2.000		91	40-140	2	25	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL91813 - 3546										
Surrogate: 2-Bromonaphthalene	*44.7*		mg/L	*50.00*		*89*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*43.7*		mg/L	*50.00*		*87*	*40-140*			
Surrogate: O-Terphenyl	*1.81*		mg/kg wet	*2.000*		*90*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Duplicate Source: 0912230-04										
C19-C36 Aliphatics1	ND	32.2	mg/kg dry		ND				50	
C9-C18 Aliphatics1	ND	32.2	mg/kg dry		ND				50	
Decane (C10)	ND	1.1	mg/kg dry		ND				200	
Docosane (C22)	ND	1.1	mg/kg dry		ND				200	
Dodecane (C12)	ND	1.1	mg/kg dry		ND				200	
Eicosane (C20)	ND	1.1	mg/kg dry		ND				200	
Hexacosane (C26)	ND	1.1	mg/kg dry		ND				200	
Hexadecane (C16)	ND	1.1	mg/kg dry		ND				200	
Nonadecane (C19)	ND	1.1	mg/kg dry		ND				200	
Nonane (C9)	ND	1.1	mg/kg dry		ND				200	
Octacosane (C28)	ND	1.1	mg/kg dry		ND				200	
Octadecane (C18)	ND	1.1	mg/kg dry		ND				200	
Tetracosane (C24)	ND	1.1	mg/kg dry		ND				200	
Tetradecane (C14)	ND	1.1	mg/kg dry		ND				200	
Triacontane (C30)	ND	1.1	mg/kg dry		ND				200	
Surrogate: 1-Chlorooctadecane	*1.71*		mg/kg dry	*2.145*		*80*	*40-140*			
Duplicate Source: 0912230-04										
2-Methylnaphthalene	ND	0.43	mg/kg dry		ND				50	
Acenaphthene	ND	0.86	mg/kg dry		ND				50	
Acenaphthylene	ND	0.43	mg/kg dry		ND				50	
Anthracene	0.28	0.86	mg/kg dry		0.39			31	50	
Benzo(a)anthracene	0.53	0.86	mg/kg dry		0.67			23	50	
Benzo(a)pyrene	0.44	0.86	mg/kg dry		0.54			21	50	
Benzo(b)fluoranthene	0.57	0.86	mg/kg dry		0.68			18	50	
Benzo(g,h,i)perylene	0.25	0.86	mg/kg dry		0.29			14	50	
Benzo(k)fluoranthene	0.21	0.86	mg/kg dry		0.28			28	50	
C11-C22 Unadjusted Aromatics1	21.8	32.2	mg/kg dry		24.0			10	50	
Chrysene	0.50	0.86	mg/kg dry		0.59			17	50	
Dibenzo(a,h)Anthracene	0.14	0.43	mg/kg dry		0.15			6	50	
Fluoranthene	1.12	0.86	mg/kg dry		1.39			21	50	
Fluorene	ND	0.86	mg/kg dry		ND				50	
Indeno(1,2,3-cd)Pyrene	0.34	0.86	mg/kg dry		0.39			11	50	
Naphthalene	ND	0.86	mg/kg dry		ND				50	
Phenanthrene	1.08	0.86	mg/kg dry		1.44			28	50	
Pyrene	0.88	0.86	mg/kg dry		1.06			19	50	
Surrogate: 2-Bromonaphthalene	*44.8*		mg/L	*50.00*		*90*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*40.6*		mg/L	*50.00*		*81*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL91813 - 3546										
Surrogate: O-Terphenyl	*1.76*		mg/kg dry	*2.145*		*82*	*40-140*			
Matrix Spike **Source: 0912230-04**										
C19-C36 Aliphatics1	22.9	32.3	mg/kg dry	17.23	ND	133	40-140			
C9-C18 Aliphatics1	13.8	32.3	mg/kg dry	12.92	ND	106	40-140			
Decane (C10)	1.0	1.1	mg/kg dry	2.154	ND	45	40-140			
Docosane (C22)	2.0	1.1	mg/kg dry	2.154	ND	95	40-140			
Dodecane (C12)	1.2	1.1	mg/kg dry	2.154	ND	55	40-140			
Eicosane (C20)	1.9	1.1	mg/kg dry	2.154	ND	87	40-140			
Hexacosane (C26)	1.8	1.1	mg/kg dry	2.154	ND	82	40-140			
Hexadecane (C16)	1.7	1.1	mg/kg dry	2.154	ND	80	40-140			
Nonadecane (C19)	1.8	1.1	mg/kg dry	2.154	ND	86	40-140			
Nonane (C9)	0.7	1.1	mg/kg dry	2.154	ND	32	30-140			
Octacosane (C28)	1.8	1.1	mg/kg dry	2.154	ND	84	40-140			
Octadecane (C18)	1.9	1.1	mg/kg dry	2.154	ND	87	40-140			
Tetracosane (C24)	1.8	1.1	mg/kg dry	2.154	ND	85	40-140			
Tetradecane (C14)	1.5	1.1	mg/kg dry	2.154	ND	71	40-140			
Triacontane (C30)	1.9	1.1	mg/kg dry	2.154	ND	87	40-140			
Surrogate: 1-Chlorooctadecane	*1.68*		mg/kg dry	*2.154*		*78*	*40-140*			
Matrix Spike **Source: 0912230-04**										
2-Methylnaphthalene	1.68	0.43	mg/kg dry	2.154	ND	78	40-140			
Acenaphthene	1.92	0.86	mg/kg dry	2.154	ND	89	40-140			
Acenaphthylene	1.69	0.43	mg/kg dry	2.154	ND	79	40-140			
Anthracene	2.44	0.86	mg/kg dry	2.154	0.39	95	40-140			
Benzo(a)anthracene	2.79	0.86	mg/kg dry	2.154	0.67	99	40-140			
Benzo(a)pyrene	2.66	0.86	mg/kg dry	2.154	0.54	99	40-140			
Benzo(b)fluoranthene	2.79	0.86	mg/kg dry	2.154	0.68	98	40-140			
Benzo(g,h,i)perylene	2.13	0.86	mg/kg dry	2.154	0.29	86	40-140			
Benzo(k)fluoranthene	2.17	0.86	mg/kg dry	2.154	0.28	88	40-140			
C11-C22 Unadjusted Aromatics1	70.3	32.3	mg/kg dry	36.61	24.0	126	40-140			
Chrysene	2.62	0.86	mg/kg dry	2.154	0.59	94	40-140			
Dibenzo(a,h)Anthracene	1.82	0.43	mg/kg dry	2.154	0.15	77	40-140			
Fluoranthene	3.86	0.86	mg/kg dry	2.154	1.39	115	40-140			
Fluorene	2.14	0.86	mg/kg dry	2.154	ND	100	40-140			
Indeno(1,2,3-cd)Pyrene	2.18	0.86	mg/kg dry	2.154	0.39	83	40-140			
Naphthalene	1.64	0.86	mg/kg dry	2.154	ND	76	40-140			
Phenanthrene	4.27	0.86	mg/kg dry	2.154	1.44	131	40-140			
Pyrene	3.35	0.86	mg/kg dry	2.154	1.06	106	40-140			
Surrogate: 2-Bromonaphthalene	*44.7*		mg/L	*50.00*		*89*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.9*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: O-Terphenyl	*1.78*		mg/kg dry	*2.154*		*82*	*40-140*			
Batch BL92213 - 3546										
Blank										
C19-C36 Aliphatics1	ND	30.0	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL92213 - 3546										
C9-C18 Aliphatics1	ND	30.0	mg/kg wet							
Decane (C10)	ND	1.0	mg/kg wet							
Docosane (C22)	ND	1.0	mg/kg wet							
Dodecane (C12)	ND	1.0	mg/kg wet							
Eicosane (C20)	ND	1.0	mg/kg wet							
Hexacosane (C26)	ND	1.0	mg/kg wet							
Hexadecane (C16)	ND	1.0	mg/kg wet							
Nonadecane (C19)	ND	1.0	mg/kg wet							
Nonane (C9)	ND	1.0	mg/kg wet							
Octacosane (C28)	ND	1.0	mg/kg wet							
Octadecane (C18)	ND	1.0	mg/kg wet							
Tetracosane (C24)	ND	1.0	mg/kg wet							
Tetradecane (C14)	ND	1.0	mg/kg wet							
Triacontane (C30)	ND	1.0	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.20*		mg/kg wet	*2.000*		*60*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.40	mg/kg wet							
Acenaphthene	ND	0.80	mg/kg wet							
Acenaphthylene	ND	0.40	mg/kg wet							
Anthracene	ND	0.80	mg/kg wet							
Benzo(a)anthracene	ND	0.80	mg/kg wet							
Benzo(a)pyrene	ND	0.80	mg/kg wet							
Benzo(b)fluoranthene	ND	0.80	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.80	mg/kg wet							
Benzo(k)fluoranthene	ND	0.80	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	30.0	mg/kg wet							
Chrysene	ND	0.80	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.40	mg/kg wet							
Fluoranthene	ND	0.80	mg/kg wet							
Fluorene	ND	0.80	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.80	mg/kg wet							
Naphthalene	ND	0.80	mg/kg wet							
Phenanthrene	ND	0.80	mg/kg wet							
Pyrene	ND	0.80	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*42.0*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.1*		mg/L	*50.00*		*78*	*40-140*			
Surrogate: O-Terphenyl	*1.61*		mg/kg wet	*2.000*		*81*	*40-140*			
LCS										
C19-C36 Aliphatics1	12.3	30.0	mg/kg wet	16.00		77	40-140			
C9-C18 Aliphatics1	10.2	30.0	mg/kg wet	12.00		85	40-140			
Decane (C10)	1.1	1.0	mg/kg wet	2.000		53	40-140			
Docosane (C22)	1.4	1.0	mg/kg wet	2.000		72	40-140			
Dodecane (C12)	1.2	1.0	mg/kg wet	2.000		59	40-140			
Eicosane (C20)	1.4	1.0	mg/kg wet	2.000		70	40-140			
Hexacosane (C26)	1.2	1.0	mg/kg wet	2.000		58	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL92213 - 3546										
Hexadecane (C16)	1.3	1.0	mg/kg wet	2.000		64	40-140			
Nonadecane (C19)	1.4	1.0	mg/kg wet	2.000		70	40-140			
Nonane (C9)	0.8	1.0	mg/kg wet	2.000		41	30-140			
Octacosane (C28)	1.0	1.0	mg/kg wet	2.000		51	40-140			
Octadecane (C18)	1.4	1.0	mg/kg wet	2.000		69	40-140			
Tetracosane (C24)	1.4	1.0	mg/kg wet	2.000		68	40-140			
Tetradecane (C14)	1.2	1.0	mg/kg wet	2.000		61	40-140			
Triacontane (C30)	1.0	1.0	mg/kg wet	2.000		50	40-140			
Surrogate: 1-Chlorooctadecane	*1.39*		mg/kg wet	*2.000*		*69*	*40-140*			
LCS										
2-Methylnaphthalene	1.41	0.40	mg/kg wet	2.000		70	40-140			
Acenaphthene	1.41	0.80	mg/kg wet	2.000		71	40-140			
Acenaphthylene	1.45	0.40	mg/kg wet	2.000		73	40-140			
Anthracene	1.61	0.80	mg/kg wet	2.000		81	40-140			
Benzo(a)anthracene	1.68	0.80	mg/kg wet	2.000		84	40-140			
Benzo(a)pyrene	1.80	0.80	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.70	0.80	mg/kg wet	2.000		85	40-140			
Benzo(g,h,i)perylene	1.61	0.80	mg/kg wet	2.000		80	40-140			
Benzo(k)fluoranthene	1.73	0.80	mg/kg wet	2.000		86	40-140			
C11-C22 Unadjusted Aromatics1	33.0	30.0	mg/kg wet	34.00		97	40-140			
Chrysene	1.73	0.80	mg/kg wet	2.000		86	40-140			
Dibenzo(a,h)Anthracene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Fluoranthene	1.66	0.80	mg/kg wet	2.000		83	40-140			
Fluorene	1.51	0.80	mg/kg wet	2.000		76	40-140			
Indeno(1,2,3-cd)Pyrene	1.62	0.80	mg/kg wet	2.000		81	40-140			
Naphthalene	1.33	0.80	mg/kg wet	2.000		66	40-140			
Phenanthrene	1.68	0.80	mg/kg wet	2.000		84	40-140			
Pyrene	1.65	0.80	mg/kg wet	2.000		82	40-140			
Surrogate: 2-Bromonaphthalene	*44.2*		mg/L	*50.00*		*88*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.6*		mg/L	*50.00*		*83*	*40-140*			
Surrogate: O-Terphenyl	*1.82*		mg/kg wet	*2.000*		*91*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	10.7	30.0	mg/kg wet	16.00		67	40-140	14	25	
C9-C18 Aliphatics1	ND	30.0	mg/kg wet	12.00			40-140	200	25	B-, D+
Decane (C10)	1.0	1.0	mg/kg wet	2.000		49	40-140	8	25	
Docosane (C22)	1.3	1.0	mg/kg wet	2.000		64	40-140	12	25	
Dodecane (C12)	1.0	1.0	mg/kg wet	2.000		52	40-140	12	25	
Eicosane (C20)	1.2	1.0	mg/kg wet	2.000		60	40-140	15	25	
Hexacosane (C26)	1.9	1.0	mg/kg wet	2.000		97	40-140	51	25	D+
Hexadecane (C16)	1.1	1.0	mg/kg wet	2.000		57	40-140	12	25	
Nonadecane (C19)	1.2	1.0	mg/kg wet	2.000		60	40-140	15	25	
Nonane (C9)	0.8	1.0	mg/kg wet	2.000		39	30-140	4	25	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BL92213 - 3546										
Octacosane (C28)	2.0	1.0	mg/kg wet	2.000		100	40-140	66	25	D+
Octadecane (C18)	1.2	1.0	mg/kg wet	2.000		60	40-140	14	25	
Tetracosane (C24)	1.6	1.0	mg/kg wet	2.000		80	40-140	16	25	
Tetradecane (C14)	1.1	1.0	mg/kg wet	2.000		53	40-140	13	25	
Triacontane (C30)	2.1	1.0	mg/kg wet	2.000		103	40-140	69	25	D+
Surrogate: 1-Chlorooctadecane	*1.03*		mg/kg wet	*2.000*		*51*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.52	0.40	mg/kg wet	2.000		76	40-140	7	25	
Acenaphthene	1.52	0.80	mg/kg wet	2.000		76	40-140	8	25	
Acenaphthylene	1.56	0.40	mg/kg wet	2.000		78	40-140	7	25	
Anthracene	1.67	0.80	mg/kg wet	2.000		84	40-140	3	25	
Benzo(a)anthracene	1.68	0.80	mg/kg wet	2.000		84	40-140	0.2	25	
Benzo(a)pyrene	1.79	0.80	mg/kg wet	2.000		89	40-140	0.7	25	
Benzo(b)fluoranthene	1.68	0.80	mg/kg wet	2.000		84	40-140	0.9	25	
Benzo(g,h,i)perylene	1.60	0.80	mg/kg wet	2.000		80	40-140	0.7	25	
Benzo(k)fluoranthene	1.74	0.80	mg/kg wet	2.000		87	40-140	0.7	25	
C11-C22 Unadjusted Aromatics1	34.7	30.0	mg/kg wet	34.00		102	40-140	5	25	
Chrysene	1.69	0.80	mg/kg wet	2.000		85	40-140	2	25	
Dibenzo(a,h)Anthracene	1.61	0.40	mg/kg wet	2.000		81	40-140	1	25	
Fluoranthene	1.65	0.80	mg/kg wet	2.000		83	40-140	0.3	25	
Fluorene	1.61	0.80	mg/kg wet	2.000		80	40-140	6	25	
Indeno(1,2,3-cd)Pyrene	1.60	0.80	mg/kg wet	2.000		80	40-140	1	25	
Naphthalene	1.52	0.80	mg/kg wet	2.000		76	40-140	13	25	
Phenanthrene	1.73	0.80	mg/kg wet	2.000		86	40-140	3	25	
Pyrene	1.63	0.80	mg/kg wet	2.000		81	40-140	1	25	
Surrogate: 2-Bromonaphthalene	*44.6*		mg/L	*50.00*		*89*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*42.0*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: O-Terphenyl	*1.68*		mg/kg wet	*2.000*		*84*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 0912230

Notes and Definitions

U	Analyte included in the analysis, but not detected
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
S+	Surrogate recovery(ies) above upper control limit (S+).
S-	Surrogate recovery(ies) below lower control limit (S-).
R+	Standard Reference Material is biased high (R+).
M+	Matrix Spike recovery is above upper control limit (M+).
M-	Matrix Spike recovery is below lower control limit (M-).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
ESS Laboratory Work Order: 0912230

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: A-179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited)Potable and Non PotableWater, Solid and Hazardous Waste: 242405
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: JR Vinagro
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 09120230
Date Project Due: 12/25/09
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **5.1**
   Iced With: **Icepacks**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____
18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	1	MeOH
1	Yes	8 oz Soil Jar	1	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	8 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	8 oz Soil Jar	1	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	8 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	8 oz Soil Jar	1	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	8 oz Soil Jar	1	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	8 oz Soil Jar	1	NP
8	Yes	40 ml - VOA	1	MeOH
8	Yes	8 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	8 oz Soil Jar	1	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	8 oz Soil Jar	1	NP
11	Yes	40 ml - VOA	1	MeOH

Completed By: _____ Date/Time: 12/18/09
Reviewed By: Cma Date/Time: 12/18/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

09122230

CHAIN OF CUSTODY

ESS Lab # ~~09122230~~ 09122230

Turn Time ✓ Standard Other _____

Regulatory State: [MA] RI CT NH NJ NY ME Other _____

Is this project for any of the following: (please circle)
MA-MCP Navy USACE CT DEP Other _____

Reporting Limits - ~~Disposal~~

Electonic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Testing	
Contact Person: Dana Zewinski	Address: 2206 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.	Fax.	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082						
1	12/17/09	0900	Comp	Soil	TP-1 / 0.5-1.5'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
2		0905	Comp	Soil	TP-1 / 3-4'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
3		0920	Comp	Soil	TP-2 / 0.5-1.5'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
4		1010	Comp	Soil	TP-3 / 4-5'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
5		1110	Comp	Soil	TP-4 / 4-5'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
6		1125	Comp	Soil	TP-5 / 1-2'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
7		1130	Comp	Soil	TP-5 / 6-7'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
8		1200	Comp	Soil	TP-6 / 3-4'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
9		1245	Comp	Soil	TP-7 / 2-3'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						
10	✓	1315	Comp	Soil	TP-8 / 0.5-1.5'	1/6	1/1	G/V	8 oz/40ml	X	X	X	X						

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.1°C

Internal Use Only
[✓] Pickup
[ ] Technician ____

Preservative Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9-____

Sampled by: Dana Zewinski - J.R. Vinagro

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
8:10	12/15/09	12/15/09	12/16/09 10:45am
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

11 + TRIP Blank

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 19, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Former Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0472

Enclosed are results of analyses for samples received by the laboratory on July 16, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/19/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0472

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SP-1 (TP-2 A)	10G0472-01	Soil		SM 2540G	
				SM2580 A	
				SW-846 6010B	
				SW-846 7196A	
				SW-846 9045D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only Cr was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0472

Date Received: 7/16/2010

Field Sample #: SP-1
Sampled: 7/16/2010 09:20

Sample ID: 10G0472-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	16	0.54	mg/Kg dry	1		SW-846 6010B	7/16/10	7/19/10 12:04	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0472

Date Received: 7/16/2010

Field Sample #: SP-1
Sampled: 7/16/2010 09:20

Sample ID: 10G0472-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	0.30	0.17	mg/Kg dry	1		SW-846 7196A	7/16/10	7/19/10 13:00	AED
Oxidation/Reduction Potential	120		mV	1		SM2580 A	7/16/10	7/16/10 11:18	VAK
pH @23.4°C	8.4		pH Units	1		SW-846 9045D	7/16/10	7/16/10 11:18	AED
% Solids	95.4		% Wt	1		SM 2540G	7/16/10	7/19/10 11:38	FWD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0472-01 [SP-1]	B016398	07/16/10

SM2580 A

Lab Number [Field ID]	Batch	Initial [g]	Date
10G0472-01 [SP-1]	B016451	20.0	07/16/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0472-01 [SP-1]	B016394	0.974	50.0	07/16/10

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0472-01 [SP-1]	B016446	2.52	100	07/16/10

SW-846 9045D

Lab Number [Field ID]	Batch	Initial [g]	Date
10G0472-01 [SP-1]	B016464	20.0	07/16/10

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016394 - SW-846 3050B										
Blank (B016394-BLK1)				Prepared: 07/16/10 Analyzed: 07/19/10						
Chromium	ND	0.50	mg/Kg wet							
LCS (B016394-BS1)				Prepared: 07/16/10 Analyzed: 07/19/10						
Chromium	87.9	0.93	mg/Kg wet	75.3		117	78.8-120.7			
LCS Dup (B016394-BSD1)				Prepared: 07/16/10 Analyzed: 07/19/10						
Chromium	87.0	0.96	mg/Kg wet	77.0		113	78.8-120.7	1.08	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016398 - % Solids										
Duplicate (B016398-DUP5)		**Source: 10G0472-01**		Prepared: 07/16/10 Analyzed: 07/19/10						
% Solids	93.4		% Wt		95.4			2.12	20	
Batch B016446 - SW-846 7196A										
Blank (B016446-BLK1)				Prepared: 07/16/10 Analyzed: 07/19/10						
Hexavalent Chromium	ND	0.16	mg/Kg wet							
LCS (B016446-BS1)				Prepared: 07/16/10 Analyzed: 07/19/10						
Hexavalent Chromium	140	4.0	mg/Kg wet	132		106	80-120			
LCS Dup (B016446-BSD1)				Prepared: 07/16/10 Analyzed: 07/19/10						
Hexavalent Chromium	120	4.0	mg/Kg wet	132		87.6	80-120	18.5	35	

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Chromium	CT,NH,NY
SW-846 7196A in Soil	
Hexavalent Chromium	NY,CT,NH,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

10G0472

Company Name: Weston and Sampson
Telephone: 978 532-1900
Address:
Project #
Client PO#

Attention: George Mashas
Project Location: Lame Charron Value
Sampled By: Laura Yeller

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #: mshsg@wsp.com
Email: mccomab@wsp.com
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Chromium G	Total Chromium	CRP pod pH											# of Containers	** Preservation	***Container Code
																					1	I	A
																					1	H	A
																					1	H	A
01	SP-1	7/16/10	0920			S	u	X	X	X													

Dissolved Metals*
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yeller	7/16/10 0950
Received by: (signature)	Date/Time:
Alan Pienkowski	7/16/10 09:50
Relinquished by: (signature) 4.6°C	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☒ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: _____
Connecticut: _____
Other: _____

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS PRODUCT!!!

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Weston + Sampson RECEIVED BY: AP DATE: 7/16/10

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.6°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified SP Date 7/16/10 Time 10:00

8) Location where samples are stored: Wet Chem/18

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	3	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0472
Project Location:	Former Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0472-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B (X)	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 07/19/10

Soil Pre-characterization Data (June and July 2010)

CERTIFICATE OF ANALYSIS

Dana Zewinski
J.R. Vinagro Corporation
2208 Plainfield Pike
Johnston, RI 02919

RE: Chapman Testing (N/A)
ESS Laboratory Work Order Number: 1006325

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Laurel Stoddard
Date: 2010.06.28 16:03:31 -04'00'

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

SAMPLE RECEIPT

The following samples were received on June 21, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Lab Number	SampleName	Matrix	Analysis
1006325-01	WS-1	Soil	MA EPH04-1
1006325-02	WS-2	Soil	MA EPH04-1
1006325-03	WS-3	Soil	MA EPH04-1
1006325-04	WS-4	Soil	MA EPH04-1
1006325-05	WS-5	Soil	MA EPH04-1
1006325-06	WS-6	Soil	MA EPH04-1
1006325-07	WS-7	Soil	MA EPH04-1
1006325-08	WS-9	Soil	MA EPH04-1
1006325-09	WS-10	Soil	MA EPH04-1
1006325-10	WS-11	Soil	MA EPH04-1
1006325-11	Dup-1	Soil	MA EPH04-1

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:
1006325-01 through 1006325-11

Sample Matricies:	( ) Ground Water	(X) Soil/Sediment	( ) Drinking Water	( ) Other: _____	
MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
	8082 ( )	8021B ( )	EPH (X)	7000 S*** ( )	7196A ( )

As specified in MADEP Compendium of Analytical Methods (Check all that apply)

* List Release Tracking Number (RTN), if known.
** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method
*** S - SW - 846 Methods 7000 Series - List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? Yes (X) No* ( )

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? Yes (X) No* ( )

C Does the data included in the report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No* ( )

D ***VPH and EPH methods only:*** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes (X) No* ( )

A response to questions E and F below required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specific methods achieved? Yes (X) No* ( )

F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes (X) No* ( )

****All negative responses must be addressed in an attached Environmental Laboratory Case Narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: June 28, 2010

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.4)		1	06/24/10 15:56	CTF0164	CF02314
C19-C36 Aliphatics1	ND (31.4)		1	06/24/10 15:56	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (31.4)		1	06/24/10 23:58	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (31.4)			06/24/10 23:58		[CALC]
2-Methylnaphthalene	ND (0.42)		1	06/24/10 23:58	CTF0170	CF02314
Acenaphthene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Naphthalene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Phenanthrene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Acenaphthylene	ND (0.42)		1	06/24/10 23:58	CTF0170	CF02314
Anthracene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Benzo(a)anthracene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Benzo(a)pyrene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Chrysene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.42)		1	06/24/10 23:58	CTF0170	CF02314
Fluoranthene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Fluorene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314
Pyrene	ND (0.84)		1	06/24/10 23:58	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*96 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*94 %*		*40-140*
Surrogate: O-Terphenyl	*100 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.1)		1	06/24/10 16:47	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.1)		1	06/24/10 16:47	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**66.2** (33.1)		1	06/25/10 0:45	CTF0170	CF02314
C11-C22 Aromatics1,2	**47.5** (33.1)			06/25/10 0:45		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 0:45	CTF0170	CF02314
Acenaphthene	ND (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Naphthalene	ND (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Phenanthrene	**3.53** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 0:45	CTF0170	CF02314
Anthracene	ND (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Benzo(a)anthracene	**1.66** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Benzo(a)pyrene	**1.54** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Benzo(b)fluoranthene	**1.67** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Benzo(g,h,i)perylene	**0.95** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Chrysene	**1.56** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 0:45	CTF0170	CF02314
Fluoranthene	**3.55** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Fluorene	ND (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	**0.92** (0.88)		1	06/25/10 0:45	CTF0170	CF02314
Pyrene	**3.30** (0.88)		1	06/25/10 0:45	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*98 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*88 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*95 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 25.4
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.8)		1	06/24/10 17:39	CTF0164	CF02314
C19-C36 Aliphatics1	ND (32.8)		1	06/24/10 17:39	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (32.8)		1	06/25/10 1:32	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (32.8)			06/25/10 1:32		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 1:32	CTF0170	CF02314
Acenaphthene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Naphthalene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Phenanthrene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 1:32	CTF0170	CF02314
Anthracene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Benzo(a)anthracene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Benzo(a)pyrene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Chrysene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 1:32	CTF0170	CF02314
Fluoranthene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Fluorene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314
Pyrene	ND (0.87)		1	06/25/10 1:32	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*102 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*83 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*83 %*		*40-140*
Surrogate: O-Terphenyl	*93 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 25.7
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.0)		1	06/24/10 18:30	CTF0164	CF02314
C19-C36 Aliphatics1	ND (31.0)		1	06/24/10 18:30	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (31.0)		1	06/25/10 2:19	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (31.0)			06/25/10 2:19		[CALC]
2-Methylnaphthalene	ND (0.41)		1	06/25/10 2:19	CTF0170	CF02314
Acenaphthene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Naphthalene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Phenanthrene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Acenaphthylene	ND (0.41)		1	06/25/10 2:19	CTF0170	CF02314
Anthracene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Benzo(a)anthracene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Benzo(a)pyrene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Chrysene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.41)		1	06/25/10 2:19	CTF0170	CF02314
Fluoranthene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Fluorene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314
Pyrene	ND (0.83)		1	06/25/10 2:19	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*103 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*87 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*96 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.1)		1	06/24/10 19:21	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.1)		1	06/24/10 19:21	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (33.1)		1	06/25/10 3:05	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (33.1)			06/25/10 3:05		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 3:05	CTF0170	CF02314
Acenaphthene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Naphthalene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Phenanthrene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 3:05	CTF0170	CF02314
Anthracene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Benzo(a)anthracene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Benzo(a)pyrene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Chrysene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 3:05	CTF0170	CF02314
Fluoranthene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Fluorene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314
Pyrene	ND (0.88)		1	06/25/10 3:05	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*108 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*89 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*99 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.7)		1	06/24/10 20:12	CTF0164	CF02314
C19-C36 Aliphatics1	ND (31.7)		1	06/24/10 20:12	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**103** (31.7)		1	06/25/10 3:52	CTF0170	CF02314
C11-C22 Aromatics1,2	**59.9** (31.7)			06/25/10 3:52		[CALC]
2-Methylnaphthalene	**0.68** (0.42)		1	06/25/10 3:52	CTF0170	CF02314
Acenaphthene	ND (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Naphthalene	**4.28** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Phenanthrene	**5.53** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Acenaphthylene	ND (0.42)		1	06/25/10 3:52	CTF0170	CF02314
Anthracene	ND (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Benzo(a)anthracene	**3.38** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Benzo(a)pyrene	**3.76** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Benzo(b)fluoranthene	**4.21** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Benzo(g,h,i)perylene	**2.30** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Benzo(k)fluoranthene	**1.47** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Chrysene	**3.19** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Dibenzo(a,h)Anthracene	**0.52** (0.42)		1	06/25/10 3:52	CTF0170	CF02314
Fluoranthene	**6.47** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Fluorene	ND (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	**2.25** (0.84)		1	06/25/10 3:52	CTF0170	CF02314
Pyrene	**5.62** (0.84)		1	06/25/10 3:52	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*101 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*93 %*		*40-140*
Surrogate: O-Terphenyl	*98 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 25.5
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.0)		1	06/24/10 21:03	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.0)		1	06/24/10 21:03	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (33.0)		1	06/25/10 4:39	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (33.0)			06/25/10 4:39		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 4:39	CTF0170	CF02314
Acenaphthene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Naphthalene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Phenanthrene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 4:39	CTF0170	CF02314
Anthracene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Benzo(a)anthracene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Benzo(a)pyrene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Chrysene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 4:39	CTF0170	CF02314
Fluoranthene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Fluorene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314
Pyrene	ND (0.88)		1	06/25/10 4:39	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*105 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*90 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*89 %*		*40-140*
Surrogate: O-Terphenyl	*96 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 25
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.2)		1	06/24/10 21:54	CTF0164	CF02314
C19-C36 Aliphatics1	ND (31.2)		1	06/24/10 21:54	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (31.2)		1	06/25/10 8:33	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (31.2)			06/25/10 8:33		[CALC]
2-Methylnaphthalene	ND (0.42)		1	06/25/10 8:33	CTF0170	CF02314
Acenaphthene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Naphthalene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Phenanthrene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Acenaphthylene	ND (0.42)		1	06/25/10 8:33	CTF0170	CF02314
Anthracene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Benzo(a)anthracene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Benzo(a)pyrene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Chrysene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.42)		1	06/25/10 8:33	CTF0170	CF02314
Fluoranthene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Fluorene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314
Pyrene	ND (0.83)		1	06/25/10 8:33	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*102 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*87 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*97 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 25
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (32.3)		1	06/24/10 22:44	CTF0164	CF02314
C19-C36 Aliphatics1	ND (32.3)		1	06/24/10 22:44	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (32.3)		1	06/25/10 9:20	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (32.3)			06/25/10 9:20		[CALC]
2-Methylnaphthalene	ND (0.43)		1	06/25/10 9:20	CTF0170	CF02314
Acenaphthene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Naphthalene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Phenanthrene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Acenaphthylene	ND (0.43)		1	06/25/10 9:20	CTF0170	CF02314
Anthracene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Benzo(a)anthracene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Benzo(a)pyrene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Chrysene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.43)		1	06/25/10 9:20	CTF0170	CF02314
Fluoranthene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Fluorene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314
Pyrene	ND (0.86)		1	06/25/10 9:20	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*102 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*87 %*		*40-140*
Surrogate: O-Terphenyl	*90 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.2)		1	06/24/10 23:35	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.2)		1	06/24/10 23:35	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**65.2** (33.2)		1	06/25/10 10:07	CTF0170	CF02314
C11-C22 Aromatics1,2	**47.7** (33.2)			06/25/10 10:07		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 10:07	CTF0170	CF02314
Acenaphthene	ND (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Naphthalene	ND (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Phenanthrene	**2.17** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 10:07	CTF0170	CF02314
Anthracene	ND (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Benzo(a)anthracene	**1.87** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Benzo(a)pyrene	**1.68** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Benzo(b)fluoranthene	**1.83** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Benzo(g,h,i)perylene	**1.01** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Chrysene	**1.48** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 10:07	CTF0170	CF02314
Fluoranthene	**3.36** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Fluorene	ND (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	**1.08** (0.89)		1	06/25/10 10:07	CTF0170	CF02314
Pyrene	**2.97** (0.89)		1	06/25/10 10:07	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*102 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*91 %*		*40-140*
Surrogate: O-Terphenyl	*94 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Dup-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006325
ESS Laboratory Sample ID: 1006325-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.1)		1	06/25/10 0:26	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.1)		1	06/25/10 0:26	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (33.1)		1	06/25/10 10:54	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (33.1)			06/25/10 10:54		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 10:54	CTF0170	CF02314
Acenaphthene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Naphthalene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Phenanthrene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 10:54	CTF0170	CF02314
Anthracene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Benzo(a)anthracene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Benzo(a)pyrene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Chrysene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 10:54	CTF0170	CF02314
Fluoranthene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Fluorene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314
Pyrene	ND (0.88)		1	06/25/10 10:54	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*102 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*85 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*87 %*		*40-140*
Surrogate: O-Terphenyl	*94 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Blank										
C19-C36 Aliphatics1	ND	30.0	mg/kg wet							
C9-C18 Aliphatics1	ND	30.0	mg/kg wet							
Decane (C10)	ND	1.0	mg/kg wet							
Docosane (C22)	ND	1.0	mg/kg wet							
Dodecane (C12)	ND	1.0	mg/kg wet							
Eicosane (C20)	ND	1.0	mg/kg wet							
Hexacosane (C26)	ND	1.0	mg/kg wet							
Hexadecane (C16)	ND	1.0	mg/kg wet							
Nonadecane (C19)	ND	1.0	mg/kg wet							
Nonane (C9)	ND	1.0	mg/kg wet							
Octacosane (C28)	ND	1.0	mg/kg wet							
Octadecane (C18)	ND	1.0	mg/kg wet							
Tetracosane (C24)	ND	1.0	mg/kg wet							
Tetradecane (C14)	ND	1.0	mg/kg wet							
Triacontane (C30)	ND	1.0	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*2.02*		mg/kg wet	*2.000*		*101*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.40	mg/kg wet							
Acenaphthene	ND	0.80	mg/kg wet							
Acenaphthylene	ND	0.40	mg/kg wet							
Anthracene	ND	0.80	mg/kg wet							
Benzo(a)anthracene	ND	0.80	mg/kg wet							
Benzo(a)pyrene	ND	0.80	mg/kg wet							
Benzo(b)fluoranthene	ND	0.80	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.80	mg/kg wet							
Benzo(k)fluoranthene	ND	0.80	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	30.0	mg/kg wet							
Chrysene	ND	0.80	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.40	mg/kg wet							
Fluoranthene	ND	0.80	mg/kg wet							
Fluorene	ND	0.80	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.80	mg/kg wet							
Naphthalene	ND	0.80	mg/kg wet							
Phenanthrene	ND	0.80	mg/kg wet							
Pyrene	ND	0.80	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*44.7*		mg/L	*50.00*		*89*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*46.5*		mg/L	*50.00*		*93*	*40-140*			
Surrogate: O-Terphenyl	*1.98*		mg/kg wet	*2.000*		*99*	*40-140*			
LCS										
C19-C36 Aliphatics1	19.1	30.0	mg/kg wet	16.00		119	40-140			
C9-C18 Aliphatics1	12.5	30.0	mg/kg wet	12.00		104	40-140			
Decane (C10)	1.4	1.0	mg/kg wet	2.000		69	40-140			
Docosane (C22)	2.0	1.0	mg/kg wet	2.000		102	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Dodecane (C12)	1.5	1.0	mg/kg wet	2.000		77	40-140			
Eicosane (C20)	2.0	1.0	mg/kg wet	2.000		102	40-140			
Hexacosane (C26)	2.1	1.0	mg/kg wet	2.000		106	40-140			
Hexadecane (C16)	1.8	1.0	mg/kg wet	2.000		92	40-140			
Nonadecane (C19)	2.1	1.0	mg/kg wet	2.000		103	40-140			
Nonane (C9)	1.1	1.0	mg/kg wet	2.000		53	30-140			
Octacosane (C28)	2.1	1.0	mg/kg wet	2.000		107	40-140			
Octadecane (C18)	2.0	1.0	mg/kg wet	2.000		100	40-140			
Tetracosane (C24)	2.1	1.0	mg/kg wet	2.000		106	40-140			
Tetradecane (C14)	1.7	1.0	mg/kg wet	2.000		86	40-140			
Triacontane (C30)	2.1	1.0	mg/kg wet	2.000		106	40-140			
Surrogate: 1-Chlorooctadecane	*2.17*		mg/kg wet	*2.000*		*108*	*40-140*			
LCS										
2-Methylnaphthalene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Acenaphthene	1.55	0.80	mg/kg wet	2.000		78	40-140			
Acenaphthylene	1.62	0.40	mg/kg wet	2.000		81	40-140			
Anthracene	1.95	0.80	mg/kg wet	2.000		98	40-140			
Benzo(a)anthracene	1.89	0.80	mg/kg wet	2.000		94	40-140			
Benzo(a)pyrene	2.01	0.80	mg/kg wet	2.000		101	40-140			
Benzo(b)fluoranthene	1.71	0.80	mg/kg wet	2.000		86	40-140			
Benzo(g,h,i)perylene	1.98	0.80	mg/kg wet	2.000		99	40-140			
Benzo(k)fluoranthene	1.89	0.80	mg/kg wet	2.000		94	40-140			
C11-C22 Unadjusted Aromatics1	43.4	30.0	mg/kg wet	34.00		128	40-140			
Chrysene	1.91	0.80	mg/kg wet	2.000		96	40-140			
Dibenzo(a,h)Anthracene	1.74	0.40	mg/kg wet	2.000		87	40-140			
Fluoranthene	1.97	0.80	mg/kg wet	2.000		98	40-140			
Fluorene	1.68	0.80	mg/kg wet	2.000		84	40-140			
Indeno(1,2,3-cd)Pyrene	1.72	0.80	mg/kg wet	2.000		86	40-140			
Naphthalene	1.55	0.80	mg/kg wet	2.000		77	40-140			
Phenanthrene	1.93	0.80	mg/kg wet	2.000		97	40-140			
Pyrene	1.95	0.80	mg/kg wet	2.000		98	40-140			
Surrogate: 2-Bromonaphthalene	*40.2*		mg/L	*50.00*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.9*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: O-Terphenyl	*1.85*		mg/kg wet	*2.000*		*93*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	21.6	30.0	mg/kg wet	16.00		135	40-140	12	25	
C9-C18 Aliphatics1	13.4	30.0	mg/kg wet	12.00		112	40-140	7	25	
Decane (C10)	1.3	1.0	mg/kg wet	2.000		67	40-140	2	25	
Docosane (C22)	2.0	1.0	mg/kg wet	2.000		101	40-140	0.8	25	
Dodecane (C12)	1.5	1.0	mg/kg wet	2.000		76	40-140	1	25	
Eicosane (C20)	2.1	1.0	mg/kg wet	2.000		104	40-140	1	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Hexacosane (C26)	2.1	1.0	mg/kg wet	2.000		104	40-140	2	25	
Hexadecane (C16)	1.8	1.0	mg/kg wet	2.000		92	40-140	0.07	25	
Nonadecane (C19)	2.0	1.0	mg/kg wet	2.000		102	40-140	1	25	
Nonane (C9)	1.0	1.0	mg/kg wet	2.000		52	30-140	3	25	
Octacosane (C28)	2.1	1.0	mg/kg wet	2.000		104	40-140	2	25	
Octadecane (C18)	2.0	1.0	mg/kg wet	2.000		99	40-140	0.7	25	
Tetracosane (C24)	2.1	1.0	mg/kg wet	2.000		106	40-140	0.7	25	
Tetradecane (C14)	1.7	1.0	mg/kg wet	2.000		84	40-140	2	25	
Triacontane (C30)	2.1	1.0	mg/kg wet	2.000		103	40-140	3	25	
Surrogate: 1-Chlorooctadecane	*1.93*		mg/kg wet	*2.000*		*96*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.67	0.40	mg/kg wet	2.000		83	40-140	6	25	
Acenaphthene	1.67	0.80	mg/kg wet	2.000		83	40-140	7	25	
Acenaphthylene	1.75	0.40	mg/kg wet	2.000		88	40-140	8	25	
Anthracene	1.99	0.80	mg/kg wet	2.000		100	40-140	2	25	
Benzo(a)anthracene	1.69	0.80	mg/kg wet	2.000		84	40-140	11	25	
Benzo(a)pyrene	1.75	0.80	mg/kg wet	2.000		88	40-140	14	25	
Benzo(b)fluoranthene	1.51	0.80	mg/kg wet	2.000		75	40-140	13	25	
Benzo(g,h,i)perylene	1.71	0.80	mg/kg wet	2.000		85	40-140	15	25	
Benzo(k)fluoranthene	1.58	0.80	mg/kg wet	2.000		79	40-140	18	25	
C11-C22 Unadjusted Aromatics1	43.4	30.0	mg/kg wet	34.00		128	40-140	0.06	25	
Chrysene	1.72	0.80	mg/kg wet	2.000		86	40-140	11	25	
Dibenzo(a,h)Anthracene	1.49	0.40	mg/kg wet	2.000		74	40-140	15	25	
Fluoranthene	1.86	0.80	mg/kg wet	2.000		93	40-140	6	25	
Fluorene	1.84	0.80	mg/kg wet	2.000		92	40-140	9	25	
Indeno(1,2,3-cd)Pyrene	1.49	0.80	mg/kg wet	2.000		75	40-140	14	25	
Naphthalene	1.57	0.80	mg/kg wet	2.000		78	40-140	1	25	
Phenanthrene	2.03	0.80	mg/kg wet	2.000		101	40-140	5	25	
Pyrene	1.84	0.80	mg/kg wet	2.000		92	40-140	6	25	
Surrogate: 2-Bromonaphthalene	*37.8*		mg/L	*50.00*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*44.1*		mg/L	*50.00*		*88*	*40-140*			
Surrogate: O-Terphenyl	*1.71*		mg/kg wet	*2.000*		*85*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006325

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002
http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752
http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: JR Vinagro
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10060325
Date Project Due: 6/28/10
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: 5.9
   Iced With: Icepacks
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

CPH's only on 5th. turn.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	1	NP

Completed By: CLD Date/Time: 6/21/10
Reviewed By: [illegible] Date/Time: 6/21/10

1006325 1 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # ~~1006324~~

Turn Time ____ Standard Other ~~48 hr~~ TAT

Regulatory State: [MA] RI CT NH NJ NY ME Other____

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other____

Reporting Limits - ____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel:	Fax:	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH 8100				
01	6/21/10	0915	Comp	Soil	WS-1	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X				
02		0955			WS-2														
03		0925			WS-3														
04		1010			WS-4														
05		1030			WS-5														
06		1055			WS-6														
07		1115			WS-7														
08		1320			WS-9														
09		1215			WS-10														
10		1145			WS-11														

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix S-Soil SO-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.9°c

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservative Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: Laura Yellen

Comments: *Run matrix spike for WS-5 RCRA 8 Metals Only

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
Laura Yellen 6/21/10 1345	Ralph Banks 6/21/10 13:45	Ralph Banks 6/21/10 15:25	6/21/10 16:00
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By ticking MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

1006325 2 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # ~~100632Y~~

Turn Time ___ Standard Other 48 hr TAT

Reporting Limits - _____

Regulatory State: [MA] RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2206 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.	Fax.	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA-8-Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH-8100				
11	6/21/10	AM	Comp	Soil	DUP-1	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X				
~~12~~	~~6/21/10~~	~~AM~~			~~Trip Blank~~			~~V~~			~~X~~								

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temperature: 5.9°C

Internal Use Only
[ ] Pickup
[ ] Technician___

Preservative Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: Laura Yellen

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
Laura Yellen	6/21/10 1345 [illegible]	6/21/10 15:25 Ralph Kauke	6/21/10 16:00
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM/VHA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

CERTIFICATE OF ANALYSIS

Dana Zewinski
J.R. Vinagro Corporation
2208 Plainfield Pike
Johnston, RI 02919

RE: Chapman Testing (N/A)
ESS Laboratory Work Order Number: 1006343

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Laurel Stoddard
Date: 2010.06.28 16:53:05 -04'00'

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

SAMPLE RECEIPT

The following samples were received on June 21, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Lab Number	SampleName	Matrix	Analysis
1006343-01	WS-8	Soil	MA EPH04-1
1006343-02	WS-12	Soil	MA EPH04-1
1006343-03	WS-13	Soil	MA EPH04-1
1006343-04	WS-14	Soil	MA EPH04-1
1006343-05	WS-15	Soil	MA EPH04-1

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

PROJECT NARRATIVE

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

CF02314-MS2 **Matrix Spike recovery is below lower control limit (M-).**
Fluoranthene (36% @ 40-140%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:
1006343-01 through 1006343-05

Sample Matricies:	( ) Ground Water	(X) Soil/Sediment	( ) Drinking Water	( ) Other: _____	
MCP SW-846	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
	8082 ( )	8021B ( )	EPH (X)	7000 S*** ( )	7196A ( )

As specified in MADEP Compendium of Analytical Methods (Check all that apply)

* List Release Tracking Number (RTN), if known.
** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method
*** S - SW - 846 Methods 7000 Series - List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? Yes (X) No* ( )

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? Yes (X) No* ( )

C Does the data included in the report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No* ( )

D ***VPH and EPH methods only:*** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes (X) No* ( )

A response to questions E and F below required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specific methods achieved? Yes ( ) No* (X)

F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes (X) No* ( )

****All negative responses must be addressed in an attached Environmental Laboratory Case Narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: June 28, 2010

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006343
ESS Laboratory Sample ID: 1006343-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (35.6)		1	06/25/10 2:59	CTF0164	CF02314
C19-C36 Aliphatics1	ND (35.6)		1	06/25/10 2:59	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**42.6** (35.6)		1	06/25/10 11:41	CTF0170	CF02314
C11-C22 Aromatics1,2	**37.9** (35.6)			06/25/10 11:41		[CALC]
2-Methylnaphthalene	ND (0.47)		1	06/25/10 11:41	CTF0170	CF02314
Acenaphthene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Naphthalene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Phenanthrene	**1.51** (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Acenaphthylene	ND (0.47)		1	06/25/10 11:41	CTF0170	CF02314
Anthracene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Benzo(a)anthracene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Benzo(a)pyrene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Chrysene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.47)		1	06/25/10 11:41	CTF0170	CF02314
Fluoranthene	**1.76** (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Fluorene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.95)		1	06/25/10 11:41	CTF0170	CF02314
Pyrene	**1.46** (0.95)		1	06/25/10 11:41	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*105 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*91 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*91 %*		*40-140*
Surrogate: O-Terphenyl	*93 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 25
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006343
ESS Laboratory Sample ID: 1006343-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.0)		1	06/25/10 3:50	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.0)		1	06/25/10 3:50	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	ND (33.0)		1	06/25/10 12:27	CTF0170	CF02314
C11-C22 Aromatics1,2	ND (33.0)			06/25/10 12:27		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 12:27	CTF0170	CF02314
Acenaphthene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Naphthalene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Phenanthrene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Acenaphthylene	ND (0.44)		1	06/25/10 12:27	CTF0170	CF02314
Anthracene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Benzo(a)anthracene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Benzo(a)pyrene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Benzo(b)fluoranthene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Benzo(g,h,i)perylene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Chrysene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.44)		1	06/25/10 12:27	CTF0170	CF02314
Fluoranthene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Fluorene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314
Pyrene	ND (0.88)		1	06/25/10 12:27	CTF0170	CF02314

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*98 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*84 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*85 %*		*40-140*
Surrogate: O-Terphenyl	*88 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 25.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006343
ESS Laboratory Sample ID: 1006343-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (33.1)		1	06/25/10 4:40	CTF0164	CF02314
C19-C36 Aliphatics1	ND (33.1)		1	06/25/10 4:40	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**147** (33.1)		1	06/25/10 13:14	CTF0170	CF02314
C11-C22 Aromatics1,2	**100** (33.1)			06/25/10 13:14		[CALC]
2-Methylnaphthalene	ND (0.44)		1	06/25/10 13:14	CTF0170	CF02314
Acenaphthene	ND (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Naphthalene	ND (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Phenanthrene	**8.55** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Acenaphthylene	**0.56** (0.44)		1	06/25/10 13:14	CTF0170	CF02314
Anthracene	**2.45** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Benzo(a)anthracene	**4.18** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Benzo(a)pyrene	**3.21** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Benzo(b)fluoranthene	**3.98** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Benzo(g,h,i)perylene	**1.73** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Benzo(k)fluoranthene	**1.43** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Chrysene	**3.50** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Dibenzo(a,h)Anthracene	**0.52** (0.44)		1	06/25/10 13:14	CTF0170	CF02314
Fluoranthene	**8.14** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Fluorene	ND (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	**1.84** (0.88)		1	06/25/10 13:14	CTF0170	CF02314
Pyrene	**6.99** (0.88)		1	06/25/10 13:14	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*87 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*80 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*76 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 25.1
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006343
ESS Laboratory Sample ID: 1006343-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (31.8)		1	06/25/10 5:31	CTF0164	CF02314
C19-C36 Aliphatics1	ND (31.8)		1	06/25/10 5:31	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**226** (31.8)		1	06/25/10 14:01	CTF0170	CF02314
C11-C22 Aromatics1,2	**142** (31.8)			06/28/10 8:48		[CALC]
2-Methylnaphthalene	ND (0.42)		1	06/25/10 14:01	CTF0170	CF02314
Acenaphthene	ND (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Naphthalene	ND (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Phenanthrene	**15.9** (4.24)		5	06/28/10 8:48	CTF0170	CF02314
Acenaphthylene	**1.50** (0.42)		1	06/25/10 14:01	CTF0170	CF02314
Anthracene	**3.27** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Benzo(a)anthracene	**6.66** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Benzo(a)pyrene	**5.05** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Benzo(b)fluoranthene	**5.93** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Benzo(g,h,i)perylene	**2.57** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Benzo(k)fluoranthene	**1.75** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Chrysene	**4.77** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Dibenzo(a,h)Anthracene	**0.80** (0.42)		1	06/25/10 14:01	CTF0170	CF02314
Fluoranthene	**16.8** (4.24)		5	06/28/10 8:48	CTF0170	CF02314
Fluorene	**1.24** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	**2.63** (0.85)		1	06/25/10 14:01	CTF0170	CF02314
Pyrene	**14.4** (4.24)		5	06/28/10 8:48	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*100 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*83 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*80 %*		*40-140*
Surrogate: O-Terphenyl	*84 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 25.7
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1006343
ESS Laboratory Sample ID: 1006343-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/23/10 14:00

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (30.1)		1	06/25/10 6:22	CTF0164	CF02314
C19-C36 Aliphatics1	ND (30.1)		1	06/25/10 6:22	CTF0164	CF02314
C11-C22 Unadjusted Aromatics1	**75.1** (30.1)		1	06/25/10 14:48	CTF0170	CF02314
C11-C22 Aromatics1,2	**56.8** (30.1)			06/25/10 14:48		[CALC]
2-Methylnaphthalene	ND (0.40)		1	06/25/10 14:48	CTF0170	CF02314
Acenaphthene	ND (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Naphthalene	ND (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Phenanthrene	**2.16** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Acenaphthylene	ND (0.40)		1	06/25/10 14:48	CTF0170	CF02314
Anthracene	ND (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Benzo(a)anthracene	**1.97** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Benzo(a)pyrene	**1.63** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Benzo(b)fluoranthene	**1.74** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Benzo(g,h,i)perylene	**0.88** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Benzo(k)fluoranthene	ND (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Chrysene	**1.50** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Dibenzo(a,h)Anthracene	ND (0.40)		1	06/25/10 14:48	CTF0170	CF02314
Fluoranthene	**4.05** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Fluorene	ND (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Indeno(1,2,3-cd)Pyrene	**0.94** (0.80)		1	06/25/10 14:48	CTF0170	CF02314
Pyrene	**3.41** (0.80)		1	06/25/10 14:48	CTF0170	CF02314

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*110 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*86 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*96 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Blank										
C19-C36 Aliphatics1	ND	30.0	mg/kg wet							
C9-C18 Aliphatics1	ND	30.0	mg/kg wet							
Decane (C10)	ND	1.0	mg/kg wet							
Docosane (C22)	ND	1.0	mg/kg wet							
Dodecane (C12)	ND	1.0	mg/kg wet							
Eicosane (C20)	ND	1.0	mg/kg wet							
Hexacosane (C26)	ND	1.0	mg/kg wet							
Hexadecane (C16)	ND	1.0	mg/kg wet							
Nonadecane (C19)	ND	1.0	mg/kg wet							
Nonane (C9)	ND	1.0	mg/kg wet							
Octacosane (C28)	ND	1.0	mg/kg wet							
Octadecane (C18)	ND	1.0	mg/kg wet							
Tetracosane (C24)	ND	1.0	mg/kg wet							
Tetradecane (C14)	ND	1.0	mg/kg wet							
Triacontane (C30)	ND	1.0	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*2.02*		mg/kg wet	*2.000*		*101*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.40	mg/kg wet							
Acenaphthene	ND	0.80	mg/kg wet							
Acenaphthylene	ND	0.40	mg/kg wet							
Anthracene	ND	0.80	mg/kg wet							
Benzo(a)anthracene	ND	0.80	mg/kg wet							
Benzo(a)pyrene	ND	0.80	mg/kg wet							
Benzo(b)fluoranthene	ND	0.80	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.80	mg/kg wet							
Benzo(k)fluoranthene	ND	0.80	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	30.0	mg/kg wet							
Chrysene	ND	0.80	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.40	mg/kg wet							
Fluoranthene	ND	0.80	mg/kg wet							
Fluorene	ND	0.80	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.80	mg/kg wet							
Naphthalene	ND	0.80	mg/kg wet							
Phenanthrene	ND	0.80	mg/kg wet							
Pyrene	ND	0.80	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*44.7*		mg/L	*50.00*		*89*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*46.5*		mg/L	*50.00*		*93*	*40-140*			
Surrogate: O-Terphenyl	*1.98*		mg/kg wet	*2.000*		*99*	*40-140*			
LCS										
C19-C36 Aliphatics1	19.1	30.0	mg/kg wet	16.00		119	40-140			
C9-C18 Aliphatics1	12.5	30.0	mg/kg wet	12.00		104	40-140			
Decane (C10)	1.4	1.0	mg/kg wet	2.000		69	40-140			
Docosane (C22)	2.0	1.0	mg/kg wet	2.000		102	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Dodecane (C12)	1.5	1.0	mg/kg wet	2.000		77	40-140			
Eicosane (C20)	2.0	1.0	mg/kg wet	2.000		102	40-140			
Hexacosane (C26)	2.1	1.0	mg/kg wet	2.000		106	40-140			
Hexadecane (C16)	1.8	1.0	mg/kg wet	2.000		92	40-140			
Nonadecane (C19)	2.1	1.0	mg/kg wet	2.000		103	40-140			
Nonane (C9)	1.1	1.0	mg/kg wet	2.000		53	30-140			
Octacosane (C28)	2.1	1.0	mg/kg wet	2.000		107	40-140			
Octadecane (C18)	2.0	1.0	mg/kg wet	2.000		100	40-140			
Tetracosane (C24)	2.1	1.0	mg/kg wet	2.000		106	40-140			
Tetradecane (C14)	1.7	1.0	mg/kg wet	2.000		86	40-140			
Triacontane (C30)	2.1	1.0	mg/kg wet	2.000		106	40-140			
Surrogate: 1-Chlorooctadecane	*2.17*		mg/kg wet	*2.000*		*108*	*40-140*			
LCS										
2-Methylnaphthalene	1.56	0.40	mg/kg wet	2.000		78	40-140			
Acenaphthene	1.55	0.80	mg/kg wet	2.000		78	40-140			
Acenaphthylene	1.62	0.40	mg/kg wet	2.000		81	40-140			
Anthracene	1.95	0.80	mg/kg wet	2.000		98	40-140			
Benzo(a)anthracene	1.89	0.80	mg/kg wet	2.000		94	40-140			
Benzo(a)pyrene	2.01	0.80	mg/kg wet	2.000		101	40-140			
Benzo(b)fluoranthene	1.71	0.80	mg/kg wet	2.000		86	40-140			
Benzo(g,h,i)perylene	1.98	0.80	mg/kg wet	2.000		99	40-140			
Benzo(k)fluoranthene	1.89	0.80	mg/kg wet	2.000		94	40-140			
C11-C22 Unadjusted Aromatics1	43.4	30.0	mg/kg wet	34.00		128	40-140			
Chrysene	1.91	0.80	mg/kg wet	2.000		96	40-140			
Dibenzo(a,h)Anthracene	1.74	0.40	mg/kg wet	2.000		87	40-140			
Fluoranthene	1.97	0.80	mg/kg wet	2.000		98	40-140			
Fluorene	1.68	0.80	mg/kg wet	2.000		84	40-140			
Indeno(1,2,3-cd)Pyrene	1.72	0.80	mg/kg wet	2.000		86	40-140			
Naphthalene	1.55	0.80	mg/kg wet	2.000		77	40-140			
Phenanthrene	1.93	0.80	mg/kg wet	2.000		97	40-140			
Pyrene	1.95	0.80	mg/kg wet	2.000		98	40-140			
Surrogate: 2-Bromonaphthalene	*40.2*		mg/L	*50.00*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.9*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: O-Terphenyl	*1.85*		mg/kg wet	*2.000*		*93*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	21.6	30.0	mg/kg wet	16.00		135	40-140	12	25	
C9-C18 Aliphatics1	13.4	30.0	mg/kg wet	12.00		112	40-140	7	25	
Decane (C10)	1.3	1.0	mg/kg wet	2.000		67	40-140	2	25	
Docosane (C22)	2.0	1.0	mg/kg wet	2.000		101	40-140	0.8	25	
Dodecane (C12)	1.5	1.0	mg/kg wet	2.000		76	40-140	1	25	
Eicosane (C20)	2.1	1.0	mg/kg wet	2.000		104	40-140	1	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Hexacosane (C26)	2.1	1.0	mg/kg wet	2.000		104	40-140	2	25	
Hexadecane (C16)	1.8	1.0	mg/kg wet	2.000		92	40-140	0.07	25	
Nonadecane (C19)	2.0	1.0	mg/kg wet	2.000		102	40-140	1	25	
Nonane (C9)	1.0	1.0	mg/kg wet	2.000		52	30-140	3	25	
Octacosane (C28)	2.1	1.0	mg/kg wet	2.000		104	40-140	2	25	
Octadecane (C18)	2.0	1.0	mg/kg wet	2.000		99	40-140	0.7	25	
Tetracosane (C24)	2.1	1.0	mg/kg wet	2.000		106	40-140	0.7	25	
Tetradecane (C14)	1.7	1.0	mg/kg wet	2.000		84	40-140	2	25	
Triacontane (C30)	2.1	1.0	mg/kg wet	2.000		103	40-140	3	25	
Surrogate: 1-Chlorooctadecane	*1.93*		mg/kg wet	*2.000*		*96*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.67	0.40	mg/kg wet	2.000		83	40-140	6	25	
Acenaphthene	1.67	0.80	mg/kg wet	2.000		83	40-140	7	25	
Acenaphthylene	1.75	0.40	mg/kg wet	2.000		88	40-140	8	25	
Anthracene	1.99	0.80	mg/kg wet	2.000		100	40-140	2	25	
Benzo(a)anthracene	1.69	0.80	mg/kg wet	2.000		84	40-140	11	25	
Benzo(a)pyrene	1.75	0.80	mg/kg wet	2.000		88	40-140	14	25	
Benzo(b)fluoranthene	1.51	0.80	mg/kg wet	2.000		75	40-140	13	25	
Benzo(g,h,i)perylene	1.71	0.80	mg/kg wet	2.000		85	40-140	15	25	
Benzo(k)fluoranthene	1.58	0.80	mg/kg wet	2.000		79	40-140	18	25	
C11-C22 Unadjusted Aromatics1	43.4	30.0	mg/kg wet	34.00		128	40-140	0.06	25	
Chrysene	1.72	0.80	mg/kg wet	2.000		86	40-140	11	25	
Dibenzo(a,h)Anthracene	1.49	0.40	mg/kg wet	2.000		74	40-140	15	25	
Fluoranthene	1.86	0.80	mg/kg wet	2.000		93	40-140	6	25	
Fluorene	1.84	0.80	mg/kg wet	2.000		92	40-140	9	25	
Indeno(1,2,3-cd)Pyrene	1.49	0.80	mg/kg wet	2.000		75	40-140	14	25	
Naphthalene	1.57	0.80	mg/kg wet	2.000		78	40-140	1	25	
Phenanthrene	2.03	0.80	mg/kg wet	2.000		101	40-140	5	25	
Pyrene	1.84	0.80	mg/kg wet	2.000		92	40-140	6	25	
Surrogate: 2-Bromonaphthalene	*37.8*		mg/L	*50.00*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*44.1*		mg/L	*50.00*		*88*	*40-140*			
Surrogate: O-Terphenyl	*1.71*		mg/kg wet	*2.000*		*85*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Duplicate **Source: 1006343-05**										
C19-C36 Aliphatics1	ND	30.8	mg/kg dry		ND				50	
C9-C18 Aliphatics1	ND	30.8	mg/kg dry		ND				50	
Decane (C10)	ND	1.0	mg/kg dry		ND				200	
Docosane (C22)	ND	1.0	mg/kg dry		ND				200	
Dodecane (C12)	ND	1.0	mg/kg dry		ND				200	
Eicosane (C20)	ND	1.0	mg/kg dry		ND				200	
Hexacosane (C26)	ND	1.0	mg/kg dry		ND				200	
Hexadecane (C16)	ND	1.0	mg/kg dry		ND				200	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Nonadecane (C19)	ND	1.0	mg/kg dry		ND				200	
Nonane (C9)	ND	1.0	mg/kg dry		ND				200	
Octacosane (C28)	ND	1.0	mg/kg dry		ND				200	
Octadecane (C18)	ND	1.0	mg/kg dry		ND				200	
Tetracosane (C24)	ND	1.0	mg/kg dry		ND				200	
Tetradecane (C14)	ND	1.0	mg/kg dry		ND				200	
Triacontane (C30)	ND	1.0	mg/kg dry		ND				200	
Surrogate: 1-Chlorooctadecane	*2.01*		mg/kg dry	*2.054*		*98*	*40-140*			
Duplicate **Source: 1006343-05**										
2-Methylnaphthalene	ND	0.41	mg/kg dry		ND				50	
Acenaphthene	ND	0.82	mg/kg dry		ND				50	
Acenaphthylene	0.24	0.41	mg/kg dry		0.21			13	50	
Anthracene	0.81	0.82	mg/kg dry		0.71			13	50	
Benzo(a)anthracene	2.25	0.82	mg/kg dry		1.97			14	50	
Benzo(a)pyrene	1.81	0.82	mg/kg dry		1.63			11	50	
Benzo(b)fluoranthene	1.98	0.82	mg/kg dry		1.74			13	50	
Benzo(g,h,i)perylene	0.96	0.82	mg/kg dry		0.88			9	50	
Benzo(k)fluoranthene	0.73	0.82	mg/kg dry		0.71			3	50	
C11-C22 Unadjusted Aromatics1	84.7	30.8	mg/kg dry		75.1			12	50	
Chrysene	1.68	0.82	mg/kg dry		1.50			11	50	
Dibenzo(a,h)Anthracene	0.29	0.41	mg/kg dry		0.27			6	50	
Fluoranthene	4.60	0.82	mg/kg dry		4.05			13	50	
Fluorene	ND	0.82	mg/kg dry		ND				50	
Indeno(1,2,3-cd)Pyrene	1.01	0.82	mg/kg dry		0.94			8	50	
Naphthalene	ND	0.82	mg/kg dry		ND				50	
Phenanthrene	2.39	0.82	mg/kg dry		2.16			10	50	
Pyrene	3.87	0.82	mg/kg dry		3.41			12	50	
Surrogate: 2-Bromonaphthalene	*45.4*		mg/L	*50.00*		*91*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*45.2*		mg/L	*50.00*		*90*	*40-140*			
Surrogate: O-Terphenyl	*2.07*		mg/kg dry	*2.054*		*101*	*40-140*			
Matrix Spike **Source: 1006343-05**										
C19-C36 Aliphatics1	22.8	30.9	mg/kg dry	16.49	ND	138	40-140			
C9-C18 Aliphatics1	12.8	30.9	mg/kg dry	12.37	ND	103	40-140			
Decane (C10)	1.1	1.0	mg/kg dry	2.062	ND	52	40-140			
Docosane (C22)	2.1	1.0	mg/kg dry	2.062	ND	103	40-140			
Dodecane (C12)	1.3	1.0	mg/kg dry	2.062	ND	63	40-140			
Eicosane (C20)	2.1	1.0	mg/kg dry	2.062	ND	104	40-140			
Hexacosane (C26)	2.2	1.0	mg/kg dry	2.062	ND	108	40-140			
Hexadecane (C16)	1.8	1.0	mg/kg dry	2.062	ND	88	40-140			
Nonadecane (C19)	2.2	1.0	mg/kg dry	2.062	ND	105	40-140			
Nonane (C9)	0.8	1.0	mg/kg dry	2.062	ND	40	30-140			
Octacosane (C28)	2.2	1.0	mg/kg dry	2.062	ND	107	40-140			
Octadecane (C18)	2.1	1.0	mg/kg dry	2.062	ND	102	40-140			
Tetracosane (C24)	2.2	1.0	mg/kg dry	2.062	ND	109	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch CF02314 - 3546										
Tetradecane (C14)	1.5	1.0	mg/kg dry	2.062	ND	75	40-140			
Triacontane (C30)	2.2	1.0	mg/kg dry	2.062	ND	106	40-140			
Surrogate: 1-Chlorooctadecane	*2.42*		mg/kg dry	*2.062*		*117*	*40-140*			
Matrix Spike **Source: 1006343-05**										
2-Methylnaphthalene	1.44	0.41	mg/kg dry	2.062	ND	70	40-140			
Acenaphthene	1.54	0.82	mg/kg dry	2.062	ND	75	40-140			
Acenaphthylene	1.74	0.41	mg/kg dry	2.062	0.21	74	40-140			
Anthracene	2.58	0.82	mg/kg dry	2.062	0.71	90	40-140			
Benzo(a)anthracene	3.39	0.82	mg/kg dry	2.062	1.97	69	40-140			
Benzo(a)pyrene	3.18	0.82	mg/kg dry	2.062	1.63	75	40-140			
Benzo(b)fluoranthene	3.18	0.82	mg/kg dry	2.062	1.74	70	40-140			
Benzo(g,h,i)perylene	2.56	0.82	mg/kg dry	2.062	0.88	82	40-140			
Benzo(k)fluoranthene	2.23	0.82	mg/kg dry	2.062	0.71	74	40-140			
C11-C22 Unadjusted Aromatics1	89.2	30.9	mg/kg dry	35.05	75.1	40	40-140			
Chrysene	2.92	0.82	mg/kg dry	2.062	1.50	69	40-140			
Dibenzo(a,h)Anthracene	1.98	0.41	mg/kg dry	2.062	0.27	83	40-140			
Fluoranthene	4.79	0.82	mg/kg dry	2.062	4.05	36	40-140			M-
Fluorene	1.78	0.82	mg/kg dry	2.062	ND	86	40-140			
Indeno(1,2,3-cd)Pyrene	2.29	0.82	mg/kg dry	2.062	0.94	66	40-140			
Naphthalene	1.42	0.82	mg/kg dry	2.062	ND	69	40-140			
Phenanthrene	3.49	0.82	mg/kg dry	2.062	2.16	65	40-140			
Pyrene	4.36	0.82	mg/kg dry	2.062	3.41	46	40-140			
Surrogate: 2-Bromonaphthalene	*41.7*		mg/L	*50.00*		*83*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*44.4*		mg/L	*50.00*		*89*	*40-140*			
Surrogate: O-Terphenyl	*1.96*		mg/kg dry	*2.062*		*95*	*40-140*			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

Notes and Definitions

U	Analyte included in the analysis, but not detected
M-	Matrix Spike recovery is below lower control limit (M-).
D	Diluted.
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006343

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002
http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752
http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: JR Vinagro
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10060343
Date Project Due: 6/28/10
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: **4.8**
   Iced With: **Icepacks**
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____
18. Was there need to call project manager to discuss status? If yes, please explain. NO

Same samples as 1006342
relogged for EPH on a std turn. 6/1/10

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	8 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	1	NP
3	Yes	8 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	1	NP
5	Yes	8 oz Soil Jar	1	NP

Completed By: _____ Date/Time: 6/1/10
Reviewed By: _____ Date/Time: 060210

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1006343

Turn Time ✓ Standard Other 48 hr TAT

Reporting Limits - _____

Regulatory State: [MA] RI CT NH NJ NY ME Other _____

Is this project for any of the following: (please circle)
[MA-MCP]* Navy USACE CT DEP Other _____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.*	Fax:	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH 8100
01	6/21/10	1400	Comp	Soil	WS-8	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X
02	↓	1415		↓	WS-12	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓
03	↓	1435		↓	WS-13	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓
04	↓	1500		↓	WS-14	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓
05	↓	1450		↓	WS-15	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓
	↓	PM			TRIP Blank	↓	↓	↓	↓		X				

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid O-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 4.8°C

Internal Use Only
[ ] Pickup
[ ] Technician ____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by:

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
6/21/10 17:40	6/21/10 17:40	6/21/10 17:40	6/21/10 17:40
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM/VIA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

CERTIFICATE OF ANALYSIS

Dana Zewinski
J.R. Vinagro Corporation
2208 Plainfield Pike
Johnston, RI 02919

RE: Chapman Testing (N/A)
ESS Laboratory Work Order Number: 1006324

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Laurel Stoddard
Date: 2010.06.23 17:08:07 -04'00'

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

SAMPLE RECEIPT

The following samples were received on June 21, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Question F: All samples for EPH & Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1006324-01	WS-1	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-02	WS-2	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-03	WS-3	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-04	WS-4	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-05	WS-5	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-06	WS-6	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-07	WS-7	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-08	WS-9	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-09	WS-10	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-10	WS-11	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-11	DUP-1	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006324-12	Trip Blank	Solid	8260B Low

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

CF02127-DUP1	**Relative percent difference for duplicate is outside of criteria (D+).** Barium (38%), Lead (129%), Silver (200%)
CF02127-MS1	**Matrix Spike recovery is below lower control limit (M-).** Arsenic (66% @ 75-125%), Barium (43% @ 75-125%), Lead (-1020% @ 75-125%), Silver (69% @ 75-125%)
CF02129-MS1	**Matrix Spike recovery is above upper control limit (M+).** Mercury (129% @ 75-125%)
CF02129-MS2	**Matrix Spike recovery is above upper control limit (M+).** Mercury (134% @ 75-125%)
CF02129-MSD1	**Matrix Spike recovery is above upper control limit (M+).** Mercury (146% @ 75-125%)
CF02129-MSD2	**Matrix Spike recovery is above upper control limit (M+).** Mercury (134% @ 75-125%)

5035/8260B Volatile Organic Compounds / Low Level

CF02121-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).** Diethyl Ether (28%)

8270C Semi-Volatile Organic Compounds

1006324-11	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (23% @ 30-130%)
CF02123-BS1	**Blank Spike recovery is below lower control limit (B-).** N-Nitrosodimethylamine (25% @ 40-140%)
CF02123-BSD1	**Blank Spike recovery is below lower control limit (B-).** N-Nitrosodimethylamine (24% @ 40-140%)
CF02123-MS1	**Matrix Spike recovery is below lower control limit (M-).** bis(2-Ethylhexyl)phthalate (22% @ 40-140%), Butylbenzylphthalate (21% @ 40-140%), Di-n-octylphthalate (22% @ 40-140%), N-Nitrosodimethylamine (% @ 40-140%)
CF02123-MS1	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (26% @ 30-130%)
CF02123-MSD1	Matrix Spike recovery is below lower control limit (M-). 2-Fluorophenol (18% @ 30-130%), bis(2-Ethylhexyl)phthalate (20% @ 40-140%), Butylbenzylphthalate (20% @ 40-140%), Di-n-octylphthalate (20% @ 40-140%), N-Nitrosodimethylamine (% @ 40-140%)
CF02123-MSD1	**Relative percent difference for duplicate is outside of criteria (D+).** 1,3-Dichlorobenzene (32%), Aniline (34%)
CTF0145-CCV1	**Continuing Calibration recovery is above upper control limit (C+).** 2-Methylnaphthalene (137% @ 70-130%)
CTF0145-CCV1	**Continuing Calibration recovery is below lower control limit (C-).** N-Nitrosodimethylamine (46% @ 70-130%)

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:
1006324-01 through 1006324-12

Sample Matricies:	( ) Ground Water	(X) Soil/Sediment	( ) Drinking Water	( ) Other: _____	
MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
Methods Used	8270C (X)	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
	8082 (X)	8021B ( )	EPH (X)	7000 S*** ( )	7196A ( )

As specified in MADEP Compendium of Analytical Methods (Check all that apply)

* List Release Tracking Number (RTN), if known.
** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method
*** S - SW - 846 Methods 7000 Series - List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? Yes (X) No* ( )

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? Yes (X) No* ( )

C Does the data included in the report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No* ( )

D ***VPH and EPH methods only:*** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes (X) No* ( )

A response to questions E and F below required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specific methods achieved? Yes ( ) No* (X)

F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes ( ) No* (X)

****All negative responses must be addressed in an attached Environmental Laboratory Case Narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: June 23, 2010

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.5)	6010B	20	1	SVD	06/22/10 14:35	2.12	100	CF02127
Barium	**13.3** (2.5)	6010B	1000	1	SVD	06/22/10 14:35	2.12	100	CF02127
Cadmium	ND (0.50)	6010B	2	1	SVD	06/22/10 14:35	2.12	100	CF02127
Chromium	**5.6** (1.0)	6010B	30	1	SVD	06/22/10 14:35	2.12	100	CF02127
Lead	ND (5.0)	6010B	300	1	SVD	06/22/10 14:35	2.12	100	CF02127
Mercury	ND (0.030)	7471B	20	1	SVD	06/23/10 12:40	0.71	40	CF02129
Selenium	ND (5.0)	6010B	400	1	SVD	06/22/10 14:35	2.12	100	CF02127
Silver	ND (0.50)	6010B	100	1	SVD	06/22/10 14:35	2.12	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0040)	30	1	06/21/10 16:29	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0016)	0.005	1	06/21/10 16:29	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0040)	0.4	1	06/21/10 16:29	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0040)	3	1	06/21/10 16:29	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0040)	2	1	06/21/10 16:29	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0040)	1000	1	06/21/10 16:29	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0040)	10	1	06/21/10 16:29	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0040)	9	1	06/21/10 16:29	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0040)	10	1	06/21/10 16:29	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0040)	1	1	06/21/10 16:29	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0040)	500	1	06/21/10 16:29	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0040)	0.7	1	06/21/10 16:29	CTF0142	CF02121
1,4-Dioxane	ND (0.0806)	0.2	1	06/21/10 16:29	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121
2-Butanone	ND (0.0403)	4	1	06/21/10 16:29	CTF0142	CF02121
2-Chlorotoluene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
2-Hexanone	ND (0.0403)	100	1	06/21/10 16:29	CTF0142	CF02121
4-Chlorotoluene	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0403)	0.4	1	06/21/10 16:29	CTF0142	CF02121
Acetone	ND (0.0403)	6	1	06/21/10 16:29	CTF0142	CF02121
Benzene	ND (0.0040)	2	1	06/21/10 16:29	CTF0142	CF02121
Bromobenzene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
Bromochloromethane	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
Bromoform	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
Bromomethane	ND (0.0081)	0.5	1	06/21/10 16:29	CTF0142	CF02121
Carbon Disulfide	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0040)	5	1	06/21/10 16:29	CTF0142	CF02121
Chlorobenzene	ND (0.0040)	1	1	06/21/10 16:29	CTF0142	CF02121
Chloroethane	ND (0.0081)	100	1	06/21/10 16:29	CTF0142	CF02121
Chloroform	ND (0.0040)	0.3	1	06/21/10 16:29	CTF0142	CF02121
Chloromethane	ND (0.0081)	100	1	06/21/10 16:29	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0040)	0.3	1	06/21/10 16:29	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0040)	0.01	1	06/21/10 16:29	CTF0142	CF02121
Dibromochloromethane	ND (0.0016)	0.005	1	06/21/10 16:29	CTF0142	CF02121
Dibromomethane	ND (0.0040)	500	1	06/21/10 16:29	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0081)	1000	1	06/21/10 16:29	CTF0142	CF02121
Diethyl Ether	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
Di-isopropyl ether	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121
Ethylbenzene	ND (0.0040)	40	1	06/21/10 16:29	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0040)	6	1	06/21/10 16:29	CTF0142	CF02121
Isopropylbenzene	ND (0.0040)	1000	1	06/21/10 16:29	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0040)	0.1	1	06/21/10 16:29	CTF0142	CF02121
Methylene Chloride	ND (0.0201)	0.1	1	06/21/10 16:29	CTF0142	CF02121
Naphthalene	ND (0.0040)	4	1	06/21/10 16:29	CTF0142	CF02121
n-Butylbenzene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
n-Propylbenzene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
sec-Butylbenzene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
Styrene	ND (0.0040)	3	1	06/21/10 16:29	CTF0142	CF02121
tert-Butylbenzene	ND (0.0040)	100	1	06/21/10 16:29	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0040)		1	06/21/10 16:29	CTF0142	CF02121
Tetrachloroethene	ND (0.0040)	1	1	06/21/10 16:29	CTF0142	CF02121
Tetrahydrofuran	ND (0.0040)	500	1	06/21/10 16:29	CTF0142	CF02121
Toluene	ND (0.0040)	30	1	06/21/10 16:29	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0040)	1	1	06/21/10 16:29	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0040)	0.01	1	06/21/10 16:29	CTF0142	CF02121
Trichloroethene	ND (0.0040)	0.3	1	06/21/10 16:29	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0040)	1000	1	06/21/10 16:29	CTF0142	CF02121
Vinyl Chloride	ND (0.0081)	3	1	06/21/10 16:29	CTF0142	CF02121
Xylene O	ND (0.0040)	300	1	06/21/10 16:29	CTF0142	CF02121
Xylene P,M	ND (0.0081)	300	1	06/21/10 16:29	CTF0142	CF02121
Xylenes (Total)	ND (0.0121)	300	1	06/21/10 16:29		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1221	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1232	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1242	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1248	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1254	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1260	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1262	ND (0.0527)	2	1	06/21/10 22:31		CF02126
Aroclor 1268	ND (0.0527)	2	1	06/21/10 22:31		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (39.1)	1000	1	06/21/10 21:59	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*80 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 10:04	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.345)	2	1	06/21/10 22:57	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.345)	9	1	06/21/10 22:57	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.345)	1	1	06/21/10 22:57	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.345)	4	1	06/21/10 22:57	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.73)	3	1	06/21/10 22:57	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.345)	100	1	06/21/10 22:57	CTF0145	CF02123
2-Chloronaphthalene	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123
2-Chlorophenol	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2-Methylnaphthalene	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
2-Methylphenol	ND (0.345)	500	1	06/21/10 22:57	CTF0145	CF02123
2-Nitrophenol	ND (0.345)	100	1	06/21/10 22:57	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.691)	1	1	06/21/10 22:57	CTF0145	CF02123
3+4-Methylphenol	ND (0.691)	500	1	06/21/10 22:57	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.345)	100	1	06/21/10 22:57	CTF0145	CF02123
4-Chloroaniline	ND (0.691)	1	1	06/21/10 22:57	CTF0145	CF02123
4-Nitrophenol	ND (1.73)	100	1	06/21/10 22:57	CTF0145	CF02123
Acenaphthene	ND (0.345)	4	1	06/21/10 22:57	CTF0145	CF02123
Acenaphthylene	ND (0.345)	1	1	06/21/10 22:57	CTF0145	CF02123
Acetophenone	ND (0.691)	1000	1	06/21/10 22:57	CTF0145	CF02123
Aniline	ND (1.73)	1000	1	06/21/10 22:57	CTF0145	CF02123
Anthracene	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123
Azobenzene	ND (0.345)	50	1	06/21/10 22:57	CTF0145	CF02123
Benzo(a)anthracene	ND (0.345)	7	1	06/21/10 22:57	CTF0145	CF02123
Benzo(a)pyrene	ND (0.173)	2	1	06/21/10 22:57	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.345)	7	1	06/21/10 22:57	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.345)	70	1	06/21/10 22:57	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.345)	500	1	06/21/10 22:57	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.345)	200	1	06/21/10 22:57	CTF0145	CF02123
Butylbenzylphthalate	ND (0.345)	100	1	06/21/10 22:57	CTF0145	CF02123
Chrysene	ND (0.173)	70	1	06/21/10 22:57	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.173)	0.7	1	06/21/10 22:57	CTF0145	CF02123
Dibenzofuran	ND (0.345)	100	1	06/21/10 22:57	CTF0145	CF02123
Diethylphthalate	ND (0.345)	10	1	06/21/10 22:57	CTF0145	CF02123
Dimethylphthalate	ND (0.345)	30	1	06/21/10 22:57	CTF0145	CF02123
Di-n-butylphthalate	ND (0.345)	50	1	06/21/10 22:57	CTF0145	CF02123
Di-n-octylphthalate	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123
Fluoranthene	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123
Fluorene	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123
Hexachlorobenzene	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
Hexachlorobutadiene	ND (0.345)	6	1	06/21/10 22:57	CTF0145	CF02123
Hexachloroethane	ND (0.345)	0.7	1	06/21/10 22:57	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.345)	7	1	06/21/10 22:57	CTF0145	CF02123
Isophorone	ND (0.345)	100	1	06/21/10 22:57	CTF0145	CF02123
Naphthalene	ND (0.345)	4	1	06/21/10 22:57	CTF0145	CF02123
Nitrobenzene	ND (0.345)	500	1	06/21/10 22:57	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.345)	50	1	06/21/10 22:57	CTF0145	CF02123
Pentachlorophenol	ND (1.73)	3	1	06/21/10 22:57	CTF0145	CF02123
Phenanthrene	ND (0.345)	10	1	06/21/10 22:57	CTF0145	CF02123
Phenol	ND (0.345)	1	1	06/21/10 22:57	CTF0145	CF02123
Pyrene	ND (0.345)	1000	1	06/21/10 22:57	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*55 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-1
Date Sampled: 06/21/10 09:15
Percent Solids: 94
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*71 %*	*30-130*				
Surrogate: Phenol-d6		*58 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*76 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.5)	6010B	20	1	SVD	06/22/10 14:40	2.24	100	CF02127
Barium	**41.3** (2.5)	6010B	1000	1	SVD	06/22/10 14:40	2.24	100	CF02127
Cadmium	ND (0.50)	6010B	2	1	SVD	06/22/10 14:40	2.24	100	CF02127
Chromium	**9.3** (1.0)	6010B	30	1	SVD	06/22/10 14:40	2.24	100	CF02127
Lead	77.0 (24.8)	6010B	300	5	SVD	06/23/10 3:19	2.24	100	CF02127
Mercury	0.070 (0.033)	7471B	20	1	SVD	06/23/10 12:42	0.66	40	CF02129
Selenium	ND (5.0)	6010B	400	1	SVD	06/22/10 14:40	2.24	100	CF02127
Silver	ND (0.50)	6010B	100	1	SVD	06/22/10 14:40	2.24	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0044)	30	1	06/21/10 16:56	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0018)	0.005	1	06/21/10 16:56	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0044)	0.4	1	06/21/10 16:56	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0044)	3	1	06/21/10 16:56	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0044)	2	1	06/21/10 16:56	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0044)	1000	1	06/21/10 16:56	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0044)	10	1	06/21/10 16:56	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0044)	9	1	06/21/10 16:56	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0044)	10	1	06/21/10 16:56	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0044)	1	1	06/21/10 16:56	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0044)	500	1	06/21/10 16:56	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0044)	0.7	1	06/21/10 16:56	CTF0142	CF02121
1,4-Dioxane	ND (0.0882)	0.2	1	06/21/10 16:56	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121
2-Butanone	ND (0.0441)	4	1	06/21/10 16:56	CTF0142	CF02121
2-Chlorotoluene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
2-Hexanone	ND (0.0441)	100	1	06/21/10 16:56	CTF0142	CF02121
4-Chlorotoluene	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0441)	0.4	1	06/21/10 16:56	CTF0142	CF02121
Acetone	ND (0.0441)	6	1	06/21/10 16:56	CTF0142	CF02121
Benzene	ND (0.0044)	2	1	06/21/10 16:56	CTF0142	CF02121
Bromobenzene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
Bromochloromethane	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
Bromoform	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
Bromomethane	ND (0.0088)	0.5	1	06/21/10 16:56	CTF0142	CF02121
Carbon Disulfide	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0044)	5	1	06/21/10 16:56	CTF0142	CF02121
Chlorobenzene	ND (0.0044)	1	1	06/21/10 16:56	CTF0142	CF02121
Chloroethane	ND (0.0088)	100	1	06/21/10 16:56	CTF0142	CF02121
Chloroform	ND (0.0044)	0.3	1	06/21/10 16:56	CTF0142	CF02121
Chloromethane	ND (0.0088)	100	1	06/21/10 16:56	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0044)	0.3	1	06/21/10 16:56	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0044)	0.01	1	06/21/10 16:56	CTF0142	CF02121
Dibromochloromethane	ND (0.0018)	0.005	1	06/21/10 16:56	CTF0142	CF02121
Dibromomethane	ND (0.0044)	500	1	06/21/10 16:56	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0088)	1000	1	06/21/10 16:56	CTF0142	CF02121
Diethyl Ether	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
Di-isopropyl ether	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121
Ethylbenzene	ND (0.0044)	40	1	06/21/10 16:56	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0044)	6	1	06/21/10 16:56	CTF0142	CF02121
Isopropylbenzene	ND (0.0044)	1000	1	06/21/10 16:56	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0044)	0.1	1	06/21/10 16:56	CTF0142	CF02121
Methylene Chloride	ND (0.0220)	0.1	1	06/21/10 16:56	CTF0142	CF02121
Naphthalene	ND (0.0044)	4	1	06/21/10 16:56	CTF0142	CF02121
n-Butylbenzene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
n-Propylbenzene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
sec-Butylbenzene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
Styrene	ND (0.0044)	3	1	06/21/10 16:56	CTF0142	CF02121
tert-Butylbenzene	ND (0.0044)	100	1	06/21/10 16:56	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0044)		1	06/21/10 16:56	CTF0142	CF02121
Tetrachloroethene	ND (0.0044)	1	1	06/21/10 16:56	CTF0142	CF02121
Tetrahydrofuran	ND (0.0044)	500	1	06/21/10 16:56	CTF0142	CF02121
Toluene	ND (0.0044)	30	1	06/21/10 16:56	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 6.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0044)	1	1	06/21/10 16:56	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0044)	0.01	1	06/21/10 16:56	CTF0142	CF02121
Trichloroethene	ND (0.0044)	0.3	1	06/21/10 16:56	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0044)	1000	1	06/21/10 16:56	CTF0142	CF02121
Vinyl Chloride	ND (0.0088)	3	1	06/21/10 16:56	CTF0142	CF02121
Xylene O	ND (0.0044)	300	1	06/21/10 16:56	CTF0142	CF02121
Xylene P,M	ND (0.0088)	300	1	06/21/10 16:56	CTF0142	CF02121
Xylenes (Total)	ND (0.0132)	300	1	06/21/10 16:56		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*108 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*103 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1221	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1232	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1242	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1248	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1254	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1260	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1262	ND (0.0539)	2	1	06/21/10 22:50		CF02126
Aroclor 1268	ND (0.0539)	2	1	06/21/10 22:50		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*72 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 20.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	301 (40.7)	1000	1	06/22/10 3:11	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*113 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.036)	0.05	10	06/22/10 19:29	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.360)	2	1	06/21/10 23:27	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.360)	9	1	06/21/10 23:27	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.360)	1	1	06/21/10 23:27	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.360)	4	1	06/21/10 23:27	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.81)	3	1	06/21/10 23:27	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.360)	100	1	06/21/10 23:27	CTF0145	CF02123
2-Chloronaphthalene	ND (0.360)	1000	1	06/21/10 23:27	CTF0145	CF02123
2-Chlorophenol	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2-Methylnaphthalene	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
2-Methylphenol	ND (0.360)	500	1	06/21/10 23:27	CTF0145	CF02123
2-Nitrophenol	ND (0.360)	100	1	06/21/10 23:27	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.722)	1	1	06/21/10 23:27	CTF0145	CF02123
3+4-Methylphenol	ND (0.722)	500	1	06/21/10 23:27	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.360)	100	1	06/21/10 23:27	CTF0145	CF02123
4-Chloroaniline	ND (0.722)	1	1	06/21/10 23:27	CTF0145	CF02123
4-Nitrophenol	ND (1.81)	100	1	06/21/10 23:27	CTF0145	CF02123
Acenaphthene	ND (0.360)	4	1	06/21/10 23:27	CTF0145	CF02123
Acenaphthylene	ND (0.360)	1	1	06/21/10 23:27	CTF0145	CF02123
Acetophenone	ND (0.722)	1000	1	06/21/10 23:27	CTF0145	CF02123
Aniline	ND (1.81)	1000	1	06/21/10 23:27	CTF0145	CF02123
Anthracene	**0.751 (0.360)**	1000	1	06/21/10 23:27	CTF0145	CF02123
Azobenzene	ND (0.360)	50	1	06/21/10 23:27	CTF0145	CF02123
Benzo(a)anthracene	**2.60 (0.360)**	7	1	06/21/10 23:27	CTF0145	CF02123
Benzo(a)pyrene	**2.26 (0.181)**	2	1	06/21/10 23:27	CTF0145	CF02123
Benzo(b)fluoranthene	**1.97 (0.360)**	7	1	06/21/10 23:27	CTF0145	CF02123
Benzo(g,h,i)perylene	**1.12 (0.360)**	1000	1	06/21/10 23:27	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	**1.68** (0.360)	70	1	06/21/10 23:27	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.360)	500	1	06/21/10 23:27	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.360)	200	1	06/21/10 23:27	CTF0145	CF02123
Butylbenzylphthalate	ND (0.360)	100	1	06/21/10 23:27	CTF0145	CF02123
Chrysene	**2.30** (0.181)	70	1	06/21/10 23:27	CTF0145	CF02123
Dibenzo(a,h)Anthracene	**0.364** (0.181)	0.7	1	06/21/10 23:27	CTF0145	CF02123
Dibenzofuran	ND (0.360)	100	1	06/21/10 23:27	CTF0145	CF02123
Diethylphthalate	ND (0.360)	10	1	06/21/10 23:27	CTF0145	CF02123
Dimethylphthalate	ND (0.360)	30	1	06/21/10 23:27	CTF0145	CF02123
Di-n-butylphthalate	ND (0.360)	50	1	06/21/10 23:27	CTF0145	CF02123
Di-n-octylphthalate	ND (0.360)	1000	1	06/21/10 23:27	CTF0145	CF02123
Fluoranthene	**4.55** (0.360)	1000	1	06/21/10 23:27	CTF0145	CF02123
Fluorene	ND (0.360)	1000	1	06/21/10 23:27	CTF0145	CF02123
Hexachlorobenzene	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
Hexachlorobutadiene	ND (0.360)	6	1	06/21/10 23:27	CTF0145	CF02123
Hexachloroethane	ND (0.360)	0.7	1	06/21/10 23:27	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	**1.07** (0.360)	7	1	06/21/10 23:27	CTF0145	CF02123
Isophorone	ND (0.360)	100	1	06/21/10 23:27	CTF0145	CF02123
Naphthalene	ND (0.360)	4	1	06/21/10 23:27	CTF0145	CF02123
Nitrobenzene	ND (0.360)	500	1	06/21/10 23:27	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.360)	50	1	06/21/10 23:27	CTF0145	CF02123
Pentachlorophenol	ND (1.81)	3	1	06/21/10 23:27	CTF0145	CF02123
Phenanthrene	**3.30** (0.360)	10	1	06/21/10 23:27	CTF0145	CF02123
Phenol	ND (0.360)	1	1	06/21/10 23:27	CTF0145	CF02123
Pyrene	**3.78** (0.360)	1000	1	06/21/10 23:27	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*60 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
Surrogate: 2-Fluorophenol	*49 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-2
Date Sampled: 06/21/10 09:55
Percent Solids: 90
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*75 %*	*30-130*				
Surrogate: Phenol-d6		*63 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*72 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.2)	6010B	20	1	SVD	06/22/10 14:44	2.47	100	CF02127
Barium	**35.0** (2.2)	6010B	1000	1	SVD	06/22/10 14:44	2.47	100	CF02127
Cadmium	ND (0.45)	6010B	2	1	SVD	06/22/10 14:44	2.47	100	CF02127
Chromium	**8.1** (0.9)	6010B	30	1	SVD	06/22/10 14:44	2.47	100	CF02127
Lead	**16.8** (4.5)	6010B	300	1	SVD	06/22/10 14:44	2.47	100	CF02127
Mercury	**0.034** (0.033)	7471B	20	1	SVD	06/23/10 12:45	0.66	40	CF02129
Selenium	ND (4.5)	6010B	400	1	SVD	06/22/10 14:44	2.47	100	CF02127
Silver	ND (0.45)	6010B	100	1	SVD	06/22/10 14:44	2.47	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0038)	30	1	06/21/10 17:24	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0015)	0.005	1	06/21/10 17:24	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0038)	0.4	1	06/21/10 17:24	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0038)	3	1	06/21/10 17:24	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0038)	2	1	06/21/10 17:24	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0038)	1000	1	06/21/10 17:24	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0038)	10	1	06/21/10 17:24	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0038)	9	1	06/21/10 17:24	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0038)	10	1	06/21/10 17:24	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0038)	1	1	06/21/10 17:24	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0038)	500	1	06/21/10 17:24	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0038)	0.7	1	06/21/10 17:24	CTF0142	CF02121
1,4-Dioxane	ND (0.0751)	0.2	1	06/21/10 17:24	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121
2-Butanone	ND (0.0375)	4	1	06/21/10 17:24	CTF0142	CF02121
2-Chlorotoluene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
2-Hexanone	ND (0.0375)	100	1	06/21/10 17:24	CTF0142	CF02121
4-Chlorotoluene	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0375)	0.4	1	06/21/10 17:24	CTF0142	CF02121
Acetone	ND (0.0375)	6	1	06/21/10 17:24	CTF0142	CF02121
Benzene	ND (0.0038)	2	1	06/21/10 17:24	CTF0142	CF02121
Bromobenzene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
Bromochloromethane	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
Bromoform	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
Bromomethane	ND (0.0075)	0.5	1	06/21/10 17:24	CTF0142	CF02121
Carbon Disulfide	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0038)	5	1	06/21/10 17:24	CTF0142	CF02121
Chlorobenzene	ND (0.0038)	1	1	06/21/10 17:24	CTF0142	CF02121
Chloroethane	ND (0.0075)	100	1	06/21/10 17:24	CTF0142	CF02121
Chloroform	ND (0.0038)	0.3	1	06/21/10 17:24	CTF0142	CF02121
Chloromethane	ND (0.0075)	100	1	06/21/10 17:24	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0038)	0.3	1	06/21/10 17:24	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 17:24	CTF0142	CF02121
Dibromochloromethane	ND (0.0015)	0.005	1	06/21/10 17:24	CTF0142	CF02121
Dibromomethane	ND (0.0038)	500	1	06/21/10 17:24	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0075)	1000	1	06/21/10 17:24	CTF0142	CF02121
Diethyl Ether	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
Di-isopropyl ether	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121
Ethylbenzene	ND (0.0038)	40	1	06/21/10 17:24	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0038)	6	1	06/21/10 17:24	CTF0142	CF02121
Isopropylbenzene	ND (0.0038)	1000	1	06/21/10 17:24	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0038)	0.1	1	06/21/10 17:24	CTF0142	CF02121
Methylene Chloride	ND (0.0188)	0.1	1	06/21/10 17:24	CTF0142	CF02121
Naphthalene	ND (0.0038)	4	1	06/21/10 17:24	CTF0142	CF02121
n-Butylbenzene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
n-Propylbenzene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
sec-Butylbenzene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
Styrene	ND (0.0038)	3	1	06/21/10 17:24	CTF0142	CF02121
tert-Butylbenzene	ND (0.0038)	100	1	06/21/10 17:24	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0038)		1	06/21/10 17:24	CTF0142	CF02121
Tetrachloroethene	ND (0.0038)	1	1	06/21/10 17:24	CTF0142	CF02121
Tetrahydrofuran	ND (0.0038)	500	1	06/21/10 17:24	CTF0142	CF02121
Toluene	ND (0.0038)	30	1	06/21/10 17:24	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0038)	1	1	06/21/10 17:24	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 17:24	CTF0142	CF02121
Trichloroethene	ND (0.0038)	0.3	1	06/21/10 17:24	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0038)	1000	1	06/21/10 17:24	CTF0142	CF02121
Vinyl Chloride	ND (0.0075)	3	1	06/21/10 17:24	CTF0142	CF02121
Xylene O	ND (0.0038)	300	1	06/21/10 17:24	CTF0142	CF02121
Xylene P,M	ND (0.0075)	300	1	06/21/10 17:24	CTF0142	CF02121
Xylenes (Total)	ND (0.0113)	300	1	06/21/10 17:24		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*109 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*97 %*		*70-130*
Surrogate: Dibromofluoromethane	*105 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1221	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1232	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1242	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1248	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1254	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1260	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1262	ND (0.0539)	2	1	06/21/10 23:09		CF02126
Aroclor 1268	ND (0.0539)	2	1	06/21/10 23:09		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*89 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (40.8)	1000	1	06/21/10 22:34	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*90 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 10:49	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.365)	2	1	06/21/10 23:58	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.365)	9	1	06/21/10 23:58	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.365)	1	1	06/21/10 23:58	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.365)	4	1	06/21/10 23:58	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.83)	3	1	06/21/10 23:58	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.365)	100	1	06/21/10 23:58	CTF0145	CF02123
2-Chloronaphthalene	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123
2-Chlorophenol	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2-Methylnaphthalene	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
2-Methylphenol	ND (0.365)	500	1	06/21/10 23:58	CTF0145	CF02123
2-Nitrophenol	ND (0.365)	100	1	06/21/10 23:58	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.731)	1	1	06/21/10 23:58	CTF0145	CF02123
3+4-Methylphenol	ND (0.731)	500	1	06/21/10 23:58	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.365)	100	1	06/21/10 23:58	CTF0145	CF02123
4-Chloroaniline	ND (0.731)	1	1	06/21/10 23:58	CTF0145	CF02123
4-Nitrophenol	ND (1.83)	100	1	06/21/10 23:58	CTF0145	CF02123
Acenaphthene	ND (0.365)	4	1	06/21/10 23:58	CTF0145	CF02123
Acenaphthylene	ND (0.365)	1	1	06/21/10 23:58	CTF0145	CF02123
Acetophenone	ND (0.731)	1000	1	06/21/10 23:58	CTF0145	CF02123
Aniline	ND (1.83)	1000	1	06/21/10 23:58	CTF0145	CF02123
Anthracene	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123
Azobenzene	ND (0.365)	50	1	06/21/10 23:58	CTF0145	CF02123
Benzo(a)anthracene	ND (0.365)	7	1	06/21/10 23:58	CTF0145	CF02123
Benzo(a)pyrene	ND (0.183)	2	1	06/21/10 23:58	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.365)	7	1	06/21/10 23:58	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.365)	70	1	06/21/10 23:58	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.365)	500	1	06/21/10 23:58	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.365)	200	1	06/21/10 23:58	CTF0145	CF02123
Butylbenzylphthalate	ND (0.365)	100	1	06/21/10 23:58	CTF0145	CF02123
Chrysene	ND (0.183)	70	1	06/21/10 23:58	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.183)	0.7	1	06/21/10 23:58	CTF0145	CF02123
Dibenzofuran	ND (0.365)	100	1	06/21/10 23:58	CTF0145	CF02123
Diethylphthalate	ND (0.365)	10	1	06/21/10 23:58	CTF0145	CF02123
Dimethylphthalate	ND (0.365)	30	1	06/21/10 23:58	CTF0145	CF02123
Di-n-butylphthalate	ND (0.365)	50	1	06/21/10 23:58	CTF0145	CF02123
Di-n-octylphthalate	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123
Fluoranthene	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123
Fluorene	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123
Hexachlorobenzene	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
Hexachlorobutadiene	ND (0.365)	6	1	06/21/10 23:58	CTF0145	CF02123
Hexachloroethane	ND (0.365)	0.7	1	06/21/10 23:58	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.365)	7	1	06/21/10 23:58	CTF0145	CF02123
Isophorone	ND (0.365)	100	1	06/21/10 23:58	CTF0145	CF02123
Naphthalene	ND (0.365)	4	1	06/21/10 23:58	CTF0145	CF02123
Nitrobenzene	ND (0.365)	500	1	06/21/10 23:58	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.365)	50	1	06/21/10 23:58	CTF0145	CF02123
Pentachlorophenol	ND (1.83)	3	1	06/21/10 23:58	CTF0145	CF02123
Phenanthrene	ND (0.365)	10	1	06/21/10 23:58	CTF0145	CF02123
Phenol	ND (0.365)	1	1	06/21/10 23:58	CTF0145	CF02123
Pyrene	ND (0.365)	1000	1	06/21/10 23:58	CTF0145	CF02123

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*55 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*42 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-3
Date Sampled: 06/21/10 09:25
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*67 %*	*30-130*				
Surrogate: Phenol-d6		*54 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*76 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.5)	6010B	20	1	SVD	06/22/10 14:49	2.12	100	CF02127
Barium	**34.7** (2.5)	6010B	1000	1	SVD	06/22/10 14:49	2.12	100	CF02127
Cadmium	ND (0.50)	6010B	2	1	SVD	06/22/10 14:49	2.12	100	CF02127
Chromium	**8.3** (1.0)	6010B	30	1	SVD	06/22/10 14:49	2.12	100	CF02127
Lead	**5.4** (5.0)	6010B	300	1	SVD	06/22/10 14:49	2.12	100	CF02127
Mercury	ND (0.035)	7471B	20	1	SVD	06/23/10 12:47	0.6	40	CF02129
Selenium	ND (5.0)	6010B	400	1	SVD	06/22/10 14:49	2.12	100	CF02127
Silver	ND (0.50)	6010B	100	1	SVD	06/22/10 14:49	2.12	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0038)	30	1	06/21/10 17:52	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0015)	0.005	1	06/21/10 17:52	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0038)	0.4	1	06/21/10 17:52	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0038)	3	1	06/21/10 17:52	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0038)	2	1	06/21/10 17:52	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0038)	1000	1	06/21/10 17:52	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0038)	10	1	06/21/10 17:52	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0038)	9	1	06/21/10 17:52	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0038)	10	1	06/21/10 17:52	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0038)	1	1	06/21/10 17:52	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0038)	500	1	06/21/10 17:52	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0038)	0.7	1	06/21/10 17:52	CTF0142	CF02121
1,4-Dioxane	ND (0.0760)	0.2	1	06/21/10 17:52	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121
2-Butanone	ND (0.0380)	4	1	06/21/10 17:52	CTF0142	CF02121
2-Chlorotoluene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
2-Hexanone	ND (0.0380)	100	1	06/21/10 17:52	CTF0142	CF02121
4-Chlorotoluene	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0380)	0.4	1	06/21/10 17:52	CTF0142	CF02121
Acetone	ND (0.0380)	6	1	06/21/10 17:52	CTF0142	CF02121
Benzene	ND (0.0038)	2	1	06/21/10 17:52	CTF0142	CF02121
Bromobenzene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
Bromochloromethane	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
Bromoform	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
Bromomethane	ND (0.0076)	0.5	1	06/21/10 17:52	CTF0142	CF02121
Carbon Disulfide	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0038)	5	1	06/21/10 17:52	CTF0142	CF02121
Chlorobenzene	ND (0.0038)	1	1	06/21/10 17:52	CTF0142	CF02121
Chloroethane	ND (0.0076)	100	1	06/21/10 17:52	CTF0142	CF02121
Chloroform	ND (0.0038)	0.3	1	06/21/10 17:52	CTF0142	CF02121
Chloromethane	ND (0.0076)	100	1	06/21/10 17:52	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0038)	0.3	1	06/21/10 17:52	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 17:52	CTF0142	CF02121
Dibromochloromethane	ND (0.0015)	0.005	1	06/21/10 17:52	CTF0142	CF02121
Dibromomethane	ND (0.0038)	500	1	06/21/10 17:52	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0076)	1000	1	06/21/10 17:52	CTF0142	CF02121
Diethyl Ether	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
Di-isopropyl ether	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121
Ethylbenzene	ND (0.0038)	40	1	06/21/10 17:52	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0038)	6	1	06/21/10 17:52	CTF0142	CF02121
Isopropylbenzene	ND (0.0038)	1000	1	06/21/10 17:52	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0038)	0.1	1	06/21/10 17:52	CTF0142	CF02121
Methylene Chloride	ND (0.0190)	0.1	1	06/21/10 17:52	CTF0142	CF02121
Naphthalene	ND (0.0038)	4	1	06/21/10 17:52	CTF0142	CF02121
n-Butylbenzene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
n-Propylbenzene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
sec-Butylbenzene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
Styrene	ND (0.0038)	3	1	06/21/10 17:52	CTF0142	CF02121
tert-Butylbenzene	ND (0.0038)	100	1	06/21/10 17:52	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0038)		1	06/21/10 17:52	CTF0142	CF02121
Tetrachloroethene	ND (0.0038)	1	1	06/21/10 17:52	CTF0142	CF02121
Tetrahydrofuran	ND (0.0038)	500	1	06/21/10 17:52	CTF0142	CF02121
Toluene	ND (0.0038)	30	1	06/21/10 17:52	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0038)	1	1	06/21/10 17:52	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 17:52	CTF0142	CF02121
Trichloroethene	ND (0.0038)	0.3	1	06/21/10 17:52	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0038)	1000	1	06/21/10 17:52	CTF0142	CF02121
Vinyl Chloride	ND (0.0076)	3	1	06/21/10 17:52	CTF0142	CF02121
Xylene O	ND (0.0038)	300	1	06/21/10 17:52	CTF0142	CF02121
Xylene P,M	ND (0.0076)	300	1	06/21/10 17:52	CTF0142	CF02121
Xylenes (Total)	ND (0.0114)	300	1	06/21/10 17:52		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*107 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*104 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 20.5
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1221	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1232	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1242	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1248	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1254	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1260	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1262	ND (0.0519)	2	1	06/21/10 23:29		CF02126
Aroclor 1268	ND (0.0519)	2	1	06/21/10 23:29		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*72 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 20
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (39.9)	1000	1	06/21/10 23:09	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 11:34	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.336)	2	1	06/22/10 0:28	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.336)	9	1	06/22/10 0:28	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.336)	1	1	06/22/10 0:28	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.336)	4	1	06/22/10 0:28	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.69)	3	1	06/22/10 0:28	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.336)	100	1	06/22/10 0:28	CTF0145	CF02123
2-Chloronaphthalene	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123
2-Chlorophenol	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2-Methylnaphthalene	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
2-Methylphenol	ND (0.336)	500	1	06/22/10 0:28	CTF0145	CF02123
2-Nitrophenol	ND (0.336)	100	1	06/22/10 0:28	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.674)	1	1	06/22/10 0:28	CTF0145	CF02123
3+4-Methylphenol	ND (0.674)	500	1	06/22/10 0:28	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.336)	100	1	06/22/10 0:28	CTF0145	CF02123
4-Chloroaniline	ND (0.674)	1	1	06/22/10 0:28	CTF0145	CF02123
4-Nitrophenol	ND (1.69)	100	1	06/22/10 0:28	CTF0145	CF02123
Acenaphthene	ND (0.336)	4	1	06/22/10 0:28	CTF0145	CF02123
Acenaphthylene	ND (0.336)	1	1	06/22/10 0:28	CTF0145	CF02123
Acetophenone	ND (0.674)	1000	1	06/22/10 0:28	CTF0145	CF02123
Aniline	ND (1.69)	1000	1	06/22/10 0:28	CTF0145	CF02123
Anthracene	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123
Azobenzene	ND (0.336)	50	1	06/22/10 0:28	CTF0145	CF02123
Benzo(a)anthracene	ND (0.336)	7	1	06/22/10 0:28	CTF0145	CF02123
Benzo(a)pyrene	ND (0.169)	2	1	06/22/10 0:28	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.336)	7	1	06/22/10 0:28	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.336)	70	1	06/22/10 0:28	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.336)	500	1	06/22/10 0:28	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.336)	200	1	06/22/10 0:28	CTF0145	CF02123
Butylbenzylphthalate	ND (0.336)	100	1	06/22/10 0:28	CTF0145	CF02123
Chrysene	ND (0.169)	70	1	06/22/10 0:28	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.169)	0.7	1	06/22/10 0:28	CTF0145	CF02123
Dibenzofuran	ND (0.336)	100	1	06/22/10 0:28	CTF0145	CF02123
Diethylphthalate	ND (0.336)	10	1	06/22/10 0:28	CTF0145	CF02123
Dimethylphthalate	ND (0.336)	30	1	06/22/10 0:28	CTF0145	CF02123
Di-n-butylphthalate	ND (0.336)	50	1	06/22/10 0:28	CTF0145	CF02123
Di-n-octylphthalate	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123
Fluoranthene	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123
Fluorene	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123
Hexachlorobenzene	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
Hexachlorobutadiene	ND (0.336)	6	1	06/22/10 0:28	CTF0145	CF02123
Hexachloroethane	ND (0.336)	0.7	1	06/22/10 0:28	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.336)	7	1	06/22/10 0:28	CTF0145	CF02123
Isophorone	ND (0.336)	100	1	06/22/10 0:28	CTF0145	CF02123
Naphthalene	ND (0.336)	4	1	06/22/10 0:28	CTF0145	CF02123
Nitrobenzene	ND (0.336)	500	1	06/22/10 0:28	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.336)	50	1	06/22/10 0:28	CTF0145	CF02123
Pentachlorophenol	ND (1.69)	3	1	06/22/10 0:28	CTF0145	CF02123
Phenanthrene	ND (0.336)	10	1	06/22/10 0:28	CTF0145	CF02123
Phenol	ND (0.336)	1	1	06/22/10 0:28	CTF0145	CF02123
Pyrene	ND (0.336)	1000	1	06/22/10 0:28	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*53 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*51 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*42 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-4
Date Sampled: 06/21/10 10:10
Percent Solids: 94
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*68 %*	*30-130*				
Surrogate: Phenol-d6		*56 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*77 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	**5.8** (2.5)	6010B	20	1	SVD	06/22/10 15:02	2.2	100	CF02127
Barium	**40.5** (2.5)	6010B	1000	1	SVD	06/22/10 15:02	2.2	100	CF02127
Cadmium	ND (0.51)	6010B	2	1	SVD	06/22/10 15:02	2.2	100	CF02127
Chromium	**9.1** (1.0)	6010B	30	1	SVD	06/22/10 15:02	2.2	100	CF02127
Lead	**362** (50.5)	6010B	300	10	SVD	06/23/10 3:23	2.2	100	CF02127
Mercury	**0.067** (0.030)	7471B	20	1	SVD	06/23/10 12:50	0.74	40	CF02129
Selenium	ND (5.1)	6010B	400	1	SVD	06/22/10 15:02	2.2	100	CF02127
Silver	**3.39** (0.51)	6010B	100	1	SVD	06/22/10 15:02	2.2	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 7.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0038)	30	1	06/21/10 18:20	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0015)	0.005	1	06/21/10 18:20	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0038)	0.4	1	06/21/10 18:20	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0038)	3	1	06/21/10 18:20	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0038)	2	1	06/21/10 18:20	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0038)	1000	1	06/21/10 18:20	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0038)	10	1	06/21/10 18:20	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0038)	9	1	06/21/10 18:20	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0038)	10	1	06/21/10 18:20	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0038)	1	1	06/21/10 18:20	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0038)	500	1	06/21/10 18:20	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0038)	0.7	1	06/21/10 18:20	CTF0142	CF02121
1,4-Dioxane	ND (0.0761)	0.2	1	06/21/10 18:20	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121
2-Butanone	ND (0.0381)	4	1	06/21/10 18:20	CTF0142	CF02121
2-Chlorotoluene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
2-Hexanone	ND (0.0381)	100	1	06/21/10 18:20	CTF0142	CF02121
4-Chlorotoluene	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0381)	0.4	1	06/21/10 18:20	CTF0142	CF02121
Acetone	ND (0.0381)	6	1	06/21/10 18:20	CTF0142	CF02121
Benzene	ND (0.0038)	2	1	06/21/10 18:20	CTF0142	CF02121
Bromobenzene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
Bromochloromethane	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 7.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
Bromoform	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
Bromomethane	ND (0.0076)	0.5	1	06/21/10 18:20	CTF0142	CF02121
Carbon Disulfide	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0038)	5	1	06/21/10 18:20	CTF0142	CF02121
Chlorobenzene	ND (0.0038)	1	1	06/21/10 18:20	CTF0142	CF02121
Chloroethane	ND (0.0076)	100	1	06/21/10 18:20	CTF0142	CF02121
Chloroform	ND (0.0038)	0.3	1	06/21/10 18:20	CTF0142	CF02121
Chloromethane	ND (0.0076)	100	1	06/21/10 18:20	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0038)	0.3	1	06/21/10 18:20	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 18:20	CTF0142	CF02121
Dibromochloromethane	ND (0.0015)	0.005	1	06/21/10 18:20	CTF0142	CF02121
Dibromomethane	ND (0.0038)	500	1	06/21/10 18:20	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0076)	1000	1	06/21/10 18:20	CTF0142	CF02121
Diethyl Ether	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
Di-isopropyl ether	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121
Ethylbenzene	ND (0.0038)	40	1	06/21/10 18:20	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0038)	6	1	06/21/10 18:20	CTF0142	CF02121
Isopropylbenzene	ND (0.0038)	1000	1	06/21/10 18:20	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0038)	0.1	1	06/21/10 18:20	CTF0142	CF02121
Methylene Chloride	ND (0.0190)	0.1	1	06/21/10 18:20	CTF0142	CF02121
Naphthalene	ND (0.0038)	4	1	06/21/10 18:20	CTF0142	CF02121
n-Butylbenzene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
n-Propylbenzene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
sec-Butylbenzene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
Styrene	ND (0.0038)	3	1	06/21/10 18:20	CTF0142	CF02121
tert-Butylbenzene	ND (0.0038)	100	1	06/21/10 18:20	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0038)		1	06/21/10 18:20	CTF0142	CF02121
Tetrachloroethene	ND (0.0038)	1	1	06/21/10 18:20	CTF0142	CF02121
Tetrahydrofuran	ND (0.0038)	500	1	06/21/10 18:20	CTF0142	CF02121
Toluene	ND (0.0038)	30	1	06/21/10 18:20	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 7.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0038)	1	1	06/21/10 18:20	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 18:20	CTF0142	CF02121
Trichloroethene	ND (0.0038)	0.3	1	06/21/10 18:20	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0038)	1000	1	06/21/10 18:20	CTF0142	CF02121
Vinyl Chloride	ND (0.0076)	3	1	06/21/10 18:20	CTF0142	CF02121
Xylene O	ND (0.0038)	300	1	06/21/10 18:20	CTF0142	CF02121
Xylene P,M	ND (0.0076)	300	1	06/21/10 18:20	CTF0142	CF02121
Xylenes (Total)	ND (0.0114)	300	1	06/21/10 18:20		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*107 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*96 %*		*70-130*
Surrogate: Dibromofluoromethane	*104 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1221	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1232	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1242	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1248	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1254	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1260	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1262	ND (0.0570)	2	1	06/21/10 23:48		CF02126
Aroclor 1268	ND (0.0570)	2	1	06/21/10 23:48		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (41.9)	1000	1	06/21/10 23:43	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*84 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.008)	0.05	2	06/22/10 12:20	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.375)	2	1	06/22/10 0:59	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.375)	9	1	06/22/10 0:59	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.375)	1	1	06/22/10 0:59	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.375)	4	1	06/22/10 0:59	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.88)	3	1	06/22/10 0:59	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.375)	100	1	06/22/10 0:59	CTF0145	CF02123
2-Chloronaphthalene	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123
2-Chlorophenol	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2-Methylnaphthalene	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
2-Methylphenol	ND (0.375)	500	1	06/22/10 0:59	CTF0145	CF02123
2-Nitrophenol	ND (0.375)	100	1	06/22/10 0:59	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.751)	1	1	06/22/10 0:59	CTF0145	CF02123
3+4-Methylphenol	ND (0.751)	500	1	06/22/10 0:59	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.375)	100	1	06/22/10 0:59	CTF0145	CF02123
4-Chloroaniline	ND (0.751)	1	1	06/22/10 0:59	CTF0145	CF02123
4-Nitrophenol	ND (1.88)	100	1	06/22/10 0:59	CTF0145	CF02123
Acenaphthene	ND (0.375)	4	1	06/22/10 0:59	CTF0145	CF02123
Acenaphthylene	ND (0.375)	1	1	06/22/10 0:59	CTF0145	CF02123
Acetophenone	ND (0.751)	1000	1	06/22/10 0:59	CTF0145	CF02123
Aniline	ND (1.88)	1000	1	06/22/10 0:59	CTF0145	CF02123
Anthracene	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123
Azobenzene	ND (0.375)	50	1	06/22/10 0:59	CTF0145	CF02123
Benzo(a)anthracene	ND (0.375)	7	1	06/22/10 0:59	CTF0145	CF02123
Benzo(a)pyrene	ND (0.188)	2	1	06/22/10 0:59	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.375)	7	1	06/22/10 0:59	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.375)	70	1	06/22/10 0:59	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.375)	500	1	06/22/10 0:59	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.375)	200	1	06/22/10 0:59	CTF0145	CF02123
Butylbenzylphthalate	ND (0.375)	100	1	06/22/10 0:59	CTF0145	CF02123
Chrysene	ND (0.188)	70	1	06/22/10 0:59	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.188)	0.7	1	06/22/10 0:59	CTF0145	CF02123
Dibenzofuran	ND (0.375)	100	1	06/22/10 0:59	CTF0145	CF02123
Diethylphthalate	ND (0.375)	10	1	06/22/10 0:59	CTF0145	CF02123
Dimethylphthalate	ND (0.375)	30	1	06/22/10 0:59	CTF0145	CF02123
Di-n-butylphthalate	ND (0.375)	50	1	06/22/10 0:59	CTF0145	CF02123
Di-n-octylphthalate	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123
Fluoranthene	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123
Fluorene	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123
Hexachlorobenzene	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
Hexachlorobutadiene	ND (0.375)	6	1	06/22/10 0:59	CTF0145	CF02123
Hexachloroethane	ND (0.375)	0.7	1	06/22/10 0:59	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.375)	7	1	06/22/10 0:59	CTF0145	CF02123
Isophorone	ND (0.375)	100	1	06/22/10 0:59	CTF0145	CF02123
Naphthalene	ND (0.375)	4	1	06/22/10 0:59	CTF0145	CF02123
Nitrobenzene	ND (0.375)	500	1	06/22/10 0:59	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.375)	50	1	06/22/10 0:59	CTF0145	CF02123
Pentachlorophenol	ND (1.88)	3	1	06/22/10 0:59	CTF0145	CF02123
Phenanthrene	ND (0.375)	10	1	06/22/10 0:59	CTF0145	CF02123
Phenol	ND (0.375)	1	1	06/22/10 0:59	CTF0145	CF02123
Pyrene	ND (0.375)	1000	1	06/22/10 0:59	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*56 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*37 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: 90
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*65 %*	*30-130*				
Surrogate: Phenol-d6		*52 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*84 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.1)	6010B	20	1	SVD	06/22/10 15:42	2.49	100	CF02127
Barium	**36.2** (2.1)	6010B	1000	1	SVD	06/22/10 15:42	2.49	100	CF02127
Cadmium	ND (0.43)	6010B	2	1	SVD	06/22/10 15:42	2.49	100	CF02127
Chromium	**8.9** (0.9)	6010B	30	1	SVD	06/22/10 15:42	2.49	100	CF02127
Lead	**8.8** (4.3)	6010B	300	1	SVD	06/22/10 15:42	2.49	100	CF02127
Mercury	**0.181** (0.032)	7471B	20	1	SVD	06/23/10 13:08	0.66	40	CF02129
Selenium	ND (4.3)	6010B	400	1	SVD	06/22/10 15:42	2.49	100	CF02127
Silver	ND (0.43)	6010B	100	1	SVD	06/22/10 15:42	2.49	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0040)	30	1	06/21/10 18:48	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0016)	0.005	1	06/21/10 18:48	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0040)	0.4	1	06/21/10 18:48	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0040)	3	1	06/21/10 18:48	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0040)	2	1	06/21/10 18:48	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0040)	1000	1	06/21/10 18:48	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0040)	10	1	06/21/10 18:48	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0040)	9	1	06/21/10 18:48	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0040)	10	1	06/21/10 18:48	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0040)	1	1	06/21/10 18:48	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0040)	500	1	06/21/10 18:48	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0040)	0.7	1	06/21/10 18:48	CTF0142	CF02121
1,4-Dioxane	ND (0.0806)	0.2	1	06/21/10 18:48	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121
2-Butanone	ND (0.0403)	4	1	06/21/10 18:48	CTF0142	CF02121
2-Chlorotoluene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
2-Hexanone	ND (0.0403)	100	1	06/21/10 18:48	CTF0142	CF02121
4-Chlorotoluene	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0403)	0.4	1	06/21/10 18:48	CTF0142	CF02121
Acetone	ND (0.0403)	6	1	06/21/10 18:48	CTF0142	CF02121
Benzene	ND (0.0040)	2	1	06/21/10 18:48	CTF0142	CF02121
Bromobenzene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
Bromochloromethane	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
Bromoform	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
Bromomethane	ND (0.0081)	0.5	1	06/21/10 18:48	CTF0142	CF02121
Carbon Disulfide	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0040)	5	1	06/21/10 18:48	CTF0142	CF02121
Chlorobenzene	ND (0.0040)	1	1	06/21/10 18:48	CTF0142	CF02121
Chloroethane	ND (0.0081)	100	1	06/21/10 18:48	CTF0142	CF02121
Chloroform	ND (0.0040)	0.3	1	06/21/10 18:48	CTF0142	CF02121
Chloromethane	ND (0.0081)	100	1	06/21/10 18:48	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0040)	0.3	1	06/21/10 18:48	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0040)	0.01	1	06/21/10 18:48	CTF0142	CF02121
Dibromochloromethane	ND (0.0016)	0.005	1	06/21/10 18:48	CTF0142	CF02121
Dibromomethane	ND (0.0040)	500	1	06/21/10 18:48	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0081)	1000	1	06/21/10 18:48	CTF0142	CF02121
Diethyl Ether	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
Di-isopropyl ether	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121
Ethylbenzene	ND (0.0040)	40	1	06/21/10 18:48	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0040)	6	1	06/21/10 18:48	CTF0142	CF02121
Isopropylbenzene	ND (0.0040)	1000	1	06/21/10 18:48	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0040)	0.1	1	06/21/10 18:48	CTF0142	CF02121
Methylene Chloride	ND (0.0201)	0.1	1	06/21/10 18:48	CTF0142	CF02121
Naphthalene	ND (0.0040)	4	1	06/21/10 18:48	CTF0142	CF02121
n-Butylbenzene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
n-Propylbenzene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
sec-Butylbenzene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
Styrene	ND (0.0040)	3	1	06/21/10 18:48	CTF0142	CF02121
tert-Butylbenzene	ND (0.0040)	100	1	06/21/10 18:48	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0040)		1	06/21/10 18:48	CTF0142	CF02121
Tetrachloroethene	ND (0.0040)	1	1	06/21/10 18:48	CTF0142	CF02121
Tetrahydrofuran	ND (0.0040)	500	1	06/21/10 18:48	CTF0142	CF02121
Toluene	ND (0.0040)	30	1	06/21/10 18:48	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0040)	1	1	06/21/10 18:48	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0040)	0.01	1	06/21/10 18:48	CTF0142	CF02121
Trichloroethene	ND (0.0040)	0.3	1	06/21/10 18:48	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0040)	1000	1	06/21/10 18:48	CTF0142	CF02121
Vinyl Chloride	ND (0.0081)	3	1	06/21/10 18:48	CTF0142	CF02121
Xylene O	ND (0.0040)	300	1	06/21/10 18:48	CTF0142	CF02121
Xylene P,M	ND (0.0081)	300	1	06/21/10 18:48	CTF0142	CF02121
Xylenes (Total)	ND (0.0121)	300	1	06/21/10 18:48		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*111 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*93 %*		*70-130*
Surrogate: Dibromofluoromethane	*105 %*		*70-130*
Surrogate: Toluene-d8	*105 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1221	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1232	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1242	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1248	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1254	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1260	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1262	ND (0.0532)	2	1	06/22/10 0:07		CF02126
Aroclor 1268	ND (0.0532)	2	1	06/22/10 0:07		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*64 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*64 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (39.1)	1000	1	06/22/10 0:18	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*76 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 13:06	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.347)	2	1	06/22/10 1:29	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.347)	9	1	06/22/10 1:29	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.347)	1	1	06/22/10 1:29	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.347)	4	1	06/22/10 1:29	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.74)	3	1	06/22/10 1:29	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.347)	100	1	06/22/10 1:29	CTF0145	CF02123
2-Chloronaphthalene	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123
2-Chlorophenol	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2-Methylnaphthalene	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
2-Methylphenol	ND (0.347)	500	1	06/22/10 1:29	CTF0145	CF02123
2-Nitrophenol	ND (0.347)	100	1	06/22/10 1:29	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.696)	1	1	06/22/10 1:29	CTF0145	CF02123
3+4-Methylphenol	ND (0.696)	500	1	06/22/10 1:29	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.347)	100	1	06/22/10 1:29	CTF0145	CF02123
4-Chloroaniline	ND (0.696)	1	1	06/22/10 1:29	CTF0145	CF02123
4-Nitrophenol	ND (1.74)	100	1	06/22/10 1:29	CTF0145	CF02123
Acenaphthene	ND (0.347)	4	1	06/22/10 1:29	CTF0145	CF02123
Acenaphthylene	ND (0.347)	1	1	06/22/10 1:29	CTF0145	CF02123
Acetophenone	ND (0.696)	1000	1	06/22/10 1:29	CTF0145	CF02123
Aniline	ND (1.74)	1000	1	06/22/10 1:29	CTF0145	CF02123
Anthracene	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123
Azobenzene	ND (0.347)	50	1	06/22/10 1:29	CTF0145	CF02123
Benzo(a)anthracene	ND (0.347)	7	1	06/22/10 1:29	CTF0145	CF02123
Benzo(a)pyrene	ND (0.174)	2	1	06/22/10 1:29	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.347)	7	1	06/22/10 1:29	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.347)	70	1	06/22/10 1:29	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.347)	500	1	06/22/10 1:29	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.347)	200	1	06/22/10 1:29	CTF0145	CF02123
Butylbenzylphthalate	ND (0.347)	100	1	06/22/10 1:29	CTF0145	CF02123
Chrysene	ND (0.174)	70	1	06/22/10 1:29	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.174)	0.7	1	06/22/10 1:29	CTF0145	CF02123
Dibenzofuran	ND (0.347)	100	1	06/22/10 1:29	CTF0145	CF02123
Diethylphthalate	ND (0.347)	10	1	06/22/10 1:29	CTF0145	CF02123
Dimethylphthalate	ND (0.347)	30	1	06/22/10 1:29	CTF0145	CF02123
Di-n-butylphthalate	ND (0.347)	50	1	06/22/10 1:29	CTF0145	CF02123
Di-n-octylphthalate	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123
Fluoranthene	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123
Fluorene	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123
Hexachlorobenzene	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
Hexachlorobutadiene	ND (0.347)	6	1	06/22/10 1:29	CTF0145	CF02123
Hexachloroethane	ND (0.347)	0.7	1	06/22/10 1:29	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.347)	7	1	06/22/10 1:29	CTF0145	CF02123
Isophorone	ND (0.347)	100	1	06/22/10 1:29	CTF0145	CF02123
Naphthalene	ND (0.347)	4	1	06/22/10 1:29	CTF0145	CF02123
Nitrobenzene	ND (0.347)	500	1	06/22/10 1:29	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.347)	50	1	06/22/10 1:29	CTF0145	CF02123
Pentachlorophenol	ND (1.74)	3	1	06/22/10 1:29	CTF0145	CF02123
Phenanthrene	ND (0.347)	10	1	06/22/10 1:29	CTF0145	CF02123
Phenol	ND (0.347)	1	1	06/22/10 1:29	CTF0145	CF02123
Pyrene	ND (0.347)	1000	1	06/22/10 1:29	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*51 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*37 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-6
Date Sampled: 06/21/10 10:55
Percent Solids: 94
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*68 %*	*30-130*				
Surrogate: Phenol-d6		*52 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*83 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.2)	6010B	20	1	SVD	06/22/10 15:46	2.58	100	CF02127
Barium	**35.1** (2.2)	6010B	1000	1	SVD	06/22/10 15:46	2.58	100	CF02127
Cadmium	ND (0.44)	6010B	2	1	SVD	06/22/10 15:46	2.58	100	CF02127
Chromium	**7.4** (0.9)	6010B	30	1	SVD	06/22/10 15:46	2.58	100	CF02127
Lead	**266** (43.6)	6010B	300	10	SVD	06/23/10 3:42	2.58	100	CF02127
Mercury	**0.230** (0.033)	7471B	20	1	SVD	06/23/10 13:11	0.67	40	CF02129
Selenium	ND (4.4)	6010B	400	1	SVD	06/22/10 15:46	2.58	100	CF02127
Silver	ND (0.44)	6010B	100	1	SVD	06/22/10 15:46	2.58	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 7.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0038)	30	1	06/21/10 19:15	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0015)	0.005	1	06/21/10 19:15	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0038)	0.4	1	06/21/10 19:15	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0038)	3	1	06/21/10 19:15	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0038)	2	1	06/21/10 19:15	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0038)	1000	1	06/21/10 19:15	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0038)	10	1	06/21/10 19:15	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0038)	9	1	06/21/10 19:15	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0038)	10	1	06/21/10 19:15	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0038)	1	1	06/21/10 19:15	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0038)	500	1	06/21/10 19:15	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0038)	0.7	1	06/21/10 19:15	CTF0142	CF02121
1,4-Dioxane	ND (0.0770)	0.2	1	06/21/10 19:15	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121
2-Butanone	ND (0.0385)	4	1	06/21/10 19:15	CTF0142	CF02121
2-Chlorotoluene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
2-Hexanone	ND (0.0385)	100	1	06/21/10 19:15	CTF0142	CF02121
4-Chlorotoluene	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0385)	0.4	1	06/21/10 19:15	CTF0142	CF02121
Acetone	ND (0.0385)	6	1	06/21/10 19:15	CTF0142	CF02121
Benzene	ND (0.0038)	2	1	06/21/10 19:15	CTF0142	CF02121
Bromobenzene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
Bromochloromethane	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 7.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
Bromoform	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
Bromomethane	ND (0.0077)	0.5	1	06/21/10 19:15	CTF0142	CF02121
Carbon Disulfide	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0038)	5	1	06/21/10 19:15	CTF0142	CF02121
Chlorobenzene	ND (0.0038)	1	1	06/21/10 19:15	CTF0142	CF02121
Chloroethane	ND (0.0077)	100	1	06/21/10 19:15	CTF0142	CF02121
Chloroform	ND (0.0038)	0.3	1	06/21/10 19:15	CTF0142	CF02121
Chloromethane	ND (0.0077)	100	1	06/21/10 19:15	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0038)	0.3	1	06/21/10 19:15	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 19:15	CTF0142	CF02121
Dibromochloromethane	ND (0.0015)	0.005	1	06/21/10 19:15	CTF0142	CF02121
Dibromomethane	ND (0.0038)	500	1	06/21/10 19:15	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0077)	1000	1	06/21/10 19:15	CTF0142	CF02121
Diethyl Ether	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
Di-isopropyl ether	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121
Ethylbenzene	ND (0.0038)	40	1	06/21/10 19:15	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0038)	6	1	06/21/10 19:15	CTF0142	CF02121
Isopropylbenzene	ND (0.0038)	1000	1	06/21/10 19:15	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0038)	0.1	1	06/21/10 19:15	CTF0142	CF02121
Methylene Chloride	ND (0.0192)	0.1	1	06/21/10 19:15	CTF0142	CF02121
Naphthalene	ND (0.0038)	4	1	06/21/10 19:15	CTF0142	CF02121
n-Butylbenzene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
n-Propylbenzene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
sec-Butylbenzene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
Styrene	ND (0.0038)	3	1	06/21/10 19:15	CTF0142	CF02121
tert-Butylbenzene	ND (0.0038)	100	1	06/21/10 19:15	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0038)		1	06/21/10 19:15	CTF0142	CF02121
Tetrachloroethene	ND (0.0038)	1	1	06/21/10 19:15	CTF0142	CF02121
Tetrahydrofuran	ND (0.0038)	500	1	06/21/10 19:15	CTF0142	CF02121
Toluene	ND (0.0038)	30	1	06/21/10 19:15	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 7.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0038)	1	1	06/21/10 19:15	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0038)	0.01	1	06/21/10 19:15	CTF0142	CF02121
Trichloroethene	ND (0.0038)	0.3	1	06/21/10 19:15	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0038)	1000	1	06/21/10 19:15	CTF0142	CF02121
Vinyl Chloride	ND (0.0077)	3	1	06/21/10 19:15	CTF0142	CF02121
Xylene O	ND (0.0038)	300	1	06/21/10 19:15	CTF0142	CF02121
Xylene P,M	ND (0.0077)	300	1	06/21/10 19:15	CTF0142	CF02121
Xylenes (Total)	ND (0.0115)	300	1	06/21/10 19:15		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*104 %*		*70-130*
Surrogate: Toluene-d8	*103 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1221	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1232	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1242	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1248	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1254	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1260	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1262	ND (0.0551)	2	1	06/22/10 0:26		CF02126
Aroclor 1268	ND (0.0551)	2	1	06/22/10 0:26		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (41.7)	1000	1	06/22/10 0:53	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*83 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 13:51	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.367)	2	1	06/22/10 2:00	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.367)	9	1	06/22/10 2:00	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.367)	1	1	06/22/10 2:00	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.367)	4	1	06/22/10 2:00	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.84)	3	1	06/22/10 2:00	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.367)	100	1	06/22/10 2:00	CTF0145	CF02123
2-Chloronaphthalene	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123
2-Chlorophenol	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2-Methylnaphthalene	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
2-Methylphenol	ND (0.367)	500	1	06/22/10 2:00	CTF0145	CF02123
2-Nitrophenol	ND (0.367)	100	1	06/22/10 2:00	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.735)	1	1	06/22/10 2:00	CTF0145	CF02123
3+4-Methylphenol	ND (0.735)	500	1	06/22/10 2:00	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.367)	100	1	06/22/10 2:00	CTF0145	CF02123
4-Chloroaniline	ND (0.735)	1	1	06/22/10 2:00	CTF0145	CF02123
4-Nitrophenol	ND (1.84)	100	1	06/22/10 2:00	CTF0145	CF02123
Acenaphthene	ND (0.367)	4	1	06/22/10 2:00	CTF0145	CF02123
Acenaphthylene	ND (0.367)	1	1	06/22/10 2:00	CTF0145	CF02123
Acetophenone	ND (0.735)	1000	1	06/22/10 2:00	CTF0145	CF02123
Aniline	ND (1.84)	1000	1	06/22/10 2:00	CTF0145	CF02123
Anthracene	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123
Azobenzene	ND (0.367)	50	1	06/22/10 2:00	CTF0145	CF02123
Benzo(a)anthracene	ND (0.367)	7	1	06/22/10 2:00	CTF0145	CF02123
Benzo(a)pyrene	ND (0.184)	2	1	06/22/10 2:00	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.367)	7	1	06/22/10 2:00	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.367)	70	1	06/22/10 2:00	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.367)	500	1	06/22/10 2:00	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.367)	200	1	06/22/10 2:00	CTF0145	CF02123
Butylbenzylphthalate	ND (0.367)	100	1	06/22/10 2:00	CTF0145	CF02123
Chrysene	ND (0.184)	70	1	06/22/10 2:00	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.184)	0.7	1	06/22/10 2:00	CTF0145	CF02123
Dibenzofuran	ND (0.367)	100	1	06/22/10 2:00	CTF0145	CF02123
Diethylphthalate	ND (0.367)	10	1	06/22/10 2:00	CTF0145	CF02123
Dimethylphthalate	ND (0.367)	30	1	06/22/10 2:00	CTF0145	CF02123
Di-n-butylphthalate	ND (0.367)	50	1	06/22/10 2:00	CTF0145	CF02123
Di-n-octylphthalate	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123
Fluoranthene	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123
Fluorene	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123
Hexachlorobenzene	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
Hexachlorobutadiene	ND (0.367)	6	1	06/22/10 2:00	CTF0145	CF02123
Hexachloroethane	ND (0.367)	0.7	1	06/22/10 2:00	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.367)	7	1	06/22/10 2:00	CTF0145	CF02123
Isophorone	ND (0.367)	100	1	06/22/10 2:00	CTF0145	CF02123
Naphthalene	ND (0.367)	4	1	06/22/10 2:00	CTF0145	CF02123
Nitrobenzene	ND (0.367)	500	1	06/22/10 2:00	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.367)	50	1	06/22/10 2:00	CTF0145	CF02123
Pentachlorophenol	ND (1.84)	3	1	06/22/10 2:00	CTF0145	CF02123
Phenanthrene	ND (0.367)	10	1	06/22/10 2:00	CTF0145	CF02123
Phenol	ND (0.367)	1	1	06/22/10 2:00	CTF0145	CF02123
Pyrene	ND (0.367)	1000	1	06/22/10 2:00	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*59 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*52 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*50 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*64 %*		*30-130*
Surrogate: 2-Fluorophenol	*36 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: 89
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5	*67 %*	*30-130*				
Surrogate: Phenol-d6	*54 %*	*30-130*				
Surrogate: p-Terphenyl-d14	*76 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.5)	6010B	20	1	SVD	06/22/10 15:51	2.09	100	CF02127
Barium	**28.9** (2.5)	6010B	1000	1	SVD	06/22/10 15:51	2.09	100	CF02127
Cadmium	ND (0.50)	6010B	2	1	SVD	06/22/10 15:51	2.09	100	CF02127
Chromium	**7.6** (1.0)	6010B	30	1	SVD	06/22/10 15:51	2.09	100	CF02127
Lead	ND (5.0)	6010B	300	1	SVD	06/22/10 15:51	2.09	100	CF02127
Mercury	ND (0.032)	7471B	20	1	SVD	06/23/10 13:13	0.65	40	CF02129
Selenium	ND (5.0)	6010B	400	1	SVD	06/22/10 15:51	2.09	100	CF02127
Silver	ND (0.50)	6010B	100	1	SVD	06/22/10 15:51	2.09	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 8.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0032)	30	1	06/21/10 19:43	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0013)	0.005	1	06/21/10 19:43	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0032)	0.4	1	06/21/10 19:43	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0032)	3	1	06/21/10 19:43	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0032)	2	1	06/21/10 19:43	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0032)	1000	1	06/21/10 19:43	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0032)	10	1	06/21/10 19:43	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0032)	9	1	06/21/10 19:43	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0032)	10	1	06/21/10 19:43	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0032)	1	1	06/21/10 19:43	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0032)	500	1	06/21/10 19:43	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0032)	0.7	1	06/21/10 19:43	CTF0142	CF02121
1,4-Dioxane	ND (0.0643)	0.2	1	06/21/10 19:43	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121
2-Butanone	ND (0.0322)	4	1	06/21/10 19:43	CTF0142	CF02121
2-Chlorotoluene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
2-Hexanone	ND (0.0322)	100	1	06/21/10 19:43	CTF0142	CF02121
4-Chlorotoluene	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0322)	0.4	1	06/21/10 19:43	CTF0142	CF02121
Acetone	ND (0.0322)	6	1	06/21/10 19:43	CTF0142	CF02121
Benzene	ND (0.0032)	2	1	06/21/10 19:43	CTF0142	CF02121
Bromobenzene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
Bromochloromethane	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 8.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
Bromoform	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
Bromomethane	ND (0.0064)	0.5	1	06/21/10 19:43	CTF0142	CF02121
Carbon Disulfide	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0032)	5	1	06/21/10 19:43	CTF0142	CF02121
Chlorobenzene	ND (0.0032)	1	1	06/21/10 19:43	CTF0142	CF02121
Chloroethane	ND (0.0064)	100	1	06/21/10 19:43	CTF0142	CF02121
Chloroform	ND (0.0032)	0.3	1	06/21/10 19:43	CTF0142	CF02121
Chloromethane	ND (0.0064)	100	1	06/21/10 19:43	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0032)	0.3	1	06/21/10 19:43	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0032)	0.01	1	06/21/10 19:43	CTF0142	CF02121
Dibromochloromethane	ND (0.0013)	0.005	1	06/21/10 19:43	CTF0142	CF02121
Dibromomethane	ND (0.0032)	500	1	06/21/10 19:43	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0064)	1000	1	06/21/10 19:43	CTF0142	CF02121
Diethyl Ether	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
Di-isopropyl ether	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121
Ethylbenzene	ND (0.0032)	40	1	06/21/10 19:43	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0032)	6	1	06/21/10 19:43	CTF0142	CF02121
Isopropylbenzene	ND (0.0032)	1000	1	06/21/10 19:43	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0032)	0.1	1	06/21/10 19:43	CTF0142	CF02121
Methylene Chloride	ND (0.0161)	0.1	1	06/21/10 19:43	CTF0142	CF02121
Naphthalene	ND (0.0032)	4	1	06/21/10 19:43	CTF0142	CF02121
n-Butylbenzene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
n-Propylbenzene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
sec-Butylbenzene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
Styrene	ND (0.0032)	3	1	06/21/10 19:43	CTF0142	CF02121
tert-Butylbenzene	ND (0.0032)	100	1	06/21/10 19:43	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0032)		1	06/21/10 19:43	CTF0142	CF02121
Tetrachloroethene	ND (0.0032)	1	1	06/21/10 19:43	CTF0142	CF02121
Tetrahydrofuran	ND (0.0032)	500	1	06/21/10 19:43	CTF0142	CF02121
Toluene	ND (0.0032)	30	1	06/21/10 19:43	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 8.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0032)	1	1	06/21/10 19:43	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0032)	0.01	1	06/21/10 19:43	CTF0142	CF02121
Trichloroethene	ND (0.0032)	0.3	1	06/21/10 19:43	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0032)	1000	1	06/21/10 19:43	CTF0142	CF02121
Vinyl Chloride	ND (0.0064)	3	1	06/21/10 19:43	CTF0142	CF02121
Xylene O	ND (0.0032)	300	1	06/21/10 19:43	CTF0142	CF02121
Xylene P,M	ND (0.0064)	300	1	06/21/10 19:43	CTF0142	CF02121
Xylenes (Total)	ND (0.0096)	300	1	06/21/10 19:43		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1221	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1232	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1242	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1248	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1254	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1260	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1262	ND (0.0526)	2	1	06/22/10 0:45		CF02126
Aroclor 1268	ND (0.0526)	2	1	06/22/10 0:45		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*66 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (39.7)	1000	1	06/22/10 1:27	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*81 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 14:37	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.356)	2	1	06/22/10 2:30	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.356)	9	1	06/22/10 2:30	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.356)	1	1	06/22/10 2:30	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.356)	4	1	06/22/10 2:30	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.79)	3	1	06/22/10 2:30	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.356)	100	1	06/22/10 2:30	CTF0145	CF02123
2-Chloronaphthalene	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123
2-Chlorophenol	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2-Methylnaphthalene	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
2-Methylphenol	ND (0.356)	500	1	06/22/10 2:30	CTF0145	CF02123
2-Nitrophenol	ND (0.356)	100	1	06/22/10 2:30	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.714)	1	1	06/22/10 2:30	CTF0145	CF02123
3+4-Methylphenol	ND (0.714)	500	1	06/22/10 2:30	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.356)	100	1	06/22/10 2:30	CTF0145	CF02123
4-Chloroaniline	ND (0.714)	1	1	06/22/10 2:30	CTF0145	CF02123
4-Nitrophenol	ND (1.79)	100	1	06/22/10 2:30	CTF0145	CF02123
Acenaphthene	ND (0.356)	4	1	06/22/10 2:30	CTF0145	CF02123
Acenaphthylene	ND (0.356)	1	1	06/22/10 2:30	CTF0145	CF02123
Acetophenone	ND (0.714)	1000	1	06/22/10 2:30	CTF0145	CF02123
Aniline	ND (1.79)	1000	1	06/22/10 2:30	CTF0145	CF02123
Anthracene	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123
Azobenzene	ND (0.356)	50	1	06/22/10 2:30	CTF0145	CF02123
Benzo(a)anthracene	ND (0.356)	7	1	06/22/10 2:30	CTF0145	CF02123
Benzo(a)pyrene	ND (0.179)	2	1	06/22/10 2:30	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.356)	7	1	06/22/10 2:30	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.356)	70	1	06/22/10 2:30	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.356)	500	1	06/22/10 2:30	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.356)	200	1	06/22/10 2:30	CTF0145	CF02123
Butylbenzylphthalate	ND (0.356)	100	1	06/22/10 2:30	CTF0145	CF02123
Chrysene	ND (0.179)	70	1	06/22/10 2:30	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.179)	0.7	1	06/22/10 2:30	CTF0145	CF02123
Dibenzofuran	ND (0.356)	100	1	06/22/10 2:30	CTF0145	CF02123
Diethylphthalate	ND (0.356)	10	1	06/22/10 2:30	CTF0145	CF02123
Dimethylphthalate	ND (0.356)	30	1	06/22/10 2:30	CTF0145	CF02123
Di-n-butylphthalate	ND (0.356)	50	1	06/22/10 2:30	CTF0145	CF02123
Di-n-octylphthalate	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123
Fluoranthene	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123
Fluorene	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123
Hexachlorobenzene	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
Hexachlorobutadiene	ND (0.356)	6	1	06/22/10 2:30	CTF0145	CF02123
Hexachloroethane	ND (0.356)	0.7	1	06/22/10 2:30	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.356)	7	1	06/22/10 2:30	CTF0145	CF02123
Isophorone	ND (0.356)	100	1	06/22/10 2:30	CTF0145	CF02123
Naphthalene	ND (0.356)	4	1	06/22/10 2:30	CTF0145	CF02123
Nitrobenzene	ND (0.356)	500	1	06/22/10 2:30	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.356)	50	1	06/22/10 2:30	CTF0145	CF02123
Pentachlorophenol	ND (1.79)	3	1	06/22/10 2:30	CTF0145	CF02123
Phenanthrene	ND (0.356)	10	1	06/22/10 2:30	CTF0145	CF02123
Phenol	ND (0.356)	1	1	06/22/10 2:30	CTF0145	CF02123
Pyrene	ND (0.356)	1000	1	06/22/10 2:30	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*44 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*41 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*54 %*		*30-130*
Surrogate: 2-Fluorophenol	*28 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-9
Date Sampled: 06/21/10 13:20
Percent Solids: 96
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*58 %*	*30-130*				
Surrogate: Phenol-d6		*44 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*71 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.3)	6010B	20	1	SVD	06/22/10 16:04	2.33	100	CF02127
Barium	**28.2** (2.3)	6010B	1000	1	SVD	06/22/10 16:04	2.33	100	CF02127
Cadmium	ND (0.46)	6010B	2	1	SVD	06/22/10 16:04	2.33	100	CF02127
Chromium	**10.8** (0.9)	6010B	30	1	SVD	06/22/10 16:04	2.33	100	CF02127
Lead	**6.4** (4.6)	6010B	300	1	SVD	06/22/10 16:04	2.33	100	CF02127
Mercury	ND (0.034)	7471B	20	1	SVD	06/23/10 13:15	0.62	40	CF02129
Selenium	ND (4.6)	6010B	400	1	SVD	06/22/10 16:04	2.33	100	CF02127
Silver	ND (0.46)	6010B	100	1	SVD	06/22/10 16:04	2.33	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 8.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0031)	30	1	06/21/10 20:11	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0012)	0.005	1	06/21/10 20:11	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0031)	0.4	1	06/21/10 20:11	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0031)	3	1	06/21/10 20:11	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0031)	2	1	06/21/10 20:11	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0031)	1000	1	06/21/10 20:11	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0031)	10	1	06/21/10 20:11	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0031)	9	1	06/21/10 20:11	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0031)	10	1	06/21/10 20:11	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0031)	1	1	06/21/10 20:11	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0031)	500	1	06/21/10 20:11	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0031)	0.7	1	06/21/10 20:11	CTF0142	CF02121
1,4-Dioxane	ND (0.0618)	0.2	1	06/21/10 20:11	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121
2-Butanone	ND (0.0309)	4	1	06/21/10 20:11	CTF0142	CF02121
2-Chlorotoluene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
2-Hexanone	ND (0.0309)	100	1	06/21/10 20:11	CTF0142	CF02121
4-Chlorotoluene	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0309)	0.4	1	06/21/10 20:11	CTF0142	CF02121
Acetone	ND (0.0309)	6	1	06/21/10 20:11	CTF0142	CF02121
Benzene	ND (0.0031)	2	1	06/21/10 20:11	CTF0142	CF02121
Bromobenzene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
Bromochloromethane	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 8.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
Bromoform	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
Bromomethane	ND (0.0062)	0.5	1	06/21/10 20:11	CTF0142	CF02121
Carbon Disulfide	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0031)	5	1	06/21/10 20:11	CTF0142	CF02121
Chlorobenzene	ND (0.0031)	1	1	06/21/10 20:11	CTF0142	CF02121
Chloroethane	ND (0.0062)	100	1	06/21/10 20:11	CTF0142	CF02121
Chloroform	ND (0.0031)	0.3	1	06/21/10 20:11	CTF0142	CF02121
Chloromethane	ND (0.0062)	100	1	06/21/10 20:11	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0031)	0.3	1	06/21/10 20:11	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0031)	0.01	1	06/21/10 20:11	CTF0142	CF02121
Dibromochloromethane	ND (0.0012)	0.005	1	06/21/10 20:11	CTF0142	CF02121
Dibromomethane	ND (0.0031)	500	1	06/21/10 20:11	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0062)	1000	1	06/21/10 20:11	CTF0142	CF02121
Diethyl Ether	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
Di-isopropyl ether	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121
Ethylbenzene	ND (0.0031)	40	1	06/21/10 20:11	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0031)	6	1	06/21/10 20:11	CTF0142	CF02121
Isopropylbenzene	ND (0.0031)	1000	1	06/21/10 20:11	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0031)	0.1	1	06/21/10 20:11	CTF0142	CF02121
Methylene Chloride	ND (0.0154)	0.1	1	06/21/10 20:11	CTF0142	CF02121
Naphthalene	ND (0.0031)	4	1	06/21/10 20:11	CTF0142	CF02121
n-Butylbenzene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
n-Propylbenzene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
sec-Butylbenzene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
Styrene	ND (0.0031)	3	1	06/21/10 20:11	CTF0142	CF02121
tert-Butylbenzene	ND (0.0031)	100	1	06/21/10 20:11	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0031)		1	06/21/10 20:11	CTF0142	CF02121
Tetrachloroethene	ND (0.0031)	1	1	06/21/10 20:11	CTF0142	CF02121
Tetrahydrofuran	ND (0.0031)	500	1	06/21/10 20:11	CTF0142	CF02121
Toluene	ND (0.0031)	30	1	06/21/10 20:11	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 8.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0031)	1	1	06/21/10 20:11	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0031)	0.01	1	06/21/10 20:11	CTF0142	CF02121
Trichloroethene	ND (0.0031)	0.3	1	06/21/10 20:11	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0031)	1000	1	06/21/10 20:11	CTF0142	CF02121
Vinyl Chloride	ND (0.0062)	3	1	06/21/10 20:11	CTF0142	CF02121
Xylene O	ND (0.0031)	300	1	06/21/10 20:11	CTF0142	CF02121
Xylene P,M	ND (0.0062)	300	1	06/21/10 20:11	CTF0142	CF02121
Xylenes (Total)	ND (0.0093)	300	1	06/21/10 20:11		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*112 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1221	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1232	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1242	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1248	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1254	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1260	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1262	ND (0.0532)	2	1	06/22/10 1:04		CF02126
Aroclor 1268	ND (0.0532)	2	1	06/22/10 1:04		CF02126

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*66 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 20.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (39.0)	1000	1	06/22/10 2:02	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*88 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 15:23	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.347)	2	1	06/22/10 3:01	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.347)	9	1	06/22/10 3:01	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.347)	1	1	06/22/10 3:01	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.347)	4	1	06/22/10 3:01	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.74)	3	1	06/22/10 3:01	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.347)	100	1	06/22/10 3:01	CTF0145	CF02123
2-Chloronaphthalene	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123
2-Chlorophenol	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2-Methylnaphthalene	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
2-Methylphenol	ND (0.347)	500	1	06/22/10 3:01	CTF0145	CF02123
2-Nitrophenol	ND (0.347)	100	1	06/22/10 3:01	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.694)	1	1	06/22/10 3:01	CTF0145	CF02123
3+4-Methylphenol	ND (0.694)	500	1	06/22/10 3:01	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.347)	100	1	06/22/10 3:01	CTF0145	CF02123
4-Chloroaniline	ND (0.694)	1	1	06/22/10 3:01	CTF0145	CF02123
4-Nitrophenol	ND (1.74)	100	1	06/22/10 3:01	CTF0145	CF02123
Acenaphthene	ND (0.347)	4	1	06/22/10 3:01	CTF0145	CF02123
Acenaphthylene	ND (0.347)	1	1	06/22/10 3:01	CTF0145	CF02123
Acetophenone	ND (0.694)	1000	1	06/22/10 3:01	CTF0145	CF02123
Aniline	ND (1.74)	1000	1	06/22/10 3:01	CTF0145	CF02123
Anthracene	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123
Azobenzene	ND (0.347)	50	1	06/22/10 3:01	CTF0145	CF02123
Benzo(a)anthracene	ND (0.347)	7	1	06/22/10 3:01	CTF0145	CF02123
Benzo(a)pyrene	ND (0.174)	2	1	06/22/10 3:01	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.347)	7	1	06/22/10 3:01	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.347)	70	1	06/22/10 3:01	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.347)	500	1	06/22/10 3:01	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.347)	200	1	06/22/10 3:01	CTF0145	CF02123
Butylbenzylphthalate	ND (0.347)	100	1	06/22/10 3:01	CTF0145	CF02123
Chrysene	ND (0.174)	70	1	06/22/10 3:01	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.174)	0.7	1	06/22/10 3:01	CTF0145	CF02123
Dibenzofuran	ND (0.347)	100	1	06/22/10 3:01	CTF0145	CF02123
Diethylphthalate	ND (0.347)	10	1	06/22/10 3:01	CTF0145	CF02123
Dimethylphthalate	ND (0.347)	30	1	06/22/10 3:01	CTF0145	CF02123
Di-n-butylphthalate	ND (0.347)	50	1	06/22/10 3:01	CTF0145	CF02123
Di-n-octylphthalate	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123
Fluoranthene	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123
Fluorene	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123
Hexachlorobenzene	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
Hexachlorobutadiene	ND (0.347)	6	1	06/22/10 3:01	CTF0145	CF02123
Hexachloroethane	ND (0.347)	0.7	1	06/22/10 3:01	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.347)	7	1	06/22/10 3:01	CTF0145	CF02123
Isophorone	ND (0.347)	100	1	06/22/10 3:01	CTF0145	CF02123
Naphthalene	ND (0.347)	4	1	06/22/10 3:01	CTF0145	CF02123
Nitrobenzene	ND (0.347)	500	1	06/22/10 3:01	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.347)	50	1	06/22/10 3:01	CTF0145	CF02123
Pentachlorophenol	ND (1.74)	3	1	06/22/10 3:01	CTF0145	CF02123
Phenanthrene	ND (0.347)	10	1	06/22/10 3:01	CTF0145	CF02123
Phenol	ND (0.347)	1	1	06/22/10 3:01	CTF0145	CF02123
Pyrene	ND (0.347)	1000	1	06/22/10 3:01	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*46 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*47 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*63 %*		*30-130*
Surrogate: 2-Fluorophenol	*29 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-10
Date Sampled: 06/21/10 12:15
Percent Solids: 93
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*69 %*	*30-130*				
Surrogate: Phenol-d6		*50 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*73 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

			MA - RCS1						
Analyte	**Results (MRL)**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**	**Batch**
Arsenic	ND (2.7)	6010B	20	1	SVD	06/22/10 16:09	2.05	100	CF02127
Barium	**22.3** (2.7)	6010B	1000	1	SVD	06/22/10 16:09	2.05	100	CF02127
Cadmium	ND (0.54)	6010B	2	1	SVD	06/22/10 16:09	2.05	100	CF02127
Chromium	**9.1** (1.1)	6010B	30	1	SVD	06/22/10 16:09	2.05	100	CF02127
Lead	**6.1** (5.4)	6010B	300	1	SVD	06/22/10 16:09	2.05	100	CF02127
Mercury	ND (0.030)	7471B	20	1	SVD	06/23/10 13:18	0.74	40	CF02129
Selenium	ND (5.4)	6010B	400	1	SVD	06/22/10 16:09	2.05	100	CF02127
Silver	ND (0.54)	6010B	100	1	SVD	06/22/10 16:09	2.05	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 6.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0043)	30	1	06/21/10 20:45	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0017)	0.005	1	06/21/10 20:45	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0043)	0.4	1	06/21/10 20:45	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0043)	3	1	06/21/10 20:45	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0043)	2	1	06/21/10 20:45	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0043)	1000	1	06/21/10 20:45	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0043)	10	1	06/21/10 20:45	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0043)	9	1	06/21/10 20:45	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0043)	10	1	06/21/10 20:45	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0043)	1	1	06/21/10 20:45	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0043)	500	1	06/21/10 20:45	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0043)	0.7	1	06/21/10 20:45	CTF0142	CF02121
1,4-Dioxane	ND (0.0855)	0.2	1	06/21/10 20:45	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121
2-Butanone	ND (0.0427)	4	1	06/21/10 20:45	CTF0142	CF02121
2-Chlorotoluene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
2-Hexanone	ND (0.0427)	100	1	06/21/10 20:45	CTF0142	CF02121
4-Chlorotoluene	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0427)	0.4	1	06/21/10 20:45	CTF0142	CF02121
Acetone	ND (0.0427)	6	1	06/21/10 20:45	CTF0142	CF02121
Benzene	ND (0.0043)	2	1	06/21/10 20:45	CTF0142	CF02121
Bromobenzene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
Bromochloromethane	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 6.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
Bromoform	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
Bromomethane	ND (0.0085)	0.5	1	06/21/10 20:45	CTF0142	CF02121
Carbon Disulfide	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0043)	5	1	06/21/10 20:45	CTF0142	CF02121
Chlorobenzene	ND (0.0043)	1	1	06/21/10 20:45	CTF0142	CF02121
Chloroethane	ND (0.0085)	100	1	06/21/10 20:45	CTF0142	CF02121
Chloroform	ND (0.0043)	0.3	1	06/21/10 20:45	CTF0142	CF02121
Chloromethane	ND (0.0085)	100	1	06/21/10 20:45	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0043)	0.3	1	06/21/10 20:45	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0043)	0.01	1	06/21/10 20:45	CTF0142	CF02121
Dibromochloromethane	ND (0.0017)	0.005	1	06/21/10 20:45	CTF0142	CF02121
Dibromomethane	ND (0.0043)	500	1	06/21/10 20:45	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0085)	1000	1	06/21/10 20:45	CTF0142	CF02121
Diethyl Ether	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
Di-isopropyl ether	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121
Ethylbenzene	ND (0.0043)	40	1	06/21/10 20:45	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0043)	6	1	06/21/10 20:45	CTF0142	CF02121
Isopropylbenzene	ND (0.0043)	1000	1	06/21/10 20:45	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0043)	0.1	1	06/21/10 20:45	CTF0142	CF02121
Methylene Chloride	ND (0.0214)	0.1	1	06/21/10 20:45	CTF0142	CF02121
Naphthalene	ND (0.0043)	4	1	06/21/10 20:45	CTF0142	CF02121
n-Butylbenzene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
n-Propylbenzene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
sec-Butylbenzene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
Styrene	ND (0.0043)	3	1	06/21/10 20:45	CTF0142	CF02121
tert-Butylbenzene	ND (0.0043)	100	1	06/21/10 20:45	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0043)		1	06/21/10 20:45	CTF0142	CF02121
Tetrachloroethene	ND (0.0043)	1	1	06/21/10 20:45	CTF0142	CF02121
Tetrahydrofuran	ND (0.0043)	500	1	06/21/10 20:45	CTF0142	CF02121
Toluene	ND (0.0043)	30	1	06/21/10 20:45	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 6.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0043)	1	1	06/21/10 20:45	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0043)	0.01	1	06/21/10 20:45	CTF0142	CF02121
Trichloroethene	ND (0.0043)	0.3	1	06/21/10 20:45	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0043)	1000	1	06/21/10 20:45	CTF0142	CF02121
Vinyl Chloride	ND (0.0085)	3	1	06/21/10 20:45	CTF0142	CF02121
Xylene O	ND (0.0043)	300	1	06/21/10 20:45	CTF0142	CF02121
Xylene P,M	ND (0.0085)	300	1	06/21/10 20:45	CTF0142	CF02121
Xylenes (Total)	ND (0.0128)	300	1	06/21/10 20:45		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*116 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*106 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1221	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1232	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1242	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1248	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1254	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1260	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1262	ND (0.0570)	2	1	06/22/10 2:01		CF02126
Aroclor 1268	ND (0.0570)	2	1	06/22/10 2:01		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*59 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*50 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*59 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	42.1 (41.3)	1000	1	06/22/10 3:46	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*86 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.037)	0.05	10	06/22/10 20:15	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.365)	2	1	06/22/10 3:31	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.365)	9	1	06/22/10 3:31	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.365)	1	1	06/22/10 3:31	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.365)	4	1	06/22/10 3:31	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.83)	3	1	06/22/10 3:31	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.365)	100	1	06/22/10 3:31	CTF0145	CF02123
2-Chloronaphthalene	ND (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123
2-Chlorophenol	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2-Methylnaphthalene	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
2-Methylphenol	ND (0.365)	500	1	06/22/10 3:31	CTF0145	CF02123
2-Nitrophenol	ND (0.365)	100	1	06/22/10 3:31	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.731)	1	1	06/22/10 3:31	CTF0145	CF02123
3+4-Methylphenol	ND (0.731)	500	1	06/22/10 3:31	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.365)	100	1	06/22/10 3:31	CTF0145	CF02123
4-Chloroaniline	ND (0.731)	1	1	06/22/10 3:31	CTF0145	CF02123
4-Nitrophenol	ND (1.83)	100	1	06/22/10 3:31	CTF0145	CF02123
Acenaphthene	ND (0.365)	4	1	06/22/10 3:31	CTF0145	CF02123
Acenaphthylene	ND (0.365)	1	1	06/22/10 3:31	CTF0145	CF02123
Acetophenone	ND (0.731)	1000	1	06/22/10 3:31	CTF0145	CF02123
Aniline	ND (1.83)	1000	1	06/22/10 3:31	CTF0145	CF02123
Anthracene	ND (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123
Azobenzene	ND (0.365)	50	1	06/22/10 3:31	CTF0145	CF02123
Benzo(a)anthracene	**1.25** (0.365)	7	1	06/22/10 3:31	CTF0145	CF02123
Benzo(a)pyrene	**1.21** (0.183)	2	1	06/22/10 3:31	CTF0145	CF02123
Benzo(b)fluoranthene	**0.894** (0.365)	7	1	06/22/10 3:31	CTF0145	CF02123
Benzo(g,h,i)perylene	**0.653** (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	**1.05** (0.365)	70	1	06/22/10 3:31	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.365)	500	1	06/22/10 3:31	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.365)	200	1	06/22/10 3:31	CTF0145	CF02123
Butylbenzylphthalate	ND (0.365)	100	1	06/22/10 3:31	CTF0145	CF02123
Chrysene	**1.11** (0.183)	70	1	06/22/10 3:31	CTF0145	CF02123
Dibenzo(a,h)Anthracene	**0.198** (0.183)	0.7	1	06/22/10 3:31	CTF0145	CF02123
Dibenzofuran	ND (0.365)	100	1	06/22/10 3:31	CTF0145	CF02123
Diethylphthalate	ND (0.365)	10	1	06/22/10 3:31	CTF0145	CF02123
Dimethylphthalate	ND (0.365)	30	1	06/22/10 3:31	CTF0145	CF02123
Di-n-butylphthalate	ND (0.365)	50	1	06/22/10 3:31	CTF0145	CF02123
Di-n-octylphthalate	ND (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123
Fluoranthene	**2.35** (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123
Fluorene	ND (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123
Hexachlorobenzene	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
Hexachlorobutadiene	ND (0.365)	6	1	06/22/10 3:31	CTF0145	CF02123
Hexachloroethane	ND (0.365)	0.7	1	06/22/10 3:31	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	**0.629** (0.365)	7	1	06/22/10 3:31	CTF0145	CF02123
Isophorone	ND (0.365)	100	1	06/22/10 3:31	CTF0145	CF02123
Naphthalene	ND (0.365)	4	1	06/22/10 3:31	CTF0145	CF02123
Nitrobenzene	ND (0.365)	500	1	06/22/10 3:31	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.365)	50	1	06/22/10 3:31	CTF0145	CF02123
Pentachlorophenol	ND (1.83)	3	1	06/22/10 3:31	CTF0145	CF02123
Phenanthrene	**1.26** (0.365)	10	1	06/22/10 3:31	CTF0145	CF02123
Phenol	ND (0.365)	1	1	06/22/10 3:31	CTF0145	CF02123
Pyrene	**2.00** (0.365)	1000	1	06/22/10 3:31	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*57 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: 2-Fluorophenol	*30 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-11
Date Sampled: 06/21/10 11:45
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*77 %*	*30-130*				
Surrogate: Phenol-d6		*58 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*75 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.4)	6010B	20	1	SVD	06/22/10 16:21	2.33	100	CF02127
Barium	17.0 (2.4)	6010B	1000	1	SVD	06/22/10 16:21	2.33	100	CF02127
Cadmium	ND (0.48)	6010B	2	1	SVD	06/22/10 16:21	2.33	100	CF02127
Chromium	10.2 (1.0)	6010B	30	1	SVD	06/22/10 16:21	2.33	100	CF02127
Lead	ND (4.8)	6010B	300	1	SVD	06/22/10 16:21	2.33	100	CF02127
Mercury	ND (0.033)	7471B	20	1	SVD	06/23/10 13:25	0.66	40	CF02129
Selenium	ND (4.8)	6010B	400	1	SVD	06/22/10 16:21	2.33	100	CF02127
Silver	ND (0.48)	6010B	100	1	SVD	06/22/10 16:21	2.33	100	CF02127

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0041)	30	1	06/21/10 21:13	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0017)	0.005	1	06/21/10 21:13	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0041)	0.4	1	06/21/10 21:13	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0041)	3	1	06/21/10 21:13	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0041)	2	1	06/21/10 21:13	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0041)	1000	1	06/21/10 21:13	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0041)	10	1	06/21/10 21:13	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0041)	9	1	06/21/10 21:13	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0041)	10	1	06/21/10 21:13	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0041)	1	1	06/21/10 21:13	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0041)	500	1	06/21/10 21:13	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0041)	0.7	1	06/21/10 21:13	CTF0142	CF02121
1,4-Dioxane	ND (0.0829)	0.2	1	06/21/10 21:13	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121
2-Butanone	ND (0.0415)	4	1	06/21/10 21:13	CTF0142	CF02121
2-Chlorotoluene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
2-Hexanone	ND (0.0415)	100	1	06/21/10 21:13	CTF0142	CF02121
4-Chlorotoluene	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0415)	0.4	1	06/21/10 21:13	CTF0142	CF02121
Acetone	ND (0.0415)	6	1	06/21/10 21:13	CTF0142	CF02121
Benzene	ND (0.0041)	2	1	06/21/10 21:13	CTF0142	CF02121
Bromobenzene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
Bromochloromethane	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
Bromoform	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
Bromomethane	ND (0.0083)	0.5	1	06/21/10 21:13	CTF0142	CF02121
Carbon Disulfide	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0041)	5	1	06/21/10 21:13	CTF0142	CF02121
Chlorobenzene	ND (0.0041)	1	1	06/21/10 21:13	CTF0142	CF02121
Chloroethane	ND (0.0083)	100	1	06/21/10 21:13	CTF0142	CF02121
Chloroform	ND (0.0041)	0.3	1	06/21/10 21:13	CTF0142	CF02121
Chloromethane	ND (0.0083)	100	1	06/21/10 21:13	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0041)	0.3	1	06/21/10 21:13	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0041)	0.01	1	06/21/10 21:13	CTF0142	CF02121
Dibromochloromethane	ND (0.0017)	0.005	1	06/21/10 21:13	CTF0142	CF02121
Dibromomethane	ND (0.0041)	500	1	06/21/10 21:13	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0083)	1000	1	06/21/10 21:13	CTF0142	CF02121
Diethyl Ether	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
Di-isopropyl ether	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121
Ethylbenzene	ND (0.0041)	40	1	06/21/10 21:13	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0041)	6	1	06/21/10 21:13	CTF0142	CF02121
Isopropylbenzene	ND (0.0041)	1000	1	06/21/10 21:13	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0041)	0.1	1	06/21/10 21:13	CTF0142	CF02121
Methylene Chloride	ND (0.0207)	0.1	1	06/21/10 21:13	CTF0142	CF02121
Naphthalene	ND (0.0041)	4	1	06/21/10 21:13	CTF0142	CF02121
n-Butylbenzene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
n-Propylbenzene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
sec-Butylbenzene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
Styrene	ND (0.0041)	3	1	06/21/10 21:13	CTF0142	CF02121
tert-Butylbenzene	ND (0.0041)	100	1	06/21/10 21:13	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0041)		1	06/21/10 21:13	CTF0142	CF02121
Tetrachloroethene	ND (0.0041)	1	1	06/21/10 21:13	CTF0142	CF02121
Tetrahydrofuran	ND (0.0041)	500	1	06/21/10 21:13	CTF0142	CF02121
Toluene	ND (0.0041)	30	1	06/21/10 21:13	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 6.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0041)	1	1	06/21/10 21:13	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0041)	0.01	1	06/21/10 21:13	CTF0142	CF02121
Trichloroethene	ND (0.0041)	0.3	1	06/21/10 21:13	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0041)	1000	1	06/21/10 21:13	CTF0142	CF02121
Vinyl Chloride	ND (0.0083)	3	1	06/21/10 21:13	CTF0142	CF02121
Xylene O	ND (0.0041)	300	1	06/21/10 21:13	CTF0142	CF02121
Xylene P,M	ND (0.0083)	300	1	06/21/10 21:13	CTF0142	CF02121
Xylenes (Total)	ND (0.0124)	300	1	06/21/10 21:13		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*108 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*		*70-130*
Surrogate: Dibromofluoromethane	*104 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: ML
Prepared: 6/21/10 16:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1221	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1232	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1242	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1248	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1254	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1260	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1262	ND (0.0556)	2	1	06/22/10 2:21		CF02126
Aroclor 1268	ND (0.0556)	2	1	06/22/10 2:21		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*53 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*43 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*51 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 16:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (41.5)	1000	1	06/22/10 2:36	CTF0138	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*91 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.008)	0.05	2	06/22/10 16:08	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.375)	2	1	06/22/10 4:01	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.375)	9	1	06/22/10 4:01	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.375)	1	1	06/22/10 4:01	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.375)	4	1	06/22/10 4:01	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.88)	3	1	06/22/10 4:01	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.375)	100	1	06/22/10 4:01	CTF0145	CF02123
2-Chloronaphthalene	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123
2-Chlorophenol	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2-Methylnaphthalene	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
2-Methylphenol	ND (0.375)	500	1	06/22/10 4:01	CTF0145	CF02123
2-Nitrophenol	ND (0.375)	100	1	06/22/10 4:01	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.751)	1	1	06/22/10 4:01	CTF0145	CF02123
3+4-Methylphenol	ND (0.751)	500	1	06/22/10 4:01	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.375)	100	1	06/22/10 4:01	CTF0145	CF02123
4-Chloroaniline	ND (0.751)	1	1	06/22/10 4:01	CTF0145	CF02123
4-Nitrophenol	ND (1.88)	100	1	06/22/10 4:01	CTF0145	CF02123
Acenaphthene	ND (0.375)	4	1	06/22/10 4:01	CTF0145	CF02123
Acenaphthylene	ND (0.375)	1	1	06/22/10 4:01	CTF0145	CF02123
Acetophenone	ND (0.751)	1000	1	06/22/10 4:01	CTF0145	CF02123
Aniline	ND (1.88)	1000	1	06/22/10 4:01	CTF0145	CF02123
Anthracene	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123
Azobenzene	ND (0.375)	50	1	06/22/10 4:01	CTF0145	CF02123
Benzo(a)anthracene	ND (0.375)	7	1	06/22/10 4:01	CTF0145	CF02123
Benzo(a)pyrene	ND (0.188)	2	1	06/22/10 4:01	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.375)	7	1	06/22/10 4:01	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.375)	70	1	06/22/10 4:01	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.375)	500	1	06/22/10 4:01	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.375)	200	1	06/22/10 4:01	CTF0145	CF02123
Butylbenzylphthalate	ND (0.375)	100	1	06/22/10 4:01	CTF0145	CF02123
Chrysene	ND (0.188)	70	1	06/22/10 4:01	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.188)	0.7	1	06/22/10 4:01	CTF0145	CF02123
Dibenzofuran	ND (0.375)	100	1	06/22/10 4:01	CTF0145	CF02123
Diethylphthalate	ND (0.375)	10	1	06/22/10 4:01	CTF0145	CF02123
Dimethylphthalate	ND (0.375)	30	1	06/22/10 4:01	CTF0145	CF02123
Di-n-butylphthalate	ND (0.375)	50	1	06/22/10 4:01	CTF0145	CF02123
Di-n-octylphthalate	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123
Fluoranthene	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123
Fluorene	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123
Hexachlorobenzene	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
Hexachlorobutadiene	ND (0.375)	6	1	06/22/10 4:01	CTF0145	CF02123
Hexachloroethane	ND (0.375)	0.7	1	06/22/10 4:01	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.375)	7	1	06/22/10 4:01	CTF0145	CF02123
Isophorone	ND (0.375)	100	1	06/22/10 4:01	CTF0145	CF02123
Naphthalene	ND (0.375)	4	1	06/22/10 4:01	CTF0145	CF02123
Nitrobenzene	ND (0.375)	500	1	06/22/10 4:01	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.375)	50	1	06/22/10 4:01	CTF0145	CF02123
Pentachlorophenol	ND (1.88)	3	1	06/22/10 4:01	CTF0145	CF02123
Phenanthrene	ND (0.375)	10	1	06/22/10 4:01	CTF0145	CF02123
Phenol	ND (0.375)	1	1	06/22/10 4:01	CTF0145	CF02123
Pyrene	ND (0.375)	1000	1	06/22/10 4:01	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*53 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*52 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*57 %*		*30-130*
Surrogate: 2-Fluorophenol	*23 %*	*S-*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: DUP-1
Date Sampled: 06/21/10 00:00
Percent Solids: 90
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*63 %*	*30-130*				
Surrogate: Phenol-d6		*45 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*73 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 06/21/10 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-12
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
1,1,1-Trichloroethane	ND (0.0050)	30	1	06/21/10 16:01	CTF0142	CF02121
1,1,2,2-Tetrachloroethane	ND (0.0020)	0.005	1	06/21/10 16:01	CTF0142	CF02121
1,1,2-Trichloroethane	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
1,1-Dichloroethane	ND (0.0050)	0.4	1	06/21/10 16:01	CTF0142	CF02121
1,1-Dichloroethene	ND (0.0050)	3	1	06/21/10 16:01	CTF0142	CF02121
1,1-Dichloropropene	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
1,2,3-Trichlorobenzene	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
1,2,3-Trichloropropane	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
1,2,4-Trichlorobenzene	ND (0.0050)	2	1	06/21/10 16:01	CTF0142	CF02121
1,2,4-Trimethylbenzene	ND (0.0050)	1000	1	06/21/10 16:01	CTF0142	CF02121
1,2-Dibromo-3-Chloropropane	ND (0.0050)	10	1	06/21/10 16:01	CTF0142	CF02121
1,2-Dibromoethane	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
1,2-Dichlorobenzene	ND (0.0050)	9	1	06/21/10 16:01	CTF0142	CF02121
1,2-Dichloroethane	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
1,2-Dichloropropane	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
1,3,5-Trimethylbenzene	ND (0.0050)	10	1	06/21/10 16:01	CTF0142	CF02121
1,3-Dichlorobenzene	ND (0.0050)	1	1	06/21/10 16:01	CTF0142	CF02121
1,3-Dichloropropane	ND (0.0050)	500	1	06/21/10 16:01	CTF0142	CF02121
1,4-Dichlorobenzene	ND (0.0050)	0.7	1	06/21/10 16:01	CTF0142	CF02121
1,4-Dioxane	ND (0.100)	0.2	1	06/21/10 16:01	CTF0142	CF02121
2,2-Dichloropropane	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
2-Butanone	ND (0.0500)	4	1	06/21/10 16:01	CTF0142	CF02121
2-Chlorotoluene	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
2-Hexanone	ND (0.0500)	100	1	06/21/10 16:01	CTF0142	CF02121
4-Chlorotoluene	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
4-Isopropyltoluene	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
4-Methyl-2-Pentanone	ND (0.0500)	0.4	1	06/21/10 16:01	CTF0142	CF02121
Acetone	ND (0.0500)	3	1	06/21/10 16:01	CTF0142	CF02121
Benzene	ND (0.0050)	2	1	06/21/10 16:01	CTF0142	CF02121
Bromobenzene	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
Bromochloromethane	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 06/21/10 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-12
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCSI Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
Bromoform	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
Bromomethane	ND (0.0100)	3	1	06/21/10 16:01	CTF0142	CF02121
Carbon Disulfide	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
Carbon Tetrachloride	ND (0.0050)	5	1	06/21/10 16:01	CTF0142	CF02121
Chlorobenzene	ND (0.0050)	1	1	06/21/10 16:01	CTF0142	CF02121
Chloroethane	ND (0.0100)	100	1	06/21/10 16:01	CTF0142	CF02121
Chloroform	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
Chloromethane	ND (0.0100)	100	1	06/21/10 16:01	CTF0142	CF02121
cis-1,2-Dichloroethene	ND (0.0050)	0.3	1	06/21/10 16:01	CTF0142	CF02121
cis-1,3-Dichloropropene	ND (0.0050)	0.01	1	06/21/10 16:01	CTF0142	CF02121
Dibromochloromethane	ND (0.0020)	0.005	1	06/21/10 16:01	CTF0142	CF02121
Dibromomethane	ND (0.0050)	500	1	06/21/10 16:01	CTF0142	CF02121
Dichlorodifluoromethane	ND (0.0100)	1000	1	06/21/10 16:01	CTF0142	CF02121
Diethyl Ether	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
Di-isopropyl ether	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
Ethyl tertiary-butyl ether	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
Ethylbenzene	ND (0.0050)	80	1	06/21/10 16:01	CTF0142	CF02121
Hexachlorobutadiene	ND (0.0050)	6	1	06/21/10 16:01	CTF0142	CF02121
Isopropylbenzene	ND (0.0050)	1000	1	06/21/10 16:01	CTF0142	CF02121
Methyl tert-Butyl Ether	ND (0.0050)	0.1	1	06/21/10 16:01	CTF0142	CF02121
Methylene Chloride	ND (0.0250)	0.1	1	06/21/10 16:01	CTF0142	CF02121
Naphthalene	ND (0.0050)	4	1	06/21/10 16:01	CTF0142	CF02121
n-Butylbenzene	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
n-Propylbenzene	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
sec-Butylbenzene	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
Styrene	ND (0.0050)	3	1	06/21/10 16:01	CTF0142	CF02121
tert-Butylbenzene	ND (0.0050)	100	1	06/21/10 16:01	CTF0142	CF02121
Tertiary-amyl methyl ether	ND (0.0050)		1	06/21/10 16:01	CTF0142	CF02121
Tetrachloroethene	ND (0.0050)	1	1	06/21/10 16:01	CTF0142	CF02121
Tetrahydrofuran	ND (0.0050)	500	1	06/21/10 16:01	CTF0142	CF02121
Toluene	ND (0.0050)	30	1	06/21/10 16:01	CTF0142	CF02121

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 06/21/10 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006324
ESS Laboratory Sample ID: 1006324-12
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0050)	1	1	06/21/10 16:01	CTF0142	CF02121
trans-1,3-Dichloropropene	ND (0.0050)	0.01	1	06/21/10 16:01	CTF0142	CF02121
Trichloroethene	ND (0.0050)	0.3	1	06/21/10 16:01	CTF0142	CF02121
Trichlorofluoromethane	ND (0.0050)	1000	1	06/21/10 16:01	CTF0142	CF02121
Vinyl Chloride	ND (0.0100)	0.6	1	06/21/10 16:01	CTF0142	CF02121
Xylene O	ND (0.0050)	300	1	06/21/10 16:01	CTF0142	CF02121
Xylene P,M	ND (0.0100)	300	1	06/21/10 16:01	CTF0142	CF02121
Xylenes (Total)	ND (0.0075)		1	06/21/10 16:01	CTF0142	CF02121

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*106 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			3050B/6000/7000 Total Metals							
Batch CF02127 - 3050B										
Blank										
Arsenic	ND	3.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
LCS										
Arsenic	31.8	3.3	mg/kg wet	33.33		95	80-120			
Barium	33.1	3.3	mg/kg wet	33.33		99	80-120			
Cadmium	16.2	0.67	mg/kg wet	16.67		97	80-120			
Chromium	33.7	1.3	mg/kg wet	33.33		101	80-120			
Lead	34.2	6.7	mg/kg wet	33.33		103	80-120			
Selenium	63.4	6.7	mg/kg wet	66.67		95	80-120			
Silver	16.8	0.67	mg/kg wet	16.67		101	80-120			
LCS Dup										
Arsenic	32.4	3.3	mg/kg wet	33.33		97	80-120	2	20	
Barium	33.2	3.3	mg/kg wet	33.33		100	80-120	0.5	20	
Cadmium	16.3	0.67	mg/kg wet	16.67		98	80-120	0.08	20	
Chromium	34.1	1.3	mg/kg wet	33.33		102	80-120	1	20	
Lead	34.3	6.7	mg/kg wet	33.33		103	80-120	0.1	20	
Selenium	63.4	6.7	mg/kg wet	66.67		95	80-120	0.03	20	
Silver	17.0	0.67	mg/kg wet	16.67		102	80-120	0.8	20	
Duplicate **Source: 1006324-05**										
Arsenic	1.36	2.3	mg/kg dry		5.76			123	35	
Barium	27.5	2.3	mg/kg dry		40.5			38	35	D+
Cadmium	0.105	0.47	mg/kg dry		ND				35	
Chromium	9.22	0.9	mg/kg dry		9.06			2	35	
Lead	78.1	46.9	mg/kg dry		362			129	35	D+
Selenium	1.52	4.7	mg/kg dry		2.16			35	35	
Silver	ND	0.47	mg/kg dry		3.39			200	35	D+
Duplicate **Source: 1006324-11**										
Arsenic	ND	2.5	mg/kg dry		ND				35	
Barium	18.9	2.5	mg/kg dry		17.0			11	35	
Cadmium	ND	0.51	mg/kg dry		ND				35	
Chromium	8.88	1.0	mg/kg dry		10.2			14	35	
Lead	4.10	5.1	mg/kg dry		3.61			13	35	
Selenium	0.642	5.1	mg/kg dry		1.75			93	35	
Silver	ND	0.51	mg/kg dry		ND				35	
Matrix Spike **Source: 1006324-05**										
Arsenic	22.2	2.5	mg/kg dry	25.14	5.76	66	75-125			M-
Barium	51.3	2.5	mg/kg dry	25.14	40.5	43	75-125			M-
Cadmium	11.0	0.51	mg/kg dry	12.57	ND	88	75-125			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch CF02127 - 3050B										
Chromium	32.8	1.0	mg/kg dry	25.14	9.06	94	75-125			
Lead	105	50.3	mg/kg dry	25.14	362	NR	75-125			M-
Selenium	44.9	5.0	mg/kg dry	50.28	2.16	85	75-125			
Silver	12.1	0.51	mg/kg dry	12.57	3.39	69	75-125			M-
Matrix Spike Source: 1006324-11										
Arsenic	23.2	2.7	mg/kg dry	26.58	ND	87	75-125			
Barium	45.1	2.7	mg/kg dry	26.58	17.0	106	75-125			
Cadmium	11.8	0.53	mg/kg dry	13.29	ND	89	75-125			
Chromium	35.2	1.1	mg/kg dry	26.58	10.2	94	75-125			
Lead	29.1	5.3	mg/kg dry	26.58	3.61	96	75-125			
Selenium	48.9	5.3	mg/kg dry	53.16	1.75	89	75-125			
Silver	12.9	0.53	mg/kg dry	13.29	ND	97	75-125			
Reference										
Arsenic	137	9.1	mg/kg wet	138.0		100	83-117			
Barium	265	9.1	mg/kg wet	269.0		98	79-121			
Cadmium	69.7	1.83	mg/kg wet	71.00		98	83-117			
Chromium	105	3.6	mg/kg wet	105.0		100	80-119			
Lead	149	18.2	mg/kg wet	144.0		103	81-119			
Selenium	201	18.2	mg/kg wet	200.0		100	80-120			
Silver	47.9	1.83	mg/kg wet	45.10		106	66-134			
Reference										
Arsenic	142	8.8	mg/kg wet	138.0		103	83-117			
Barium	268	8.8	mg/kg wet	269.0		100	79-121			
Cadmium	71.8	1.76	mg/kg wet	71.00		101	83-117			
Chromium	103	3.5	mg/kg wet	105.0		98	80-119			
Lead	154	17.6	mg/kg wet	144.0		107	81-119			
Selenium	208	17.6	mg/kg wet	200.0		104	80-120			
Silver	48.3	1.76	mg/kg wet	45.10		107	66-134			
Batch CF02129 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.239	0.033	mg/kg wet	0.2000		120	80-120			
LCS Dup										
Mercury	0.229	0.033	mg/kg wet	0.2000		114	80-120	4	20	
Duplicate Source: 1006324-05										
Mercury	0.0528	0.031	mg/kg dry		0.0669			24	35	
Duplicate Source: 1006324-11										
Mercury	0.0112	0.033	mg/kg dry		0.0115			2	35	
Matrix Spike Source: 1006324-05										
Mercury	0.350	0.036	mg/kg dry	0.2186	0.0669	129	75-125			M+
Matrix Spike Source: 1006324-11										
Mercury	0.264	0.031	mg/kg dry	0.1878	0.0115	134	75-125			M+

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch CF02129 - 7471A										
Matrix Spike Dup **Source: 1006324-05**										
Mercury	0.363	0.033	mg/kg dry	0.2020	0.0669	146	75-125	12	35	M+
Matrix Spike Dup **Source: 1006324-11**										
Mercury	0.286	0.034	mg/kg dry	0.2051	0.0115	134	75-125	0.6	35	M+
Reference										
Mercury	29.7	2.91	mg/kg wet	25.30		118	72-128			
Reference										
Mercury	30.3	2.83	mg/kg wet	25.30		120	72-128			
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02121 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02121 - 5035										
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0518*		mg/kg wet	*0.05000*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0510*		mg/kg wet	*0.05000*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0501*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.0511*		mg/kg wet	*0.05000*		*102*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02121 - 5035										
1,1,1-Trichloroethane	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
1,1,2,2-Tetrachloroethane	0.0537	0.0020	mg/kg wet	0.05000		107	70-130			
1,1,2-Trichloroethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
1,1-Dichloroethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,1-Dichloroethene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloropropene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,2,3-Trichlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
1,2,3-Trichloropropane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130			
1,2,4-Trichlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
1,2,4-Trimethylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dibromo-3-Chloropropane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
1,2-Dibromoethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichloroethane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,3,5-Trimethylbenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichlorobenzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
1,3-Dichloropropane	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,4-Dioxane	1.24	0.100	mg/kg wet	1.000		124	70-130			
2,2-Dichloropropane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
2-Butanone	0.289	0.0500	mg/kg wet	0.2500		116	70-130			
2-Chlorotoluene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
2-Hexanone	0.265	0.0500	mg/kg wet	0.2500		106	70-130			
4-Chlorotoluene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
4-Isopropyltoluene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
4-Methyl-2-Pentanone	0.277	0.0500	mg/kg wet	0.2500		111	70-130			
Acetone	0.242	0.0500	mg/kg wet	0.2500		97	70-130			
Benzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Bromobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
Bromochloromethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
Bromodichloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Bromoform	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Bromomethane	0.0489	0.0100	mg/kg wet	0.05000		98	70-130			
Carbon Disulfide	0.0579	0.0050	mg/kg wet	0.05000		116	70-130			
Carbon Tetrachloride	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
Chlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
Chloroethane	0.0488	0.0100	mg/kg wet	0.05000		98	70-130			
Chloroform	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
Chloromethane	0.0452	0.0100	mg/kg wet	0.05000		90	70-130			
cis-1,2-Dichloroethene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
cis-1,3-Dichloropropene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Dibromochloromethane	0.0480	0.0020	mg/kg wet	0.05000		96	70-130			
Dibromomethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
Dichlorodifluoromethane	0.0428	0.0100	mg/kg wet	0.05000		86	70-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02121 - 5035										
Diethyl Ether	0.0359	0.0050	mg/kg wet	0.05000		72	70-130			
Di-isopropyl ether	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
Ethyl tertiary-butyl ether	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Ethylbenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Hexachlorobutadiene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Isopropylbenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Methyl tert-Butyl Ether	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Methylene Chloride	0.0541	0.0250	mg/kg wet	0.05000		108	70-130			
Naphthalene	0.0598	0.0050	mg/kg wet	0.05000		120	70-130			
n-Butylbenzene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
n-Propylbenzene	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
sec-Butylbenzene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
Styrene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
tert-Butylbenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Tertiary-amyl methyl ether	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
Tetrachloroethene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Tetrahydrofuran	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Toluene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
trans-1,2-Dichloroethene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
trans-1,3-Dichloropropene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Trichloroethene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Trichlorofluoromethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Vinyl Chloride	0.0491	0.0100	mg/kg wet	0.05000		98	70-130			
Xylene O	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Xylene P,M	0.0997	0.0100	mg/kg wet	0.1000		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0478*		mg/kg wet	*0.05000*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/kg wet	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0492*		mg/kg wet	*0.05000*		*98*	*70-130*			
Surrogate: Toluene-d8	*0.0488*		mg/kg wet	*0.05000*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	9	25	
1,1,1-Trichloroethane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0471	0.0020	mg/kg wet	0.05000		94	70-130	13	25	
1,1,2-Trichloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
1,1-Dichloroethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,1-Dichloroethene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	7	25	
1,1-Dichloropropene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	6	25	
1,2,3-Trichlorobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
1,2,3-Trichloropropane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	14	25	
1,2,4-Trichlorobenzene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	0.9	25	
1,2,4-Trimethylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	3	25	
1,2-Dibromo-3-Chloropropane	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	20	25	
1,2-Dibromoethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	11	25	
1,2-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
1,2-Dichloroethane	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	10	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02121 - 5035										
1,2-Dichloropropane	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	11	25	
1,3,5-Trimethylbenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	3	25	
1,3-Dichlorobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
1,3-Dichloropropane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	15	25	
1,4-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
1,4-Dioxane	1.06	0.100	mg/kg wet	1.000		106	70-130	15	20	
2,2-Dichloropropane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	0.8	25	
2-Butanone	0.226	0.0500	mg/kg wet	0.2500		90	70-130	25	25	
2-Chlorotoluene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
2-Hexanone	0.234	0.0500	mg/kg wet	0.2500		94	70-130	13	25	
4-Chlorotoluene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	4	25	
4-Isopropyltoluene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
4-Methyl-2-Pentanone	0.245	0.0500	mg/kg wet	0.2500		98	70-130	13	25	
Acetone	0.232	0.0500	mg/kg wet	0.2500		93	70-130	4	25	
Benzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	0.8	25	
Bromobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	6	25	
Bromochloromethane	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	7	25	
Bromodichloromethane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	7	25	
Bromoform	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	13	25	
Bromomethane	0.0496	0.0100	mg/kg wet	0.05000		99	70-130	1	25	
Carbon Disulfide	0.0567	0.0050	mg/kg wet	0.05000		113	70-130	2	25	
Carbon Tetrachloride	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	4	25	
Chlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
Chloroethane	0.0497	0.0100	mg/kg wet	0.05000		99	70-130	2	25	
Chloroform	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	7	25	
Chloromethane	0.0465	0.0100	mg/kg wet	0.05000		93	70-130	3	25	
cis-1,2-Dichloroethene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
cis-1,3-Dichloropropene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	9	25	
Dibromochloromethane	0.0418	0.0020	mg/kg wet	0.05000		84	70-130	14	25	
Dibromomethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
Dichlorodifluoromethane	0.0434	0.0100	mg/kg wet	0.05000		87	70-130	1	25	
Diethyl Ether	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	28	25	D+
Di-isopropyl ether	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	9	25	
Ethyl tertiary-butyl ether	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	7	25	
Ethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
Hexachlorobutadiene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Isopropylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	6	25	
Methyl tert-Butyl Ether	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	13	25	
Methylene Chloride	0.0535	0.0250	mg/kg wet	0.05000		107	70-130	1	25	
Naphthalene	0.0581	0.0050	mg/kg wet	0.05000		116	70-130	3	25	
n-Butylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
n-Propylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	3	25	
sec-Butylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
Styrene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	0.08	25	
tert-Butylbenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	4	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02121 - 5035										
Tertiary-amyl methyl ether	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	6	25	
Tetrachloroethene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	7	25	
Tetrahydrofuran	0.0414	0.0050	mg/kg wet	0.05000		83	70-130	20	25	
Toluene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
trans-1,2-Dichloroethene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	6	25	
trans-1,3-Dichloropropene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	5	25	
Trichloroethene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	8	25	
Trichlorofluoromethane	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	5	25	
Vinyl Chloride	0.0478	0.0100	mg/kg wet	0.05000		96	70-130	3	25	
Xylene O	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	0.6	25	
Xylene P,M	0.0981	0.0100	mg/kg wet	0.1000		98	70-130	2	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0448*		mg/kg wet	*0.05000*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0496*		mg/kg wet	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0469*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: Toluene-d8	*0.0479*		mg/kg wet	*0.05000*		*96*	*70-130*			
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0255*		mg/kg wet	*0.02500*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0204*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0236*		mg/kg wet	*0.02500*		*94*	*30-150*			
LCS										
Aroclor 1016	0.485	0.0500	mg/kg wet	0.5000		97	40-140			
Aroclor 1260	0.499	0.0500	mg/kg wet	0.5000		100	40-140			
Surrogate: Decachlorobiphenyl	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0244*		mg/kg wet	*0.02500*		*98*	*30-150*			
LCS Dup										
Aroclor 1016	0.474	0.0500	mg/kg wet	0.5000		95	40-140	2	30	
Aroclor 1260	0.487	0.0500	mg/kg wet	0.5000		97	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Surrogate: Decachlorobiphenyl [2C]	*0.0263*		mg/kg wet	*0.02500*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0214*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0238*		mg/kg wet	*0.02500*		*95*	*30-150*			
Matrix Spike **Source: 1006324-09**										
Aroclor 1016	0.450	0.0525	mg/kg dry	0.5245	ND	86	40-140			
Aroclor 1260	0.464	0.0525	mg/kg dry	0.5245	ND	89	40-140			
Surrogate: Decachlorobiphenyl	*0.0210*		mg/kg dry	*0.02623*		*80*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0253*		mg/kg dry	*0.02623*		*97*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0189*		mg/kg dry	*0.02623*		*72*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0206*		mg/kg dry	*0.02623*		*79*	*30-150*			
Matrix Spike Dup **Source: 1006324-09**										
Aroclor 1016	0.514	0.0530	mg/kg dry	0.5297	ND	97	40-140	13	30	
Aroclor 1260	0.512	0.0530	mg/kg dry	0.5297	ND	97	40-140	10	30	
Surrogate: Decachlorobiphenyl	*0.0228*		mg/kg dry	*0.02648*		*86*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0277*		mg/kg dry	*0.02648*		*105*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg dry	*0.02648*		*83*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0244*		mg/kg dry	*0.02648*		*92*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch CF02125 - 3546										
Blank										
Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
Surrogate: O-Terphenyl	*4.67*		mg/kg wet	*5.000*		*93*	*40-140*			
LCS										
Decane (C10)	2.2	0.2	mg/kg wet	2.500		86	40-140			
Docosane (C22)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Dodecane (C12)	2.5	0.2	mg/kg wet	2.500		98	40-140			
Eicosane (C20)	2.3	0.2	mg/kg wet	2.500		94	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Total Petroleum Hydrocarbons										
Batch CF02125 - 3546										
Hexacosane (C26)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Nonadecane (C19)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Nonane (C9)	1.9	0.2	mg/kg wet	2.500		75	30-140			
Octacosane (C28)	2.3	0.2	mg/kg wet	2.500		94	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		94	40-140			
Tetracosane (C24)	2.4	0.2	mg/kg wet	2.500		94	40-140			
Tetradecane (C14)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		95	40-140			
Surrogate: O-Terphenyl	*4.52*		mg/kg wet	*5.000*		*90*	*40-140*			
LCS Dup										
Decane (C10)	2.2	0.2	mg/kg wet	2.500		90	40-140	4	50	
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		95	40-140	4	50	
Dodecane (C12)	2.6	0.2	mg/kg wet	2.500		102	40-140	4	50	
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Hexacosane (C26)	2.4	0.2	mg/kg wet	2.500		96	40-140	4	50	
Hexadecane (C16)	2.4	0.2	mg/kg wet	2.500		96	40-140	4	50	
Nonadecane (C19)	2.6	0.2	mg/kg wet	2.500		102	40-140	4	50	
Nonane (C9)	1.9	0.2	mg/kg wet	2.500		77	30-140	4	50	
Octacosane (C28)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Tetracosane (C24)	2.4	0.2	mg/kg wet	2.500		98	40-140	4	50	
Tetradecane (C14)	2.4	0.2	mg/kg wet	2.500		96	40-140	3	50	
Triacontane (C30)	2.5	0.2	mg/kg wet	2.500		99	40-140	4	50	
Surrogate: O-Terphenyl	*4.54*		mg/kg wet	*5.000*		*91*	*40-140*			
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Blank										
1,1-Biphenyl	ND	0.007	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Surrogate: 1,2-Dichlorobenzene-d4	*2.09*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*2.72*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.70*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2-Fluorophenol	*2.56*		mg/kg wet	*5.000*		*51*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.34*		mg/kg wet	*3.333*		*70*	*30-130*			
Surrogate: Phenol-d6	*2.94*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.41*		mg/kg wet	*3.333*		*72*	*30-130*			
LCS										
1,1-Biphenyl	2.74	0.333	mg/kg wet	3.333		82	40-140			
1,2,4-Trichlorobenzene	2.59	0.333	mg/kg wet	3.333		78	40-140			
1,2-Dichlorobenzene	2.68	0.333	mg/kg wet	3.333		80	40-140			
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140			
1,4-Dichlorobenzene	2.54	0.333	mg/kg wet	3.333		76	40-140			
2,4,5-Trichlorophenol	2.84	0.333	mg/kg wet	3.333		85	30-130			
2,4,6-Trichlorophenol	2.79	0.333	mg/kg wet	3.333		84	30-130			
2,4-Dichlorophenol	2.79	0.333	mg/kg wet	3.333		84	30-130			
2,4-Dimethylphenol	2.95	0.333	mg/kg wet	3.333		88	30-130			
2,4-Dinitrophenol	2.30	1.67	mg/kg wet	3.333		69	30-130			
2,4-Dinitrotoluene	3.05	0.333	mg/kg wet	3.333		91	40-140			
2,6-Dintrotoluene	2.94	0.333	mg/kg wet	3.333		88	40-140			
2-Chloronaphthalene	2.32	0.333	mg/kg wet	3.333		70	40-140			
2-Chlorophenol	2.57	0.333	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	4.14	0.333	mg/kg wet	3.333		124	40-140			
2-Methylphenol	2.78	0.333	mg/kg wet	3.333		83	30-130			
2-Nitrophenol	2.53	0.333	mg/kg wet	3.333		76	30-130			
3,3'-Dichlorobenzidine	2.39	0.667	mg/kg wet	3.333		72	40-140			
3+4-Methylphenol	5.52	0.667	mg/kg wet	6.667		83	30-130			
4-Bromophenyl-phenylether	2.64	0.333	mg/kg wet	3.333		79	40-140			
4-Chloroaniline	2.41	0.667	mg/kg wet	3.333		72	40-140			
4-Nitrophenol	3.47	1.67	mg/kg wet	3.333		104	30-130			
Acenaphthene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Acenaphthylene	2.51	0.333	mg/kg wet	3.333		75	40-140			
Acetophenone	2.91	0.667	mg/kg wet	3.333		87	40-140			
Aniline	2.67	1.67	mg/kg wet	3.333		80	40-140			
Anthracene	2.90	0.333	mg/kg wet	3.333		87	40-140			
Azobenzene	2.86	0.333	mg/kg wet	3.333		86	40-140			
Benzo(a)anthracene	2.83	0.333	mg/kg wet	3.333		85	40-140			
Benzo(a)pyrene	2.90	0.167	mg/kg wet	3.333		87	40-140			
Benzo(b)fluoranthene	2.90	0.333	mg/kg wet	3.333		87	40-140			
Benzo(g,h,i)perylene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Benzo(k)fluoranthene	2.94	0.333	mg/kg wet	3.333		88	40-140			
bis(2-Chloroethoxy)methane	2.90	0.333	mg/kg wet	3.333		87	40-140			
bis(2-Chloroethyl)ether	3.03	0.333	mg/kg wet	3.333		91	40-140			
bis(2-chloroisopropyl)Ether	2.71	0.333	mg/kg wet	3.333		81	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
bis(2-Ethylhexyl)phthalate	2.90	0.333	mg/kg wet	3.333		87	40-140			
Butylbenzylphthalate	2.85	0.333	mg/kg wet	3.333		85	40-140			
Chrysene	2.71	0.167	mg/kg wet	3.333		81	40-140			
Dibenzo(a,h)Anthracene	2.69	0.167	mg/kg wet	3.333		81	40-140			
Dibenzofuran	2.81	0.333	mg/kg wet	3.333		84	40-140			
Diethylphthalate	2.94	0.333	mg/kg wet	3.333		88	40-140			
Dimethylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	2.91	0.333	mg/kg wet	3.333		87	40-140			
Di-n-octylphthalate	2.65	0.333	mg/kg wet	3.333		80	40-140			
Fluoranthene	3.18	0.333	mg/kg wet	3.333		95	40-140			
Fluorene	3.00	0.333	mg/kg wet	3.333		90	40-140			
Hexachlorobenzene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Hexachlorobutadiene	2.54	0.333	mg/kg wet	3.333		76	40-140			
Hexachloroethane	2.78	0.333	mg/kg wet	3.333		83	40-140			
Indeno(1,2,3-cd)Pyrene	2.88	0.333	mg/kg wet	3.333		86	40-140			
Isophorone	2.43	0.333	mg/kg wet	3.333		73	40-140			
Naphthalene	2.61	0.333	mg/kg wet	3.333		78	40-140			
Nitrobenzene	3.06	0.333	mg/kg wet	3.333		92	40-140			
N-Nitrosodimethylamine	0.825	0.333	mg/kg wet	3.333		25	40-140			B-
Pentachlorophenol	2.79	1.67	mg/kg wet	3.333		84	30-130			
Phenanthrene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Phenol	3.20	0.333	mg/kg wet	3.333		96	30-130			
Pyrene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.43*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.39*		mg/kg wet	*5.000*		*68*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.15*		mg/kg wet	*5.000*		*63*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.44*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2-Fluorophenol	*2.96*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.73*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: Phenol-d6	*3.51*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.53*		mg/kg wet	*3.333*		*76*	*30-130*			
LCS Dup										
1,1-Biphenyl	2.83	0.333	mg/kg wet	3.333		85	40-140	3	30	
1,2,4-Trichlorobenzene	2.66	0.333	mg/kg wet	3.333		80	40-140	3	30	
1,2-Dichlorobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140	2	30	
1,3-Dichlorobenzene	2.42	0.333	mg/kg wet	3.333		73	40-140	4	30	
1,4-Dichlorobenzene	2.73	0.333	mg/kg wet	3.333		82	40-140	7	30	
2,4,5-Trichlorophenol	2.94	0.333	mg/kg wet	3.333		88	30-130	3	30	
2,4,6-Trichlorophenol	2.95	0.333	mg/kg wet	3.333		88	30-130	5	30	
2,4-Dichlorophenol	2.97	0.333	mg/kg wet	3.333		89	30-130	6	30	
2,4-Dimethylphenol	3.05	0.333	mg/kg wet	3.333		91	30-130	3	30	
2,4-Dinitrophenol	2.43	1.67	mg/kg wet	3.333		73	30-130	5	30	
2,4-Dinitrotoluene	3.14	0.333	mg/kg wet	3.333		94	40-140	3	30	
2,6-Dinitrotoluene	3.08	0.333	mg/kg wet	3.333		92	40-140	5	30	
2-Chloronaphthalene	2.40	0.333	mg/kg wet	3.333		72	40-140	3	30	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
2-Chlorophenol	2.71	0.333	mg/kg wet	3.333		81	30-130	5	30	
2-Methylnaphthalene	4.39	0.333	mg/kg wet	3.333		132	40-140	6	30	
2-Methylphenol	2.92	0.333	mg/kg wet	3.333		88	30-130	5	30	
2-Nitrophenol	2.71	0.333	mg/kg wet	3.333		81	30-130	7	30	
3,3'-Dichlorobenzidine	2.49	0.667	mg/kg wet	3.333		75	40-140	4	30	
3+4-Methylphenol	5.69	0.667	mg/kg wet	6.667		85	30-130	3	30	
4-Bromophenyl-phenylether	2.80	0.333	mg/kg wet	3.333		84	40-140	6	30	
4-Chloroaniline	2.42	0.667	mg/kg wet	3.333		73	40-140	0.5	30	
4-Nitrophenol	3.60	1.67	mg/kg wet	3.333		108	30-130	3	30	
Acenaphthene	2.83	0.333	mg/kg wet	3.333		85	40-140	4	30	
Acenaphthylene	2.60	0.333	mg/kg wet	3.333		78	40-140	4	30	
Acetophenone	2.78	0.667	mg/kg wet	3.333		84	40-140	5	30	
Aniline	2.22	1.67	mg/kg wet	3.333		67	40-140	19	30	
Anthracene	2.94	0.333	mg/kg wet	3.333		88	40-140	1	30	
Azobenzene	2.96	0.333	mg/kg wet	3.333		89	40-140	4	30	
Benzo(a)anthracene	3.16	0.333	mg/kg wet	3.333		95	40-140	11	30	
Benzo(a)pyrene	2.96	0.167	mg/kg wet	3.333		89	40-140	2	30	
Benzo(b)fluoranthene	3.17	0.333	mg/kg wet	3.333		95	40-140	9	30	
Benzo(g,h,i)perylene	2.82	0.333	mg/kg wet	3.333		85	40-140	7	30	
Benzo(k)fluoranthene	2.77	0.333	mg/kg wet	3.333		83	40-140	6	30	
bis(2-Chloroethoxy)methane	2.98	0.333	mg/kg wet	3.333		89	40-140	3	30	
bis(2-Chloroethyl)ether	3.18	0.333	mg/kg wet	3.333		95	40-140	5	30	
bis(2-chloroisopropyl)Ether	2.81	0.333	mg/kg wet	3.333		84	40-140	4	30	
bis(2-Ethylhexyl)phthalate	2.91	0.333	mg/kg wet	3.333		87	40-140	0.6	30	
Butylbenzylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140	2	30	
Chrysene	2.78	0.167	mg/kg wet	3.333		83	40-140	2	30	
Dibenzo(a,h)Anthracene	2.88	0.167	mg/kg wet	3.333		86	40-140	7	30	
Dibenzofuran	2.91	0.333	mg/kg wet	3.333		87	40-140	4	30	
Diethylphthalate	3.00	0.333	mg/kg wet	3.333		90	40-140	2	30	
Dimethylphthalate	2.83	0.333	mg/kg wet	3.333		85	40-140	4	30	
Di-n-butylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140	0.09	30	
Di-n-octylphthalate	2.68	0.333	mg/kg wet	3.333		80	40-140	1	30	
Fluoranthene	3.05	0.333	mg/kg wet	3.333		92	40-140	4	30	
Fluorene	3.01	0.333	mg/kg wet	3.333		90	40-140	0.2	30	
Hexachlorobenzene	2.86	0.333	mg/kg wet	3.333		86	40-140	5	30	
Hexachlorobutadiene	2.61	0.333	mg/kg wet	3.333		78	40-140	3	30	
Hexachloroethane	2.82	0.333	mg/kg wet	3.333		85	40-140	2	30	
Indeno(1,2,3-cd)Pyrene	3.07	0.333	mg/kg wet	3.333		92	40-140	6	30	
Isophorone	2.52	0.333	mg/kg wet	3.333		76	40-140	4	30	
Naphthalene	2.70	0.333	mg/kg wet	3.333		81	40-140	4	30	
Nitrobenzene	3.20	0.333	mg/kg wet	3.333		96	40-140	4	30	
N-Nitrosodimethylamine	0.806	0.333	mg/kg wet	3.333		24	40-140	2	30	B-
Pentachlorophenol	2.87	1.67	mg/kg wet	3.333		86	30-130	3	30	
Phenanthrene	2.73	0.333	mg/kg wet	3.333		82	40-140	4	30	
Phenol	3.02	0.333	mg/kg wet	3.333		91	30-130	6	30	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Pyrene	2.81	0.333	mg/kg wet	3.333		84	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.45*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.51*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.25*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.45*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: 2-Fluorophenol	*2.98*		mg/kg wet	*5.000*		*60*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
Surrogate: Phenol-d6	*3.58*		mg/kg wet	*5.000*		*72*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.58*		mg/kg wet	*3.333*		*77*	*30-130*			
Matrix Spike **Source: 1006324-11**										
1,1-Biphenyl	2.90	0.375	mg/kg dry	3.754	ND	77	40-140			
1,2,4-Trichlorobenzene	2.57	0.375	mg/kg dry	3.754	ND	69	40-140			
1,2-Dichlorobenzene	2.83	0.375	mg/kg dry	3.754	ND	75	40-140			
1,3-Dichlorobenzene	2.66	0.375	mg/kg dry	3.754	ND	71	40-140			
1,4-Dichlorobenzene	2.46	0.375	mg/kg dry	3.754	ND	66	40-140			
2,4,5-Trichlorophenol	2.90	0.375	mg/kg dry	3.754	ND	77	30-130			
2,4,6-Trichlorophenol	2.90	0.375	mg/kg dry	3.754	ND	77	30-130			
2,4-Dichlorophenol	2.82	0.375	mg/kg dry	3.754	ND	75	30-130			
2,4-Dimethylphenol	2.79	0.375	mg/kg dry	3.754	ND	74	30-130			
2,4-Dinitrophenol	2.26	1.88	mg/kg dry	3.754	ND	60	30-130			
2,4-Dinitrotoluene	3.34	0.375	mg/kg dry	3.754	ND	89	40-140			
2,6-Dinitrotoluene	3.29	0.375	mg/kg dry	3.754	ND	88	40-140			
2-Chloronaphthalene	2.44	0.375	mg/kg dry	3.754	ND	65	40-140			
2-Chlorophenol	2.55	0.375	mg/kg dry	3.754	ND	68	30-130			
2-Methylnaphthalene	4.34	0.375	mg/kg dry	3.754	ND	116	40-140			
2-Methylphenol	2.86	0.375	mg/kg dry	3.754	ND	76	30-130			
2-Nitrophenol	2.68	0.375	mg/kg dry	3.754	ND	71	30-130			
3,3'-Dichlorobenzidine	1.88	0.751	mg/kg dry	3.754	ND	50	40-140			
3+4-Methylphenol	6.06	0.751	mg/kg dry	7.508	ND	81	30-130			
4-Bromophenyl-phenylether	2.71	0.375	mg/kg dry	3.754	ND	72	40-140			
4-Chloroaniline	2.30	0.751	mg/kg dry	3.754	ND	61	40-140			
4-Nitrophenol	3.88	1.88	mg/kg dry	3.754	ND	103	30-130			
Acenaphthene	2.90	0.375	mg/kg dry	3.754	ND	77	40-140			
Acenaphthylene	2.67	0.375	mg/kg dry	3.754	ND	71	40-140			
Acetophenone	3.46	0.751	mg/kg dry	3.754	ND	92	40-140			
Aniline	2.53	1.88	mg/kg dry	3.754	ND	67	40-140			
Anthracene	2.95	0.375	mg/kg dry	3.754	ND	79	40-140			
Azobenzene	3.22	0.375	mg/kg dry	3.754	ND	86	40-140			
Benzo(a)anthracene	3.30	0.375	mg/kg dry	3.754	ND	88	40-140			
Benzo(a)pyrene	3.18	0.188	mg/kg dry	3.754	ND	85	40-140			
Benzo(b)fluoranthene	3.39	0.375	mg/kg dry	3.754	ND	90	40-140			
Benzo(g,h,i)perylene	2.34	0.375	mg/kg dry	3.754	ND	62	40-140			
Benzo(k)fluoranthene	3.01	0.375	mg/kg dry	3.754	ND	80	40-140			
bis(2-Chloroethoxy)methane	3.06	0.375	mg/kg dry	3.754	ND	82	40-140			
bis(2-Chloroethyl)ether	3.12	0.375	mg/kg dry	3.754	ND	83	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
bis(2-chloroisopropyl)Ether	2.75	0.375	mg/kg dry	3.754	ND	73	40-140			
bis(2-Ethylhexyl)phthalate	0.822	0.375	mg/kg dry	3.754	ND	22	40-140			M-
Butylbenzylphthalate	0.777	0.375	mg/kg dry	3.754	ND	21	40-140			M-
Chrysene	2.87	0.188	mg/kg dry	3.754	ND	76	40-140			
Dibenzo(a,h)Anthracene	2.74	0.188	mg/kg dry	3.754	ND	73	40-140			
Dibenzofuran	2.98	0.375	mg/kg dry	3.754	ND	79	40-140			
Diethylphthalate	2.79	0.375	mg/kg dry	3.754	ND	74	40-140			
Dimethylphthalate	2.75	0.375	mg/kg dry	3.754	ND	73	40-140			
Di-n-butylphthalate	1.95	0.375	mg/kg dry	3.754	ND	52	40-140			
Di-n-octylphthalate	0.812	0.375	mg/kg dry	3.754	ND	22	40-140			M-
Fluoranthene	3.49	0.375	mg/kg dry	3.754	ND	93	40-140			
Fluorene	4.19	0.375	mg/kg dry	3.754	ND	111	40-140			
Hexachlorobenzene	3.02	0.375	mg/kg dry	3.754	ND	81	40-140			
Hexachlorobutadiene	2.47	0.375	mg/kg dry	3.754	ND	66	40-140			
Hexachloroethane	3.00	0.375	mg/kg dry	3.754	ND	80	40-140			
Indeno(1,2,3-cd)Pyrene	2.84	0.375	mg/kg dry	3.754	ND	76	40-140			
Isophorone	2.44	0.375	mg/kg dry	3.754	ND	65	40-140			
Naphthalene	2.72	0.375	mg/kg dry	3.754	ND	72	40-140			
Nitrobenzene	3.33	0.375	mg/kg dry	3.754	ND	89	40-140			
N-Nitrosodimethylamine	ND	0.375	mg/kg dry	3.754	ND		40-140			M-
Pentachlorophenol	2.81	1.88	mg/kg dry	3.754	ND	75	30-130			
Phenanthrene	2.82	0.375	mg/kg dry	3.754	ND	75	40-140			
Phenol	2.72	0.375	mg/kg dry	3.754	ND	72	30-130			
Pyrene	2.94	0.375	mg/kg dry	3.754	ND	78	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.54*		mg/kg dry	*3.754*		*68*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.39*		mg/kg dry	*5.631*		*60*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.09*		mg/kg dry	*5.631*		*55*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.52*		mg/kg dry	*3.754*		*67*	*30-130*			
Surrogate: 2-Fluorophenol	*1.48*		mg/kg dry	*5.631*		*26*	*30-130*			*S-*
Surrogate: Nitrobenzene-d5	*2.95*		mg/kg dry	*3.754*		*79*	*30-130*			
Surrogate: Phenol-d6	*3.36*		mg/kg dry	*5.631*		*60*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.67*		mg/kg dry	*3.754*		*71*	*30-130*			
Matrix Spike Dup **Source: 1006324-11**										
1,1-Biphenyl	2.50	0.370	mg/kg dry	3.704	ND	68	40-140	15	30	
1,2,4-Trichlorobenzene	2.07	0.370	mg/kg dry	3.704	ND	56	40-140	22	30	
1,2-Dichlorobenzene	2.23	0.370	mg/kg dry	3.704	ND	60	40-140	24	30	
1,3-Dichlorobenzene	1.93	0.370	mg/kg dry	3.704	ND	52	40-140	32	30	D+
1,4-Dichlorobenzene	2.07	0.370	mg/kg dry	3.704	ND	56	40-140	17	30	
2,4,5-Trichlorophenol	2.54	0.370	mg/kg dry	3.704	ND	69	30-130	13	30	
2,4,6-Trichlorophenol	2.55	0.370	mg/kg dry	3.704	ND	69	30-130	13	30	
2,4-Dichlorophenol	2.32	0.370	mg/kg dry	3.704	ND	63	30-130	19	30	
2,4-Dimethylphenol	2.27	0.370	mg/kg dry	3.704	ND	61	30-130	20	30	
2,4-Dinitrophenol	2.43	1.86	mg/kg dry	3.704	ND	66	30-130	7	30	
2,4-Dinitrotoluene	3.18	0.370	mg/kg dry	3.704	ND	86	40-140	5	30	
2,6-Dinitrotoluene	3.05	0.370	mg/kg dry	3.704	ND	82	40-140	7	30	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
2-Chloronaphthalene	2.10	0.370	mg/kg dry	3.704	ND	57	40-140	15	30	
2-Chlorophenol	2.06	0.370	mg/kg dry	3.704	ND	56	30-130	21	30	
2-Methylnaphthalene	3.64	0.370	mg/kg dry	3.704	ND	98	40-140	17	30	
2-Methylphenol	2.41	0.370	mg/kg dry	3.704	ND	65	30-130	17	30	
2-Nitrophenol	2.25	0.370	mg/kg dry	3.704	ND	61	30-130	18	30	
3,3'-Dichlorobenzidine	2.02	0.741	mg/kg dry	3.704	ND	55	40-140	7	30	
3+4-Methylphenol	5.05	0.741	mg/kg dry	7.407	ND	68	30-130	18	30	
4-Bromophenyl-phenylether	2.63	0.370	mg/kg dry	3.704	ND	71	40-140	3	30	
4-Chloroaniline	1.94	0.741	mg/kg dry	3.704	ND	52	40-140	17	30	
4-Nitrophenol	3.72	1.86	mg/kg dry	3.704	ND	101	30-130	4	30	
Acenaphthene	2.53	0.370	mg/kg dry	3.704	ND	68	40-140	14	30	
Acenaphthylene	2.33	0.370	mg/kg dry	3.704	ND	63	40-140	14	30	
Acetophenone	2.73	0.741	mg/kg dry	3.704	ND	74	40-140	24	30	
Aniline	1.79	1.86	mg/kg dry	3.704	ND	48	40-140	34	30	D+
Anthracene	2.89	0.370	mg/kg dry	3.704	ND	78	40-140	2	30	
Azobenzene	3.13	0.370	mg/kg dry	3.704	ND	85	40-140	3	30	
Benzo(a)anthracene	3.24	0.370	mg/kg dry	3.704	ND	87	40-140	2	30	
Benzo(a)pyrene	3.20	0.186	mg/kg dry	3.704	ND	86	40-140	0.6	30	
Benzo(b)fluoranthene	2.97	0.370	mg/kg dry	3.704	ND	80	40-140	13	30	
Benzo(g,h,i)perylene	2.62	0.370	mg/kg dry	3.704	ND	71	40-140	11	30	
Benzo(k)fluoranthene	3.38	0.370	mg/kg dry	3.704	ND	91	40-140	12	30	
bis(2-Chloroethoxy)methane	2.53	0.370	mg/kg dry	3.704	ND	68	40-140	19	30	
bis(2-Chloroethyl)ether	2.40	0.370	mg/kg dry	3.704	ND	65	40-140	26	30	
bis(2-chloroisopropyl)Ether	2.22	0.370	mg/kg dry	3.704	ND	60	40-140	21	30	
bis(2-Ethylhexyl)phthalate	0.757	0.370	mg/kg dry	3.704	ND	20	40-140	8	30	M-
Butylbenzylphthalate	0.724	0.370	mg/kg dry	3.704	ND	20	40-140	7	30	M-
Chrysene	2.87	0.186	mg/kg dry	3.704	ND	77	40-140	0.07	30	
Dibenzo(a,h)Anthracene	2.96	0.186	mg/kg dry	3.704	ND	80	40-140	7	30	
Dibenzofuran	2.62	0.370	mg/kg dry	3.704	ND	71	40-140	13	30	
Diethylphthalate	2.68	0.370	mg/kg dry	3.704	ND	72	40-140	4	30	
Dimethylphthalate	2.55	0.370	mg/kg dry	3.704	ND	69	40-140	7	30	
Di-n-butylphthalate	1.90	0.370	mg/kg dry	3.704	ND	51	40-140	2	30	
Di-n-octylphthalate	0.725	0.370	mg/kg dry	3.704	ND	20	40-140	11	30	M-
Fluoranthene	3.17	0.370	mg/kg dry	3.704	ND	86	40-140	10	30	
Fluorene	3.55	0.370	mg/kg dry	3.704	ND	96	40-140	16	30	
Hexachlorobenzene	2.84	0.370	mg/kg dry	3.704	ND	77	40-140	6	30	
Hexachlorobutadiene	1.96	0.370	mg/kg dry	3.704	ND	53	40-140	23	30	
Hexachloroethane	2.33	0.370	mg/kg dry	3.704	ND	63	40-140	25	30	
Indeno(1,2,3-cd)Pyrene	3.11	0.370	mg/kg dry	3.704	ND	84	40-140	9	30	
Isophorone	2.01	0.370	mg/kg dry	3.704	ND	54	40-140	19	30	
Naphthalene	2.20	0.370	mg/kg dry	3.704	ND	59	40-140	21	30	
Nitrobenzene	2.68	0.370	mg/kg dry	3.704	ND	72	40-140	22	30	
N-Nitrosodimethylamine	ND	0.370	mg/kg dry	3.704	ND		40-140		30	M-
Pentachlorophenol	2.93	1.86	mg/kg dry	3.704	ND	79	30-130	4	30	
Phenanthrene	2.73	0.370	mg/kg dry	3.704	ND	74	40-140	3	30	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Phenol	2.31	0.370	mg/kg dry	3.704	ND	62	30-130	16	30	
Pyrene	2.99	0.370	mg/kg dry	3.704	ND	81	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*1.99*		mg/kg dry	*3.704*		*54*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.37*		mg/kg dry	*5.556*		*61*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.43*		mg/kg dry	*5.556*		*44*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.13*		mg/kg dry	*3.704*		*57*	*30-130*			
Surrogate: 2-Fluorophenol	*1.01*		mg/kg dry	*5.556*		*18*	*30-130*			*M-*
Surrogate: Nitrobenzene-d5	*2.36*		mg/kg dry	*3.704*		*64*	*30-130*			
Surrogate: Phenol-d6	*2.66*		mg/kg dry	*5.556*		*48*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.73*		mg/kg dry	*3.704*		*74*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-	Surrogate recovery(ies) below lower control limit (S-).
M+	Matrix Spike recovery is above upper control limit (M+).
M-	Matrix Spike recovery is below lower control limit (M-).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte

Sample and Cooler Receipt Checklist

Client: JR Vinagro
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10060324
Date Project Due: 6/23/10
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? *** No**
   Air No.:
2. Were Custody Seals Present? **No**
3. Were Custody Seals Intact? **N/A**
4. Is Radiation count < 100 CPM? **Yes**
5. Is a cooler present? **Yes**
   Cooler Temp: **5.9**
   Iced With: **Icepacks**
6. Was COC included with samples? **Yes**
7. Was COC signed and dated by client? **Yes**
8. Does the COC match the sample **Yes**
9. Is COC complete and correct? **Yes**
10. Are the samples properly preserved? **Yes**
11. Proper sample containers used? **Yes**
12. Any air bubbles in the VOA vials? **N/A**
13. Holding times exceeded? **No**
14. Sufficient sample volumes? **Yes**
15. Any Subcontracting needed? **No**
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	2	other
6	Yes	8 oz Soil Jar	2	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	40 ml - VOA	2	other
7	Yes	8 oz Soil Jar	2	NP
8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
9	Yes	40 ml - VOA	1	MeOH

Sample and Cooler Receipt Checklist

Client: JR Vinagro

ESS Project ID: 10060324

9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	40 ml - VOA	2	other
10	Yes	8 oz Soil Jar	2	NP
11	Yes	40 ml - VOA	1	MeOH
11	Yes	40 ml - VOA	2	other
11	Yes	8 oz Soil Jar	2	NP
12	Yes	40 ml - VOA	1	MeOH
12	Yes	40 ml - VOA	1	other

Completed By: CWD Date/Time: 6/21/10

Reviewed By: [signature] Date/Time: 6/21/10

1 set Carrots in lab – 6/21/10 3:05.

1 set low vials in freezer – 6/21/10 3:35.

1 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1006324

Turn Time _____ Standard Other 48 hr TAT

Reporting Limits - _____

Regulatory State: [MA] RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.:	Fax.:	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Preservation Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	~~EPH w/PAHs~~	PCBs by 8082	Semi-Volatile Organics	TPH 8100				
01	6/21/10	0915	Comp	Soil	WS-1	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X				
02		0955			WS-2														
03		0925			WS-3														
04		1010			WS-4														
05		1030			WS-5														
06		1055			WS-6														
07		1115			WS-7														
08		1320			WS-9														
09		1215			WS-10														
10		1145			WS-11														

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.9°c

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: Laura Yellen

Comments: *Run matrix spike for WS-5 RCRA 8 Metals Only

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
6/21/10 1345	6/21/10 13:45	6/21/10 15:25	6/21/10 16:11
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

2 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1006324

Turn Time _____ Standard Other **48 hr TAT**

Reporting Limits - _____

Regulatory State: **[MA]** RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro
Project #:
Project Name: Chapman Value
Contact Person: Dana Zewinski
Address: 2208 Plainfield Pike
City: Johnston
State: RI
Zip: 02919
PO #:
Tel.:
Fax.:
email:

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH-w/PAHs*	PCBs by 8082	Semi-Volatile Organics	TPH 8100				
11	6/21/10	AM	Comp	Soil	DUP-1	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X				
12	6/21/10	AM			Trip Blank			V			X								

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SO-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.9°C

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: Laura Yellen

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
Laura Yellen	6/21/10 1345	6/21/10 15:45	6/21/10 16:00
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM/VPH

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006324

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002
http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752
http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: JR Vinagro
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10060324
Date Project Due: 6/23/10
Days For Project: 2 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: 5.9
   Iced With: Icepacks
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? **Yes|No**
17. Were samples received intact? **Yes|No**

ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	2	other
6	Yes	8 oz Soil Jar	2	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	40 ml - VOA	2	other
7	Yes	8 oz Soil Jar	2	NP
8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
9	Yes	40 ml - VOA	1	MeOH

Sample and Cooler Receipt Checklist

Client: JR Vinagro

ESS Project ID: 10060324

9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	40 ml - VOA	2	other
10	Yes	8 oz Soil Jar	2	NP
11	Yes	40 ml - VOA	1	MeOH
11	Yes	40 ml - VOA	2	other
11	Yes	8 oz Soil Jar	2	NP
12	Yes	40 ml - VOA	1	MeOH
12	Yes	40 ml - VOA	1	other

Completed By: CWD Date/Time: 6/21/10

Reviewed By: [illegible] Date/Time: 6/21/10

1 set Coolers in lab – 6/21/10 3:05.

1 set low vials in freezer – 6/21/10 3:05.

1 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1006324

Turn Time _____ Standard Other **48 hr TAT**

Reporting Limits - _____

Regulatory State: **[MA]** RI CT NH NJ NY ME Other_____

Electronic Deliverables Excel Access PDF

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.	Fax.	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	~~EPH w/PAHs~~	PCBs by 8082	Semi-Volatile Organics	TPH 8100
01	6/21/10	0915	Comp	Soil	WS-1	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X
02		0955			WS-2										
03		0925			WS-3										
04		1010			WS-4										
05		1030			WS-5										
06		1055			WS-6										
07		1115			WS-7										
08		1320			WS-9										
09		1215			WS-10										
10		1145			WS-11										

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.9°c

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: Laura Yellen

Comments: *Run matrix spike for WS-5 RCRA 8 Metals Only

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
6/21/10 1345	6/21/10 13:45	6/21/10 15:25	6/21/10 16:00
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

2 of 2

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1006324

Turn Time _____ Standard Other **48 hr TAT**

Reporting Limits - _____

Regulatory State: [MA] RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Electonic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.	Fax.	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH-w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH 8100
11	6/21/10	AM	Comp	Soil	DUP-1	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X
12	6/21/10	AM			Trip Blank			V			X				

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.9°C

Internal Use Only
[ ] Pickup
[ ] Technician_____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: LAURA Yellen

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
Laura Yellen	6/21/10 1345	6/21/10 13:45	6/21/10 15:25
			6/21/10 16:00
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By dicting MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM/VEA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

CERTIFICATE OF ANALYSIS

Dana Zewinski
J.R. Vinagro Corporation
2208 Plainfield Pike
Johnston, RI 02919

RE: Chapman Testing (N/A)
ESS Laboratory Work Order Number: 1006342

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Laurel Stoddard
Date: 2010.06.23 17:29:54 -04'00'

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

SAMPLE RECEIPT

The following samples were received on June 21, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Question F: All samples for Metals and EPH were analyzed for a subset of the required MCP list per the client's request.

Lab Number	SampleName	Matrix	Analysis
1006342-01	WS-8	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006342-02	WS-12	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006342-03	WS-13	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006342-04	WS-14	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006342-05	WS-15	Soil	6010B, 7471B, 8082, 8100M, 8260B Low, 8270C
1006342-06	Trip Blank	Solid	8260B Low

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

1006342-05	**Internal standard response was low for the sample due to high soil weight. Sample did not purge properly.**
1006342-05	**Internal Standard(s) outside of criteria (I).** 1,4-Dichlorobenzene-D4 (21% @ 50-200%), Chlorobenzene-d5 (26% @ 50-200%), Fluorobenzene (27% @ 50-200%)

8270C Semi-Volatile Organic Compounds

1006342-01	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (15% @ 30-130%)
1006342-02	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (14% @ 30-130%)
1006342-03	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (16% @ 30-130%)
1006342-04	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (13% @ 30-130%)
1006342-05	**Surrogate recovery(ies) below lower control limit (S-).** 2-Fluorophenol (14% @ 30-130%)
CF02123-BS1	**Blank Spike recovery is below lower control limit (B-).** N-Nitrosodimethylamine (25% @ 40-140%)
CF02123-BSD1	**Blank Spike recovery is below lower control limit (B-).** N-Nitrosodimethylamine (24% @ 40-140%)
CTF0145-CCV1	**Continuing Calibration recovery is above upper control limit (C+).** 2-Methylnaphthalene (137% @ 70-130%)
CTF0145-CCV1	**Continuing Calibration recovery is below lower control limit (C-).** N-Nitrosodimethylamine (46% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

ESS Laboratory
Division of Thielsch Engineering, Inc.

BAL Laboratory
The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*: _____

This form provides certification for the following data set:
1006342-01 through 1006342-06

Sample Matricies:	( ) Ground Water	(X) Soil/Sediment	( ) Drinking Water	( ) Other: _____	
MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
Methods Used	8270C (X)	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
	8082 (X)	8021B ( )	EPH (X)	7000 S*** ( )	7196A ( )

As specified in MADEP Compendium of Analytical Methods (Check all that apply)

* List Release Tracking Number (RTN), if known.
** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method
*** S - SW - 846 Methods 7000 Series - List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? Yes (X) No* ( )

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? Yes (X) No* ( )

C Does the data included in the report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No* ( )

D ***VPH and EPH methods only:*** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? Yes (X) No* ( )

A response to questions E and F below required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specific methods achieved? Yes ( ) No* (X)

F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes ( ) No* (X)

**All negative responses must be addressed in an attached Environmental Laboratory Case Narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Date: June 23, 2010

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

			MA - RCS1						
Analyte	**Results (MRL)**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**	**Batch**
Arsenic	ND (2.7)	6010B	20	1	SVD	06/22/10 13:40	2.19	100	CF02128
Barium	**47.8** (2.7)	6010B	1000	1	SVD	06/22/10 13:40	2.19	100	CF02128
Cadmium	ND (0.55)	6010B	2	1	SVD	06/22/10 13:40	2.19	100	CF02128
Chromium	**9.3** (1.1)	6010B	30	1	SVD	06/22/10 13:40	2.19	100	CF02128
Lead	**27.1** (5.4)	6010B	300	1	SVD	06/22/10 13:40	2.19	100	CF02128
Mercury	**0.081** (0.032)	7471B	20	1	SVD	06/23/10 13:39	0.74	40	CF02129
Selenium	ND (5.4)	6010B	400	1	SVD	06/22/10 13:40	2.19	100	CF02128
Silver	ND (0.55)	6010B	100	1	SVD	06/22/10 13:40	2.19	100	CF02128

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
1,1,1-Trichloroethane	ND (0.0057)	30	1	06/22/10 14:08	CTF0150	CF02209
1,1,2,2-Tetrachloroethane	ND (0.0023)	0.005	1	06/22/10 14:08	CTF0150	CF02209
1,1,2-Trichloroethane	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
1,1-Dichloroethane	ND (0.0057)	0.4	1	06/22/10 14:08	CTF0150	CF02209
1,1-Dichloroethene	ND (0.0057)	3	1	06/22/10 14:08	CTF0150	CF02209
1,1-Dichloropropene	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209
1,2,3-Trichlorobenzene	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209
1,2,3-Trichloropropane	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
1,2,4-Trichlorobenzene	ND (0.0057)	2	1	06/22/10 14:08	CTF0150	CF02209
1,2,4-Trimethylbenzene	ND (0.0057)	1000	1	06/22/10 14:08	CTF0150	CF02209
1,2-Dibromo-3-Chloropropane	ND (0.0057)	10	1	06/22/10 14:08	CTF0150	CF02209
1,2-Dibromoethane	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
1,2-Dichlorobenzene	ND (0.0057)	9	1	06/22/10 14:08	CTF0150	CF02209
1,2-Dichloroethane	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
1,2-Dichloropropane	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
1,3,5-Trimethylbenzene	ND (0.0057)	10	1	06/22/10 14:08	CTF0150	CF02209
1,3-Dichlorobenzene	ND (0.0057)	1	1	06/22/10 14:08	CTF0150	CF02209
1,3-Dichloropropane	ND (0.0057)	500	1	06/22/10 14:08	CTF0150	CF02209
1,4-Dichlorobenzene	ND (0.0057)	0.7	1	06/22/10 14:08	CTF0150	CF02209
1,4-Dioxane	ND (0.114)	0.2	1	06/22/10 14:08	CTF0150	CF02209
2,2-Dichloropropane	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209
2-Butanone	ND (0.0572)	4	1	06/22/10 14:08	CTF0150	CF02209
2-Chlorotoluene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
2-Hexanone	ND (0.0572)	100	1	06/22/10 14:08	CTF0150	CF02209
4-Chlorotoluene	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209
4-Isopropyltoluene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
4-Methyl-2-Pentanone	ND (0.0572)	0.4	1	06/22/10 14:08	CTF0150	CF02209
Acetone	ND (0.0572)	6	1	06/22/10 14:08	CTF0150	CF02209
Benzene	ND (0.0057)	2	1	06/22/10 14:08	CTF0150	CF02209
Bromobenzene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
Bromochloromethane	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
Bromoform	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
Bromomethane	ND (0.0114)	0.5	1	06/22/10 14:08	CTF0150	CF02209
Carbon Disulfide	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
Carbon Tetrachloride	ND (0.0057)	5	1	06/22/10 14:08	CTF0150	CF02209
Chlorobenzene	ND (0.0057)	1	1	06/22/10 14:08	CTF0150	CF02209
Chloroethane	ND (0.0114)	100	1	06/22/10 14:08	CTF0150	CF02209
Chloroform	ND (0.0057)	0.3	1	06/22/10 14:08	CTF0150	CF02209
Chloromethane	ND (0.0114)	100	1	06/22/10 14:08	CTF0150	CF02209
cis-1,2-Dichloroethene	ND (0.0057)	0.3	1	06/22/10 14:08	CTF0150	CF02209
cis-1,3-Dichloropropene	ND (0.0057)	0.01	1	06/22/10 14:08	CTF0150	CF02209
Dibromochloromethane	ND (0.0023)	0.005	1	06/22/10 14:08	CTF0150	CF02209
Dibromomethane	ND (0.0057)	500	1	06/22/10 14:08	CTF0150	CF02209
Dichlorodifluoromethane	ND (0.0114)	1000	1	06/22/10 14:08	CTF0150	CF02209
Diethyl Ether	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
Di-isopropyl ether	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
Ethyl tertiary-butyl ether	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209
Ethylbenzene	ND (0.0057)	40	1	06/22/10 14:08	CTF0150	CF02209
Hexachlorobutadiene	ND (0.0057)	6	1	06/22/10 14:08	CTF0150	CF02209
Isopropylbenzene	ND (0.0057)	1000	1	06/22/10 14:08	CTF0150	CF02209
Methyl tert-Butyl Ether	ND (0.0057)	0.1	1	06/22/10 14:08	CTF0150	CF02209
Methylene Chloride	ND (0.0286)	0.1	1	06/22/10 14:08	CTF0150	CF02209
Naphthalene	ND (0.0057)	4	1	06/22/10 14:08	CTF0150	CF02209
n-Butylbenzene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
n-Propylbenzene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
sec-Butylbenzene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
Styrene	ND (0.0057)	3	1	06/22/10 14:08	CTF0150	CF02209
tert-Butylbenzene	ND (0.0057)	100	1	06/22/10 14:08	CTF0150	CF02209
Tertiary-amyl methyl ether	ND (0.0057)		1	06/22/10 14:08	CTF0150	CF02209
Tetrachloroethene	ND (0.0057)	1	1	06/22/10 14:08	CTF0150	CF02209
Tetrahydrofuran	ND (0.0057)	500	1	06/22/10 14:08	CTF0150	CF02209
Toluene	ND (0.0057)	30	1	06/22/10 14:08	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0057)	1	1	06/22/10 14:08	CTF0150	CF02209
trans-1,3-Dichloropropene	ND (0.0057)	0.01	1	06/22/10 14:08	CTF0150	CF02209
Trichloroethene	ND (0.0057)	0.3	1	06/22/10 14:08	CTF0150	CF02209
Trichlorofluoromethane	ND (0.0057)	1000	1	06/22/10 14:08	CTF0150	CF02209
Vinyl Chloride	ND (0.0114)	3	1	06/22/10 14:08	CTF0150	CF02209
Xylene O	ND (0.0057)	300	1	06/22/10 14:08	CTF0150	CF02209
Xylene P,M	ND (0.0114)	300	1	06/22/10 14:08	CTF0150	CF02209
Xylenes (Total)	ND (0.0172)	300	1	06/22/10 14:08		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*103 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1221	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1232	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1242	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1248	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1254	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1260	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1262	ND (0.0589)	2	1	06/22/10 9:57		CF02126
Aroclor 1268	ND (0.0589)	2	1	06/22/10 9:57		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*79 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 20.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (43.6)	1000	1	06/21/10 21:24	CTF0146	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*97 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.038)	0.05	10	06/22/10 21:00	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.379)	2	1	06/22/10 5:33	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.379)	9	1	06/22/10 5:33	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.379)	1	1	06/22/10 5:33	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.379)	4	1	06/22/10 5:33	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.90)	3	1	06/22/10 5:33	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.379)	100	1	06/22/10 5:33	CTF0145	CF02123
2-Chloronaphthalene	ND (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123
2-Chlorophenol	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2-Methylnaphthalene	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
2-Methylphenol	ND (0.379)	500	1	06/22/10 5:33	CTF0145	CF02123
2-Nitrophenol	ND (0.379)	100	1	06/22/10 5:33	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.759)	1	1	06/22/10 5:33	CTF0145	CF02123
3+4-Methylphenol	ND (0.759)	500	1	06/22/10 5:33	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.379)	100	1	06/22/10 5:33	CTF0145	CF02123
4-Chloroaniline	ND (0.759)	1	1	06/22/10 5:33	CTF0145	CF02123
4-Nitrophenol	ND (1.90)	100	1	06/22/10 5:33	CTF0145	CF02123
Acenaphthene	ND (0.379)	4	1	06/22/10 5:33	CTF0145	CF02123
Acenaphthylene	ND (0.379)	1	1	06/22/10 5:33	CTF0145	CF02123
Acetophenone	ND (0.759)	1000	1	06/22/10 5:33	CTF0145	CF02123
Aniline	ND (1.90)	1000	1	06/22/10 5:33	CTF0145	CF02123
Anthracene	ND (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123
Azobenzene	ND (0.379)	50	1	06/22/10 5:33	CTF0145	CF02123
Benzo(a)anthracene	**0.504 (0.379)**	7	1	06/22/10 5:33	CTF0145	CF02123
Benzo(a)pyrene	**0.486 (0.190)**	2	1	06/22/10 5:33	CTF0145	CF02123
Benzo(b)fluoranthene	**0.400 (0.379)**	7	1	06/22/10 5:33	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	**0.389** (0.379)	70	1	06/22/10 5:33	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.379)	500	1	06/22/10 5:33	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.379)	200	1	06/22/10 5:33	CTF0145	CF02123
Butylbenzylphthalate	ND (0.379)	100	1	06/22/10 5:33	CTF0145	CF02123
Chrysene	**0.507** (0.190)	70	1	06/22/10 5:33	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.190)	0.7	1	06/22/10 5:33	CTF0145	CF02123
Dibenzofuran	ND (0.379)	100	1	06/22/10 5:33	CTF0145	CF02123
Diethylphthalate	ND (0.379)	10	1	06/22/10 5:33	CTF0145	CF02123
Dimethylphthalate	ND (0.379)	30	1	06/22/10 5:33	CTF0145	CF02123
Di-n-butylphthalate	ND (0.379)	50	1	06/22/10 5:33	CTF0145	CF02123
Di-n-octylphthalate	ND (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123
Fluoranthene	**1.17** (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123
Fluorene	ND (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123
Hexachlorobenzene	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
Hexachlorobutadiene	ND (0.379)	6	1	06/22/10 5:33	CTF0145	CF02123
Hexachloroethane	ND (0.379)	0.7	1	06/22/10 5:33	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.379)	7	1	06/22/10 5:33	CTF0145	CF02123
Isophorone	ND (0.379)	100	1	06/22/10 5:33	CTF0145	CF02123
Naphthalene	ND (0.379)	4	1	06/22/10 5:33	CTF0145	CF02123
Nitrobenzene	ND (0.379)	500	1	06/22/10 5:33	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.379)	50	1	06/22/10 5:33	CTF0145	CF02123
Pentachlorophenol	ND (1.90)	3	1	06/22/10 5:33	CTF0145	CF02123
Phenanthrene	**0.900** (0.379)	10	1	06/22/10 5:33	CTF0145	CF02123
Phenol	ND (0.379)	1	1	06/22/10 5:33	CTF0145	CF02123
Pyrene	**0.999** (0.379)	1000	1	06/22/10 5:33	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*51 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*61 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*45 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*65 %*		*30-130*
Surrogate: 2-Fluorophenol	*15 %*	*S-*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-8
Date Sampled: 06/21/10 14:00
Percent Solids: 84
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*63 %*	*30-130*				
Surrogate: Phenol-d6		*49 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*79 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.6)	6010B	20	1	SVD	06/22/10 13:44	2.11	100	CF02128
Barium	**68.5** (13.0)	6010B	1000	5	SVD	06/23/10 3:11	2.11	100	CF02128
Cadmium	ND (0.52)	6010B	2	1	SVD	06/22/10 13:44	2.11	100	CF02128
Chromium	**12.2** (1.0)	6010B	30	1	SVD	06/22/10 13:44	2.11	100	CF02128
Lead	ND (5.2)	6010B	300	1	SVD	06/22/10 13:44	2.11	100	CF02128
Mercury	ND (0.031)	7471B	20	1	SVD	06/23/10 13:41	0.71	40	CF02129
Selenium	ND (5.2)	6010B	400	1	SVD	06/22/10 13:44	2.11	100	CF02128
Silver	ND (0.52)	6010B	100	1	SVD	06/22/10 13:44	2.11	100	CF02128

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
1,1,1-Trichloroethane	ND (0.0042)	30	1	06/22/10 14:36	CTF0150	CF02209
1,1,2,2-Tetrachloroethane	ND (0.0017)	0.005	1	06/22/10 14:36	CTF0150	CF02209
1,1,2-Trichloroethane	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
1,1-Dichloroethane	ND (0.0042)	0.4	1	06/22/10 14:36	CTF0150	CF02209
1,1-Dichloroethene	ND (0.0042)	3	1	06/22/10 14:36	CTF0150	CF02209
1,1-Dichloropropene	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209
1,2,3-Trichlorobenzene	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209
1,2,3-Trichloropropane	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
1,2,4-Trichlorobenzene	ND (0.0042)	2	1	06/22/10 14:36	CTF0150	CF02209
1,2,4-Trimethylbenzene	ND (0.0042)	1000	1	06/22/10 14:36	CTF0150	CF02209
1,2-Dibromo-3-Chloropropane	ND (0.0042)	10	1	06/22/10 14:36	CTF0150	CF02209
1,2-Dibromoethane	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
1,2-Dichlorobenzene	ND (0.0042)	9	1	06/22/10 14:36	CTF0150	CF02209
1,2-Dichloroethane	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
1,2-Dichloropropane	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
1,3,5-Trimethylbenzene	ND (0.0042)	10	1	06/22/10 14:36	CTF0150	CF02209
1,3-Dichlorobenzene	ND (0.0042)	1	1	06/22/10 14:36	CTF0150	CF02209
1,3-Dichloropropane	ND (0.0042)	500	1	06/22/10 14:36	CTF0150	CF02209
1,4-Dichlorobenzene	ND (0.0042)	0.7	1	06/22/10 14:36	CTF0150	CF02209
1,4-Dioxane	ND (0.0833)	0.2	1	06/22/10 14:36	CTF0150	CF02209
2,2-Dichloropropane	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209
2-Butanone	ND (0.0416)	4	1	06/22/10 14:36	CTF0150	CF02209
2-Chlorotoluene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
2-Hexanone	ND (0.0416)	100	1	06/22/10 14:36	CTF0150	CF02209
4-Chlorotoluene	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209
4-Isopropyltoluene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
4-Methyl-2-Pentanone	ND (0.0416)	0.4	1	06/22/10 14:36	CTF0150	CF02209
Acetone	ND (0.0416)	6	1	06/22/10 14:36	CTF0150	CF02209
Benzene	ND (0.0042)	2	1	06/22/10 14:36	CTF0150	CF02209
Bromobenzene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
Bromochloromethane	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
Bromoform	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
Bromomethane	ND (0.0083)	0.5	1	06/22/10 14:36	CTF0150	CF02209
Carbon Disulfide	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
Carbon Tetrachloride	ND (0.0042)	5	1	06/22/10 14:36	CTF0150	CF02209
Chlorobenzene	ND (0.0042)	1	1	06/22/10 14:36	CTF0150	CF02209
Chloroethane	ND (0.0083)	100	1	06/22/10 14:36	CTF0150	CF02209
Chloroform	ND (0.0042)	0.3	1	06/22/10 14:36	CTF0150	CF02209
Chloromethane	ND (0.0083)	100	1	06/22/10 14:36	CTF0150	CF02209
cis-1,2-Dichloroethene	ND (0.0042)	0.3	1	06/22/10 14:36	CTF0150	CF02209
cis-1,3-Dichloropropene	ND (0.0042)	0.01	1	06/22/10 14:36	CTF0150	CF02209
Dibromochloromethane	ND (0.0017)	0.005	1	06/22/10 14:36	CTF0150	CF02209
Dibromomethane	ND (0.0042)	500	1	06/22/10 14:36	CTF0150	CF02209
Dichlorodifluoromethane	ND (0.0083)	1000	1	06/22/10 14:36	CTF0150	CF02209
Diethyl Ether	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
Di-isopropyl ether	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
Ethyl tertiary-butyl ether	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209
Ethylbenzene	ND (0.0042)	40	1	06/22/10 14:36	CTF0150	CF02209
Hexachlorobutadiene	ND (0.0042)	6	1	06/22/10 14:36	CTF0150	CF02209
Isopropylbenzene	ND (0.0042)	1000	1	06/22/10 14:36	CTF0150	CF02209
Methyl tert-Butyl Ether	ND (0.0042)	0.1	1	06/22/10 14:36	CTF0150	CF02209
Methylene Chloride	ND (0.0208)	0.1	1	06/22/10 14:36	CTF0150	CF02209
Naphthalene	ND (0.0042)	4	1	06/22/10 14:36	CTF0150	CF02209
n-Butylbenzene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
n-Propylbenzene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
sec-Butylbenzene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
Styrene	ND (0.0042)	3	1	06/22/10 14:36	CTF0150	CF02209
tert-Butylbenzene	ND (0.0042)	100	1	06/22/10 14:36	CTF0150	CF02209
Tertiary-amyl methyl ether	ND (0.0042)		1	06/22/10 14:36	CTF0150	CF02209
Tetrachloroethene	ND (0.0042)	1	1	06/22/10 14:36	CTF0150	CF02209
Tetrahydrofuran	ND (0.0042)	500	1	06/22/10 14:36	CTF0150	CF02209
Toluene	ND (0.0042)	30	1	06/22/10 14:36	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0042)	1	1	06/22/10 14:36	CTF0150	CF02209
trans-1,3-Dichloropropene	ND (0.0042)	0.01	1	06/22/10 14:36	CTF0150	CF02209
Trichloroethene	ND (0.0042)	0.3	1	06/22/10 14:36	CTF0150	CF02209
Trichlorofluoromethane	ND (0.0042)	1000	1	06/22/10 14:36	CTF0150	CF02209
Vinyl Chloride	ND (0.0083)	3	1	06/22/10 14:36	CTF0150	CF02209
Xylene O	ND (0.0042)	300	1	06/22/10 14:36	CTF0150	CF02209
Xylene P,M	ND (0.0083)	300	1	06/22/10 14:36	CTF0150	CF02209
Xylenes (Total)	ND (0.0125)	300	1	06/22/10 14:36		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*115 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*105 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 20.7
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1221	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1232	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1242	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1248	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1254	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1260	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1262	ND (0.0531)	2	1	06/22/10 10:14		CF02126
Aroclor 1268	ND (0.0531)	2	1	06/22/10 10:14		CF02126

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*90 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*107 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	ND (42.0)	1000	1	06/21/10 21:59	CTF0146	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*106 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.007)	0.05	2	06/22/10 16:54	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.350)	2	1	06/22/10 6:03	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.350)	9	1	06/22/10 6:03	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.350)	1	1	06/22/10 6:03	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.350)	4	1	06/22/10 6:03	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.75)	3	1	06/22/10 6:03	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.350)	100	1	06/22/10 6:03	CTF0145	CF02123
2-Chloronaphthalene	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123
2-Chlorophenol	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2-Methylnaphthalene	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
2-Methylphenol	ND (0.350)	500	1	06/22/10 6:03	CTF0145	CF02123
2-Nitrophenol	ND (0.350)	100	1	06/22/10 6:03	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.700)	1	1	06/22/10 6:03	CTF0145	CF02123
3+4-Methylphenol	ND (0.700)	500	1	06/22/10 6:03	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.350)	100	1	06/22/10 6:03	CTF0145	CF02123
4-Chloroaniline	ND (0.700)	1	1	06/22/10 6:03	CTF0145	CF02123
4-Nitrophenol	ND (1.75)	100	1	06/22/10 6:03	CTF0145	CF02123
Acenaphthene	ND (0.350)	4	1	06/22/10 6:03	CTF0145	CF02123
Acenaphthylene	ND (0.350)	1	1	06/22/10 6:03	CTF0145	CF02123
Acetophenone	ND (0.700)	1000	1	06/22/10 6:03	CTF0145	CF02123
Aniline	ND (1.75)	1000	1	06/22/10 6:03	CTF0145	CF02123
Anthracene	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123
Azobenzene	ND (0.350)	50	1	06/22/10 6:03	CTF0145	CF02123
Benzo(a)anthracene	ND (0.350)	7	1	06/22/10 6:03	CTF0145	CF02123
Benzo(a)pyrene	ND (0.175)	2	1	06/22/10 6:03	CTF0145	CF02123
Benzo(b)fluoranthene	ND (0.350)	7	1	06/22/10 6:03	CTF0145	CF02123
Benzo(g,h,i)perylene	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	ND (0.350)	70	1	06/22/10 6:03	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.350)	500	1	06/22/10 6:03	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.350)	200	1	06/22/10 6:03	CTF0145	CF02123
Butylbenzylphthalate	ND (0.350)	100	1	06/22/10 6:03	CTF0145	CF02123
Chrysene	ND (0.175)	70	1	06/22/10 6:03	CTF0145	CF02123
Dibenzo(a,h)Anthracene	ND (0.175)	0.7	1	06/22/10 6:03	CTF0145	CF02123
Dibenzofuran	ND (0.350)	100	1	06/22/10 6:03	CTF0145	CF02123
Diethylphthalate	ND (0.350)	10	1	06/22/10 6:03	CTF0145	CF02123
Dimethylphthalate	ND (0.350)	30	1	06/22/10 6:03	CTF0145	CF02123
Di-n-butylphthalate	ND (0.350)	50	1	06/22/10 6:03	CTF0145	CF02123
Di-n-octylphthalate	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123
Fluoranthene	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123
Fluorene	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123
Hexachlorobenzene	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
Hexachlorobutadiene	ND (0.350)	6	1	06/22/10 6:03	CTF0145	CF02123
Hexachloroethane	ND (0.350)	0.7	1	06/22/10 6:03	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	ND (0.350)	7	1	06/22/10 6:03	CTF0145	CF02123
Isophorone	ND (0.350)	100	1	06/22/10 6:03	CTF0145	CF02123
Naphthalene	ND (0.350)	4	1	06/22/10 6:03	CTF0145	CF02123
Nitrobenzene	ND (0.350)	500	1	06/22/10 6:03	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.350)	50	1	06/22/10 6:03	CTF0145	CF02123
Pentachlorophenol	ND (1.75)	3	1	06/22/10 6:03	CTF0145	CF02123
Phenanthrene	ND (0.350)	10	1	06/22/10 6:03	CTF0145	CF02123
Phenol	ND (0.350)	1	1	06/22/10 6:03	CTF0145	CF02123
Pyrene	ND (0.350)	1000	1	06/22/10 6:03	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*53 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*43 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*58 %*		*30-130*
Surrogate: 2-Fluorophenol	*14 %*	*S-*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-12
Date Sampled: 06/21/10 14:15
Percent Solids: 91
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5	*64 %*	*30-130*				
Surrogate: Phenol-d6	*43 %*	*30-130*				
Surrogate: p-Terphenyl-d14	*77 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

			MA - RCS1						
Analyte	**Results (MRL)**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**	**Batch**
Arsenic	ND (2.6)	6010B	20	1	SVD	06/22/10 13:49	2.15	100	CF02128
Barium	**42.3** (2.6)	6010B	1000	1	SVD	06/22/10 13:49	2.15	100	CF02128
Cadmium	**0.85** (0.52)	6010B	2	1	SVD	06/22/10 13:49	2.15	100	CF02128
Chromium	**7.2** (1.0)	6010B	30	1	SVD	06/22/10 13:49	2.15	100	CF02128
Lead	**4260** (1030)	6010B	300	200	SVD	06/23/10 3:15	2.15	100	CF02128
Mercury	**0.119** (0.032)	7471B	20	1	SVD	06/23/10 13:44	0.69	40	CF02129
Selenium	ND (5.2)	6010B	400	1	SVD	06/22/10 13:49	2.15	100	CF02128
Silver	**5.96** (0.52)	6010B	100	1	SVD	06/22/10 13:49	2.15	100	CF02128

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
1,1,1-Trichloroethane	ND (0.0052)	30	1	06/22/10 15:04	CTF0150	CF02209
1,1,2,2-Tetrachloroethane	ND (0.0021)	0.005	1	06/22/10 15:04	CTF0150	CF02209
1,1,2-Trichloroethane	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
1,1-Dichloroethane	ND (0.0052)	0.4	1	06/22/10 15:04	CTF0150	CF02209
1,1-Dichloroethene	ND (0.0052)	3	1	06/22/10 15:04	CTF0150	CF02209
1,1-Dichloropropene	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209
1,2,3-Trichlorobenzene	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209
1,2,3-Trichloropropane	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
1,2,4-Trichlorobenzene	ND (0.0052)	2	1	06/22/10 15:04	CTF0150	CF02209
1,2,4-Trimethylbenzene	ND (0.0052)	1000	1	06/22/10 15:04	CTF0150	CF02209
1,2-Dibromo-3-Chloropropane	ND (0.0052)	10	1	06/22/10 15:04	CTF0150	CF02209
1,2-Dibromoethane	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
1,2-Dichlorobenzene	ND (0.0052)	9	1	06/22/10 15:04	CTF0150	CF02209
1,2-Dichloroethane	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
1,2-Dichloropropane	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
1,3,5-Trimethylbenzene	ND (0.0052)	10	1	06/22/10 15:04	CTF0150	CF02209
1,3-Dichlorobenzene	ND (0.0052)	1	1	06/22/10 15:04	CTF0150	CF02209
1,3-Dichloropropane	ND (0.0052)	500	1	06/22/10 15:04	CTF0150	CF02209
1,4-Dichlorobenzene	ND (0.0052)	0.7	1	06/22/10 15:04	CTF0150	CF02209
1,4-Dioxane	ND (0.105)	0.2	1	06/22/10 15:04	CTF0150	CF02209
2,2-Dichloropropane	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209
2-Butanone	ND (0.0524)	4	1	06/22/10 15:04	CTF0150	CF02209
2-Chlorotoluene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
2-Hexanone	ND (0.0524)	100	1	06/22/10 15:04	CTF0150	CF02209
4-Chlorotoluene	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209
4-Isopropyltoluene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
4-Methyl-2-Pentanone	ND (0.0524)	0.4	1	06/22/10 15:04	CTF0150	CF02209
Acetone	ND (0.0524)	6	1	06/22/10 15:04	CTF0150	CF02209
Benzene	ND (0.0052)	2	1	06/22/10 15:04	CTF0150	CF02209
Bromobenzene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
Bromochloromethane	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
Bromoform	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
Bromomethane	ND (0.0105)	0.5	1	06/22/10 15:04	CTF0150	CF02209
Carbon Disulfide	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
Carbon Tetrachloride	ND (0.0052)	5	1	06/22/10 15:04	CTF0150	CF02209
Chlorobenzene	ND (0.0052)	1	1	06/22/10 15:04	CTF0150	CF02209
Chloroethane	ND (0.0105)	100	1	06/22/10 15:04	CTF0150	CF02209
Chloroform	ND (0.0052)	0.3	1	06/22/10 15:04	CTF0150	CF02209
Chloromethane	ND (0.0105)	100	1	06/22/10 15:04	CTF0150	CF02209
cis-1,2-Dichloroethene	ND (0.0052)	0.3	1	06/22/10 15:04	CTF0150	CF02209
cis-1,3-Dichloropropene	ND (0.0052)	0.01	1	06/22/10 15:04	CTF0150	CF02209
Dibromochloromethane	ND (0.0021)	0.005	1	06/22/10 15:04	CTF0150	CF02209
Dibromomethane	ND (0.0052)	500	1	06/22/10 15:04	CTF0150	CF02209
Dichlorodifluoromethane	ND (0.0105)	1000	1	06/22/10 15:04	CTF0150	CF02209
Diethyl Ether	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
Di-isopropyl ether	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
Ethyl tertiary-butyl ether	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209
Ethylbenzene	ND (0.0052)	40	1	06/22/10 15:04	CTF0150	CF02209
Hexachlorobutadiene	ND (0.0052)	6	1	06/22/10 15:04	CTF0150	CF02209
Isopropylbenzene	ND (0.0052)	1000	1	06/22/10 15:04	CTF0150	CF02209
Methyl tert-Butyl Ether	ND (0.0052)	0.1	1	06/22/10 15:04	CTF0150	CF02209
Methylene Chloride	ND (0.0262)	0.1	1	06/22/10 15:04	CTF0150	CF02209
Naphthalene	ND (0.0052)	4	1	06/22/10 15:04	CTF0150	CF02209
n-Butylbenzene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
n-Propylbenzene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
sec-Butylbenzene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
Styrene	ND (0.0052)	3	1	06/22/10 15:04	CTF0150	CF02209
tert-Butylbenzene	ND (0.0052)	100	1	06/22/10 15:04	CTF0150	CF02209
Tertiary-amyl methyl ether	ND (0.0052)		1	06/22/10 15:04	CTF0150	CF02209
Tetrachloroethene	ND (0.0052)	1	1	06/22/10 15:04	CTF0150	CF02209
Tetrahydrofuran	ND (0.0052)	500	1	06/22/10 15:04	CTF0150	CF02209
Toluene	ND (0.0052)	30	1	06/22/10 15:04	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0052)	1	1	06/22/10 15:04	CTF0150	CF02209
trans-1,3-Dichloropropene	ND (0.0052)	0.01	1	06/22/10 15:04	CTF0150	CF02209
Trichloroethene	ND (0.0052)	0.3	1	06/22/10 15:04	CTF0150	CF02209
Trichlorofluoromethane	ND (0.0052)	1000	1	06/22/10 15:04	CTF0150	CF02209
Vinyl Chloride	ND (0.0105)	3	1	06/22/10 15:04	CTF0150	CF02209
Xylene O	ND (0.0052)	300	1	06/22/10 15:04	CTF0150	CF02209
Xylene P,M	ND (0.0105)	300	1	06/22/10 15:04	CTF0150	CF02209
Xylenes (Total)	ND (0.0157)	300	1	06/22/10 15:04		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*116 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*		*70-130*
Surrogate: Dibromofluoromethane	*106 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 19.8
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1221	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1232	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1242	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1248	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1254	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1260	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1262	ND (0.0561)	2	1	06/22/10 10:34		CF02126
Aroclor 1268	ND (0.0561)	2	1	06/22/10 10:34		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*91 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	118 (42.3)	1000	1	06/21/10 22:34	CTF0146	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*115 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.038)	0.05	10	06/22/10 21:46	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.378)	2	1	06/22/10 6:33	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.378)	9	1	06/22/10 6:33	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.378)	1	1	06/22/10 6:33	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.378)	4	1	06/22/10 6:33	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.89)	3	1	06/22/10 6:33	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.378)	100	1	06/22/10 6:33	CTF0145	CF02123
2-Chloronaphthalene	ND (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123
2-Chlorophenol	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2-Methylnaphthalene	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
2-Methylphenol	ND (0.378)	500	1	06/22/10 6:33	CTF0145	CF02123
2-Nitrophenol	ND (0.378)	100	1	06/22/10 6:33	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.756)	1	1	06/22/10 6:33	CTF0145	CF02123
3+4-Methylphenol	ND (0.756)	500	1	06/22/10 6:33	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.378)	100	1	06/22/10 6:33	CTF0145	CF02123
4-Chloroaniline	ND (0.756)	1	1	06/22/10 6:33	CTF0145	CF02123
4-Nitrophenol	ND (1.89)	100	1	06/22/10 6:33	CTF0145	CF02123
Acenaphthene	ND (0.378)	4	1	06/22/10 6:33	CTF0145	CF02123
Acenaphthylene	ND (0.378)	1	1	06/22/10 6:33	CTF0145	CF02123
Acetophenone	ND (0.756)	1000	1	06/22/10 6:33	CTF0145	CF02123
Aniline	ND (1.89)	1000	1	06/22/10 6:33	CTF0145	CF02123
Anthracene	**0.918** (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123
Azobenzene	ND (0.378)	50	1	06/22/10 6:33	CTF0145	CF02123
Benzo(a)anthracene	**2.04** (0.378)	7	1	06/22/10 6:33	CTF0145	CF02123
Benzo(a)pyrene	**1.99** (0.189)	2	1	06/22/10 6:33	CTF0145	CF02123
Benzo(b)fluoranthene	**1.47** (0.378)	7	1	06/22/10 6:33	CTF0145	CF02123
Benzo(g,h,i)perylene	**0.928** (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	**1.60** (0.378)	70	1	06/22/10 6:33	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.378)	500	1	06/22/10 6:33	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.378)	200	1	06/22/10 6:33	CTF0145	CF02123
Butylbenzylphthalate	ND (0.378)	100	1	06/22/10 6:33	CTF0145	CF02123
Chrysene	**1.76** (0.189)	70	1	06/22/10 6:33	CTF0145	CF02123
Dibenzo(a,h)Anthracene	**0.283** (0.189)	0.7	1	06/22/10 6:33	CTF0145	CF02123
Dibenzofuran	ND (0.378)	100	1	06/22/10 6:33	CTF0145	CF02123
Diethylphthalate	ND (0.378)	10	1	06/22/10 6:33	CTF0145	CF02123
Dimethylphthalate	ND (0.378)	30	1	06/22/10 6:33	CTF0145	CF02123
Di-n-butylphthalate	ND (0.378)	50	1	06/22/10 6:33	CTF0145	CF02123
Di-n-octylphthalate	ND (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123
Fluoranthene	**4.63** (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123
Fluorene	ND (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123
Hexachlorobenzene	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
Hexachlorobutadiene	ND (0.378)	6	1	06/22/10 6:33	CTF0145	CF02123
Hexachloroethane	ND (0.378)	0.7	1	06/22/10 6:33	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	**0.923** (0.378)	7	1	06/22/10 6:33	CTF0145	CF02123
Isophorone	ND (0.378)	100	1	06/22/10 6:33	CTF0145	CF02123
Naphthalene	ND (0.378)	4	1	06/22/10 6:33	CTF0145	CF02123
Nitrobenzene	ND (0.378)	500	1	06/22/10 6:33	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.378)	50	1	06/22/10 6:33	CTF0145	CF02123
Pentachlorophenol	ND (1.89)	3	1	06/22/10 6:33	CTF0145	CF02123
Phenanthrene	3.83 (0.378)	10	1	06/22/10 6:33	CTF0145	CF02123
Phenol	ND (0.378)	1	1	06/22/10 6:33	CTF0145	CF02123
Pyrene	**3.87** (0.378)	1000	1	06/22/10 6:33	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*64 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: 2-Fluorophenol	*16 %*	*S-*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: 90
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*90 %*	*30-130*				
Surrogate: Phenol-d6		*58 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*81 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

			MA - RCS1						
Analyte	**Results (MRL)**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**	**Batch**
Arsenic	ND (2.2)	6010B	20	1	SVD	06/22/10 13:54	2.41	100	CF02128
Barium	40.6 (2.2)	6010B	1000	1	SVD	06/22/10 13:54	2.41	100	CF02128
Cadmium	ND (0.44)	6010B	2	1	SVD	06/22/10 13:54	2.41	100	CF02128
Chromium	8.6 (0.9)	6010B	30	1	SVD	06/22/10 13:54	2.41	100	CF02128
Lead	ND (4.4)	6010B	300	1	SVD	06/22/10 13:54	2.41	100	CF02128
Mercury	ND (0.032)	7471B	20	1	SVD	06/23/10 13:46	0.65	40	CF02129
Selenium	ND (4.4)	6010B	400	1	SVD	06/22/10 13:54	2.41	100	CF02128
Silver	ND (0.44)	6010B	100	1	SVD	06/22/10 13:54	2.41	100	CF02128

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 7.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
1,1,1-Trichloroethane	ND (0.0034)	30	1	06/22/10 17:00	CTF0150	CF02209
1,1,2,2-Tetrachloroethane	ND (0.0014)	0.005	1	06/22/10 17:00	CTF0150	CF02209
1,1,2-Trichloroethane	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
1,1-Dichloroethane	ND (0.0034)	0.4	1	06/22/10 17:00	CTF0150	CF02209
1,1-Dichloroethene	ND (0.0034)	3	1	06/22/10 17:00	CTF0150	CF02209
1,1-Dichloropropene	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209
1,2,3-Trichlorobenzene	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209
1,2,3-Trichloropropane	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
1,2,4-Trichlorobenzene	ND (0.0034)	2	1	06/22/10 17:00	CTF0150	CF02209
1,2,4-Trimethylbenzene	ND (0.0034)	1000	1	06/22/10 17:00	CTF0150	CF02209
1,2-Dibromo-3-Chloropropane	ND (0.0034)	10	1	06/22/10 17:00	CTF0150	CF02209
1,2-Dibromoethane	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
1,2-Dichlorobenzene	ND (0.0034)	9	1	06/22/10 17:00	CTF0150	CF02209
1,2-Dichloroethane	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
1,2-Dichloropropane	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
1,3,5-Trimethylbenzene	ND (0.0034)	10	1	06/22/10 17:00	CTF0150	CF02209
1,3-Dichlorobenzene	ND (0.0034)	1	1	06/22/10 17:00	CTF0150	CF02209
1,3-Dichloropropane	ND (0.0034)	500	1	06/22/10 17:00	CTF0150	CF02209
1,4-Dichlorobenzene	ND (0.0034)	0.7	1	06/22/10 17:00	CTF0150	CF02209
1,4-Dioxane	ND (0.0682)	0.2	1	06/22/10 17:00	CTF0150	CF02209
2,2-Dichloropropane	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209
2-Butanone	ND (0.0341)	4	1	06/22/10 17:00	CTF0150	CF02209
2-Chlorotoluene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
2-Hexanone	ND (0.0341)	100	1	06/22/10 17:00	CTF0150	CF02209
4-Chlorotoluene	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209
4-Isopropyltoluene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
4-Methyl-2-Pentanone	ND (0.0341)	0.4	1	06/22/10 17:00	CTF0150	CF02209
Acetone	ND (0.0341)	6	1	06/22/10 17:00	CTF0150	CF02209
Benzene	ND (0.0034)	2	1	06/22/10 17:00	CTF0150	CF02209
Bromobenzene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
Bromochloromethane	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 7.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
Bromoform	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
Bromomethane	ND (0.0068)	0.5	1	06/22/10 17:00	CTF0150	CF02209
Carbon Disulfide	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
Carbon Tetrachloride	ND (0.0034)	5	1	06/22/10 17:00	CTF0150	CF02209
Chlorobenzene	ND (0.0034)	1	1	06/22/10 17:00	CTF0150	CF02209
Chloroethane	ND (0.0068)	100	1	06/22/10 17:00	CTF0150	CF02209
Chloroform	ND (0.0034)	0.3	1	06/22/10 17:00	CTF0150	CF02209
Chloromethane	ND (0.0068)	100	1	06/22/10 17:00	CTF0150	CF02209
cis-1,2-Dichloroethene	ND (0.0034)	0.3	1	06/22/10 17:00	CTF0150	CF02209
cis-1,3-Dichloropropene	ND (0.0034)	0.01	1	06/22/10 17:00	CTF0150	CF02209
Dibromochloromethane	ND (0.0014)	0.005	1	06/22/10 17:00	CTF0150	CF02209
Dibromomethane	ND (0.0034)	500	1	06/22/10 17:00	CTF0150	CF02209
Dichlorodifluoromethane	ND (0.0068)	1000	1	06/22/10 17:00	CTF0150	CF02209
Diethyl Ether	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
Di-isopropyl ether	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
Ethyl tertiary-butyl ether	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209
Ethylbenzene	ND (0.0034)	40	1	06/22/10 17:00	CTF0150	CF02209
Hexachlorobutadiene	ND (0.0034)	6	1	06/22/10 17:00	CTF0150	CF02209
Isopropylbenzene	ND (0.0034)	1000	1	06/22/10 17:00	CTF0150	CF02209
Methyl tert-Butyl Ether	ND (0.0034)	0.1	1	06/22/10 17:00	CTF0150	CF02209
Methylene Chloride	ND (0.0170)	0.1	1	06/22/10 17:00	CTF0150	CF02209
Naphthalene	ND (0.0034)	4	1	06/22/10 17:00	CTF0150	CF02209
n-Butylbenzene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
n-Propylbenzene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
sec-Butylbenzene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
Styrene	ND (0.0034)	3	1	06/22/10 17:00	CTF0150	CF02209
tert-Butylbenzene	ND (0.0034)	100	1	06/22/10 17:00	CTF0150	CF02209
Tertiary-amyl methyl ether	ND (0.0034)		1	06/22/10 17:00	CTF0150	CF02209
Tetrachloroethene	ND (0.0034)	1	1	06/22/10 17:00	CTF0150	CF02209
Tetrahydrofuran	ND (0.0034)	500	1	06/22/10 17:00	CTF0150	CF02209
Toluene	ND (0.0034)	30	1	06/22/10 17:00	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 7.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0034)	1	1	06/22/10 17:00	CTF0150	CF02209
trans-1,3-Dichloropropene	ND (0.0034)	0.01	1	06/22/10 17:00	CTF0150	CF02209
Trichloroethene	ND (0.0034)	0.3	1	06/22/10 17:00	CTF0150	CF02209
Trichlorofluoromethane	ND (0.0034)	1000	1	06/22/10 17:00	CTF0150	CF02209
Vinyl Chloride	ND (0.0068)	3	1	06/22/10 17:00	CTF0150	CF02209
Xylene O	ND (0.0034)	300	1	06/22/10 17:00	CTF0150	CF02209
Xylene P,M	ND (0.0068)	300	1	06/22/10 17:00	CTF0150	CF02209
Xylenes (Total)	ND (0.0102)	300	1	06/22/10 17:00		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*102 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1221	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1232	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1242	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1248	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1254	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1260	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1262	ND (0.0527)	2	1	06/22/10 10:53		CF02126
Aroclor 1268	ND (0.0527)	2	1	06/22/10 10:53		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*48 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*41 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*48 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 20.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	405 (39.3)	1000	1	06/21/10 23:09	CTF0146	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*108 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	**0.167** (0.035)	0.05	10	06/22/10 22:31	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.347)	2	1	06/22/10 7:04	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.347)	9	1	06/22/10 7:04	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.347)	1	1	06/22/10 7:04	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.347)	4	1	06/22/10 7:04	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.74)	3	1	06/22/10 7:04	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.347)	100	1	06/22/10 7:04	CTF0145	CF02123
2-Chloronaphthalene	ND (0.347)	1000	1	06/22/10 7:04	CTF0145	CF02123
2-Chlorophenol	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2-Methylnaphthalene	**0.427** (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
2-Methylphenol	ND (0.347)	500	1	06/22/10 7:04	CTF0145	CF02123
2-Nitrophenol	ND (0.347)	100	1	06/22/10 7:04	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.696)	1	1	06/22/10 7:04	CTF0145	CF02123
3+4-Methylphenol	ND (0.696)	500	1	06/22/10 7:04	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.347)	100	1	06/22/10 7:04	CTF0145	CF02123
4-Chloroaniline	ND (0.696)	1	1	06/22/10 7:04	CTF0145	CF02123
4-Nitrophenol	ND (1.74)	100	1	06/22/10 7:04	CTF0145	CF02123
Acenaphthene	ND (0.347)	4	1	06/22/10 7:04	CTF0145	CF02123
Acenaphthylene	**2.19** (0.347)	1	1	06/22/10 7:04	CTF0145	CF02123
Acetophenone	ND (0.696)	1000	1	06/22/10 7:04	CTF0145	CF02123
Aniline	ND (1.74)	1000	1	06/22/10 7:04	CTF0145	CF02123
Anthracene	**4.54** (0.347)	1000	1	06/22/10 7:04	CTF0145	CF02123
Azobenzene	ND (0.347)	50	1	06/22/10 7:04	CTF0145	CF02123
Benzo(a)anthracene	**10.6** (3.47)	7	10	06/22/10 14:31	CTF0145	CF02123
Benzo(a)pyrene	**7.66** (1.74)	2	10	06/22/10 14:31	CTF0145	CF02123
Benzo(b)fluoranthene	**7.17** (3.47)	7	10	06/22/10 14:31	CTF0145	CF02123
Benzo(g,h,i)perylene	**2.57** (0.347)	1000	1	06/22/10 7:04	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	**4.24** (0.347)	70	1	06/22/10 7:04	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.347)	500	1	06/22/10 7:04	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.347)	200	1	06/22/10 7:04	CTF0145	CF02123
Butylbenzylphthalate	ND (0.347)	100	1	06/22/10 7:04	CTF0145	CF02123
Chrysene	**8.42** (1.74)	70	10	06/22/10 14:31	CTF0145	CF02123
Dibenzo(a,h)Anthracene	**1.02** (0.174)	0.7	1	06/22/10 7:04	CTF0145	CF02123
Dibenzofuran	**1.50** (0.347)	100	1	06/22/10 7:04	CTF0145	CF02123
Diethylphthalate	ND (0.347)	10	1	06/22/10 7:04	CTF0145	CF02123
Dimethylphthalate	ND (0.347)	30	1	06/22/10 7:04	CTF0145	CF02123
Di-n-butylphthalate	ND (0.347)	50	1	06/22/10 7:04	CTF0145	CF02123
Di-n-octylphthalate	ND (0.347)	1000	1	06/22/10 7:04	CTF0145	CF02123
Fluoranthene	**26.0** (3.47)	1000	10	06/22/10 14:31	CTF0145	CF02123
Fluorene	**1.83** (0.347)	1000	1	06/22/10 7:04	CTF0145	CF02123
Hexachlorobenzene	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
Hexachlorobutadiene	ND (0.347)	6	1	06/22/10 7:04	CTF0145	CF02123
Hexachloroethane	ND (0.347)	0.7	1	06/22/10 7:04	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	**3.00** (0.347)	7	1	06/22/10 7:04	CTF0145	CF02123
Isophorone	ND (0.347)	100	1	06/22/10 7:04	CTF0145	CF02123
Naphthalene	**0.497** (0.347)	4	1	06/22/10 7:04	CTF0145	CF02123
Nitrobenzene	ND (0.347)	500	1	06/22/10 7:04	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.347)	50	1	06/22/10 7:04	CTF0145	CF02123
Pentachlorophenol	ND (1.74)	3	1	06/22/10 7:04	CTF0145	CF02123
Phenanthrene	**17.4** (3.47)	10	10	06/22/10 14:31	CTF0145	CF02123
Phenol	ND (0.347)	1	1	06/22/10 7:04	CTF0145	CF02123
Pyrene	**20.8** (3.47)	1000	10	06/22/10 14:31	CTF0145	CF02123

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*62 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: 2-Fluorophenol	*13 %*	*S-*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-14
Date Sampled: 06/21/10 15:00
Percent Solids: 94
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)		MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5		*82 %*	*30-130*				
Surrogate: Phenol-d6		*50 %*	*30-130*				
Surrogate: p-Terphenyl-d14		*75 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry

3050B/6000/7000 Total Metals

Analyte	Results (MRL)	Method	MA - RCS1 Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Arsenic	ND (2.2)	6010B	20	1	SVD	06/22/10 14:07	2.32	100	CF02128
Barium	**20.1 (2.2)**	6010B	1000	1	SVD	06/22/10 14:07	2.32	100	CF02128
Cadmium	ND (0.45)	6010B	2	1	SVD	06/22/10 14:07	2.32	100	CF02128
Chromium	**5.4 (0.9)**	6010B	30	1	SVD	06/22/10 14:07	2.32	100	CF02128
Lead	ND (4.4)	6010B	300	1	SVD	06/22/10 14:07	2.32	100	CF02128
Mercury	ND (0.032)	7471B	20	1	SVD	06/23/10 13:53	0.64	40	CF02129
Selenium	ND (4.4)	6010B	400	1	SVD	06/22/10 14:07	2.32	100	CF02128
Silver	ND (0.45)	6010B	100	1	SVD	06/22/10 14:07	2.32	100	CF02128

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 11.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
1,1,1-Trichloroethane	ND (0.0023)	30	1	06/22/10 17:28	CTF0150	CF02209
1,1,2,2-Tetrachloroethane	ND (0.0009)	0.005	1	06/22/10 17:28	CTF0150	CF02209
1,1,2-Trichloroethane	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
1,1-Dichloroethane	ND (0.0023)	0.4	1	06/22/10 17:28	CTF0150	CF02209
1,1-Dichloroethene	ND (0.0023)	3	1	06/22/10 17:28	CTF0150	CF02209
1,1-Dichloropropene	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209
1,2,3-Trichlorobenzene	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209
1,2,3-Trichloropropane	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
1,2,4-Trichlorobenzene	ND (0.0023)	2	1	06/22/10 17:28	CTF0150	CF02209
1,2,4-Trimethylbenzene	ND (0.0023)	1000	1	06/22/10 17:28	CTF0150	CF02209
1,2-Dibromo-3-Chloropropane	ND (0.0023)	10	1	06/22/10 17:28	CTF0150	CF02209
1,2-Dibromoethane	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
1,2-Dichlorobenzene	ND (0.0023)	9	1	06/22/10 17:28	CTF0150	CF02209
1,2-Dichloroethane	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
1,2-Dichloropropane	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
1,3,5-Trimethylbenzene	ND (0.0023)	10	1	06/22/10 17:28	CTF0150	CF02209
1,3-Dichlorobenzene	ND (0.0023)	1	1	06/22/10 17:28	CTF0150	CF02209
1,3-Dichloropropane	ND (0.0023)	500	1	06/22/10 17:28	CTF0150	CF02209
1,4-Dichlorobenzene	ND (0.0023)	0.7	1	06/22/10 17:28	CTF0150	CF02209
1,4-Dioxane	ND (0.0456)	0.2	1	06/22/10 17:28	CTF0150	CF02209
2,2-Dichloropropane	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209
2-Butanone	ND (0.0228)	4	1	06/22/10 17:28	CTF0150	CF02209
2-Chlorotoluene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
2-Hexanone	ND (0.0228)	100	1	06/22/10 17:28	CTF0150	CF02209
4-Chlorotoluene	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209
4-Isopropyltoluene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
4-Methyl-2-Pentanone	ND (0.0228)	0.4	1	06/22/10 17:28	CTF0150	CF02209
Acetone	ND (0.0228)	6	1	06/22/10 17:28	CTF0150	CF02209
Benzene	ND (0.0023)	2	1	06/22/10 17:28	CTF0150	CF02209
Bromobenzene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
Bromochloromethane	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 11.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
Bromoform	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
Bromomethane	ND (0.0046)	0.5	1	06/22/10 17:28	CTF0150	CF02209
Carbon Disulfide	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
Carbon Tetrachloride	ND (0.0023)	5	1	06/22/10 17:28	CTF0150	CF02209
Chlorobenzene	ND (0.0023)	1	1	06/22/10 17:28	CTF0150	CF02209
Chloroethane	ND (0.0046)	100	1	06/22/10 17:28	CTF0150	CF02209
Chloroform	ND (0.0023)	0.3	1	06/22/10 17:28	CTF0150	CF02209
Chloromethane	ND (0.0046)	100	1	06/22/10 17:28	CTF0150	CF02209
cis-1,2-Dichloroethene	ND (0.0023)	0.3	1	06/22/10 17:28	CTF0150	CF02209
cis-1,3-Dichloropropene	ND (0.0023)	0.01	1	06/22/10 17:28	CTF0150	CF02209
Dibromochloromethane	ND (0.0009)	0.005	1	06/22/10 17:28	CTF0150	CF02209
Dibromomethane	ND (0.0023)	500	1	06/22/10 17:28	CTF0150	CF02209
Dichlorodifluoromethane	ND (0.0046)	1000	1	06/22/10 17:28	CTF0150	CF02209
Diethyl Ether	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
Di-isopropyl ether	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
Ethyl tertiary-butyl ether	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209
Ethylbenzene	ND (0.0023)	40	1	06/22/10 17:28	CTF0150	CF02209
Hexachlorobutadiene	ND (0.0023)	6	1	06/22/10 17:28	CTF0150	CF02209
Isopropylbenzene	ND (0.0023)	1000	1	06/22/10 17:28	CTF0150	CF02209
Methyl tert-Butyl Ether	ND (0.0023)	0.1	1	06/22/10 17:28	CTF0150	CF02209
Methylene Chloride	ND (0.0114)	0.1	1	06/22/10 17:28	CTF0150	CF02209
Naphthalene	ND (0.0023)	4	1	06/22/10 17:28	CTF0150	CF02209
n-Butylbenzene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
n-Propylbenzene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
sec-Butylbenzene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
Styrene	ND (0.0023)	3	1	06/22/10 17:28	CTF0150	CF02209
tert-Butylbenzene	ND (0.0023)	100	1	06/22/10 17:28	CTF0150	CF02209
Tertiary-amyl methyl ether	ND (0.0023)		1	06/22/10 17:28	CTF0150	CF02209
Tetrachloroethene	ND (0.0023)	1	1	06/22/10 17:28	CTF0150	CF02209
Tetrahydrofuran	ND (0.0023)	500	1	06/22/10 17:28	CTF0150	CF02209
Toluene	ND (0.0023)	30	1	06/22/10 17:28	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 11.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0023)	1	1	06/22/10 17:28	CTF0150	CF02209
trans-1,3-Dichloropropene	ND (0.0023)	0.01	1	06/22/10 17:28	CTF0150	CF02209
Trichloroethene	ND (0.0023)	0.3	1	06/22/10 17:28	CTF0150	CF02209
Trichlorofluoromethane	ND (0.0023)	1000	1	06/22/10 17:28	CTF0150	CF02209
Vinyl Chloride	ND (0.0046)	3	1	06/22/10 17:28	CTF0150	CF02209
Xylene O	ND (0.0023)	300	1	06/22/10 17:28	CTF0150	CF02209
Xylene P,M	ND (0.0046)	300	1	06/22/10 17:28	CTF0150	CF02209
Xylenes (Total)	ND (0.0068)	300	1	06/22/10 17:28		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*112 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30
Cleanup Method: 3665A

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1221	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1232	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1242	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1248	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1254	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1260	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1262	ND (0.0513)	2	1	06/22/10 11:12		CF02126
Aroclor 1268	ND (0.0513)	2	1	06/22/10 11:12		CF02126

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*92 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 20
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SEP
Prepared: 6/21/10 18:30

8100M Total Petroleum Hydrocarbons

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Total Petroleum Hydrocarbons	91.2 (38.7)	1000	1	06/21/10 23:43	CTF0146	CF02125

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*101 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	**0.047 (0.033)**	0.05	10	06/22/10 23:17	CTF0145	CF02123
1,2,4-Trichlorobenzene	ND (0.334)	2	1	06/22/10 7:34	CTF0145	CF02123
1,2-Dichlorobenzene	ND (0.334)	9	1	06/22/10 7:34	CTF0145	CF02123
1,3-Dichlorobenzene	ND (0.334)	1	1	06/22/10 7:34	CTF0145	CF02123
1,4-Dichlorobenzene	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2,4,5-Trichlorophenol	ND (0.334)	4	1	06/22/10 7:34	CTF0145	CF02123
2,4,6-Trichlorophenol	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2,4-Dichlorophenol	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2,4-Dimethylphenol	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2,4-Dinitrophenol	ND (1.68)	3	1	06/22/10 7:34	CTF0145	CF02123
2,4-Dinitrotoluene	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2,6-Dinitrotoluene	ND (0.334)	100	1	06/22/10 7:34	CTF0145	CF02123
2-Chloronaphthalene	ND (0.334)	1000	1	06/22/10 7:34	CTF0145	CF02123
2-Chlorophenol	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2-Methylnaphthalene	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
2-Methylphenol	ND (0.334)	500	1	06/22/10 7:34	CTF0145	CF02123
2-Nitrophenol	ND (0.334)	100	1	06/22/10 7:34	CTF0145	CF02123
3,3'-Dichlorobenzidine	ND (0.670)	1	1	06/22/10 7:34	CTF0145	CF02123
3+4-Methylphenol	ND (0.670)	500	1	06/22/10 7:34	CTF0145	CF02123
4-Bromophenyl-phenylether	ND (0.334)	100	1	06/22/10 7:34	CTF0145	CF02123
4-Chloroaniline	ND (0.670)	1	1	06/22/10 7:34	CTF0145	CF02123
4-Nitrophenol	ND (1.68)	100	1	06/22/10 7:34	CTF0145	CF02123
Acenaphthene	ND (0.334)	4	1	06/22/10 7:34	CTF0145	CF02123
Acenaphthylene	**0.664 (0.334)**	1	1	06/22/10 7:34	CTF0145	CF02123
Acetophenone	ND (0.670)	1000	1	06/22/10 7:34	CTF0145	CF02123
Aniline	ND (1.68)	1000	1	06/22/10 7:34	CTF0145	CF02123
Anthracene	**2.44 (0.334)**	1000	1	06/22/10 7:34	CTF0145	CF02123
Azobenzene	ND (0.334)	50	1	06/22/10 7:34	CTF0145	CF02123
Benzo(a)anthracene	**4.70 (0.334)**	7	1	06/22/10 7:34	CTF0145	CF02123
Benzo(a)pyrene	**3.94 (0.168)**	2	1	06/22/10 7:34	CTF0145	CF02123
Benzo(b)fluoranthene	**4.19 (0.334)**	7	1	06/22/10 7:34	CTF0145	CF02123
Benzo(g,h,i)perylene	**1.65 (0.334)**	1000	1	06/22/10 7:34	CTF0145	CF02123

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Benzo(k)fluoranthene	**2.45** (0.334)	70	1	06/22/10 7:34	CTF0145	CF02123
bis(2-Chloroethoxy)methane	ND (0.334)	500	1	06/22/10 7:34	CTF0145	CF02123
bis(2-Chloroethyl)ether	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
bis(2-chloroisopropyl)Ether	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
bis(2-Ethylhexyl)phthalate	ND (0.334)	200	1	06/22/10 7:34	CTF0145	CF02123
Butylbenzylphthalate	ND (0.334)	100	1	06/22/10 7:34	CTF0145	CF02123
Chrysene	**3.78** (0.168)	70	1	06/22/10 7:34	CTF0145	CF02123
Dibenzo(a,h)Anthracene	**0.596** (0.168)	0.7	1	06/22/10 7:34	CTF0145	CF02123
Dibenzofuran	**0.489** (0.334)	100	1	06/22/10 7:34	CTF0145	CF02123
Diethylphthalate	ND (0.334)	10	1	06/22/10 7:34	CTF0145	CF02123
Dimethylphthalate	ND (0.334)	30	1	06/22/10 7:34	CTF0145	CF02123
Di-n-butylphthalate	ND (0.334)	50	1	06/22/10 7:34	CTF0145	CF02123
Di-n-octylphthalate	ND (0.334)	1000	1	06/22/10 7:34	CTF0145	CF02123
Fluoranthene	**12.4** (1.67)	1000	5	06/22/10 15:01	CTF0145	CF02123
Fluorene	**0.650** (0.334)	1000	1	06/22/10 7:34	CTF0145	CF02123
Hexachlorobenzene	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
Hexachlorobutadiene	ND (0.334)	6	1	06/22/10 7:34	CTF0145	CF02123
Hexachloroethane	ND (0.334)	0.7	1	06/22/10 7:34	CTF0145	CF02123
Indeno(1,2,3-cd)Pyrene	**1.82** (0.334)	7	1	06/22/10 7:34	CTF0145	CF02123
Isophorone	ND (0.334)	100	1	06/22/10 7:34	CTF0145	CF02123
Naphthalene	ND (0.334)	4	1	06/22/10 7:34	CTF0145	CF02123
Nitrobenzene	ND (0.334)	500	1	06/22/10 7:34	CTF0145	CF02123
N-Nitrosodimethylamine	ND (0.334)	50	1	06/22/10 7:34	CTF0145	CF02123
Pentachlorophenol	ND (1.68)	3	1	06/22/10 7:34	CTF0145	CF02123
Phenanthrene	**8.83** (1.67)	10	5	06/22/10 15:01	CTF0145	CF02123
Phenol	ND (0.334)	1	1	06/22/10 7:34	CTF0145	CF02123
Pyrene	**9.13** (1.67)	1000	5	06/22/10 15:01	CTF0145	CF02123

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*66 %*		*30-130*
Surrogate: 2-Chlorophenol-d4	*56 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: 2-Fluorophenol	*14 %*	*S-*	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-15
Date Sampled: 06/21/10 14:50
Percent Solids: 97
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/21/10 18:30

8270C Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Surrogate: Nitrobenzene-d5	*83 %*	*30-130*				
Surrogate: Phenol-d6	*53 %*	*30-130*				
Surrogate: p-Terphenyl-d14	*75 %*	*30-130*				

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 06/21/10 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-06
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
1,1,1-Trichloroethane	ND (0.0050)	30	1	06/22/10 13:40	CTF0150	CF02209
1,1,2,2-Tetrachloroethane	ND (0.0020)	0.005	1	06/22/10 13:40	CTF0150	CF02209
1,1,2-Trichloroethane	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
1,1-Dichloroethane	ND (0.0050)	0.4	1	06/22/10 13:40	CTF0150	CF02209
1,1-Dichloroethene	ND (0.0050)	3	1	06/22/10 13:40	CTF0150	CF02209
1,1-Dichloropropene	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
1,2,3-Trichlorobenzene	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
1,2,3-Trichloropropane	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
1,2,4-Trichlorobenzene	ND (0.0050)	2	1	06/22/10 13:40	CTF0150	CF02209
1,2,4-Trimethylbenzene	ND (0.0050)	1000	1	06/22/10 13:40	CTF0150	CF02209
1,2-Dibromo-3-Chloropropane	ND (0.0050)	10	1	06/22/10 13:40	CTF0150	CF02209
1,2-Dibromoethane	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
1,2-Dichlorobenzene	ND (0.0050)	9	1	06/22/10 13:40	CTF0150	CF02209
1,2-Dichloroethane	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
1,2-Dichloropropane	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
1,3,5-Trimethylbenzene	ND (0.0050)	10	1	06/22/10 13:40	CTF0150	CF02209
1,3-Dichlorobenzene	ND (0.0050)	1	1	06/22/10 13:40	CTF0150	CF02209
1,3-Dichloropropane	ND (0.0050)	500	1	06/22/10 13:40	CTF0150	CF02209
1,4-Dichlorobenzene	ND (0.0050)	0.7	1	06/22/10 13:40	CTF0150	CF02209
1,4-Dioxane	ND (0.100)	0.2	1	06/22/10 13:40	CTF0150	CF02209
2,2-Dichloropropane	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
2-Butanone	ND (0.0500)	4	1	06/22/10 13:40	CTF0150	CF02209
2-Chlorotoluene	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
2-Hexanone	ND (0.0500)	100	1	06/22/10 13:40	CTF0150	CF02209
4-Chlorotoluene	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
4-Isopropyltoluene	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
4-Methyl-2-Pentanone	ND (0.0500)	0.4	1	06/22/10 13:40	CTF0150	CF02209
Acetone	**0.0600 (0.0500)**	3	1	06/22/10 13:40	CTF0150	CF02209
Benzene	ND (0.0050)	2	1	06/22/10 13:40	CTF0150	CF02209
Bromobenzene	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
Bromochloromethane	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 06/21/10 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-06
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
Bromoform	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
Bromomethane	ND (0.0100)	3	1	06/22/10 13:40	CTF0150	CF02209
Carbon Disulfide	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
Carbon Tetrachloride	ND (0.0050)	5	1	06/22/10 13:40	CTF0150	CF02209
Chlorobenzene	ND (0.0050)	1	1	06/22/10 13:40	CTF0150	CF02209
Chloroethane	ND (0.0100)	100	1	06/22/10 13:40	CTF0150	CF02209
Chloroform	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
Chloromethane	ND (0.0100)	100	1	06/22/10 13:40	CTF0150	CF02209
cis-1,2-Dichloroethene	ND (0.0050)	0.3	1	06/22/10 13:40	CTF0150	CF02209
cis-1,3-Dichloropropene	ND (0.0050)	0.01	1	06/22/10 13:40	CTF0150	CF02209
Dibromochloromethane	ND (0.0020)	0.005	1	06/22/10 13:40	CTF0150	CF02209
Dibromomethane	ND (0.0050)	500	1	06/22/10 13:40	CTF0150	CF02209
Dichlorodifluoromethane	ND (0.0100)	1000	1	06/22/10 13:40	CTF0150	CF02209
Diethyl Ether	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
Di-isopropyl ether	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
Ethyl tertiary-butyl ether	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
Ethylbenzene	ND (0.0050)	80	1	06/22/10 13:40	CTF0150	CF02209
Hexachlorobutadiene	ND (0.0050)	6	1	06/22/10 13:40	CTF0150	CF02209
Isopropylbenzene	ND (0.0050)	1000	1	06/22/10 13:40	CTF0150	CF02209
Methyl tert-Butyl Ether	ND (0.0050)	0.1	1	06/22/10 13:40	CTF0150	CF02209
Methylene Chloride	ND (0.0250)	0.1	1	06/22/10 13:40	CTF0150	CF02209
Naphthalene	ND (0.0050)	4	1	06/22/10 13:40	CTF0150	CF02209
n-Butylbenzene	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
n-Propylbenzene	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
sec-Butylbenzene	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
Styrene	ND (0.0050)	3	1	06/22/10 13:40	CTF0150	CF02209
tert-Butylbenzene	ND (0.0050)	100	1	06/22/10 13:40	CTF0150	CF02209
Tertiary-amyl methyl ether	ND (0.0050)		1	06/22/10 13:40	CTF0150	CF02209
Tetrachloroethene	ND (0.0050)	1	1	06/22/10 13:40	CTF0150	CF02209
Tetrahydrofuran	ND (0.0050)	500	1	06/22/10 13:40	CTF0150	CF02209
Toluene	ND (0.0050)	30	1	06/22/10 13:40	CTF0150	CF02209

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: Trip Blank
Date Sampled: 06/21/10 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1006342
ESS Laboratory Sample ID: 1006342-06
Sample Matrix: Solid
Units: mg/kg
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MA - RCS1 Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0050)	1	1	06/22/10 13:40	CTF0150	CF02209
trans-1,3-Dichloropropene	ND (0.0050)	0.01	1	06/22/10 13:40	CTF0150	CF02209
Trichloroethene	ND (0.0050)	0.3	1	06/22/10 13:40	CTF0150	CF02209
Trichlorofluoromethane	ND (0.0050)	1000	1	06/22/10 13:40	CTF0150	CF02209
Vinyl Chloride	ND (0.0100)	0.6	1	06/22/10 13:40	CTF0150	CF02209
Xylene O	ND (0.0050)	300	1	06/22/10 13:40	CTF0150	CF02209
Xylene P,M	ND (0.0100)	300	1	06/22/10 13:40	CTF0150	CF02209
Xylenes (Total)	ND (0.0075)		1	06/22/10 13:40	CTF0150	CF02209

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			3050B/6000/7000 Total Metals							
Batch CF02128 - 3050B										
Blank										
Arsenic	ND	3.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
LCS										
Arsenic	32.7	3.3	mg/kg wet	33.33		98	80-120			
Barium	33.5	3.3	mg/kg wet	33.33		100	80-120			
Cadmium	16.4	0.67	mg/kg wet	16.67		98	80-120			
Chromium	33.9	1.3	mg/kg wet	33.33		102	80-120			
Lead	33.8	6.7	mg/kg wet	33.33		102	80-120			
Selenium	64.1	6.7	mg/kg wet	66.67		96	80-120			
Silver	16.9	0.67	mg/kg wet	16.67		102	80-120			
LCS Dup										
Arsenic	32.3	3.3	mg/kg wet	33.33		97	80-120	1	20	
Barium	33.0	3.3	mg/kg wet	33.33		99	80-120	1	20	
Cadmium	16.2	0.67	mg/kg wet	16.67		97	80-120	1	20	
Chromium	33.4	1.3	mg/kg wet	33.33		100	80-120	1	20	
Lead	33.4	6.7	mg/kg wet	33.33		100	80-120	1	20	
Selenium	63.1	6.7	mg/kg wet	66.67		95	80-120	2	20	
Silver	16.7	0.67	mg/kg wet	16.67		100	80-120	1	20	
Reference										
Arsenic	134	8.6	mg/kg wet	138.0		97	83-117			
Barium	262	8.6	mg/kg wet	269.0		97	79-121			
Cadmium	67.6	1.73	mg/kg wet	71.00		95	83-117			
Chromium	102	3.4	mg/kg wet	105.0		97	80-119			
Lead	140	17.2	mg/kg wet	144.0		98	81-119			
Selenium	187	17.2	mg/kg wet	200.0		94	80-120			
Silver	46.7	1.73	mg/kg wet	45.10		104	66-134			
Reference										
Arsenic	127	8.8	mg/kg wet	138.0		92	83-117			
Barium	255	8.8	mg/kg wet	269.0		95	79-121			
Cadmium	68.0	1.76	mg/kg wet	71.00		96	83-117			
Chromium	102	3.5	mg/kg wet	105.0		98	80-119			
Lead	139	17.6	mg/kg wet	144.0		97	81-119			
Selenium	186	17.6	mg/kg wet	200.0		93	80-120			
Silver	45.9	1.76	mg/kg wet	45.10		102	66-134			
Batch CF02129 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch CF02129 - 7471A										
Mercury	0.239	0.033	mg/kg wet	0.2000		120	80-120			
LCS Dup										
Mercury	0.229	0.033	mg/kg wet	0.2000		114	80-120	4	20	
Reference										
Mercury	29.7	2.91	mg/kg wet	25.30		118	72-128			
Reference										
Mercury	30.3	2.83	mg/kg wet	25.30		120	72-128			
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02209 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02209 - 5035										
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0543*		mg/kg wet	*0.05000*		*109*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0504*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0516*		mg/kg wet	*0.05000*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.0510*		mg/kg wet	*0.05000*		*102*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
1,1,1-Trichloroethane	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02209 - 5035										
1,1,2,2-Tetrachloroethane	0.0486	0.0020	mg/kg wet	0.05000		97	70-130			
1,1,2-Trichloroethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,1-Dichloropropene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,3-Trichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,3-Trichloropropane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,4-Trichlorobenzene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,4-Trimethylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dibromo-3-Chloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dibromoethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichlorobenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloroethane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,2-Dichloropropane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
1,3,5-Trimethylbenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,3-Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,3-Dichloropropane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,4-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,4-Dioxane	0.999	0.100	mg/kg wet	1.000		100	70-130			
2,2-Dichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
2-Butanone	0.270	0.0500	mg/kg wet	0.2500		108	70-130			
2-Chlorotoluene	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
2-Hexanone	0.229	0.0500	mg/kg wet	0.2500		91	70-130			
4-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
4-Isopropyltoluene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
4-Methyl-2-Pentanone	0.226	0.0500	mg/kg wet	0.2500		90	70-130			
Acetone	0.298	0.0500	mg/kg wet	0.2500		119	70-130			
Benzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Bromobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
Bromochloromethane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Bromodichloromethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Bromoform	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Bromomethane	0.0514	0.0100	mg/kg wet	0.05000		103	70-130			
Carbon Disulfide	0.0557	0.0050	mg/kg wet	0.05000		111	70-130			
Carbon Tetrachloride	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Chlorobenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Chloroethane	0.0492	0.0100	mg/kg wet	0.05000		98	70-130			
Chloroform	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Chloromethane	0.0468	0.0100	mg/kg wet	0.05000		94	70-130			
cis-1,2-Dichloroethene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
cis-1,3-Dichloropropene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
Dibromochloromethane	0.0418	0.0020	mg/kg wet	0.05000		84	70-130			
Dibromomethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Dichlorodifluoromethane	0.0455	0.0100	mg/kg wet	0.05000		91	70-130			
Diethyl Ether	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02209 - 5035										
Di-isopropyl ether	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Ethyl tertiary-butyl ether	0.0413	0.0050	mg/kg wet	0.05000		83	70-130			
Ethylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Hexachlorobutadiene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Isopropylbenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Methyl tert-Butyl Ether	0.0426	0.0050	mg/kg wet	0.05000		85	70-130			
Methylene Chloride	0.0531	0.0250	mg/kg wet	0.05000		106	70-130			
Naphthalene	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
n-Butylbenzene	0.0558	0.0050	mg/kg wet	0.05000		112	70-130			
n-Propylbenzene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130			
sec-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
Styrene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
tert-Butylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
Tertiary-amyl methyl ether	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Tetrachloroethene	0.0432	0.0050	mg/kg wet	0.05000		86	70-130			
Tetrahydrofuran	0.0404	0.0050	mg/kg wet	0.05000		81	70-130			
Toluene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
trans-1,2-Dichloroethene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
trans-1,3-Dichloropropene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Trichloroethene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Trichlorofluoromethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
Vinyl Chloride	0.0484	0.0100	mg/kg wet	0.05000		97	70-130			
Xylene O	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Xylene P,M	0.0998	0.0100	mg/kg wet	0.1000		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0461*		mg/kg wet	*0.05000*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0479*		mg/kg wet	*0.05000*		*96*	*70-130*			
Surrogate: Toluene-d8	*0.0477*		mg/kg wet	*0.05000*		*95*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	3	25	
1,1,1-Trichloroethane	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
1,1,2,2-Tetrachloroethane	0.0506	0.0020	mg/kg wet	0.05000		101	70-130	4	25	
1,1,2-Trichloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
1,1-Dichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	0.9	25	
1,1-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
1,1-Dichloropropene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	2	25	
1,2,3-Trichlorobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
1,2,3-Trichloropropane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	7	25	
1,2,4-Trichlorobenzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	1	25	
1,2,4-Trimethylbenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	0.8	25	
1,2-Dibromo-3-Chloropropane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	7	25	
1,2-Dibromoethane	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
1,2-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	0.3	25	
1,2-Dichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	0.4	25	
1,2-Dichloropropane	0.0424	0.0050	mg/kg wet	0.05000		85	70-130	1	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02209 - 5035										
1,3,5-Trimethylbenzene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	0.2	25	
1,3-Dichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
1,3-Dichloropropane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
1,4-Dichlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	0.2	25	
1,4-Dioxane	1.08	0.100	mg/kg wet	1.000		108	70-130	8	20	
2,2-Dichloropropane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
2-Butanone	0.325	0.0500	mg/kg wet	0.2500		130	70-130	18	25	
2-Chlorotoluene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	0.8	25	
2-Hexanone	0.262	0.0500	mg/kg wet	0.2500		105	70-130	14	25	
4-Chlorotoluene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	0.5	25	
4-Isopropyltoluene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
4-Methyl-2-Pentanone	0.242	0.0500	mg/kg wet	0.2500		97	70-130	7	25	
Acetone	0.315	0.0500	mg/kg wet	0.2500		126	70-130	5	25	
Benzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
Bromobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.7	25	
Bromochloromethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	3	25	
Bromodichloromethane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
Bromoform	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	0.9	25	
Bromomethane	0.0514	0.0100	mg/kg wet	0.05000		103	70-130	0.08	25	
Carbon Disulfide	0.0565	0.0050	mg/kg wet	0.05000		113	70-130	1	25	
Carbon Tetrachloride	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	4	25	
Chlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
Chloroethane	0.0495	0.0100	mg/kg wet	0.05000		99	70-130	0.5	25	
Chloroform	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
Chloromethane	0.0482	0.0100	mg/kg wet	0.05000		96	70-130	3	25	
cis-1,2-Dichloroethene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	1	25	
cis-1,3-Dichloropropene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
Dibromochloromethane	0.0424	0.0020	mg/kg wet	0.05000		85	70-130	1	25	
Dibromomethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	5	25	
Dichlorodifluoromethane	0.0452	0.0100	mg/kg wet	0.05000		90	70-130	0.7	25	
Diethyl Ether	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	4	25	
Di-isopropyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Ethyl tertiary-butyl ether	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	0.8	25	
Ethylbenzene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	0.8	25	
Hexachlorobutadiene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	1	25	
Isopropylbenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
Methyl tert-Butyl Ether	0.0432	0.0050	mg/kg wet	0.05000		86	70-130	1	25	
Methylene Chloride	0.0545	0.0250	mg/kg wet	0.05000		109	70-130	3	25	
Naphthalene	0.0584	0.0050	mg/kg wet	0.05000		117	70-130	6	25	
n-Butylbenzene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	0.9	25	
n-Propylbenzene	0.0560	0.0050	mg/kg wet	0.05000		112	70-130	1	25	
sec-Butylbenzene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	0.2	25	
Styrene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	0.7	25	
tert-Butylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	0.5	25	
Tertiary-amyl methyl ether	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	0.2	25	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch CF02209 - 5035										
Tetrachloroethene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130	0.8	25	
Tetrahydrofuran	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	11	25	
Toluene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	1	25	
trans-1,2-Dichloroethene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	0.4	25	
trans-1,3-Dichloropropene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	5	25	
Trichloroethene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	3	25	
Trichlorofluoromethane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	2	25	
Vinyl Chloride	0.0486	0.0100	mg/kg wet	0.05000		97	70-130	0.3	25	
Xylene O	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	0.5	25	
Xylene P,M	0.0994	0.0100	mg/kg wet	0.1000		99	70-130	0.4	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/kg wet	*0.05000*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0499*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0474*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: Toluene-d8	*0.0474*		mg/kg wet	*0.05000*		*95*	*70-130*			
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Blank										
Aroclor 1016	ND	0.0500	mg/kg wet							
Aroclor 1016 (1)	ND	0.0500	mg/kg wet							
Aroclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (2)	ND	0.0500	mg/kg wet							
Aroclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (3)	ND	0.0500	mg/kg wet							
Aroclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (4)	ND	0.0500	mg/kg wet							
Aroclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1016 (5)	ND	0.0500	mg/kg wet							
Aroclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221	ND	0.0500	mg/kg wet							
Aroclor 1221 (1)	ND	0.0500	mg/kg wet							
Aroclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (2)	ND	0.0500	mg/kg wet							
Aroclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (3)	ND	0.0500	mg/kg wet							
Aroclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (4)	ND	0.0500	mg/kg wet							
Aroclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1221 (5)	ND	0.0500	mg/kg wet							
Aroclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232	ND	0.0500	mg/kg wet							
Aroclor 1232 (1)	ND	0.0500	mg/kg wet							
Aroclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (2)	ND	0.0500	mg/kg wet							
Aroclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Aroclor 1232 (3)	ND	0.0500	mg/kg wet							
Aroclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (4)	ND	0.0500	mg/kg wet							
Aroclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1232 (5)	ND	0.0500	mg/kg wet							
Aroclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242	ND	0.0500	mg/kg wet							
Aroclor 1242 (1)	ND	0.0500	mg/kg wet							
Aroclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (2)	ND	0.0500	mg/kg wet							
Aroclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (3)	ND	0.0500	mg/kg wet							
Aroclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (4)	ND	0.0500	mg/kg wet							
Aroclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1242 (5)	ND	0.0500	mg/kg wet							
Aroclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248	ND	0.0500	mg/kg wet							
Aroclor 1248 (1)	ND	0.0500	mg/kg wet							
Aroclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (2)	ND	0.0500	mg/kg wet							
Aroclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (3)	ND	0.0500	mg/kg wet							
Aroclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (4)	ND	0.0500	mg/kg wet							
Aroclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1248 (5)	ND	0.0500	mg/kg wet							
Aroclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254	ND	0.0500	mg/kg wet							
Aroclor 1254 (1)	ND	0.0500	mg/kg wet							
Aroclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (2)	ND	0.0500	mg/kg wet							
Aroclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (3)	ND	0.0500	mg/kg wet							
Aroclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (4)	ND	0.0500	mg/kg wet							
Aroclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1254 (5)	ND	0.0500	mg/kg wet							
Aroclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260	ND	0.0500	mg/kg wet							
Aroclor 1260 (1)	ND	0.0500	mg/kg wet							
Aroclor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (2)	ND	0.0500	mg/kg wet							
Aroclor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (3)	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Aroclor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (4)	ND	0.0500	mg/kg wet							
Aroclor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1260 (5)	ND	0.0500	mg/kg wet							
Aroclor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262	ND	0.0500	mg/kg wet							
Aroclor 1262 (1)	ND	0.0500	mg/kg wet							
Aroclor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (2)	ND	0.0500	mg/kg wet							
Aroclor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (3)	ND	0.0500	mg/kg wet							
Aroclor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (4)	ND	0.0500	mg/kg wet							
Aroclor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1262 (5)	ND	0.0500	mg/kg wet							
Aroclor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268	ND	0.0500	mg/kg wet							
Aroclor 1268 (1)	ND	0.0500	mg/kg wet							
Aroclor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (2)	ND	0.0500	mg/kg wet							
Aroclor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (3)	ND	0.0500	mg/kg wet							
Aroclor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (4)	ND	0.0500	mg/kg wet							
Aroclor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
Aroclor 1268 (5)	ND	0.0500	mg/kg wet							
Aroclor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0255*		mg/kg wet	*0.02500*		*102*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0204*		mg/kg wet	*0.02500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0236*		mg/kg wet	*0.02500*		*94*	*30-150*			
LCS										
Aroclor 1016	0.485	0.0500	mg/kg wet	0.5000		97	40-140			
Aroclor 1260	0.499	0.0500	mg/kg wet	0.5000		100	40-140			
Surrogate: Decachlorobiphenyl	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0244*		mg/kg wet	*0.02500*		*98*	*30-150*			
LCS Dup										
Aroclor 1016	0.474	0.0500	mg/kg wet	0.5000		95	40-140	2	30	
Aroclor 1260	0.487	0.0500	mg/kg wet	0.5000		97	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0263*		mg/kg wet	*0.02500*		*105*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch CF02126 - 3541										
Surrogate: Tetrachloro-m-xylene	*0.0214*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0238*		mg/kg wet	*0.02500*		*95*	*30-150*			
8100M Total Petroleum Hydrocarbons										
Batch CF02125 - 3546										
Blank										
Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
Surrogate: O-Terphenyl	*4.67*		mg/kg wet	*5.000*		*93*	*40-140*			
LCS										
Decane (C10)	2.2	0.2	mg/kg wet	2.500		86	40-140			
Docosane (C22)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Dodecane (C12)	2.5	0.2	mg/kg wet	2.500		98	40-140			
Eicosane (C20)	2.3	0.2	mg/kg wet	2.500		94	40-140			
Hexacosane (C26)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Nonadecane (C19)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Nonane (C9)	1.9	0.2	mg/kg wet	2.500		75	30-140			
Octacosane (C28)	2.3	0.2	mg/kg wet	2.500		94	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		94	40-140			
Tetracosane (C24)	2.4	0.2	mg/kg wet	2.500		94	40-140			
Tetradecane (C14)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		95	40-140			
Surrogate: O-Terphenyl	*4.52*		mg/kg wet	*5.000*		*90*	*40-140*			
LCS Dup										
Decane (C10)	2.2	0.2	mg/kg wet	2.500		90	40-140	4	50	
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		95	40-140	4	50	
Dodecane (C12)	2.6	0.2	mg/kg wet	2.500		102	40-140	4	50	
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Hexacosane (C26)	2.4	0.2	mg/kg wet	2.500		96	40-140	4	50	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Total Petroleum Hydrocarbons										
Batch CF02125 - 3546										
Hexadecane (C16)	2.4	0.2	mg/kg wet	2.500		96	40-140	4	50	
Nonadecane (C19)	2.6	0.2	mg/kg wet	2.500		102	40-140	4	50	
Nonane (C9)	1.9	0.2	mg/kg wet	2.500		77	30-140	4	50	
Octacosane (C28)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Tetracosane (C24)	2.4	0.2	mg/kg wet	2.500		98	40-140	4	50	
Tetradecane (C14)	2.4	0.2	mg/kg wet	2.500		96	40-140	3	50	
Triacontane (C30)	2.5	0.2	mg/kg wet	2.500		99	40-140	4	50	
Surrogate: O-Terphenyl	*4.54*		mg/kg wet	*5.000*		*91*	*40-140*			
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Blank										
1,1-Biphenyl	ND	0.007	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.09*		mg/kg wet	*3.333*		*63*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*2.72*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*2.70*		mg/kg wet	*5.000*		*54*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/kg wet	*3.333*		*65*	*30-130*			
Surrogate: 2-Fluorophenol	*2.56*		mg/kg wet	*5.000*		*51*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.34*		mg/kg wet	*3.333*		*70*	*30-130*			
Surrogate: Phenol-d6	*2.94*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.41*		mg/kg wet	*3.333*		*72*	*30-130*			
LCS										
1,1-Biphenyl	2.74	0.333	mg/kg wet	3.333		82	40-140			
1,2,4-Trichlorobenzene	2.59	0.333	mg/kg wet	3.333		78	40-140			
1,2-Dichlorobenzene	2.68	0.333	mg/kg wet	3.333		80	40-140			
1,3-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333		76	40-140			
1,4-Dichlorobenzene	2.54	0.333	mg/kg wet	3.333		76	40-140			
2,4,5-Trichlorophenol	2.84	0.333	mg/kg wet	3.333		85	30-130			
2,4,6-Trichlorophenol	2.79	0.333	mg/kg wet	3.333		84	30-130			
2,4-Dichlorophenol	2.79	0.333	mg/kg wet	3.333		84	30-130			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
2,4-Dimethylphenol	2.95	0.333	mg/kg wet	3.333		88	30-130			
2,4-Dinitrophenol	2.30	1.67	mg/kg wet	3.333		69	30-130			
2,4-Dinitrotoluene	3.05	0.333	mg/kg wet	3.333		91	40-140			
2,6-Dinitrotoluene	2.94	0.333	mg/kg wet	3.333		88	40-140			
2-Chloronaphthalene	2.32	0.333	mg/kg wet	3.333		70	40-140			
2-Chlorophenol	2.57	0.333	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	4.14	0.333	mg/kg wet	3.333		124	40-140			
2-Methylphenol	2.78	0.333	mg/kg wet	3.333		83	30-130			
2-Nitrophenol	2.53	0.333	mg/kg wet	3.333		76	30-130			
3,3´-Dichlorobenzidine	2.39	0.667	mg/kg wet	3.333		72	40-140			
3+4-Methylphenol	5.52	0.667	mg/kg wet	6.667		83	30-130			
4-Bromophenyl-phenylether	2.64	0.333	mg/kg wet	3.333		79	40-140			
4-Chloroaniline	2.41	0.667	mg/kg wet	3.333		72	40-140			
4-Nitrophenol	3.47	1.67	mg/kg wet	3.333		104	30-130			
Acenaphthene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Acenaphthylene	2.51	0.333	mg/kg wet	3.333		75	40-140			
Acetophenone	2.91	0.667	mg/kg wet	3.333		87	40-140			
Aniline	2.67	1.67	mg/kg wet	3.333		80	40-140			
Anthracene	2.90	0.333	mg/kg wet	3.333		87	40-140			
Azobenzene	2.86	0.333	mg/kg wet	3.333		86	40-140			
Benzo(a)anthracene	2.83	0.333	mg/kg wet	3.333		85	40-140			
Benzo(a)pyrene	2.90	0.167	mg/kg wet	3.333		87	40-140			
Benzo(b)fluoranthene	2.90	0.333	mg/kg wet	3.333		87	40-140			
Benzo(g,h,i)perylene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Benzo(k)fluoranthene	2.94	0.333	mg/kg wet	3.333		88	40-140			
bis(2-Chloroethoxy)methane	2.90	0.333	mg/kg wet	3.333		87	40-140			
bis(2-Chloroethyl)ether	3.03	0.333	mg/kg wet	3.333		91	40-140			
bis(2-chloroisopropyl)Ether	2.71	0.333	mg/kg wet	3.333		81	40-140			
bis(2-Ethylhexyl)phthalate	2.90	0.333	mg/kg wet	3.333		87	40-140			
Butylbenzylphthalate	2.85	0.333	mg/kg wet	3.333		85	40-140			
Chrysene	2.71	0.167	mg/kg wet	3.333		81	40-140			
Dibenzo(a,h)Anthracene	2.69	0.167	mg/kg wet	3.333		81	40-140			
Dibenzofuran	2.81	0.333	mg/kg wet	3.333		84	40-140			
Diethylphthalate	2.94	0.333	mg/kg wet	3.333		88	40-140			
Dimethylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140			
Di-n-butylphthalate	2.91	0.333	mg/kg wet	3.333		87	40-140			
Di-n-octylphthalate	2.65	0.333	mg/kg wet	3.333		80	40-140			
Fluoranthene	3.18	0.333	mg/kg wet	3.333		95	40-140			
Fluorene	3.00	0.333	mg/kg wet	3.333		90	40-140			
Hexachlorobenzene	2.73	0.333	mg/kg wet	3.333		82	40-140			
Hexachlorobutadiene	2.54	0.333	mg/kg wet	3.333		76	40-140			
Hexachloroethane	2.78	0.333	mg/kg wet	3.333		83	40-140			
Indeno(1,2,3-cd)Pyrene	2.88	0.333	mg/kg wet	3.333		86	40-140			
Isophorone	2.43	0.333	mg/kg wet	3.333		73	40-140			
Naphthalene	2.61	0.333	mg/kg wet	3.333		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Nitrobenzene	3.06	0.333	mg/kg wet	3.333		92	40-140			
N-Nitrosodimethylamine	0.825	0.333	mg/kg wet	3.333		25	40-140			B-
Pentachlorophenol	2.79	1.67	mg/kg wet	3.333		84	30-130			
Phenanthrene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Phenol	3.20	0.333	mg/kg wet	3.333		96	30-130			
Pyrene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.43*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.39*		mg/kg wet	*5.000*		*68*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.15*		mg/kg wet	*5.000*		*63*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.44*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2-Fluorophenol	*2.96*		mg/kg wet	*5.000*		*59*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.73*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: Phenol-d6	*3.51*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.53*		mg/kg wet	*3.333*		*76*	*30-130*			
LCS Dup										
1,1-Biphenyl	2.83	0.333	mg/kg wet	3.333		85	40-140	3	30	
1,2,4-Trichlorobenzene	2.66	0.333	mg/kg wet	3.333		80	40-140	3	30	
1,2-Dichlorobenzene	2.74	0.333	mg/kg wet	3.333		82	40-140	2	30	
1,3-Dichlorobenzene	2.42	0.333	mg/kg wet	3.333		73	40-140	4	30	
1,4-Dichlorobenzene	2.73	0.333	mg/kg wet	3.333		82	40-140	7	30	
2,4,5-Trichlorophenol	2.94	0.333	mg/kg wet	3.333		88	30-130	3	30	
2,4,6-Trichlorophenol	2.95	0.333	mg/kg wet	3.333		88	30-130	5	30	
2,4-Dichlorophenol	2.97	0.333	mg/kg wet	3.333		89	30-130	6	30	
2,4-Dimethylphenol	3.05	0.333	mg/kg wet	3.333		91	30-130	3	30	
2,4-Dinitrophenol	2.43	1.67	mg/kg wet	3.333		73	30-130	5	30	
2,4-Dinitrotoluene	3.14	0.333	mg/kg wet	3.333		94	40-140	3	30	
2,6-Dinitrotoluene	3.08	0.333	mg/kg wet	3.333		92	40-140	5	30	
2-Chloronaphthalene	2.40	0.333	mg/kg wet	3.333		72	40-140	3	30	
2-Chlorophenol	2.71	0.333	mg/kg wet	3.333		81	30-130	5	30	
2-Methylnaphthalene	4.39	0.333	mg/kg wet	3.333		132	40-140	6	30	
2-Methylphenol	2.92	0.333	mg/kg wet	3.333		88	30-130	5	30	
2-Nitrophenol	2.71	0.333	mg/kg wet	3.333		81	30-130	7	30	
3,3'-Dichlorobenzidine	2.49	0.667	mg/kg wet	3.333		75	40-140	4	30	
3+4-Methylphenol	5.69	0.667	mg/kg wet	6.667		85	30-130	3	30	
4-Bromophenyl-phenylether	2.80	0.333	mg/kg wet	3.333		84	40-140	6	30	
4-Chloroaniline	2.42	0.667	mg/kg wet	3.333		73	40-140	0.5	30	
4-Nitrophenol	3.60	1.67	mg/kg wet	3.333		108	30-130	3	30	
Acenaphthene	2.83	0.333	mg/kg wet	3.333		85	40-140	4	30	
Acenaphthylene	2.60	0.333	mg/kg wet	3.333		78	40-140	4	30	
Acetophenone	2.78	0.667	mg/kg wet	3.333		84	40-140	5	30	
Aniline	2.22	1.67	mg/kg wet	3.333		67	40-140	19	30	
Anthracene	2.94	0.333	mg/kg wet	3.333		88	40-140	1	30	
Azobenzene	2.96	0.333	mg/kg wet	3.333		89	40-140	4	30	
Benzo(a)anthracene	3.16	0.333	mg/kg wet	3.333		95	40-140	11	30	
Benzo(a)pyrene	2.96	0.167	mg/kg wet	3.333		89	40-140	2	30	

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
Batch CF02123 - 3546										
Benzo(b)fluoranthene	3.17	0.333	mg/kg wet	3.333		95	40-140	9	30	
Benzo(g,h,i)perylene	2.82	0.333	mg/kg wet	3.333		85	40-140	7	30	
Benzo(k)fluoranthene	2.77	0.333	mg/kg wet	3.333		83	40-140	6	30	
bis(2-Chloroethoxy)methane	2.98	0.333	mg/kg wet	3.333		89	40-140	3	30	
bis(2-Chloroethyl)ether	3.18	0.333	mg/kg wet	3.333		95	40-140	5	30	
bis(2-chloroisopropyl)Ether	2.81	0.333	mg/kg wet	3.333		84	40-140	4	30	
bis(2-Ethylhexyl)phthalate	2.91	0.333	mg/kg wet	3.333		87	40-140	0.6	30	
Butylbenzylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140	2	30	
Chrysene	2.78	0.167	mg/kg wet	3.333		83	40-140	2	30	
Dibenzo(a,h)Anthracene	2.88	0.167	mg/kg wet	3.333		86	40-140	7	30	
Dibenzofuran	2.91	0.333	mg/kg wet	3.333		87	40-140	4	30	
Diethylphthalate	3.00	0.333	mg/kg wet	3.333		90	40-140	2	30	
Dimethylphthalate	2.83	0.333	mg/kg wet	3.333		85	40-140	4	30	
Di-n-butylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140	0.09	30	
Di-n-octylphthalate	2.68	0.333	mg/kg wet	3.333		80	40-140	1	30	
Fluoranthene	3.05	0.333	mg/kg wet	3.333		92	40-140	4	30	
Fluorene	3.01	0.333	mg/kg wet	3.333		90	40-140	0.2	30	
Hexachlorobenzene	2.86	0.333	mg/kg wet	3.333		86	40-140	5	30	
Hexachlorobutadiene	2.61	0.333	mg/kg wet	3.333		78	40-140	3	30	
Hexachloroethane	2.82	0.333	mg/kg wet	3.333		85	40-140	2	30	
Indeno(1,2,3-cd)Pyrene	3.07	0.333	mg/kg wet	3.333		92	40-140	6	30	
Isophorone	2.52	0.333	mg/kg wet	3.333		76	40-140	4	30	
Naphthalene	2.70	0.333	mg/kg wet	3.333		81	40-140	4	30	
Nitrobenzene	3.20	0.333	mg/kg wet	3.333		96	40-140	4	30	
N-Nitrosodimethylamine	0.806	0.333	mg/kg wet	3.333		24	40-140	2	30	B-
Pentachlorophenol	2.87	1.67	mg/kg wet	3.333		86	30-130	3	30	
Phenanthrene	2.73	0.333	mg/kg wet	3.333		82	40-140	4	30	
Phenol	3.02	0.333	mg/kg wet	3.333		91	30-130	6	30	
Pyrene	2.81	0.333	mg/kg wet	3.333		84	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.45*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*3.51*		mg/kg wet	*5.000*		*70*	*30-130*			
Surrogate: 2-Chlorophenol-d4	*3.25*		mg/kg wet	*5.000*		*65*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.45*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: 2-Fluorophenol	*2.98*		mg/kg wet	*5.000*		*60*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.80*		mg/kg wet	*3.333*		*84*	*30-130*			
Surrogate: Phenol-d6	*3.58*		mg/kg wet	*5.000*		*72*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.58*		mg/kg wet	*3.333*		*77*	*30-130*			

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-	Surrogate recovery(ies) below lower control limit (S-).
I	Internal Standard(s) outside of criteria (I).
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit (C+).
C-	Continuing Calibration recovery is below lower control limit (C-).
B-	Blank Spike recovery is below lower control limit (B-).
4	Internal standard response was low for the sample due to high soil weight. Sample did not purge properly.
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006342

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002
http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752
http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: JR Vinagro
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10060342
Date Project Due: 6/28/10
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No
   Air No.:
2. Were Custody Seals Present? No
3. Were Custody Seals Intact? N/A
4. Is Radiation count < 100 CPM? Yes
5. Is a cooler present? Yes
   Cooler Temp: 4.8
   Iced With: Icepacks
6. Was COC included with samples? Yes
7. Was COC signed and dated by client? Yes
8. Does the COC match the sample Yes
9. Is COC complete and correct? Yes
10. Are the samples properly preserved? Yes
11. Proper sample containers used? Yes
12. Any air bubbles in the VOA vials? N/A
13. Holding times exceeded? No
14. Sufficient sample volumes? Yes
15. Any Subcontracting needed? No
16. Are ESS labels on correct containers? Yes|No
17. Were samples received intact? Yes|No
    ESS Sample IDs: _____
    Sub Lab: _____
    Analysis: _____
    TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	1	other

Completed By: _____ Date/Time: 6/2/10
Reviewed By: _____ Date/Time: 06/02/10

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1006342

Turn Time _____ Standard Other 48 hr TAT

Reporting Limits - _____

Regulatory State: [MA] RI CT NH NJ NY ME Other_____

Is this project for any of the following:(please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Electonic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.:	Fax.:	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH 8100				
1	6/21/10	1400	Comp	Soil	WS-8	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X				
2	↓	1415		↓	WS-12	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓				
3	↓	1435		↓	WS-13	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓				
4	↓	1500		↓	WS-14	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓				
5	↓	1450		↓	WS-15	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓				
6	↓	PM			TRIP BLANK	↓	↓		↓		X								

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 4.8°C

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by:

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
6/21/10 17:[illegible]	6/21/10 17:15	12:40 6/21/10	6/21/10 17:40
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM/VOA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

CERTIFICATE OF ANALYSIS

Dana Zewinski
J.R. Vinagro Corporation
2208 Plainfield Pike
Johnston, RI 02919

RE: Chapman Testing (N/A)
ESS Laboratory Work Order Number: 1006398

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Melissa Pagliarini
Date: 2010.06.25 17:01:37 -04'00'

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006398

SAMPLE RECEIPT

The following samples were received on June 23, 2010 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

These samples were originally received on June 21, 2010 as ESS Laboratory Sample IDs 1006324-05, 1006324-07 and 1006342-03.

Lab Number	SampleName	Matrix	Analysis
1006398-01	WS-5	Soil	1311/7421
1006398-02	WS-7	Soil	1311/7421
1006398-03	WS-13	Soil	1311/7421

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006398

PROJECT NARRATIVE

1311/6000/7000 TCLP Metals

CF02417-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Lead (-73% @ 75-125%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-5
Date Sampled: 06/21/10 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1006398
ESS Laboratory Sample ID: 1006398-01
Sample Matrix: Soil
Units: mg/L

TCLP Extraction Date: 6/23/10 16:25

1311/6000/7000 TCLP Metals

Analyte	Results (MRL)	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	0.207 (0.100)	1311/7421		20	SVD	06/25/10 14:22	50	50	CF02417

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-7
Date Sampled: 06/21/10 11:15
Percent Solids: N/A

ESS Laboratory Work Order: 1006398
ESS Laboratory Sample ID: 1006398-02
Sample Matrix: Soil
Units: mg/L

TCLP Extraction Date: 6/23/10 16:25

1311/6000/7000 TCLP Metals

Analyte	Results (MRL)	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	0.523 (0.100)	1311/7421		20	SVD	06/25/10 14:28	50	50	CF02417

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing
Client Sample ID: WS-13
Date Sampled: 06/21/10 14:35
Percent Solids: N/A

ESS Laboratory Work Order: 1006398
ESS Laboratory Sample ID: 1006398-03
Sample Matrix: Soil
Units: mg/L

TCLP Extraction Date: 6/23/10 16:25

1311/6000/7000 TCLP Metals

Analyte	Results (MRL)	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Lead	5.94 (1.00)	1311/7421		200	SVD	06/25/10 14:57	50	50	CF02417

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006398

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/6000/7000 TCLP Metals										
Batch CF02417 - 3005A										
Blank										
Lead	ND	0.100	mg/L							
LCS										
Lead	0.525	0.100	mg/L	0.5000		105	80-120			
LCS Dup										
Lead	0.521	0.100	mg/L	0.5000		104	80-120	0.7	20	
Duplicate **Source: 1006398-03**										
Lead	5.20	1.00	mg/L		5.94			13	20	
Matrix Spike **Source: 1006398-03**										
Lead	5.58	1.00	mg/L	0.5000	5.94	NR	75-125			M-

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006398

Notes and Definitions

U	Analyte included in the analysis, but not detected
M-	Matrix Spike recovery is below lower control limit (M-).
D	Diluted.
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte

CERTIFICATE OF ANALYSIS

Client Name: J.R. Vinagro Corporation
Client Project ID: Chapman Testing

ESS Laboratory Work Order: 1006398

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)
A2LA Accredited: Testing Cert# 2864.01
http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002
http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752
http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

10063918

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.essalaboratory.com

CHAIN OF CUSTODY

ESS Lab # ~~1006324~~

Turn Time _____ Standard Other 48 hr TAT

Regulatory State: [MA] RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Reporting Limits - _____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.	Fax.	email:	

ESS Lab ID	Date	Collection Time	Sub -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA 8 Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH 8100	TCLP			
01	6/21/10	0915	Comp	Soil	WS-1	1/6/9	2/1/2	AG/VW	8oz/40ml/40ml	X	X	X	X	X	X				
02		0955			WS-2														
03		0925			WS-3														
04		1010			WS-4														
01 05		1030			WS-5											✓			
06		1055			WS-6														
02 07		1115			WS-7											✓			
08		1320			WS-9														
09		1215			WS-10														
10	↓	1145		↓	WS-11	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				

Container Type: P-Poly G-Glass AG-Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid S-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil WP-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 5.9°c

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by: Laura Yellen

Comments: *Blind matrix spike for WS-5 RCRA 8 metals only

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
6/21/10 1345	Ralph Banks 6/21/10 13:45	Ralph Banks 6/21/10 15:25	6/21/10 16:00
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By signing MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

1D06398

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.essLaboratory.com

CHAIN OF CUSTODY

ESS Lab # ~~1006342~~

Turn Time _____ Standard Other **48 hr TAT**

Regulatory State: [MA] RI CT NH NJ NY ME Other_____

Is this project for any of the following: (please circle)
[MA-MCP] Navy USACE CT DEP Other_____

Reporting Limits - _____

Electronic Deliverables Excel Access PDF

Co. Name: J. R. Vinagro	Project #:	Project Name: Chapman Value	
Contact Person: Dana Zewinski	Address: 2208 Plainfield Pike		
City: Johnston	State: RI	Zip: 02919	PO #:
Tel.	Fax.	email:	

ESS Lab ID	Date	Collection Time	Grab -G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	RCRA-8-Metals	Volatile Organics	EPH w/PAHs	PCBs by 8082	Semi-Volatile Organics	TPH 8100	TCLP			
1	6/21/10	1400	Comp	Soil	WS-8	1/6/9	2/1/2	AG/V/V	8oz/40ml/40ml	X	X	X	X	X	X				
2	↓	1415		↓	WS-12	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓			
3	↓	1435		↓	WS-13	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓			
4	↓	1500		↓	WS-14	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓				
5	↓	1450		↓	WS-15	↓	↓	↓	↓	✓	✓	✓	✓	✓	✓				
6	↓	PM			TRIP BLANK	↓	↓		↓		X								

03

Container Type: P-Poly G-Glass A6-Amber Glass S-Sterile V-VOA

Matrix S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filter

Cooler Present ✓ Yes ____ No

Seals Intact ____ Yes ____ No NA: ✓

Cooler Temperature: 4.8°C

Internal Use Only
[ ] Pickup
[ ] Technician____

Preservative Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Ascorbic Acid, 8-ZnAct, 9- DI Water

Sampled by:

Comments:

Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)
6/21/10 17:[illegible]	6/21/10 17:15	12:40 6/21/10	6/21/10 17:40
Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)	Received by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM/VPA

Please fax to the laboratory all changes to Chain of Custody

1 (White) Lab Copy
2 (Yellow) Client Receipt

Elizabeth Ouk

From: Metals ESS
Sent: Wednesday, June 23, 2010 3:19 PM
To: Elizabeth Ouk
Cc: Eric Baanante
Subject: Vinagro TCLPs

Please log in samples for TCLP Pb

1006342-03

1006324-05

1006324-07

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 8, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Chapman Valve Pinevale St., Springfield, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0163

Enclosed are results of analyses for samples received by the laboratory on July 6, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/8/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0163

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapman Valve Pinevale St., Springfield, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-16	10G0163-01	Soil		SM 2540G	
				SW-846 6010B	
WS-17	10G0163-02	Soil		SM 2540G	
				SW-846 6010B	
WS-18	10G0163-03	Soil		SM 2540G	
				SW-846 6010B	
WS-19	10G0163-04	Soil		SM 2540G	
				SW-846 6010B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only lead results were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-16 Sampled: 7/6/2010 07:40

Sample ID: 10G0163-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.4	0.82	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 16:09	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-16 Sampled: 7/6/2010 07:40

Sample ID: 10G0163-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.9		% Wt	1		SM 2540G	7/7/10	7/8/10 8:52	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-17 Sampled: 7/6/2010 07:42

Sample ID: 10G0163-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	9.2	0.71	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:27	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St.
Sample Description:
Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-17
Sampled: 7/6/2010 07:42

Sample ID: 10G0163-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.5		% Wt	1		SM 2540G	7/7/10	7/8/10 8:52	NB

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-18 Sampled: 7/6/2010 07:48

Sample ID: 10G0163-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	19	0.82	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:32	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-18 Sampled: 7/6/2010 07:48

Sample ID: 10G0163-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.5		% Wt	1		SM 2540G	7/7/10	7/8/10 8:52	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St.,
Sample Description:
Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-19
Sampled: 7/6/2010 07:50

Sample ID: 10G0163-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	81	0.81	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:36	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0163

Date Received: 7/6/2010

Field Sample #: WS-19 Sampled: 7/6/2010 07:50

Sample ID: 10G0163-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	7/7/10	7/8/10 8:52	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0163-01 [WS-16]	B015858	07/07/10
10G0163-02 [WS-17]	B015858	07/07/10
10G0163-03 [WS-18]	B015858	07/07/10
10G0163-04 [WS-19]	B015858	07/07/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0163-01 [WS-16]	B015848	0.930	50.0	07/07/10
10G0163-02 [WS-17]	B015848	1.10	50.0	07/07/10
10G0163-03 [WS-18]	B015848	0.956	50.0	07/07/10
10G0163-04 [WS-19]	B015848	1.00	50.0	07/07/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015848 - SW-846 3050B										
Blank (B015848-BLK1)				Prepared & Analyzed: 07/07/10						
Lead	ND	0.75	mg/Kg wet							
LCS (B015848-BS1)				Prepared & Analyzed: 07/07/10						
Lead	101	1.5	mg/Kg wet	106		95.3	79.1-120.3			
LCS (B015848-BS2)				Prepared & Analyzed: 07/07/10						
Lead	0.881	0.75	mg/Kg wet	0.750		117	79.1-120.3			
LCS Dup (B015848-BSD1)				Prepared & Analyzed: 07/07/10						
Lead	101	1.5	mg/Kg wet	107		93.8	79.1-120.3	0.129	30	
Duplicate (B015848-DUP1)		**Source: 10G0163-01**		Prepared & Analyzed: 07/07/10						
Lead	3.38	0.81	mg/Kg dry		3.43			1.53	35	
Matrix Spike (B015848-MS1)		**Source: 10G0163-01**		Prepared & Analyzed: 07/07/10						
Lead	102	0.81	mg/Kg dry	109	3.43	90.8	75-125			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Lead	CT,NH,NY,AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

1060163

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: Weston & Sampson
Address:
Attention: George Naslas / Brian McCormack
Project Location: Chapman Valve Pinevale St Springfield, MA
Sampled By: Laura Yellen

Telephone: 978 532-1900
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax # naslasge@wsinc.com
Email: mccormabe@wsinc.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Total Lead										# of Containers / ** Preservation / ***Container Code
								I										
								H										
								A										
-01	WS-16	7/6/10	0740			S	U	X										
-02	WS-17		0742					X										
-03	WS-18		0748					X										
-04	WS-19		0750					X										
-05	WS-20		0755															
-06	WS-21		0758															
-07	WS-22		0800															
-08	WS-23		0805															

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
* Please hold samples WS-20 through WS-23

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/6/10 1335
Received by: (signature)	Date/Time: 7/6 1335
Relinquished by: (signature)	Date/Time: 7/6 1645
Received by: (signature) Linda Anderson	Date/Time: 7/6/10 1645

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Weston & Sampson RECEIVED BY: AMA DATE: 7-6-10

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	8	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0163
Project Location:	Chapman Valve Pinevale St., Springfield, MA	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0163-01 thru 10G0163-04

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 07/08/10

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 30, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Chapman Valve Pinevale St.. Springfield, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10H0636

Enclosed are results of analyses for samples received by the laboratory on August 23, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 8/30/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0636

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapman Valve Pinevale St., Springfield, MA

FIELD SAMPLE #	LAB ID.	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-16	10H0636-01	Soil		SM 2540G	
				SW-846 6010B	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only lead was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Spri
Sample Description:
Work Order: 10H0636

Date Received: 8/23/2010

Field Sample #: WS-16
Sampled: 7/6/2010 07:40

Sample ID: 10H0636-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.6	0.79	mg/Kg dry	1		SW-846 6010B	8/25/10	8/25/10 15:02	OP

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Spri
Sample Description:
Work Order: 10H0636

Date Received: 8/23/2010

Field Sample #: WS-16
Sampled: 7/6/2010 07.40

Sample ID: 10H0636-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.9		% Wt	1		SM 2540G	8/26/10	8/27/10 8:57	VAF

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10H0636-01 [WS-16]	B018338	08/26/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0636-01 [WS-16]	B018210	0.974	50.0	08/25/10

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018210 - SW-846 3050B										
Blank (B018210-BLK1)				Prepared & Analyzed: 08/25/10						
Lead	ND	0.75	mg/Kg wet							
LCS (B018210-BS1)				Prepared & Analyzed: 08/25/10						
Lead	93.6	1.5	mg/Kg wet	104		90.0	79.1-120.3			
LCS (B018210-BS2)				Prepared & Analyzed: 08/25/10						
Lead	0.861	0.77	mg/Kg wet	0.768		112	80-120			
LCS Dup (B018210-BSD1)				Prepared & Analyzed: 08/25/10						
Lead	97.3	1.4	mg/Kg wet	102		95.2	79.1-120.3	3.88	30	
Duplicate (B018210-DUP1)		Source: 10H0636-01		Prepared & Analyzed: 08/25/10						
Lead	2.82	0.79	mg/Kg dry		2.56			9.90	35	
Matrix Spike (B018210-MS1)		Source: 10H0636-01		Prepared & Analyzed: 08/25/10						
Lead	25.2	0.75	mg/Kg dry	25.1	2.56	90.2	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Lead	CT,NH,NY,AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

1060163

Page 1 of 1 of 18

Company Name: Weston & Sampson
Address:
Attention: George Naslas / Brian McCormack
Project Location: Chapman Valve Finevale St Springfield, MA
Sampled By: Laura Yellen

Telephone: 978 532-1900
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax # naslasge@weinc.com
Email: mccormackbe@weinc.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (office use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	# of Containers	** Preservation	*** Container Code	Total Lead
-01	WS-16	7/6/10	0740			S	4		A	X
-02	WS-17	↓	0742			↓	↓		↓	X
-03	WS-18		0748							X
-04	WS-19		0750							X
-05	WS-20		0755							
-06	WS-21		0758							
-07	WS-22		0800							
-08	WS-23	↓	0805			↓	↓			

Comments: * Please hold samples WS-20 through WS-23 [illegible] matrix spike on WS-16.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
[signature]	7/6/10 1335
Received by: (signature)	Date/Time:
[signature]	7/6 1335
Relinquished by: (signature)	Date/Time:
[signature]	7/6 1645
Received by: (signature)	Date/Time:
[signature]	7/6/10 1645

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THE SAMPLE

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10H0636
Project Location:	Chapman Valve Pinevale St., Springfield, MA	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10H0636-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: MA Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/30/10

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 8, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Chapman Valve Pinevale St., Springfield, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0165

Enclosed are results of analyses for samples received by the laboratory on July 6, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/8/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0165

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapman Valve Pinevale St., Springfield, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-24	10G0165-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8260B	
				SW-846 8270C	

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

For method 8260, CAM reporting limits were not met for some compounds because these levels were not supported by the lowest point of the calibration.

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260B

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, Isopropylbenzene (Cumene)

B015884-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B015884-BS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

10G0165-01[WS-24], B015884-BLK1, B015884-BS1, B015884-BSD1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene

B015884-BS1, B015884-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane, 2-Butanone (MEK), Acetone, Tetrahydrofuran

10G0165-01[WS-24], B015884-BLK1, B015884-BS1, B015884-BSD1

SW-846 8270C

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate

B015857-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2-Methylphenol

10G0165-01[WS-24], B015857-BLK1, B015857-BS1, B015857-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

SW-846 8260B

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, tert-butyl alcohol, acetone, 1,4-dioxane, vinyl chloride, chloromethane, dichlorodifluoromethane, 2-hexanone, naphthalene, methylene chloride, and tert-butylbenzene, bromomethane.

Duplicate laboratory fortified blank RPDs were all within control limits specified by the method except for "difficult analytes" where RPDs of 50% are used and/or unless otherwise listed in this narrative. Difficult analyte: 1,4-dioxane

SW-846 8270C

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes for soil LCS - limits between 10 and 180% depending on the compound(see QC summary report for limits): 3,3'-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for "difficult analytes" where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative. Difficult analytes for soil RPDs: 3,3'-dichlorobenzidine, 4-nitrophenol, and aniline.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.040	mg/Kg dry	1	V-16	SW-846 8260B	7/7/10	7/7/10 8:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Benzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Bromobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Bromochloromethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Bromodichloromethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Bromomethane	ND	0.0040	mg/Kg dry	1	R-05	SW-846 8260B	7/7/10	7/7/10 8:14	MFF
2-Butanone (MEK)	ND	0.016	mg/Kg dry	1	V-16	SW-846 8260B	7/7/10	7/7/10 8:14	MFF
n-Butylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
sec-Butylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
tert-Butylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Carbon Disulfide	ND	0.0024	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Carbon Tetrachloride	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Chlorobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Chlorodibromomethane	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Chloroform	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Chloromethane	ND	0.0040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
2-Chlorotoluene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
4-Chlorotoluene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Dibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2-Dichlorobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,3-Dichlorobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,4-Dichlorobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1-Dichloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2-Dichloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
cis-1,2-Dichloroethylene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
trans-1,2-Dichloroethylene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,3-Dichloropropane	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
cis-1,3-Dichloropropene	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
trans-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Diisopropyl Ether (DIPE)	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,4-Dioxane	ND	0.040	mg/Kg dry	1	V-16	SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Ethylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St.,
Sample Description:
Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24
Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
2-Hexanone (MBK)	ND	0.0081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Isopropylbenzene (Cumene)	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Naphthalene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
n-Propylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Styrene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Tetrachloroethylene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Tetrahydrofuran	ND	0.0040	mg/Kg dry	1	V-16	SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Toluene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2,3-Trichlorobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2,4-Trichlorobenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1,1-Trichloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,1,2-Trichloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Trichloroethylene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2,3-Trichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,2,4-Trimethylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
1,3,5-Trimethylbenzene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
Vinyl Chloride	ND	0.0040	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
m+p Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF
o-Xylene	ND	0.00081	mg/Kg dry	1		SW-846 8260B	7/7/10	7/7/10 8:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	91.9	70-130		7/7/10 8:14
Toluene-d8	98.9	70-130		7/7/10 8:14
4-Bromofluorobenzene	96.6	70-130		7/7/10 8:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Benzo(a)anthracene	0.31	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Benzo(a)pyrene	0.28	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Benzo(b)fluoranthene	0.31	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Benzo(g,h,i)perylene	0.22	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Butylbenzylphthalate	ND	0.69	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
4-Chloroaniline	ND	0.69	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Chrysene	0.29	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Dimethylphthalate	ND	0.69	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Di-n-octylphthalate	ND	0.69	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Fluoranthene	0.65	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Indeno(1,2,3-cd)pyrene	0.23	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2-Methylnaphthalene	0.20	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-Z4 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1	R-05	SW-846 8270C	7/7/10	7/8/10 11:10	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Naphthalene	0.39	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Phenanthrene	0.21	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
Pyrene	0.61	0.18	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270C	7/7/10	7/8/10 11:10	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	67.0	30-130		7/8/10 11:10
Phenol-d6	69.3	30-130		7/8/10 11:10
Nitrobenzene-d5	64.7	30-130		7/8/10 11:10
2-Fluorobiphenyl	70.2	30-130		7/8/10 11:10
2,4,6-Tribromophenol	66.7	30-130		7/8/10 11:10
Terphenyl-d14	74.9	30-130		7/8/10 11:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	1		SW-846 8082	7/7/10	7/8/10 13:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	74.4	30-150		7/8/10 13:15
Decachlorobiphenyl [2]	89.8	30-150		7/8/10 13:15
Tetrachloro-m-xylene [1]	78.1	30-150		7/8/10 13:15
Tetrachloro-m-xylene [2]	66.7	30-150		7/8/10 13:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH as Diesel	30	8.7	mg/Kg dry	1		SW-846 8100 Modified	7/7/10	7/8/10 10:39	CJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St.. Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Unadjusted C11-C22 Aromatics	14	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Benzo(a)anthracene	0.44	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Benzo(a)pyrene	0.42	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Benzo(b)fluoranthene	0.54	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Benzo(g,h,i)perylene	0.32	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Benzo(k)fluoranthene	0.19	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Chrysene	0.40	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Fluoranthene	0.87	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Indeno(1,2,3-cd)pyrene	0.28	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Phenanthrene	0.27	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM
Pyrene	0.90	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/7/10	7/8/10 14:03	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.0	40-140		7/8/10 14:03
o-Terphenyl (OTP)	66.2	40-140		7/8/10 14:03
2-Bromonaphthalene	92.1	40-140		7/8/10 14:03
2-Fluorobiphenyl	90.8	40-140		7/8/10 14:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St.,
Sample Description:
Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24
Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP
Barium	18	2.6	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP
Chromium	6.2	0.52	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP
Lead	140	0.78	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP
Mercury	0.047	0.011	mg/Kg dry	1		SW-846 7471A	7/7/10	7/7/10 15:06	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/7/10	7/7/10 18:41	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Sample Description: Work Order: 10G0165

Date Received: 7/6/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10G0165-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	7/7/10	7/8/10 8:52	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015856	20.3	2.00	07/07/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0165-01 [WS-24]	B015858	07/07/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015848	1.02	50.0	07/07/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015849	0.231	25.0	07/07/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015854	10.1	50.0	07/07/10

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015855	30.3	1.00	07/07/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015884	13.1	10.0	07/07/10

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0165-01 [WS-24]	B015857	30.3	1.00	07/07/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015884 - SW-846 5035										
Blank (B015884-BLK1)				Prepared & Analyzed: 07/07/10						
Acetone	ND	0.10	mg/Kg wet							V-16
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0040	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0040	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0020	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B015884 - SW-846 5035												
Blank (B015884-BLK1)				Prepared & Analyzed: 07/07/10								
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Tetrahydrofuran	ND	0.010	mg/Kg wet								V-16	
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0467*		mg/Kg wet	0.0500		93.3		70-130				
Surrogate: Toluene-d8	*0.0482*		mg/Kg wet	0.0500		96.4		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0485*		mg/Kg wet	0.0500		97.1		70-130				
LCS (B015884-BS1)				Prepared & Analyzed: 07/07/10								
Acetone	0.298	0.10	mg/Kg wet	0.200		149		70-160			V-16	†
tert-Amyl Methyl Ether (TAME)	0.0239	0.0010	mg/Kg wet	0.0200		120		70-130				
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130				
Bromobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8		70-130				
Bromochloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Bromodichloromethane	0.0185	0.0020	mg/Kg wet	0.0200		92.3		70-130				
Bromoform	0.0174	0.0040	mg/Kg wet	0.0200		86.8		70-130				
Bromomethane	0.00748	0.010	mg/Kg wet	0.0200		37.4	*	40-130			L-07A, R-05	†
2-Butanone (MEK)	0.246	0.040	mg/Kg wet	0.200		123		70-160			V-16	†
n-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130				
sec-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
tert-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0243	0.0010	mg/Kg wet	0.0200		122		70-130				
Carbon Disulfide	0.0242	0.0060	mg/Kg wet	0.0200		121		70-130				
Carbon Tetrachloride	0.0179	0.0020	mg/Kg wet	0.0200		89.7		70-130				
Chlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130				
Chlorodibromomethane	0.0186	0.0010	mg/Kg wet	0.0200		92.9		70-130				
Chloroethane	0.0220	0.020	mg/Kg wet	0.0200		110		70-130				
Chloroform	0.0192	0.0040	mg/Kg wet	0.0200		96.0		70-130				
Chloromethane	0.0168	0.010	mg/Kg wet	0.0200		84.2		70-130				
2-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
4-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130				
1,2-Dibromoethane (EDB)	0.0182	0.0010	mg/Kg wet	0.0200		91.1		70-130				
Dibromomethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3		70-130				
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4		70-130				
1,3-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3		70-130				
1,4-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B015884 - SW-846 5035											
LCS (B015884-BS1)				Prepared & Analyzed: 07/07/10							
Dichlorodifluoromethane (Freon 12)	0.0214	0.020	mg/Kg wet	0.0200		107	40-160				†
1,1-Dichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130				
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130				
1,1-Dichloroethylene	0.0198	0.0040	mg/Kg wet	0.0200		99.0	70-130				
cis-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130				
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130				
1,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130				
1,3-Dichloropropane	0.0190	0.0010	mg/Kg wet	0.0200		95.0	70-130				
2,2-Dichloropropane	0.0181	0.0040	mg/Kg wet	0.0200		90.5	70-130				
1,1-Dichloropropene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130				
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		98.8	70-130				
trans-1,3-Dichloropropene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130				
Diethyl Ether	0.0223	0.020	mg/Kg wet	0.0200		112	70-130				
Diisopropyl Ether (DIPE)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130				
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		97.8	40-160			V-16	†
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130				
Hexachlorobutadiene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-160				
2-Hexanone (MBK)	0.233	0.020	mg/Kg wet	0.200		117	70-160				†
Isopropylbenzene (Cumene)	0.0249	0.0020	mg/Kg wet	0.0200		125	70-130				
p-Isopropyltoluene (p-Cymene)	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0223	0.0040	mg/Kg wet	0.0200		112	70-130				
Methylene Chloride	0.0195	0.020	mg/Kg wet	0.0200		97.3	40-160				†
4-Methyl-2-pentanone (MIBK)	0.209	0.020	mg/Kg wet	0.200		104	70-160				†
Naphthalene	0.0185	0.0040	mg/Kg wet	0.0200		92.4	40-130				†
n-Propylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
Styrene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				
1,1,1,2-Tetrachloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130				
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130				
Tetrachloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130				
Tetrahydrofuran	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			V-16	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
1,2,3-Trichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			V-06	
1,2,4-Trichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			V-06	
1,1,1-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130				
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130				
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130				
Trichlorofluoromethane (Freon 11)	0.0213	0.010	mg/Kg wet	0.0200		106	70-130				
1,2,3-Trichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130				
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				
Vinyl Chloride	0.0194	0.010	mg/Kg wet	0.0200		97.1	40-130				†
m+p Xylene	0.0425	0.0040	mg/Kg wet	0.0400		106	70-130				
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0475*		mg/Kg wet	0.0500		95.0	70-130				
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.0500		99.3	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.0500		100	70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B015884 - SW-846 5035											
LCS Dup (B015884-BSD1)				Prepared & Analyzed: 07/07/10							
Acetone	0.301	0.10	mg/Kg wet	0.200		151	70-160	1.22	25	V-16	†
tert-Amyl Methyl Ether (TAME)	0.0246	0.0010	mg/Kg wet	0.0200		123	70-130	2.64	25		
Benzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	4.38	25		
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.95	25		
Bromochloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.25	25		
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	3.30	25		
Bromoform	0.0179	0.0040	mg/Kg wet	0.0200		89.4	70-130	2.95	25		
Bromomethane	0.00978	0.010	mg/Kg wet	0.0200		48.9	40-130	26.7 *	25	R-05	†
2-Butanone (MEK)	0.245	0.040	mg/Kg wet	0.200		122	70-160	0.440	25	V-16	†
n-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.56	25		
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	3.28	25		
tert-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-160	5.38	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0251	0.0010	mg/Kg wet	0.0200		126	70-130	3.40	25		
Carbon Disulfide	0.0248	0.0060	mg/Kg wet	0.0200		124	70-130	2.61	25		
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130	3.83	25		
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.08	25		
Chlorodibromomethane	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130	1.92	25		
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		111	70-130	0.725	25		
Chloroform	0.0195	0.0040	mg/Kg wet	0.0200		97.7	70-130	1.76	25		
Chloromethane	0.0180	0.010	mg/Kg wet	0.0200		90.0	70-130	6.66	25		
2-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	5.81	25		
4-Chlorotoluene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	6.09	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	3.34	25		
1,2-Dibromoethane (EDB)	0.0189	0.0010	mg/Kg wet	0.0200		94.4	70-130	3.56	25		
Dibromomethane	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	4.71	25		
1,2-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.87	25		
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	3.10	25		
1,4-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	3.15	25		
Dichlorodifluoromethane (Freon 12)	0.0225	0.020	mg/Kg wet	0.0200		112	40-160	4.65	25		†
1,1-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	1.09	25		
1,2-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	3.81	25		
1,1-Dichloroethylene	0.0209	0.0040	mg/Kg wet	0.0200		104	70-130	5.41	25		
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.70	25		
trans-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	3.68	25		
1,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	7.06	25		
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		98.8	70-130	3.92	25		
2,2-Dichloropropane	0.0185	0.0040	mg/Kg wet	0.0200		92.5	70-130	2.19	25		
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.82	25		
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130	0.202	25		
trans-1,3-Dichloropropene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	2.75	25		
Diethyl Ether	0.0231	0.020	mg/Kg wet	0.0200		116	70-130	3.61	25		
Diisopropyl Ether (DIPE)	0.0231	0.0010	mg/Kg wet	0.0200		116	70-130	2.01	25		
1,4-Dioxane	0.214	0.10	mg/Kg wet	0.200		107	40-160	8.99	50	V-16	† ‡
Ethylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	1.89	25		
Hexachlorobutadiene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-160	2.35	25		
2-Hexanone (MBK)	0.235	0.020	mg/Kg wet	0.200		117	70-160	0.735	25		†
Isopropylbenzene (Cumene)	0.0262	0.0020	mg/Kg wet	0.0200		**131** *	70-130	5.00	25	L-07	
p-Isopropyltoluene (p-Cymene)	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	4.64	25		
Methyl tert-Butyl Ether (MTBE)	0.0228	0.0040	mg/Kg wet	0.0200		114	70-130	2.04	25		
Methylene Chloride	0.0200	0.020	mg/Kg wet	0.0200		100	40-160	2.94	25		†
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160	0.0959	25		†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.3	40-130	3.09	25		†

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B015884 - SW-846 5035												
LCS Dup (B015884-BSD1)				Prepared & Analyzed: 07/07/10								
n-Propylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130	6.47	25		
Styrene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	4.06	25		
1,1,1,2-Tetrachloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130	1.56	25		
1,1,2,2-Tetrachloroethane	0.0207	0.0010	mg/Kg wet	0.0200		104		70-130	0.873	25		
Tetrachloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	6.35	25		
Tetrahydrofuran	0.0227	0.010	mg/Kg wet	0.0200		113		70-130	1.96	25	V-16	
Toluene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	3.95	25		
1,2,3-Trichlorobenzene	0.0294	0.0020	mg/Kg wet	0.0200		147	*	70-130	24.4	25	L-07, V-06	
1,2,4-Trichlorobenzene	0.0239	0.0020	mg/Kg wet	0.0200		120		70-130	5.15	25	V-06	
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	3.40	25		
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	3.79	25		
Trichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	5.44	25		
Trichlorofluoromethane (Freon 11)	0.0220	0.010	mg/Kg wet	0.0200		110		70-130	3.32	25		
1,2,3-Trichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.1		70-130	4.21	25		
1,2,4-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130	5.00	25		
1,3,5-Trimethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	4.61	25		
Vinyl Chloride	0.0211	0.010	mg/Kg wet	0.0200		105		40-130	8.20	25		†
m+p Xylene	0.0445	0.0040	mg/Kg wet	0.0400		111		70-130	4.64	25		
o-Xylene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	4.12	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0449*		mg/Kg wet	0.0500		89.8		70-130				
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.0500		100		70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015857 - SW-846 3546										
Blank (B015857-BLK1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							R-05
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015857 - SW-846 3546										
Blank (B015857-BLK1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*6.68*		mg/Kg wet	6.67		100	30-130			
Surrogate: Phenol-d6	*6.75*		mg/Kg wet	6.67		101	30-130			
Surrogate: Nitrobenzene-d5	*3.14*		mg/Kg wet	3.33		94.1	30-130			
Surrogate: 2-Fluorobiphenyl	*3.19*		mg/Kg wet	3.33		95.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.74*		mg/Kg wet	6.67		86.0	30-130			
Surrogate: Terphenyl-d14	*2.86*		mg/Kg wet	3.33		85.8	30-130			
LCS (B015857-BS1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Acenaphthylene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Acetophenone	0.697	0.34	mg/Kg wet	0.833		83.6	40-140			
Aniline	1.19	0.34	mg/Kg wet	1.67		71.1	10-140			†
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Benzo(a)pyrene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140			
Benzo(b)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(g,h,i)perylene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Bis(2-chloroethoxy)methane	1.41	0.34	mg/Kg wet	1.67		84.7	40-140			
Bis(2-chloroethyl)ether	1.51	0.34	mg/Kg wet	1.67		90.3	40-140			
Bis(2-chloroisopropyl)ether	1.14	0.34	mg/Kg wet	1.67		68.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.74	0.34	mg/Kg wet	1.67		104	40-140			
4-Bromophenylphenylether	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
Butylbenzylphthalate	1.66	0.66	mg/Kg wet	1.67		99.7	40-140			
4-Chloroaniline	1.30	0.66	mg/Kg wet	1.67		77.9	10-140			†
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		75.2	40-140			
2-Chlorophenol	1.40	0.34	mg/Kg wet	1.67		83.9	30-130			
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Dibenz(a,h)anthracene	0.997	0.17	mg/Kg wet	1.67		59.8	40-140			
Dibenzofuran	1.39	0.34	mg/Kg wet	1.67		83.1	40-140			
Di-n-butylphthalate	1.63	0.34	mg/Kg wet	1.67		97.6	40-140			
1,2-Dichlorobenzene	1.25	0.34	mg/Kg wet	1.67		75.3	40-140			
1,3-Dichlorobenzene	1.18	0.34	mg/Kg wet	1.67		71.1	40-140			
1,4-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.3	40-140			
3,3-Dichlorobenzidine	1.41	0.17	mg/Kg wet	1.67		84.8	20-140			†
2,4-Dichlorophenol	1.44	0.34	mg/Kg wet	1.67		86.3	30-130			
Diethylphthalate	1.38	0.34	mg/Kg wet	1.67		82.8	40-140			
2,4-Dimethylphenol	1.40	0.34	mg/Kg wet	1.67		84.0	30-130			
Dimethylphthalate	1.43	0.66	mg/Kg wet	1.67		85.6	40-140			
2,4-Dinitrophenol	1.57	0.66	mg/Kg wet	1.67		93.9	30-130			
2,4-Dinitrotoluene	1.52	0.34	mg/Kg wet	1.67		91.2	40-140			
2,6-Dinitrotoluene	1.57	0.34	mg/Kg wet	1.67		94.3	40-140			
Di-n-octylphthalate	2.00	0.66	mg/Kg wet	1.67		120	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.56	0.34	mg/Kg wet	1.67		93.6	40-140			
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015857 - SW-846 3546										
LCS (B015857-BS1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140			
Hexachloroethane	1.28	0.34	mg/Kg wet	1.67		76.6	40-140			
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Isophorone	1.36	0.34	mg/Kg wet	1.67		81.9	40-140			
2-Methylnaphthalene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140			
2-Methylphenol	1.27	0.34	mg/Kg wet	1.67		76.2	30-130			R-05
3/4-Methylphenol	1.48	0.34	mg/Kg wet	1.67		88.7	30-130			
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.2	40-140			
2-Nitrophenol	1.36	0.34	mg/Kg wet	1.67		81.7	30-130			
4-Nitrophenol	1.56	0.66	mg/Kg wet	1.67		93.5	30-130			
Pentachlorophenol	0.963	0.34	mg/Kg wet	1.67		57.8	30-130			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Phenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130			
Pyrene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
1,2,4-Trichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.8	40-140			
2,4,5-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		77.7	30-130			
2,4,6-Trichlorophenol	1.50	0.34	mg/Kg wet	1.67		89.7	30-130			
Surrogate: 2-Fluorophenol	*5.26*		mg/Kg wet	6.67		78.9	30-130			
Surrogate: Phenol-d6	*5.60*		mg/Kg wet	6.67		84.0	30-130			
Surrogate: Nitrobenzene-d5	*2.89*		mg/Kg wet	3.33		86.6	30-130			
Surrogate: 2-Fluorobiphenyl	*3.02*		mg/Kg wet	3.33		90.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.83*		mg/Kg wet	6.67		87.5	30-130			
Surrogate: Terphenyl-d14	*3.19*		mg/Kg wet	3.33		95.6	30-130			
LCS Dup (B015857-BSD1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	14.1	30	
Acenaphthylene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	12.7	30	
Acetophenone	0.838	0.34	mg/Kg wet	0.833		101	40-140	18.4	30	
Aniline	1.44	0.34	mg/Kg wet	1.67		86.1	10-140	19.1	50	† ‡
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	14.5	30	
Benzo(a)anthracene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	14.6	30	
Benzo(a)pyrene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	13.5	30	
Benzo(b)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	15.3	30	
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	13.7	30	
Benzo(k)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	16.5	30	
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		97.7	40-140	14.2	30	
Bis(2-chloroethyl)ether	1.64	0.34	mg/Kg wet	1.67		98.1	40-140	8.30	30	
Bis(2-chloroisopropyl)ether	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	19.1	30	
Bis(2-Ethylhexyl)phthalate	2.03	0.34	mg/Kg wet	1.67		122	40-140	15.5	30	
4-Bromophenylphenylether	1.63	0.34	mg/Kg wet	1.67		97.9	40-140	13.0	30	
Butylbenzylphthalate	1.91	0.66	mg/Kg wet	1.67		114	40-140	13.7	30	
4-Chloroaniline	1.51	0.66	mg/Kg wet	1.67		90.6	10-140	15.1	30	†
2-Chloronaphthalene	1.45	0.34	mg/Kg wet	1.67		86.8	40-140	14.3	30	
2-Chlorophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	18.7	30	
Chrysene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	13.1	30	
Dibenz(a,h)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	11.4	30	
Dibenzofuran	1.59	0.34	mg/Kg wet	1.67		95.5	40-140	13.8	30	
Di-n-butylphthalate	1.84	0.34	mg/Kg wet	1.67		111	40-140	12.6	30	
1,2-Dichlorobenzene	1.49	0.34	mg/Kg wet	1.67		89.5	40-140	17.3	30	
1,3-Dichlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.4	40-140	17.1	30	
1,4-Dichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.7	40-140	17.4	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B015857 - SW-846 3546													
LCS Dup (B015857-BSD1)				Prepared: 07/07/10 Analyzed: 07/08/10									
3,3-Dichlorobenzidine	1.68	0.17	mg/Kg wet	1.67		101		20-140	17.2		50		† ‡
2,4-Dichlorophenol	1.69	0.34	mg/Kg wet	1.67		102		30-130	16.4		30		
Diethylphthalate	1.56	0.34	mg/Kg wet	1.67		93.9		40-140	12.5		30		
2,4-Dimethylphenol	1.67	0.34	mg/Kg wet	1.67		99.9		30-130	17.3		30		
Dimethylphthalate	1.61	0.66	mg/Kg wet	1.67		96.4		40-140	11.9		30		
2,4-Dinitrophenol	1.98	0.66	mg/Kg wet	1.67		119		30-130	23.3		30		
2,4-Dinitrotoluene	1.76	0.34	mg/Kg wet	1.67		106		40-140	14.7		30		
2,6-Dinitrotoluene	1.79	0.34	mg/Kg wet	1.67		108		40-140	13.1		30		
Di-n-octylphthalate	2.37	0.66	mg/Kg wet	1.67		**142**	*	40-140	16.8		30	L-07	
1,2-Diphenylhydrazine (as Azobenzene)	1.80	0.34	mg/Kg wet	1.67		108		40-140	14.1		30		
Fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.2		40-140	15.0		30		
Fluorene	1.21	0.17	mg/Kg wet	1.67		72.6		40-140	13.3		30		
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		95.9		40-140	13.9		30		
Hexachlorobutadiene	1.52	0.34	mg/Kg wet	1.67		91.1		40-140	14.2		30		
Hexachloroethane	1.51	0.34	mg/Kg wet	1.67		90.7		40-140	16.8		30		
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		72.1		40-140	12.6		30		
Isophorone	1.60	0.34	mg/Kg wet	1.67		96.0		40-140	15.9		30		
2-Methylnaphthalene	1.54	0.17	mg/Kg wet	1.67		92.6		40-140	13.1		30		
2-Methylphenol	1.77	0.34	mg/Kg wet	1.67		106		30-130	**33.0**	*	30	R-05	
3/4-Methylphenol	1.73	0.34	mg/Kg wet	1.67		104		30-130	15.9		30		
Naphthalene	1.27	0.17	mg/Kg wet	1.67		76.2		40-140	12.2		30		
Nitrobenzene	1.48	0.34	mg/Kg wet	1.67		88.7		40-140	15.1		30		
2-Nitrophenol	1.75	0.34	mg/Kg wet	1.67		105		30-130	24.9		30		
4-Nitrophenol	1.82	0.66	mg/Kg wet	1.67		109		30-130	15.5		50		‡
Pentachlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5		30-130	17.0		30		
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.2		40-140	15.3		30		
Phenol	1.83	0.34	mg/Kg wet	1.67		110		30-130	21.2		30		
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.0		40-140	0.406		30		
1,2,4-Trichlorobenzene	1.51	0.34	mg/Kg wet	1.67		90.5		40-140	13.8		30		
2,4,5-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7		30-130	16.5		30		
2,4,6-Trichlorophenol	1.73	0.34	mg/Kg wet	1.67		104		30-130	14.5		30		
Surrogate: 2-Fluorophenol	*6.01*		mg/Kg wet	6.67		90.2		30-130					
Surrogate: Phenol-d6	*6.36*		mg/Kg wet	6.67		95.4		30-130					
Surrogate: Nitrobenzene-d5	*3.23*		mg/Kg wet	3.33		96.8		30-130					
Surrogate: 2-Fluorobiphenyl	*3.30*		mg/Kg wet	3.33		99.1		30-130					
Surrogate: 2,4,6-Tribromophenol	*6.38*		mg/Kg wet	6.67		95.7		30-130					
Surrogate: Terphenyl-d14	*3.12*		mg/Kg wet	3.33		93.6		30-130					

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015854 - SW-846 3546										
Blank (B015854-BLK1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.242*		mg/Kg wet	0.200		121	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
LCS (B015854-BS1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Aroclor-1016	0.15	0.10	mg/Kg wet	0.200		76.5	40-140			
Aroclor-1016 [2C]	0.15	0.10	mg/Kg wet	0.200		76.9	40-140			
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		85.0	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		95.8	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.250*		mg/Kg wet	0.200		125	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.0	30-150			
LCS Dup (B015854-BSD1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Aroclor-1016	0.16	0.10	mg/Kg wet	0.200		78.6	40-140	2.69	30	
Aroclor-1016 [2C]	0.16	0.10	mg/Kg wet	0.200		80.2	40-140	4.18	30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		88.4	40-140	3.92	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		100	40-140	4.27	30	
Surrogate: Decachlorobiphenyl	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.242*		mg/Kg wet	0.200		121	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015855 - SW-846 3546										
Blank (B015855-BLK1)				Prepared & Analyzed: 07/07/10						
TPH as Diesel	ND	8.3	mg/Kg wet							
LCS (B015855-BS1)				Prepared & Analyzed: 07/07/10						
TPH as Diesel	30.0	8.3	mg/Kg wet	33.3		90.1	40-140			
LCS Dup (B015855-BSD1)				Prepared & Analyzed: 07/07/10						
TPH as Diesel	27.5	8.3	mg/Kg wet	33.3		82.5	40-140	8.78	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015856 - SW-846 3546										
Blank (B015856-BLK1)				Prepared: 07/07/10 Analyzed: 07/08/10						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.22*		mg/Kg wet	5.00		84.3	40-140			
Surrogate: o-Terphenyl (OTP)	*4.44*		mg/Kg wet	5.00		88.7	40-140			
Surrogate: 2-Bromonaphthalene	*4.90*		mg/Kg wet	5.00		98.0	40-140			
Surrogate: 2-Fluorobiphenyl	*4.75*		mg/Kg wet	5.00		94.9	40-140			
LCS (B015856-BS1)				Prepared: 07/07/10 Analyzed: 07/08/10						
C9-C18 Aliphatics	24.1	10	mg/Kg wet	30.0		80.4	40-140			
C19-C36 Aliphatics	42.6	10	mg/Kg wet	40.0		107	40-140			
Unadjusted C11-C22 Aromatics	79.2	10	mg/Kg wet	85.0		93.2	40-140			
Acenaphthene	4.27	0.10	mg/Kg wet	5.00		85.4	40-140			
Acenaphthylene	4.32	0.10	mg/Kg wet	5.00		86.5	40-140			
Anthracene	4.61	0.10	mg/Kg wet	5.00		92.2	40-140			
Benzo(a)anthracene	4.77	0.10	mg/Kg wet	5.00		95.5	40-140			
Benzo(a)pyrene	4.39	0.10	mg/Kg wet	5.00		87.8	40-140			
Benzo(b)fluoranthene	4.63	0.10	mg/Kg wet	5.00		92.6	40-140			
Benzo(g,h,i)perylene	4.45	0.10	mg/Kg wet	5.00		89.0	40-140			
Benzo(k)fluoranthene	4.57	0.10	mg/Kg wet	5.00		91.3	40-140			
Chrysene	4.53	0.10	mg/Kg wet	5.00		90.5	40-140			
Dibenz(a,h)anthracene	4.43	0.10	mg/Kg wet	5.00		88.6	40-140			
Fluoranthene	4.55	0.10	mg/Kg wet	5.00		91.0	40-140			
Fluorene	4.43	0.10	mg/Kg wet	5.00		88.6	40-140			
Indeno(1,2,3-cd)pyrene	4.38	0.10	mg/Kg wet	5.00		87.6	40-140			
2-Methylnaphthalene	4.21	0.10	mg/Kg wet	5.00		84.3	40-140			
Naphthalene	3.92	0.10	mg/Kg wet	5.00		78.5	40-140			
Phenanthrene	4.55	0.10	mg/Kg wet	5.00		91.0	40-140			
Pyrene	4.71	0.10	mg/Kg wet	5.00		94.2	40-140			
n-Nonane	1.89	0.10	mg/Kg wet	5.00		37.9	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.94*		mg/Kg wet	5.00		78.7	40-140			
Surrogate: o-Terphenyl (OTP)	*4.37*		mg/Kg wet	5.00		87.5	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015856 - SW-846 3546										
LCS (B015856-BS1)				Prepared: 07/07/10 Analyzed: 07/08/10						
Surrogate: 2-Bromonaphthalene	*4.83*		mg/Kg wet	5.00		96.5	40-140			
Surrogate: 2-Fluorobiphenyl	*4.71*		mg/Kg wet	5.00		94.2	40-140			
LCS Dup (B015856-BSD1)				Prepared: 07/07/10 Analyzed: 07/08/10						
C9-C18 Aliphatics	24.8	10	mg/Kg wet	30.0		82.7	40-140	2.87	25	
C19-C36 Aliphatics	44.7	10	mg/Kg wet	40.0		112	40-140	4.70	25	
Unadjusted C11-C22 Aromatics	83.0	10	mg/Kg wet	85.0		97.6	40-140	4.63	25	
Acenaphthene	4.37	0.10	mg/Kg wet	5.00		87.3	40-140	2.23	25	
Acenaphthylene	4.40	0.10	mg/Kg wet	5.00		88.1	40-140	1.86	25	
Anthracene	4.81	0.10	mg/Kg wet	5.00		96.2	40-140	4.24	25	
Benzo(a)anthracene	5.10	0.10	mg/Kg wet	5.00		102	40-140	6.51	25	
Benzo(a)pyrene	4.71	0.10	mg/Kg wet	5.00		94.1	40-140	6.92	25	
Benzo(b)fluoranthene	4.96	0.10	mg/Kg wet	5.00		99.1	40-140	6.81	25	
Benzo(g,h,i)perylene	4.75	0.10	mg/Kg wet	5.00		95.1	40-140	6.64	25	
Benzo(k)fluoranthene	4.89	0.10	mg/Kg wet	5.00		97.7	40-140	6.80	25	
Chrysene	4.83	0.10	mg/Kg wet	5.00		96.6	40-140	6.45	25	
Dibenz(a,h)anthracene	4.75	0.10	mg/Kg wet	5.00		95.0	40-140	6.88	25	
Fluoranthene	4.82	0.10	mg/Kg wet	5.00		96.4	40-140	5.70	25	
Fluorene	4.56	0.10	mg/Kg wet	5.00		91.2	40-140	2.92	25	
Indeno(1,2,3-cd)pyrene	4.70	0.10	mg/Kg wet	5.00		93.9	40-140	7.01	25	
2-Methylnaphthalene	4.24	0.10	mg/Kg wet	5.00		84.8	40-140	0.617	25	
Naphthalene	3.91	0.10	mg/Kg wet	5.00		78.1	40-140	0.437	25	
Phenanthrene	4.74	0.10	mg/Kg wet	5.00		94.7	40-140	3.97	25	
Pyrene	4.99	0.10	mg/Kg wet	5.00		99.9	40-140	5.86	25	
n-Nonane	1.80	0.10	mg/Kg wet	5.00		36.1	30-140	4.93	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.17*		mg/Kg wet	5.00		83.3	40-140			
Surrogate: o-Terphenyl (OTP)	*4.56*		mg/Kg wet	5.00		91.2	40-140			
Surrogate: 2-Bromonaphthalene	*4.88*		mg/Kg wet	5.00		97.6	40-140			
Surrogate: 2-Fluorobiphenyl	*4.77*		mg/Kg wet	5.00		95.4	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B015848 - SW-846 3050B										
Blank (B015848-BLK1)				Prepared & Analyzed: 07/07/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B015848-BS1)				Prepared & Analyzed: 07/07/10						
Arsenic	106	4.9	mg/Kg wet	106		99.8	81.6-118.4			
Barium	333	4.9	mg/Kg wet	328		101	80.7-119.3			
Cadmium	241	0.49	mg/Kg wet	242		99.7	82.4-117.6			
Chromium	81.8	0.99	mg/Kg wet	79.8		103	78.8-120.7			
Lead	101	1.5	mg/Kg wet	106		95.3	79.1-120.3			
Selenium	173	9.9	mg/Kg wet	175		98.5	78.4-120.9			
Silver	44.6	0.99	mg/Kg wet	45.7		97.6	66.2-133.6			
LCS (B015848-BS2)				Prepared & Analyzed: 07/07/10						
Lead	0.881	0.75	mg/Kg wet	0.750		117	79.1-120.3			
LCS Dup (B015848-BSD1)				Prepared & Analyzed: 07/07/10						
Arsenic	104	5.0	mg/Kg wet	107		97.2	81.6-118.4	1.26	30	
Barium	327	5.0	mg/Kg wet	332		98.4	80.7-119.3	1.64	30	
Cadmium	239	0.50	mg/Kg wet	245		97.6	82.4-117.6	0.721	30	
Chromium	82.5	1.0	mg/Kg wet	80.9		102	78.8-120.7	0.851	30	
Lead	101	1.5	mg/Kg wet	107		93.8	79.1-120.3	0.129	30	
Selenium	167	10	mg/Kg wet	178		94.1	78.4-120.9	3.14	30	
Silver	44.2	1.0	mg/Kg wet	46.4		95.4	66.2-133.6	0.904	30	
Batch B015849 - SW-846 7471A										
Blank (B015849-BLK1)				Prepared & Analyzed: 07/07/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B015849-BS1)				Prepared & Analyzed: 07/07/10						
Mercury	0.756	0.025	mg/Kg wet	0.950		79.5	66-132			
LCS Dup (B015849-BSD1)				Prepared & Analyzed: 07/07/10						
Mercury	0.839	0.025	mg/Kg wet	0.949		88.4	66-132	10.4	30	

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 8082 in Soil	
Aroclor-1016	CT,NH,NY
Aroclor-1016 [2C]	CT,NH,NY
Aroclor-1221	CT,NH,NY
Aroclor-1221 [2C]	CT,NH,NY
Aroclor-1232	CT,NH,NY
Aroclor-1232 [2C]	CT,NH,NY
Aroclor-1242	CT,NH,NY
Aroclor-1242 [2C]	CT,NH,NY
Aroclor-1248	CT,NH,NY
Aroclor-1248 [2C]	CT,NH,NY
Aroclor-1254	CT,NH,NY
Aroclor-1254 [2C]	CT,NH,NY
Aroclor-1260	CT,NH,NY
Aroclor-1260 [2C]	CT,NH,NY

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Acetone	CT,NH,NY
Benzene	CT,NH,NY
Bromobenzene	NH,NY
Bromochloromethane	NH,NY
Bromodichloromethane	CT,NH,NY
Bromoform	CT,NH,NY
Bromomethane	CT,NH,NY
2-Butanone (MEK)	CT,NH,NY
n-Butylbenzene	CT,NH,NY
sec-Butylbenzene	CT,NH,NY
tert-Butylbenzene	CT,NH,NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY
Chlorobenzene	CT,NH,NY
Chlorodibromomethane	CT,NH,NY
Chloroethane	CT,NH,NY
Chloroform	CT,NH,NY
Chloromethane	CT,NH,NY
2-Chlorotoluene	CT,NH,NY
4-Chlorotoluene	CT,NH,NY
Dibromomethane	NH,NY
1,2-Dichlorobenzene	CT,NH,NY
1,3-Dichlorobenzene	CT,NH,NY
1,4-Dichlorobenzene	CT,NH,NY
Dichlorodifluoromethane (Freon 12)	NY
1,1-Dichloroethane	CT,NH,NY
1,2-Dichloroethane	CT,NH,NY
1,1-Dichloroethylene	CT,NH,NY
cis-1,2-Dichloroethylene	CT,NH,NY
trans-1,2-Dichloroethylene	CT,NH,NY
1,2-Dichloropropane	CT,NH,NY
1,3-Dichloropropane	NH,NY
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis-1,3-Dichloropropene	CT,NH,NY
trans-1,3-Dichloropropene	CT,NH,NY
Ethylbenzene	CT,NH,NY
Hexachlorobutadiene	NH,NY
2-Hexanone (MBK)	CT,NH,NY
Isopropylbenzene (Cumene)	CT,NH,NY
Methylene Chloride	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
Styrene	CT,NH,NY
1,1,1,2-Tetrachloroethane	CT,NH,NY
1,1,2,2-Tetrachloroethane	CT,NH,NY
Tetrachloroethylene	CT,NH,NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Toluene	CT,NH,NY
1,2,4-Trichlorobenzene	NH,NY
1,1,1-Trichloroethane	CT,NH,NY
1,1,2-Trichloroethane	CT,NH,NY
Trichloroethylene	CT,NH,NY
Trichlorofluoromethane (Freon 11)	CT,NH,NY
1,2,3-Trichloropropane	NH,NY
1,2,4-Trimethylbenzene	CT,NH,NY
1,3,5-Trimethylbenzene	CT,NH,NY
Vinyl Chloride	CT,NH,NY
m+p Xylene	CT,NH,NY
o-Xylene	CT,NH,NY
SW-846 8270C in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270C in Soil	
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

10G0165

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: Weston & Sampson
Address:
Attention: George Nastas / Brian McCormack
Project Location: Chapman Valve
Sampled By: Laura Yellen

Telephone: 978 532-1900
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email: mccormab@weston.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	RCRA 8 metals	VOC's	GPH w/ Naphthalene	PCBs by 8082	SVOC's	TPH 8100									
# of Containers								1	1	2												
** Preservation								H	V	V												
***Container Code								A	m	O												
-01	WS-24	7/6/10	1115			S	U	X	X	X	X	X	X									

Dissolved Metals*
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

DI VIALS / ENCORE FROZEN AT

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Laura Yellen	Date/Time: 7/6/10 1335	
Received by: (signature)	Date/Time: 7/6 1335	
Relinquished by: (signature)	Date/Time: 7/6 1645	
Received by: (signature) Terry Johnson	Date/Time: 7/6/10 1645	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THE SAMPLE

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Weston & Sampson RECEIVED BY: AKA DATE: 7.6.10

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	2	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 ml Vial - type listed below	3	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 1

Bisulfate _____ # DI Water 2

Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-06-10 17:15 IN

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0165
Project Location:	Chapman Valve Pinevale St., Springfield, MA	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0165-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 07/08/10

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 30, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Chapman Valve Pinevale St., Springfield, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10H0635

Enclosed are results of analyses for samples received by the laboratory on August 23, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 8/30/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0635

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapman Valve Pinevale St., Springfield, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-24	10H0635-01	Soil		SM 2540G	
				SW-846 6010B	
				SW-846 7471B	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

SW-846 6010B

Qualifications:

M-10 Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Lead

1010635-01[WS-24], B018048-MS3

Z-01 Result is serial dilution as required by MA CAM. Serial dilution is outside control limits, increased variability in reported results cannot be eliminated.

Analyte & Samples(s) Qualified:

Lead

B018048-DUP3

SW-846 7471B

Qualifications:

H-06 Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Mercury

1010635-01[WS-24]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Spri Sample Description: Work Order: 10H0635

Date Received: 8/23/2010

Field Sample #: WS-24 Sampled: 7/6/2010 11:15

Sample ID: 10H0635-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 21:00	OP
Barium	19	2.6	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 21:00	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 21:00	OP
Chromium	5.8	0.52	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 21:00	OP
Lead	110	0.78	mg/Kg dry	1	MS-19	SW-846 6010B	8/20/10	8/24/10 21:00	OP
Mercury	0.021	0.012	mg/Kg dry	1	H-10	SW-846 7471B	8/23/10	8/24/10 15:23	AMP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 21:00	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 21:00	OP

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapman Valve Pinevale St., Spri
Sample Description:
Work Order: 10H0635

Date Received: 8/23/2010

Field Sample #: WS-24
Sampled: 7/6/2010 11:15

Sample ID: 10H0635-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/26/10	8/27/10 8:57	VAF

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10H0635-01 [WS-24]	B018338	08/26/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0635-01 [WS-24]	B018048	1.02	50.0	08/20/10

Prep Method: SW-846 7471A-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0635-01 [WS-24]	B018203	0.228	25.0	08/23/10

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B018048 - SW-846 3050B												
Blank (B018048-BLK1)				Prepared: 08/20/10 Analyzed: 08/24/10								
Arsenic	ND	2.5	mg/Kg wet									
Barium	ND	2.5	mg/Kg wet									
Cadmium	ND	0.25	mg/Kg wet									
Chromium	ND	0.50	mg/Kg wet									
Lead	ND	0.75	mg/Kg wet									
Selenium	ND	5.0	mg/Kg wet									
Silver	ND	0.50	mg/Kg wet									
LCS (B018048-BS1)				Prepared: 08/20/10 Analyzed: 08/24/10								
Arsenic	100	5.3	mg/Kg wet	113		88.1		81.6-118.4				
Barium	314	5.3	mg/Kg wet	351		89.4		80.7-119.3				
Cadmium	230	0.53	mg/Kg wet	259		89.0		82.4-117.6				
Chromium	77.0	1.1	mg/Kg wet	85.5		90.1		78.8-120.7				
Lead	93.8	1.6	mg/Kg wet	113		82.6		79.1-120.3				
Selenium	165	11	mg/Kg wet	188		87.9		78.4-120.9				
Silver	39.1	1.1	mg/Kg wet	49.0		79.8		66.2-133.6				
LCS (B018048-BS2)				Prepared: 08/20/10 Analyzed: 08/24/10								
Lead	0.801	0.77	mg/Kg wet	0.774		104		80-120				
LCS Dup (B018048-BSD1)				Prepared: 08/20/10 Analyzed: 08/24/10								
Arsenic	102	5.4	mg/Kg wet	116		88.3		81.6-118.4	2.12		30	
Barium	327	5.4	mg/Kg wet	358		91.4		80.7-119.3	4.14		30	
Cadmium	238	0.54	mg/Kg wet	264		90.2		82.4-117.6	3.23		30	
Chromium	77.7	1.1	mg/Kg wet	87.1		89.2		78.8-120.7	0.898		30	
Lead	97.6	1.6	mg/Kg wet	116		84.4		79.1-120.3	4.04		30	
Selenium	169	11	mg/Kg wet	191		88.6		78.4-120.9	2.64		30	
Silver	38.8	1.1	mg/Kg wet	49.9		77.8		66.2-133.6	0.789		30	
Duplicate (B018048-DUP3)		**Source: 10I0635-01**		Prepared: 08/20/10 Analyzed: 08/24/10								
Lead	121	3.9	mg/Kg dry		106				**12.9**	*	10	Z-01
Matrix Spike (B018048-MS3)		**Source: 10I0635-01**		Prepared: 08/20/10 Analyzed: 08/24/10								
Arsenic	24.6	2.5	mg/Kg dry	24.6	1.50	94.1		75-125				
Barium	44.8	2.5	mg/Kg dry	24.6	18.6	107		75-125				
Cadmium	23.6	0.25	mg/Kg dry	24.6	0.121	95.7		75-125				
Chromium	30.1	0.49	mg/Kg dry	24.6	5.80	99.0		75-125				
Lead	80.6	0.74	mg/Kg dry	24.6	106	**-104**	*	75-125				MS-19
Selenium	23.3	4.9	mg/Kg dry	24.6	ND	94.7		75-125				
Silver	21.3	0.49	mg/Kg dry	24.6	ND	86.6		75-125				
Batch B018203 - SW-846 7471A												
Blank (B018203-BLK1)				Prepared: 08/23/10 Analyzed: 08/24/10								
Mercury	ND	0.025	mg/Kg wet									

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018203 - SW-846 7471A										
LCS (B018203-BS1)				Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	1.28	0.029	mg/Kg wet	1.25		103	66-132			
LCS Dup (B018203-BSD1)				Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	1.17	0.029	mg/Kg wet	1.25		93.8	66-132	8.85	30	
Duplicate (B018203-DUP1)		Source: 10H0635-01		Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	0.0197	0.011	mg/Kg dry		0.0208			5.43	35	
Matrix Spike (B018203-MS1)		Source: 10H0635-01		Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	0.249	0.011	mg/Kg dry	0.226	0.0208	101	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
H-10	Analysis was requested after the recommended holding time had passed.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
Z-01	Result is serial dilution as required by MA CAM. Serial dilution is outside control limits, increased variability in reported results cannot be eliminated.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 7471B in Soil	
Mercury	CT,NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publide Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

10G0165

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston & Sampson
Address:
Telephone: 978 532-1900
Project #
Client PO#
Attention: George Nastas / Ron McCormack
Project Location: Chapman Valve
Sampled By: Laura Yellen

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #: nastasg@weston.com
Email: mccormacr@weston.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	RCRA 8 Metals	VOCs	CPH w/ Target	PCBs by 8082	SVOCs	TPH 8100	# of Containers	** Preservation	***Container Code
														1	V	G
														2	2	2
								A	M	O						
-01	WS-24	7/6/10	1115			S	U	X	X	X	X	X	X			

DI VIALS / ENCORE FROZEN AT

Comments: Run matrix spike on WS-24 for metals

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yellen	7/6/10 1335
Received by: (signature)	Date/Time:
	7/6 1335
Relinquished by: (signature)	Date/Time:
	7/6 1645
Received by: (signature)	Date/Time:
Andrea Anderson	7/6/10 1645

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
◉ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals?
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE SAMPLES

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10H0635
Project Location:	Chapman Valve Pinevale St., Springfield, MA	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10H0635-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes	☑ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/30/10

Soil Confirmatory Data (July 2010)

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 13, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: 121 Pinedale St., Springfield, MA-Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0248

Enclosed are results of analyses for samples received by the laboratory on July 9, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/13/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0248

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 121 Pinedale St., Springfield, MA-Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-1	10G0248-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-2	10G0248-02	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-3	10G0248-03	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-4	10G0248-04	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-5	10G0248-05	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-6	10G0248-06	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
DUP-2	10G0248-07	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-I Sampled: 7/9/2010 08:10

Sample ID: 10G0248-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Unadjusted C11-C22 Aromatics	43	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
C11-C22 Aromatics	28	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Anthracene	0.27	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Benzo(a)anthracene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Benzo(a)pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Benzo(b)fluoranthene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Benzo(g,h,i)perylene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Benzo(k)fluoranthene	0.63	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Chrysene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Dibenz(a,h)anthracene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Fluoranthene	2.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Fluorene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Indeno(1,2,3-cd)pyrene	0.94	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Phenanthrene	1.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM
Pyrene	2.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:13	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.1	40-140		7/13/10 13:13
o-Terphenyl (OTP)	90.9	40-140		7/13/10 13:13
2-Bromonaphthalene	118	40-140		7/13/10 13:13
2-Fluorobiphenyl	117	40-140		7/13/10 13:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-1 Sampled: 7/9/2010 08:10

Sample ID: 10G0248-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP
Barium	48	2.7	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP
Cadmium	0.28	0.27	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP
Chromium	9.1	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP
Lead	53	0.80	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP
Mercury	0.54	0.027	mg/Kg dry	1		SW-846 7471A	7/10/10	7/12/10 14:01	MPF
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 15:05	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-1 Sampled: 7/9/2010 08:10

Sample ID: 10G0248-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-2 Sampled: 7/9/2010 08:20

Sample ID: 10G0248-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Unadjusted C11-C22 Aromatics	80	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
C11-C22 Aromatics	48	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Acenaphthene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Acenaphthylene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Anthracene	0.69	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Benzo(a)anthracene	2.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Benzo(a)pyrene	2.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Benzo(b)fluoranthene	3.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Benzo(g,h,i)perylene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Benzo(k)fluoranthene	1.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Chrysene	2.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Dibenz(a,h)anthracene	0.40	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Fluoranthene	5.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Fluorene	0.16	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Indeno(1,2,3-cd)pyrene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Naphthalene	0.15	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Phenanthrene	2.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM
Pyrene	5.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:34	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.3	40-140		7/13/10 13:34
o-Terphenyl (OTP)	89.9	40-140		7/13/10 13:34
2-Bromonaphthalene	115	40-140		7/13/10 13:34
2-Fluorobiphenyl	114	40-140		7/13/10 13:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-2 Sampled: 7/9/2010 08:20

Sample ID: 10G0248-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:59	OP
Barium	48	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:58	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:59	OP
Chromium	9.3	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:58	OP
Lead	25	0.79	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:59	OP
Mercury	0.80	0.030	mg/Kg dry	2		SW-846 7471A	7/10/10	7/12/10 15:17	MPF
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:59	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 16:58	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-2 Sampled: 7/9/2010 08:20

Sample ID: 10G0248-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-3 Sampled: 7/9/2010 08:30

Sample ID: 10G0248-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Unadjusted C11-C22 Aromatics	13	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Anthracene	0.11	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Benzo(a)anthracene	0.26	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Benzo(a)pyrene	0.29	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Benzo(b)fluoranthene	0.38	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Benzo(g,h,i)perylene	0.60	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Benzo(k)fluoranthene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Chrysene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Fluoranthene	0.51	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Indeno(1,2,3-cd)pyrene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Phenanthrene	0.27	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM
Pyrene	0.55	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 13:56	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.7	40-140		7/13/10 13:56
o-Terphenyl (OTP)	101	40-140		7/13/10 13:56
2-Bromonaphthalene	125	40-140		7/13/10 13:56
2-Fluorobiphenyl	125	40-140		7/13/10 13:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-3 Sampled: 7/9/2010 08:30

Sample ID: 10G0248-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP
Barium	21	2.7	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP
Chromium	8.6	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP
Lead	5.4	0.80	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP
Mercury	0.025	0.023	mg/Kg dry	1		SW-846 7471A	7/10/10	7/12/10 14:04	MPF
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:03	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-3 Sampled: 7/9/2010 08:30

Sample ID: 10G0248-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-4 Sampled: 7/9/2010 08:40

Sample ID: 10G0248-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Unadjusted C11-C22 Aromatics	38	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
C11-C22 Aromatics	23	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Anthracene	0.31	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Benzo(a)anthracene	1.3	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Benzo(a)pyrene	1.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Benzo(b)fluoranthene	1.6	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Benzo(g,h,i)perylene	0.78	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Benzo(k)fluoranthene	0.57	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Chrysene	1.3	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Dibenz(a,h)anthracene	0.19	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Fluoranthene	2.5	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Fluorene	0.13	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Indeno(1,2,3-cd)pyrene	0.80	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Naphthalene	0.12	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Phenanthrene	1.4	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM
Pyrene	2.6	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:17	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.8	40-140		7/13/10 14:17
o-Terphenyl (OTP)	75.9	40-140		7/13/10 14:17
2-Bromonaphthalene	101	40-140		7/13/10 14:17
2-Fluorobiphenyl	101	40-140		7/13/10 14:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-4 Sampled: 7/9/2010 08:40

Sample ID: 10G0248-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:08	OP
Barium	42	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:07	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:08	OP
Chromium	7.7	0.52	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:08	OP
Lead	20	0.79	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:08	OP
Mercury	0.038	0.025	mg/Kg dry	1		SW-846 7471A	7/10/10	7/12/10 14:06	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:08	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:07	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-4 Sampled: 7/9/2010 08:40

Sample ID: 10G0248-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.5		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-5 Sampled: 7/9/2010 08:50

Sample ID: 10G0248-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Unadjusted C11-C22 Aromatics	37	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
C11-C22 Aromatics	24	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Acenaphthylene	0.11	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Anthracene	0.27	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Benzo(a)anthracene	1.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Benzo(a)pyrene	1.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Benzo(b)fluoranthene	1.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Benzo(g,h,i)perylene	0.80	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Benzo(k)fluoranthene	0.53	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Chrysene	1.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Dibenz(a,h)anthracene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Fluoranthene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Indeno(1,2,3-cd)pyrene	0.81	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Phenanthrene	1.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM
Pyrene	2.2	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:39	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	70.8	40-140		7/13/10 14:39
o-Terphenyl (OTP)	93.9	40-140		7/13/10 14:39
2-Bromonaphthalene	108	40-140		7/13/10 14:39
2-Fluorobiphenyl	109	40-140		7/13/10 14:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-5 Sampled: 7/9/2010 08:50

Sample ID: 10G0248-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP
Barium	44	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP
Chromium	9.2	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP
Lead	25	0.79	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP
Mercury	0.037	0.013	mg/Kg dry	1		SW-846 7471A	7/10/10	7/12/10 14:07	MPF
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:12	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-5 Sampled: 7/9/2010 08:50

Sample ID: 10G0248-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-6 Sampled: 7/9/2010 09:00

Sample ID: 10G0248-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Unadjusted C11-C22 Aromatics	12	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Benzo(a)anthracene	0.24	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Benzo(a)pyrene	0.24	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Benzo(b)fluoranthene	0.34	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Benzo(g,h,i)perylene	0.27	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Benzo(k)fluoranthene	0.12	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Chrysene	0.26	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Fluoranthene	0.43	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Indeno(1,2,3-cd)pyrene	0.17	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Phenanthrene	0.22	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM
Pyrene	0.44	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:14	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.2	40-140		7/13/10 14:14
o-Terphenyl (OTP)	71.6	40-140		7/13/10 14:14
2-Bromonaphthalene	97.3	40-140		7/13/10 14:14
2-Fluorobiphenyl	97.5	40-140		7/13/10 14:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-6 Sampled: 7/9/2010 09:00

Sample ID: 10G0248-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:17	OP
Barium	42	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:16	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:17	OP
Chromium	8.6	0.52	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:16	OP
Lead	10	0.78	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:17	OP
Mercury	0.035	0.015	mg/Kg dry	1		SW-846 7471A	7/10/10	7/12/10 14:09	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:17	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:16	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: CS-6 Sampled: 7/9/2010 09:00

Sample ID: 10G0248-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: DUP-2 Sampled: 7/9/2010 00:00

Sample ID: 10G0248-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Unadjusted C11-C22 Aromatics	210	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
C11-C22 Aromatics	120	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Acenaphthene	1.7	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Acenaphthylene	0.44	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Anthracene	4.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Benzo(a)anthracene	6.3	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Benzo(a)pyrene	4.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Benzo(b)fluoranthene	6.0	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Benzo(g,h,i)perylene	2.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Benzo(k)fluoranthene	2.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Chrysene	6.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Dibenz(a,h)anthracene	0.73	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Fluoranthene	15	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Fluorene	3.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Indeno(1,2,3-cd)pyrene	2.6	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
2-Methylnaphthalene	1.4	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Naphthalene	1.3	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Phenanthrene	19	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM
Pyrene	14	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/10	7/13/10 14:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.8	40-140		7/13/10 14:35
o-Terphenyl (OTP)	60.7	40-140		7/13/10 14:35
2-Bromonaphthalene	108	40-140		7/13/10 14:35
2-Fluorobiphenyl	107	40-140		7/13/10 14:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: DUP-2 Sampled: 7/9/2010 00:00

Sample ID: 10G0248-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP
Barium	45	2.6	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP
Chromium	10	0.52	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP
Lead	39	0.79	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP
Mercury	0.033	0.013	mg/Kg dry	1		SW-846 7471A	7/10/10	7/12/10 14:11	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/9/10	7/10/10 17:21	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, Sample Description: Work Order: 10G0248

Date Received: 7/9/2010

Field Sample #: DUP-2 Sampled: 7/9/2010 00:00

Sample ID: 10G0248-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	7/9/10	7/10/10 13:20	NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0248-01 [CS-1]	B016056	20.1	2.00	07/10/10
10G0248-02 [CS-2]	B016056	20.1	2.00	07/10/10
10G0248-03 [CS-3]	B016056	20.2	2.00	07/10/10
10G0248-04 [CS-4]	B016056	20.1	2.00	07/10/10
10G0248-05 [CS-5]	B016056	20.0	2.00	07/10/10
10G0248-06 [CS-6]	B016056	20.1	2.00	07/10/10
10G0248-07 [DUP-2]	B016056	20.0	2.00	07/10/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0248-01 [CS-1]	B016048	07/09/10
10G0248-02 [CS-2]	B016048	07/09/10
10G0248-03 [CS-3]	B016048	07/09/10
10G0248-04 [CS-4]	B016048	07/09/10
10G0248-05 [CS-5]	B016048	07/09/10
10G0248-06 [CS-6]	B016048	07/09/10
10G0248-07 [DUP-2]	B016048	07/09/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0248-01 [CS-1]	B016036	1.00	50.0	07/09/10
10G0248-02 [CS-2]	B016036	1.02	50.0	07/09/10
10G0248-03 [CS-3]	B016036	1.01	50.0	07/09/10
10G0248-04 [CS-4]	B016036	0.998	50.0	07/09/10
10G0248-05 [CS-5]	B016036	1.00	50.0	07/09/10
10G0248-06 [CS-6]	B016036	1.01	50.0	07/09/10
10G0248-07 [DUP-2]	B016036	1.00	50.0	07/09/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0248-01 [CS-1]	B016063	0.100	25.0	07/10/10
10G0248-02 [CS-2]	B016063	0.179	25.0	07/10/10
10G0248-03 [CS-3]	B016063	0.114	25.0	07/10/10
10G0248-04 [CS-4]	B016063	0.105	25.0	07/10/10
10G0248-05 [CS-5]	B016063	0.198	25.0	07/10/10
10G0248-06 [CS-6]	B016063	0.173	25.0	07/10/10
10G0248-07 [DUP-2]	B016063	0.196	25.0	07/10/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016056 - SW-846 3546										
Blank (B016056-BLK1)				Prepared: 07/10/10 Analyzed: 07/12/10						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.84*		mg/Kg wet	5.00		76.7	40-140			
Surrogate: o-Terphenyl (OTP)	*4.92*		mg/Kg wet	5.00		98.4	40-140			
Surrogate: 2-Bromonaphthalene	*4.93*		mg/Kg wet	5.00		98.6	40-140			
Surrogate: 2-Fluorobiphenyl	*4.94*		mg/Kg wet	5.00		98.9	40-140			
LCS (B016056-BS1)				Prepared: 07/10/10 Analyzed: 07/12/10						
C9-C18 Aliphatics	24.4	10	mg/Kg wet	30.0		81.3	40-140			
C19-C36 Aliphatics	40.9	10	mg/Kg wet	40.0		102	40-140			
Unadjusted C11-C22 Aromatics	78.7	10	mg/Kg wet	85.0		92.6	40-140			
Acenaphthene	3.98	0.10	mg/Kg wet	5.00		79.6	40-140			
Acenaphthylene	4.00	0.10	mg/Kg wet	5.00		80.0	40-140			
Anthracene	4.48	0.10	mg/Kg wet	5.00		89.7	40-140			
Benzo(a)anthracene	4.74	0.10	mg/Kg wet	5.00		94.9	40-140			
Benzo(a)pyrene	4.39	0.10	mg/Kg wet	5.00		87.8	40-140			
Benzo(b)fluoranthene	4.58	0.10	mg/Kg wet	5.00		91.6	40-140			
Benzo(g,h,i)perylene	4.43	0.10	mg/Kg wet	5.00		88.5	40-140			
Benzo(k)fluoranthene	4.56	0.10	mg/Kg wet	5.00		91.1	40-140			
Chrysene	4.47	0.10	mg/Kg wet	5.00		89.4	40-140			
Dibenz(a,h)anthracene	4.46	0.10	mg/Kg wet	5.00		89.2	40-140			
Fluoranthene	4.47	0.10	mg/Kg wet	5.00		89.4	40-140			
Fluorene	4.19	0.10	mg/Kg wet	5.00		83.8	40-140			
Indeno(1,2,3-cd)pyrene	4.39	0.10	mg/Kg wet	5.00		87.8	40-140			
2-Methylnaphthalene	3.87	0.10	mg/Kg wet	5.00		77.4	40-140			
Naphthalene	3.55	0.10	mg/Kg wet	5.00		71.0	40-140			
Phenanthrene	4.43	0.10	mg/Kg wet	5.00		88.7	40-140			
Pyrene	4.65	0.10	mg/Kg wet	5.00		93.1	40-140			
n-Nonane	2.33	0.10	mg/Kg wet	5.00		46.6	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.0942		mg/Kg wet	5.00		1.88	0-5			
Surrogate: Chlorooctadecane (COD)	*3.58*		mg/Kg wet	5.00		71.6	40-140			
Surrogate: o-Terphenyl (OTP)	*4.64*		mg/Kg wet	5.00		92.7	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016056 - SW-846 3546										
LCS (B016056-BS1)				Prepared: 07/10/10 Analyzed: 07/12/10						
Surrogate: 2-Bromonaphthalene	*4.50*		mg/Kg wet	5.00		89.9	40-140			
Surrogate: 2-Fluorobiphenyl	*4.48*		mg/Kg wet	5.00		89.6	40-140			
LCS Dup (B016056-BSD1)				Prepared: 07/10/10 Analyzed: 07/12/10						
C9-C18 Aliphatics	23.2	10	mg/Kg wet	30.0		77.4	40-140	4.84	25	
C19-C36 Aliphatics	39.4	10	mg/Kg wet	40.0		98.5	40-140	3.83	25	
Unadjusted C11-C22 Aromatics	92.1	10	mg/Kg wet	85.0		108	40-140	15.7	25	
Acenaphthene	4.62	0.10	mg/Kg wet	5.00		92.4	40-140	14.9	25	
Acenaphthylene	4.65	0.10	mg/Kg wet	5.00		93.1	40-140	15.1	25	
Anthracene	5.27	0.10	mg/Kg wet	5.00		105	40-140	16.1	25	
Benzo(a)anthracene	5.69	0.10	mg/Kg wet	5.00		114	40-140	18.2	25	
Benzo(a)pyrene	5.38	0.10	mg/Kg wet	5.00		108	40-140	20.2	25	
Benzo(b)fluoranthene	5.59	0.10	mg/Kg wet	5.00		112	40-140	19.9	25	
Benzo(g,h,i)perylene	5.41	0.10	mg/Kg wet	5.00		108	40-140	20.0	25	
Benzo(k)fluoranthene	5.56	0.10	mg/Kg wet	5.00		111	40-140	19.8	25	
Chrysene	5.37	0.10	mg/Kg wet	5.00		107	40-140	18.2	25	
Dibenz(a,h)anthracene	5.46	0.10	mg/Kg wet	5.00		109	40-140	20.1	25	
Fluoranthene	5.29	0.10	mg/Kg wet	5.00		106	40-140	16.8	25	
Fluorene	4.86	0.10	mg/Kg wet	5.00		97.1	40-140	14.8	25	
Indeno(1,2,3-cd)pyrene	5.37	0.10	mg/Kg wet	5.00		107	40-140	20.1	25	
2-Methylnaphthalene	4.51	0.10	mg/Kg wet	5.00		90.2	40-140	15.3	25	
Naphthalene	4.14	0.10	mg/Kg wet	5.00		82.9	40-140	15.5	25	
Phenanthrene	5.15	0.10	mg/Kg wet	5.00		103	40-140	14.9	25	
Pyrene	5.51	0.10	mg/Kg wet	5.00		110	40-140	16.9	25	
n-Nonane	2.29	0.10	mg/Kg wet	5.00		45.9	30-140	1.52	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.0917		mg/Kg wet	5.00		1.83	0-5			
Surrogate: Chlorooctadecane (COD)	*3.55*		mg/Kg wet	5.00		71.0	40-140			
Surrogate: o-Terphenyl (OTP)	*5.43*		mg/Kg wet	5.00		109	40-140			
Surrogate: 2-Bromonaphthalene	*5.23*		mg/Kg wet	5.00		105	40-140			
Surrogate: 2-Fluorobiphenyl	*5.18*		mg/Kg wet	5.00		104	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016036 - SW-846 3050B										
Blank (B016036-BLK1)				Prepared: 07/09/10 Analyzed: 07/10/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B016036-BS1)				Prepared: 07/09/10 Analyzed: 07/10/10						
Arsenic	115	5.0	mg/Kg wet	107		108	81.6-118.4			
Barium	361	5.0	mg/Kg wet	331		109	80.7-119.3			
Cadmium	250	0.50	mg/Kg wet	244		103	82.4-117.6			
Chromium	85.7	1.0	mg/Kg wet	80.6		106	78.8-120.7			
Lead	109	1.5	mg/Kg wet	107		102	79.1-120.3			
Selenium	192	10	mg/Kg wet	177		109	78.4-120.9			
Silver	46.3	1.0	mg/Kg wet	46.2		100	66.2-133.6			
LCS (B016036-BS2)				Prepared: 07/09/10 Analyzed: 07/10/10						
Lead	0.799	0.74	mg/Kg wet	0.740		108	79.1-120.3			
LCS Dup (B016036-BSD1)				Prepared: 07/09/10 Analyzed: 07/10/10						
Arsenic	115	5.0	mg/Kg wet	107		108	81.6-118.4	0.399	30	
Barium	362	5.0	mg/Kg wet	331		109	80.7-119.3	0.149	30	
Cadmium	256	0.50	mg/Kg wet	244		105	82.4-117.6	2.19	30	
Chromium	86.8	1.0	mg/Kg wet	80.6		108	78.8-120.7	1.27	30	
Lead	115	1.5	mg/Kg wet	107		108	79.1-120.3	5.61	30	
Selenium	195	10	mg/Kg wet	177		110	78.4-120.9	1.23	30	
Silver	46.2	1.0	mg/Kg wet	46.2		100	66.2-133.6	0.236	30	
Duplicate (B016036-DUP1)		Source: 10G0248-01		Prepared: 07/09/10 Analyzed: 07/10/10						
Arsenic	ND	2.6	mg/Kg dry		ND			NC	35	
Barium	46.3	2.6	mg/Kg dry		48.1			3.96	35	
Cadmium	ND	0.26	mg/Kg dry		0.276			NC	35	
Chromium	9.27	0.52	mg/Kg dry		9.12			1.65	35	
Lead	50.2	0.78	mg/Kg dry		52.9			5.16	35	
Selenium	ND	5.2	mg/Kg dry		ND			NC	35	
Silver	ND	0.52	mg/Kg dry		ND			NC	35	
Matrix Spike (B016036-MS1)		Source: 10G0248-01		Prepared: 07/09/10 Analyzed: 07/10/10						
Arsenic	29.2	2.6	mg/Kg dry	26.3	1.90	104	75-125			
Barium	79.9	2.6	mg/Kg dry	26.3	48.1	121	75-125			
Cadmium	26.1	0.26	mg/Kg dry	26.3	0.276	98.2	75-125			
Chromium	37.8	0.53	mg/Kg dry	26.3	9.12	109	75-125			
Lead	78.0	0.79	mg/Kg dry	26.3	52.9	95.3	75-125			
Selenium	27.4	5.3	mg/Kg dry	26.3	ND	104	75-125			
Silver	25.3	0.53	mg/Kg dry	26.3	ND	96.1	75-125			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016063 - SW-846 7471A										
Blank (B016063-BLK1)				Prepared: 07/10/10 Analyzed: 07/12/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B016063-BS1)				Prepared: 07/10/10 Analyzed: 07/12/10						
Mercury	0.934	0.025	mg/Kg wet	0.914		102	66-132			
LCS Dup (B016063-BSD1)				Prepared: 07/10/10 Analyzed: 07/12/10						
Mercury	0.927	0.025	mg/Kg wet	0.908		102	66-132	0.739	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016048 - % Solids										
Duplicate (B016048-DUP3)		**Source: 10G0248-01**		Prepared: 07/09/10 Analyzed: 07/10/10						
% Solids	94.3		% Wt		93.9			0.425	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1060248

Company Name: Weston & Sampson
Address:
Attention: George Loehs / Brian McCormack
Project Location: Chapman Valve 121 Pineyue St Springfield, MA
Sampled By: Laura Yellen

Telephone: 978 532-1900
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #: Loehsg@WSEinc.com
Email: mccormackb@wseinc.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPH w/ Hexane	Total PCBs & Metals											# of Containers	** Preservation	***Container Code
																					H2	A
01	CS-1	7/9/16	0810			S	4	X	X													
02	CS-2		0820					X	X													
03	CS-3		0830					X	X													
04	CS-4		0840					X	X													
05	CS-5		0850					X	X													
06	CS-6		0900					X	X													
07	DUP-2		AM					X	X													

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature) Laura Yellen	Date/Time: 7/9/10 1145
Received by: (signature) Temp 5°C O.F.S.	Date/Time: 7/9/10 11:45
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

www.contestlabs.com

con-test® ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Weston+Sampson RECEIVED BY: KO DATE: 7/9/10

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [X] Direct from Sampling [X] Ambient [ ] In Cooler(s) [X]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	14	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A

June 2010

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0248
Project Location:	121 Pinedale St., Springfield, MA-Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0248-01 thru 10G0248-07

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 07/13/10

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 30, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: 121 Pinedale St., Springfield, MA-Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10H0637

Enclosed are results of analyses for samples received by the laboratory on August 23, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 8/30/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0637

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 121 Pinedale St., Springfield, MA-Chapman Valve

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-3	10H0637-01	Soil		SM 2540G	
				SW-846 6010B	
				SW-846 7471B	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

SW-846 7471B

Qualifications:

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Mercury

10H0637-01[CS-3]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, MA Sample Description: Work Order: 10H0637

Date Received: 8/23/2010

Field Sample #: CS-3 Sampled: 7/9/2010 08:30

Sample ID: 10H0637-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP
Barium	23	2.7	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP
Chromium	7.8	0.55	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP
Lead	5.6	0.82	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP
Mercury	ND	0.017	mg/Kg dry	1	H-10	SW-846 7471B	8/23/10	8/24/10 15:28	AMP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:23	OP

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinedale St., Springfield, MA
Sample Description:
Work Order: 10H0637

Date Received: 8/23/2010

Field Sample #: CS-3
Sampled: 7/9/2010 08:30

Sample ID: 10H0637-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	8/24/10	8/24/10 14:55	NH

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10H0637-01 [CS-3]	B018161	08/24/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0637-01 [CS-3]	B018048	0.972	50.0	08/20/10

Prep Method: SW-846 7471A-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0637-01 [CS-3]	B018203	0.161	25.0	08/23/10

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018048 - SW-846 3050B										
Blank (B018048-BLK1)				Prepared: 08/20/10 Analyzed: 08/24/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B018048-BS1)				Prepared: 08/20/10 Analyzed: 08/24/10						
Arsenic	100	5.3	mg/Kg wet	113		88.1	81.6-118.4			
Barium	314	5.3	mg/Kg wet	351		89.4	80.7-119.3			
Cadmium	230	0.53	mg/Kg wet	259		89.0	82.4-117.6			
Chromium	77.0	1.1	mg/Kg wet	85.5		90.1	78.8-120.7			
Lead	93.8	1.6	mg/Kg wet	113		82.6	79.1-120.3			
Selenium	165	11	mg/Kg wet	188		87.9	78.4-120.9			
Silver	39.1	1.1	mg/Kg wet	49.0		79.8	66.2-133.6			
LCS (B018048-BS2)				Prepared: 08/20/10 Analyzed: 08/24/10						
Lead	0.801	0.77	mg/Kg wet	0.774		104	80-120			
LCS Dup (B018048-BSD1)				Prepared: 08/20/10 Analyzed: 08/24/10						
Arsenic	102	5.4	mg/Kg wet	116		88.3	81.6-118.4	2.12	30	
Barium	327	5.4	mg/Kg wet	358		91.4	80.7-119.3	4.14	30	
Cadmium	238	0.54	mg/Kg wet	264		90.2	82.4-117.6	3.23	30	
Chromium	77.7	1.1	mg/Kg wet	87.1		89.2	78.8-120.7	0.898	30	
Lead	97.6	1.6	mg/Kg wet	116		84.4	79.1-120.3	4.04	30	
Selenium	169	11	mg/Kg wet	191		88.6	78.4-120.9	2.64	30	
Silver	38.8	1.1	mg/Kg wet	49.9		77.8	66.2-133.6	0.789	30	
Duplicate (B018048-DUP1)		Source: 10H0637-01		Prepared: 08/20/10 Analyzed: 08/24/10						
Arsenic	ND	2.5	mg/Kg dry		ND			NC	35	
Barium	25.6	2.5	mg/Kg dry		22.8			11.5	35	
Cadmium	ND	0.25	mg/Kg dry		ND			NC	35	
Chromium	7.82	0.50	mg/Kg dry		7.76			0.765	35	
Lead	6.26	0.75	mg/Kg dry		5.61			11.1	35	
Selenium	ND	5.0	mg/Kg dry		ND			NC	35	
Silver	ND	0.50	mg/Kg dry		ND			NC	35	
Matrix Spike (B018048-MS1)		Source: 10H0637-01		Prepared: 08/20/10 Analyzed: 08/24/10						
Arsenic	27.3	2.7	mg/Kg dry	26.6	1.13	98.1	75-125			
Barium	49.2	2.7	mg/Kg dry	26.6	22.8	99.2	75-125			
Cadmium	26.1	0.27	mg/Kg dry	26.6	0.201	97.1	75-125			
Chromium	34.0	0.53	mg/Kg dry	26.6	7.76	98.3	75-125			
Lead	31.8	0.80	mg/Kg dry	26.6	5.61	98.2	75-125			
Selenium	25.4	5.3	mg/Kg dry	26.6	ND	95.3	75-125			
Silver	23.3	0.53	mg/Kg dry	26.6	ND	87.3	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018203 - SW-846 7471A										
Blank (B018203-BLK1)				Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	ND	0.025	mg/Kg wet							
LCS (B018203-BS1)				Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	1.28	0.029	mg/Kg wet	1.25		103	66-132			
LCS Dup (B018203-BSD1)				Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	1.17	0.029	mg/Kg wet	1.25		93.8	66-132	8.85	30	
Matrix Spike (B018203-MS2)		Source: 10H0637-01		Prepared: 08/23/10	Analyzed: 08/24/10					
Mercury	0.389	0.019	mg/Kg dry	0.382	0.0151	97.9	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
H-10	Analysis was requested after the recommended holding time had passed.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 7471B in Soil	
Mercury	CT,NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

1060248

Company Name: Weston & Sampson
Address:
Attention: George Krebs, Brian McCormack
Project Location: Chapman Valve 121 Pineveie St Springfield, MA
Sampled By: Laura Yellen

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Telephone: 978 532-1900
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #: Dosinsg@weston.com
Email: mccormackb@weston.com
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 601 Vocs	Total RCRA 8 Metals	HP	A	# of Containers	** Preservation	*** Container Code
01	CS-1	7/9/16	0810			S	4	X	X					
02	CS-2	↓	0820			↓	↓	X	X					
03	CS-3	↓	0830			↓	↓	X	X					
04	CS-4	↓	0840			↓	↓	X	X					
05	CS-5	↓	0850			↓	↓	X	X					
06	CS-6	↓	0900			↓	↓	X	X					
07	DUP-2	↓	AM			↓	↓	X	X					

Comments: 8/20/16 Run matrix spike on CS-3 for metals

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yellen	7/9/16 1145
Received by: (signature) TYCO SX	Date/Time: 7/9/16 11:45
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
◉ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

*Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THE SAMPLES

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10H0637
Project Location:	121 Pinedale St., Springfield, MA-Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10H0637-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes	☑ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/30/10

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 16, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: 121 Pinevale St., Springfield, MA-Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0423

Enclosed are results of analyses for samples received by the laboratory on July 14, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/16/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0423

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 121 Pinevale St., Springfield, MA-Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-7	10G0423-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-8	10G0423-02	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-9	10G0423-03	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-10	10G0423-04	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-11	10G0423-05	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

For method MA EPH, not all MA CAM reporting limits were met due to dilution required for high levels of target analytes.

MADEP-EPH-04-1.1

Qualifications:

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics, n-Nonane

10G0423-01[CS-7], 10G0423-02[CS-8], 10G0423-03[CS-9], 10G0423-04[CS-10], 10G0423-05[CS-11], B016312-BLK1, B016312-BS1, B016312-BSD1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-7 Sampled: 7/13/2010 14:20

Sample ID: 10G0423-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	16	11	mg/Kg dry	1	R-05	MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
C19-C36 Aliphatics	520	110	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:19	CJM
Unadjusted C11-C22 Aromatics	140	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
C11-C22 Aromatics	130	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Anthracene	0.26	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Benzo(a)anthracene	1.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Benzo(a)pyrene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Benzo(b)fluoranthene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Benzo(g,h,i)perylene	0.98	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Benzo(k)fluoranthene	0.69	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Chrysene	1.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Dibenz(a,h)anthracene	0.30	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Fluoranthene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Indeno(1,2,3-cd)pyrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Naphthalene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Phenanthrene	0.89	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM
Pyrene	2.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.7	40-140		7/16/10 11:06
o-Terphenyl (OTP)	65.8	40-140		7/16/10 11:06
2-Bromonaphthalene	81.8	40-140		7/16/10 11:06
2-Fluorobiphenyl	81.8	40-140		7/16/10 11:06

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-7 Sampled: 7/13/2010 14:20

Sample ID: 10G0423-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:08	OP
Barium	54	2.8	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:07	OP
Cadmium	0.49	0.28	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:08	OP
Chromium	47	0.56	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:07	OP
Lead	46	0.84	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:08	OP
Mercury	0.027	0.013	mg/Kg dry	1		SW-846 7471A	7/15/10	7/15/10 15:33	MPF
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:08	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:07	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-7 Sampled: 7/13/2010 14:20

Sample ID: 10G0423-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	7/15/10	7/16/10 13:47	FWD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-8 Sampled: 7/13/2010 14:30

Sample ID: 10G0423-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	110	mg/Kg dry	10	R-05	MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
C19-C36 Aliphatics	230	110	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Unadjusted C11-C22 Aromatics	1100	110	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
C11-C22 Aromatics	660	110	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Acenaphthene	5.0	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Acenaphthylene	ND	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Anthracene	9.4	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Benzo(a)anthracene	32	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Benzo(a)pyrene	27	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Benzo(b)fluoranthene	40	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Benzo(g,h,i)perylene	16	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Benzo(k)fluoranthene	15	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Chrysene	36	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Dibenz(a,h)anthracene	4.9	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Fluoranthene	75	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Fluorene	4.0	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Indeno(1,2,3-cd)pyrene	18	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
2-Methylnaphthalene	1.2	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Naphthalene	2.2	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Phenanthrene	57	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM
Pyrene	79	1.1	mg/Kg dry	10		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:36	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	87.3	40-140		7/16/10 13:36
o-Terphenyl (OTP)	88.8	40-140		7/16/10 13:36
2-Bromonaphthalene	97.8	40-140		7/16/10 13:36
2-Fluorobiphenyl	96.9	40-140		7/16/10 13:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-8 Sampled: 7/13/2010 14:30

Sample ID: 10G0423-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.6	2.8	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP
Barium	69	2.8	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP
Cadmium	0.61	0.28	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP
Chromium	40	0.57	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP
Lead	110	0.85	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP
Mercury	0.050	0.014	mg/Kg dry	1		SW-846 7471A	7/15/10	7/15/10 15:35	MPF
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:12	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-8 Sampled: 7/13/2010 14:30

Sample ID: 10G0423-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	7/15/10	7/16/10 13:47	FWD

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: - Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-9 Sampled: 7/13/2010 14:40

Sample ID: 10G0423-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	20	mg/Kg dry	2	R-05	MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
C19-C36 Aliphatics	ND	20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Unadjusted C11-C22 Aromatics	170	20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
C11-C22 Aromatics	110	20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Acenaphthene	0.63	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Acenaphthylene	ND	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Anthracene	1.2	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Benzo(a)anthracene	4.7	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Benzo(a)pyrene	4.3	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Benzo(b)fluoranthene	6.1	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Benzo(g,h,i)perylene	2.4	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Benzo(k)fluoranthene	2.2	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Chrysene	5.4	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Dibenz(a,h)anthracene	0.68	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Fluoranthene	11	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Fluorene	0.62	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Indeno(1,2,3-cd)pyrene	2.7	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
2-Methylnaphthalene	ND	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Naphthalene	0.25	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Phenanthrene	7.6	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM
Pyrene	11	0.20	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:27	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	84.3	40-140		7/16/10 11:27
o-Terphenyl (OTP)	85.4	40-140		7/16/10 11:27
2-Bromonaphthalene	81.7	40-140		7/16/10 11:27
2-Fluorobiphenyl	81.2	40-140		7/16/10 11:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield. Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-9 Sampled: 7/13/2010 14:40

Sample ID: 10G0423-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:17	OP
Barium	44	2.4	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:16	OP
Cadmium	ND	0.24	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:17	OP
Chromium	10	0.47	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:16	OP
Lead	29	0.71	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:17	OP
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471A	7/15/10	7/15/10 15:37	MPF
Selenium	ND	4.7	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:17	OP
Silver	ND	0.47	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:16	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-9 Sampled: 7/13/2010 14:40

Sample ID: 10G0423-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.1		% Wt	1		SM 2540G	7/15/10	7/16/10 13:47	FWD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-10 Sampled: 7/13/2010 14:50

Sample ID: 10G0423-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	21	mg/Kg dry	2	R-05	MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
C19-C36 Aliphatics	130	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Unadjusted C11-C22 Aromatics	160	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
C11-C22 Aromatics	110	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Acenaphthene	0.56	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Acenaphthylene	ND	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Anthracene	1.1	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Benzo(a)anthracene	4.0	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Benzo(a)pyrene	3.3	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Benzo(b)fluoranthene	4.8	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Benzo(g,h,i)perylene	1.9	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Benzo(k)fluoranthene	1.7	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Chrysene	4.5	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Dibenz(a,h)anthracene	0.56	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Fluoranthene	8.9	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Fluorene	0.50	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Indeno(1,2,3-cd)pyrene	2.2	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
2-Methylnaphthalene	ND	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Naphthalene	0.26	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Phenanthrene	7.5	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM
Pyrene	9.9	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/15/10	7/16/10 11:49	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	75.5	40-140		7/16/10 11:49
o-Terphenyl (OTP)	81.7	40-140		7/16/10 11:49
2-Bromonaphthalene	84.4	40-140		7/16/10 11:49
2-Fluorobiphenyl	84.5	40-140		7/16/10 11:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-10 Sampled: 7/13/2010 14:50

Sample ID: 10G0423-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP
Barium	29	2.6	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP
Chromium	48	0.52	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP
Lead	51	0.78	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP
Mercury	ND	0.024	mg/Kg dry	1		SW-846 7471A	7/15/10	7/15/10 15:38	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:21	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-10 Sampled: 7/13/2010 14:50

Sample ID: 10G0423-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.5		% Wt	1		SM 2540G	7/15/10	7/16/10 13:47	FWD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield. Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-11 Sampled: 7/13/2010 15:00

Sample ID: 10G0423-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	42	mg/Kg dry	4	R-05	MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
C19-C36 Aliphatics	46	42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Unadjusted C11-C22 Aromatics	810	42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
C11-C22 Aromatics	430	42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Acenaphthene	5.5	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Acenaphthylene	ND	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Anthracene	11	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Benzo(a)anthracene	29	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Benzo(a)pyrene	24	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Benzo(b)fluoranthene	34	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Benzo(g,h,i)perylene	15	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Benzo(k)fluoranthene	12	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Chrysene	31	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Dibenz(a,h)anthracene	4.4	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Fluoranthene	66	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Fluorene	5.0	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Indeno(1,2,3-cd)pyrene	17	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
2-Methylnaphthalene	1.7	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Naphthalene	4.0	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Phenanthrene	54	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM
Pyrene	67	0.42	mg/Kg dry	4		MADEP-EPH-04-1.1	7/15/10	7/16/10 13:40	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	52.0	40-140		7/16/10 13:40
o-Terphenyl (OTP)	57.5	40-140		7/16/10 13:40
2-Bromonaphthalene	124	40-140		7/16/10 13:40
2-Fluorobiphenyl	124	40-140		7/16/10 13:40

con-test®

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-11 Sampled: 7/13/2010 15:00

Sample ID: 10G0423-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.0	2.5	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP
Barium	68	2.5	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP
Cadmium	0.42	0.25	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP
Chromium	18	0.51	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP
Lead	120	0.76	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP
Mercury	0.037	0.018	mg/Kg dry	1		SW-846 7471A	7/15/10	7/15/10 15:44	MPF
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010B	7/14/10	7/15/10 17:26	OP

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, Sample Description: Work Order: 10G0423

Date Received: 7/14/2010

Field Sample #: CS-11 Sampled: 7/13/2010 15:00

Sample ID: 10G0423-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	7/15/10	7/16/10 13:47	FWD

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0423-01 [CS-7]	B016312	20.0	2.00	07/15/10
10G0423-02 [CS-8]	B016312	20.0	2.00	07/15/10
10G0423-03 [CS-9]	B016312	20.1	2.00	07/15/10
10G0423-04 [CS-10]	B016312	20.0	2.00	07/15/10
10G0423-05 [CS-11]	B016312	20.0	2.00	07/15/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0423-01 [CS-7]	B016338	07/15/10
10G0423-02 [CS-8]	B016338	07/15/10
10G0423-03 [CS-9]	B016338	07/15/10
10G0423-04 [CS-10]	B016338	07/15/10
10G0423-05 [CS-11]	B016338	07/15/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0423-01 [CS-7]	B016291	0.989	50.0	07/14/10
10G0423-02 [CS-8]	B016291	0.957	50.0	07/14/10
10G0423-03 [CS-9]	B016291	1.09	50.0	07/14/10
10G0423-04 [CS-10]	B016291	0.984	50.0	07/14/10
10G0423-05 [CS-11]	B016291	1.03	50.0	07/14/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0423-01 [CS-7]	B016316	0.215	25.0	07/15/10
10G0423-02 [CS-8]	B016316	0.190	25.0	07/15/10
10G0423-03 [CS-9]	B016316	0.105	25.0	07/15/10
10G0423-04 [CS-10]	B016316	0.106	25.0	07/15/10
10G0423-05 [CS-11]	B016316	0.149	25.0	07/15/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016312 - SW-846 3546										
Blank (B016312-BLK1)				Prepared & Analyzed: 07/15/10						
C9-C18 Aliphatics	ND	10	mg/Kg wet							R-05
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.52*		mg/Kg wet	5.00		90.4	40-140			
Surrogate: o-Terphenyl (OTP)	*4.73*		mg/Kg wet	5.00		94.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.99*		mg/Kg wet	5.00		99.8	40-140			
Surrogate: 2-Fluorobiphenyl	*4.88*		mg/Kg wet	5.00		97.6	40-140			
LCS (B016312-BS1)				Prepared & Analyzed: 07/15/10						
C9-C18 Aliphatics	39.7	10	mg/Kg wet	30.0		132	40-140			R-05
C19-C36 Aliphatics	51.3	10	mg/Kg wet	40.0		128	40-140			
Unadjusted C11-C22 Aromatics	81.9	10	mg/Kg wet	85.0		96.4	40-140			
Acenaphthene	4.24	0.10	mg/Kg wet	5.00		84.7	40-140			
Acenaphthylene	4.32	0.10	mg/Kg wet	5.00		86.4	40-140			
Anthracene	4.71	0.10	mg/Kg wet	5.00		94.1	40-140			
Benzo(a)anthracene	5.03	0.10	mg/Kg wet	5.00		101	40-140			
Benzo(a)pyrene	4.64	0.10	mg/Kg wet	5.00		92.8	40-140			
Benzo(b)fluoranthene	4.90	0.10	mg/Kg wet	5.00		98.0	40-140			
Benzo(g,h,i)perylene	4.74	0.10	mg/Kg wet	5.00		94.7	40-140			
Benzo(k)fluoranthene	4.81	0.10	mg/Kg wet	5.00		96.1	40-140			
Chrysene	4.76	0.10	mg/Kg wet	5.00		95.2	40-140			
Dibenz(a,h)anthracene	4.68	0.10	mg/Kg wet	5.00		93.6	40-140			
Fluoranthene	4.75	0.10	mg/Kg wet	5.00		94.9	40-140			
Fluorene	4.45	0.10	mg/Kg wet	5.00		89.1	40-140			
Indeno(1,2,3-cd)pyrene	4.65	0.10	mg/Kg wet	5.00		93.1	40-140			
2-Methylnaphthalene	4.05	0.10	mg/Kg wet	5.00		80.9	40-140			
Naphthalene	3.68	0.10	mg/Kg wet	5.00		73.7	40-140			
Phenanthrene	4.64	0.10	mg/Kg wet	5.00		92.7	40-140			
Pyrene	4.93	0.10	mg/Kg wet	5.00		98.6	40-140			
n-Nonane	2.61	0.10	mg/Kg wet	5.00		52.1	30-140			R-05
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.243		mg/Kg wet	5.00		4.86	0-5			
Surrogate: Chlorooctadecane (COD)	*4.92*		mg/Kg wet	5.00		98.4	40-140			
Surrogate: o-Terphenyl (OTP)	*4.98*		mg/Kg wet	5.00		99.6	40-140			

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016312 - SW-846 3546										
LCS (B016312-BS1)				Prepared & Analyzed: 07/15/10						
Surrogate: 2-Bromonaphthalene	*4.95*		mg/Kg wet	5.00		98.9	40-140			
Surrogate: 2-Fluorobiphenyl	*4.92*		mg/Kg wet	5.00		98.4	40-140			
LCS Dup (B016312-BSD1)				Prepared & Analyzed: 07/15/10						
C9-C18 Aliphatics	26.1	10	mg/Kg wet	30.0		87.1	40-140	41.3 *	25	R-05
C19-C36 Aliphatics	43.9	10	mg/Kg wet	40.0		110	40-140	15.5	25	
Unadjusted C11-C22 Aromatics	78.5	10	mg/Kg wet	85.0		92.4	40-140	4.21	25	
Acenaphthene	4.14	0.10	mg/Kg wet	5.00		82.8	40-140	2.28	25	
Acenaphthylene	4.18	0.10	mg/Kg wet	5.00		83.5	40-140	3.37	25	
Anthracene	4.49	0.10	mg/Kg wet	5.00		89.9	40-140	4.63	25	
Benzo(a)anthracene	4.90	0.10	mg/Kg wet	5.00		98.1	40-140	2.55	25	
Benzo(a)pyrene	4.52	0.10	mg/Kg wet	5.00		90.4	40-140	2.60	25	
Benzo(b)fluoranthene	4.77	0.10	mg/Kg wet	5.00		95.4	40-140	2.69	25	
Benzo(g,h,i)perylene	4.62	0.10	mg/Kg wet	5.00		92.4	40-140	2.50	25	
Benzo(k)fluoranthene	4.69	0.10	mg/Kg wet	5.00		93.8	40-140	2.45	25	
Chrysene	4.64	0.10	mg/Kg wet	5.00		92.8	40-140	2.52	25	
Dibenz(a,h)anthracene	4.56	0.10	mg/Kg wet	5.00		91.2	40-140	2.62	25	
Fluoranthene	4.59	0.10	mg/Kg wet	5.00		91.7	40-140	3.46	25	
Fluorene	4.27	0.10	mg/Kg wet	5.00		85.4	40-140	4.25	25	
Indeno(1,2,3-cd)pyrene	4.53	0.10	mg/Kg wet	5.00		90.6	40-140	2.65	25	
2-Methylnaphthalene	4.01	0.10	mg/Kg wet	5.00		80.2	40-140	0.889	25	
Naphthalene	3.63	0.10	mg/Kg wet	5.00		72.6	40-140	1.44	25	
Phenanthrene	4.43	0.10	mg/Kg wet	5.00		88.5	40-140	4.68	25	
Pyrene	4.76	0.10	mg/Kg wet	5.00		95.3	40-140	3.40	25	
n-Nonane	2.48	0.10	mg/Kg wet	5.00		49.5	30-140	5.13	25	R-05
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.104		mg/Kg wet	5.00		2.08	0-5			
Surrogate: Chlorooctadecane (COD)	*4.84*		mg/Kg wet	5.00		96.9	40-140			
Surrogate: o-Terphenyl (OTP)	*4.77*		mg/Kg wet	5.00		95.3	40-140			
Surrogate: 2-Bromonaphthalene	*4.89*		mg/Kg wet	5.00		97.8	40-140			
Surrogate: 2-Fluorobiphenyl	*4.84*		mg/Kg wet	5.00		96.9	40-140			

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016291 - SW-846 3050B										
Blank (B016291-BLK1)				Prepared: 07/14/10 Analyzed: 07/15/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B016291-BS1)				Prepared: 07/14/10 Analyzed: 07/15/10						
Arsenic	114	4.8	mg/Kg wet	104		110	81.6-118.4			
Barium	355	4.8	mg/Kg wet	321		111	80.7-119.3			
Cadmium	260	0.48	mg/Kg wet	236		110	82.4-117.6			
Chromium	86.7	0.97	mg/Kg wet	78.1		111	78.8-120.7			
Lead	107	1.5	mg/Kg wet	104		103	79.1-120.3			
Selenium	195	9.7	mg/Kg wet	171		113	78.4-120.9			
Silver	49.1	0.97	mg/Kg wet	44.8		110	66.2-133.6			
LCS (B016291-BS2)				Prepared: 07/14/10 Analyzed: 07/15/10						
Lead	0.811	0.75	mg/Kg wet	0.750		108	79.1-120.3			
LCS Dup (B016291-BSD1)				Prepared: 07/14/10 Analyzed: 07/15/10						
Arsenic	115	4.8	mg/Kg wet	104		111	81.6-118.4	1.06	30	
Barium	361	4.8	mg/Kg wet	320		113	80.7-119.3	1.62	30	
Cadmium	266	0.48	mg/Kg wet	236		113	82.4-117.6	2.26	30	
Chromium	88.4	0.97	mg/Kg wet	78.0		113	78.8-120.7	1.98	30	
Lead	120	1.5	mg/Kg wet	104		116	79.1-120.3	11.9	30	
Selenium	197	9.7	mg/Kg wet	171		115	78.4-120.9	1.35	30	
Silver	50.0	0.97	mg/Kg wet	44.7		112	66.2-133.6	1.76	30	
Batch B016316 - SW-846 7471A										
Blank (B016316-BLK1)				Prepared & Analyzed: 07/15/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B016316-BS1)				Prepared & Analyzed: 07/15/10						
Mercury	1.04	0.025	mg/Kg wet	1.00		103	66-132			
LCS Dup (B016316-BSD1)				Prepared & Analyzed: 07/15/10						
Mercury	1.12	0.025	mg/Kg wet	0.998		113	66-132	8.09	30	

con-test®

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publile Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

10

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

10G0423

Company Name: Weston & Sampson
Telephone: (978) 532-1900
Address:
Project #
Client PO#

Attention: George Naslas / Brian McCormack
Project Location: Chapman Valve 121 Pinevale St Springfield, MA
Sampled By: Laura Vellen

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email: naslasg@wseinc.com mccormabe@wseinc.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPH w/ targets	Total RCRA 8 Metals	# of Containers	** Preservation	***Container Code
01	CS-7	7/13/10	1420			S	L	X	X			
02	CS-8	↓	1430			↓	↓	X	X			
03	CS-9		1440					X	X			
04	CS-10		1450					X	X			
05	CS-11	↓	1500			↓	↓	X	X			

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	7/14/10 10:30
Received by: (signature) [signature]	7/14/10 10:30
Relinquished by: (signature) [signature]	7/14/10 3:00
Received by: (signature) [signature] Temp 5°C	7/14/10 15:00

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †-
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

www.contestlabs.com

con-test® ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Weston & Sampson RECEIVED BY: KA DATE: 7/13/10

1) Was the chain(s) of custody relinquished and signed? Yes No
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:
4) How were the samples received:
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
Were the samples received in Temperature Compliance of (2-6°C)? Yes No
Temperature °C by Temp blank 5°C Temperature °C by Temp gun _____
5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
6) Are there any samples "On Hold"? Yes No Stored where: _____
7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____
8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	10	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0423
Project Location:	121 Pinevale St., Springfield, MA-Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0423-01 thru 10G0423-05

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 07/16/10

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 30, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: 121 Pinevale St., Springfield, MA-Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10H0638

Enclosed are results of analyses for samples received by the laboratory on August 23, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 8/30/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0638

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: 121 Pinevale St., Springfield, MA-Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-9	10H0638-01	Soil		SM 2540G	
				SW-846 6010B	
				SW-846 7471B	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

SW-846 6010B

Qualifications:

M5-11 Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Barium

10H0638-01[CS-9], B018048-MS2

SW-846 7471B

Qualifications:

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Mercury

10H0638-01[CS-9]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, MA Sample Description: Work Order: 10H0638

Date Received: 8/23/2010

Field Sample #: CS-9 Sampled: 7/13/2010 14:40

Sample ID: 10H0638-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:44	OP
Barium	39	2.5	mg/Kg dry	1	MS-11	SW-846 6010B	8/20/10	8/24/10 18:44	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:44	OP
Chromium	8.1	0.50	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:44	OP
Lead	27	0.74	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:44	OP
Mercury	ND	0.010	mg/Kg dry	1	H-10	SW-846 7471B	8/23/10	8/24/10 15:31	AMP
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:44	OP
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010B	8/20/10	8/24/10 18:44	OP

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 121 Pinevale St., Springfield, MA Sample Description: Work Order: 10H0638

Date Received: 8/23/2010

Field Sample #: CS-9 Sampled: 7/13/2010 14:40

Sample ID: 10H0638-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.1		% Wt	1		SM 2540G	8/24/10	8/24/10 14:55	NH

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10H0638-01 [CS-9]	B018161	08/24/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0638-01 [CS-9]	B018048	1.04	50.0	08/20/10

Prep Method: SW-846 7471A-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0638-01 [CS-9]	B018203	0.256	25.0	08/23/10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B018048 - SW-846 3050B											
Blank (B018048-BLK1)				Prepared: 08/20/10 Analyzed: 08/24/10							
Arsenic	ND	2.5	mg/Kg wet								
Barium	ND	2.5	mg/Kg wet								
Cadmium	ND	0.25	mg/Kg wet								
Chromium	ND	0.50	mg/Kg wet								
Lead	ND	0.75	mg/Kg wet								
Selenium	ND	5.0	mg/Kg wet								
Silver	ND	0.50	mg/Kg wet								
LCS (B018048-BS1)				Prepared: 08/20/10 Analyzed: 08/24/10							
Arsenic	100	5.3	mg/Kg wet	113		88.1		81.6-118.4			
Barium	314	5.3	mg/Kg wet	351		89.4		80.7-119.3			
Cadmium	230	0.53	mg/Kg wet	259		89.0		82.4-117.6			
Chromium	77.0	1.1	mg/Kg wet	85.5		90.1		78.8-120.7			
Lead	93.8	1.6	mg/Kg wet	113		82.6		79.1-120.3			
Selenium	165	11	mg/Kg wet	188		87.9		78.4-120.9			
Silver	39.1	1.1	mg/Kg wet	49.0		79.8		66.2-133.6			
LCS (B018048-BS2)				Prepared: 08/20/10 Analyzed: 08/24/10							
Lead	0.801	0.77	mg/Kg wet	0.774		104		80-120			
LCS Dup (B018048-BSD1)				Prepared: 08/20/10 Analyzed: 08/24/10							
Arsenic	102	5.4	mg/Kg wet	116		88.3		81.6-118.4	2.12	30	
Barium	327	5.4	mg/Kg wet	358		91.4		80.7-119.3	4.14	30	
Cadmium	238	0.54	mg/Kg wet	264		90.2		82.4-117.6	3.23	30	
Chromium	77.7	1.1	mg/Kg wet	87.1		89.2		78.8-120.7	0.898	30	
Lead	97.6	1.6	mg/Kg wet	116		84.4		79.1-120.3	4.04	30	
Selenium	169	11	mg/Kg wet	191		88.6		78.4-120.9	2.64	30	
Silver	38.8	1.1	mg/Kg wet	49.9		77.8		66.2-133.6	0.789	30	
Matrix Spike (B018048-MS2)		**Source: 10H0638-01**		Prepared: 08/20/10 Analyzed: 08/24/10							
Arsenic	24.8	2.4	mg/Kg dry	24.0	ND	103		75-125			
Barium	135	2.4	mg/Kg dry	24.0	39.3	**399**	*	75-125			MS-11
Cadmium	23.1	0.24	mg/Kg dry	24.0	0.203	95.5		75-125			
Chromium	36.7	0.48	mg/Kg dry	24.0	8.10	119		75-125			
Lead	55.5	0.72	mg/Kg dry	24.0	26.6	120		75-125			
Selenium	23.0	4.8	mg/Kg dry	24.0	ND	96.1		75-125			
Silver	20.8	0.48	mg/Kg dry	24.0	ND	86.6		75-125			
Batch B018203 - SW-846 7471A											
Blank (B018203-BLK1)				Prepared: 08/23/10 Analyzed: 08/24/10							
Mercury	ND	0.025	mg/Kg wet								

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018203 - SW-846 7471A										
LCS (B018203-BS1)				Prepared: 08/23/10 Analyzed: 08/24/10						
Mercury	1.28	0.029	mg/Kg wet	1.25		103	66-132			
LCS Dup (B018203-BSD1)				Prepared: 08/23/10 Analyzed: 08/24/10						
Mercury	1.17	0.029	mg/Kg wet	1.25		93.8	66-132	8.85	30	
Matrix Spike (B018203-MS3)		Source: 10H0638-01		Prepared: 08/23/10 Analyzed: 08/24/10						
Mercury	0.307	0.015	mg/Kg dry	0.310	ND	99.3	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
H-10	Analysis was requested after the recommended holding time had passed.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 7471B in Soil	
Mercury	CT,NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publile Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

1060423

Company Name: Weston & Sampson
Address:
Telephone: (978) 532-1900
Project #
Client PO#

Attention: George Naslas / Brian McCormack
Project Location: Chapman Valve 121 Pinevale St Springfield, MA
Sampled By: Laura Vellen

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #: naslasg@wseinc.com
Email: mccormacb@wseinc.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (Lab use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Date Code	6PH w/ targets	Total RCRA & Metals	HZ	A	# of Containers	** Preservation	***Container Code
01	CS-7	7/13/10	1420			S	4	X	X					
02	CS-8	↓	1430			↓	↓	X	X					
03	CS-9	↓	1440			↓	↓	X	X					
04	CS-10	↓	1450			↓	↓	X	X					
05	CS-11	↓	1500			↓	↓	X	X					

Comments: 8/20/10 Run matrix spike on CS-9 for metals

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na Hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished By (signature)	Date/Time:
[signature]	7/14/10 10:00
[signature]	7/14/10 10:00
[signature]	7/14/10 3:00
Received By (signature) [signature] Temp 5°C	7/14/10 15:00

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH ††
☐ †24-Hr ☒ 48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
◉ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS CONTAINER

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10H0638
Project Location:	121 Pinevale St., Springfield, MA-Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10H0638-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (x)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes	☑ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/30/10

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 21, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Former Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10G0556

Enclosed are results of analyses for samples received by the laboratory on July 20, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/21/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0556

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-7A	10G0556-01	Soil		SM 2540G	
				SM2580 A	
				SW-846 6010B	
				SW-846 7196A	
				SW-846 9045D	
CS-8A	10G0556-02	Soil		SM 2540G	
				SM2580 A	
				SW-846 6010B	
				SW-846 7196A	
				SW-846 9045D	
CS-10A	10G0556-03	Soil		SM 2540G	
				SM2580 A	
				SW-846 6010B	
				SW-846 7196A	
				SW-846 9045D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 7196A, not all MA CAM reporting limits were met due to dilution required for the dark color of the sample.

For method 6010, only Chromium was requested and reported.

Login

Qualifications:

T-06 Samples were received directly from sampling in the field on ice.

Analyte & Samples(s) Qualified:

10G0556-01[CS-7A], 10G0556-02[CS-8A], 10G0556-03[CS-10A]

SW-846 7196A

Qualifications:

Elevated method detection limit due to intense color of sample

Analyte & Samples(s) Qualified:

Hexavalent Chromium

10G0556-01[CS-7A], 10G0556-02[CS-8A], 10G0556-03[CS-10A]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0556

Date Received: 7/20/2010

Field Sample #: CS-7A
Sampled: 7/20/2010 09:10

Sample ID: 10G0556-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	62	0.58	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:55	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0556

Date Received: 7/20/2010

Field Sample #: CS-7A
Sampled: 7/20/2010 09:10

Sample ID: 10G0556-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	2.9	1.9	mg/Kg dry	10	W-06	SW-846 7196A	7/20/10	7/20/10 14:45	AED
Oxidation/Reduction Potential	170		mV	1		SM2580 A	7/20/10	7/20/10 11:25	AED
pH @23.2°C	6.6		pH Units	1		SW-846 9045D	7/20/10	7/20/10 11:25	AED
% Solids	84.5		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0556

Date Received: 7/20/2010

Field Sample #: CS-8A
Sampled: 7/20/2010 09:10

Sample ID: 10G0556-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	21	0.54	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:59	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0556

Date Received: 7/20/2010

Field Sample #: CS-8A
Sampled: 7/20/2010 09:10

Sample ID: 10G0556-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.7	mg/Kg dry	10	W-06	SW-846 7196A	7/20/10	7/20/10 14:45	AED
Oxidation/Reduction Potential	170		mV	1		SM2580 A	7/20/10	7/20/10 11:25	AED
pH @23.2°C	7.2		pH Units	1		SW-846 9045D	7/20/10	7/20/10 11:25	AED
% Solids	92.6		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0556

Date Received: 7/20/2010

Field Sample #: CS-10A
Sampled: 7/20/2010 09:10

Sample ID: 10G0556-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	67	0.55	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 18:04	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0556

Date Received: 7/20/2010

Field Sample #: CS-10A
Sampled: 7/20/2010 09:10

Sample ID: 10G0556-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.85	mg/Kg dry	5	W-06	SW-846 7196A	7/20/10	7/20/10 14:45	AED
Oxidation/Reduction Potential	160		mV	1		SM2580 A	7/20/10	7/20/10 11:25	AED
pH @23.2°C	6.9		pH Units	1		SW-846 9045D	7/20/10	7/20/10 11:25	AED
% Solids	93.6		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0556-01 [CS-7A]	B016487	07/20/10
10G0556-02 [CS-8A]	B016487	07/20/10
10G0556-03 [CS-10A]	B016487	07/20/10

SM2580 A

Lab Number [Field ID]	Batch	Initial [g]	Date
10G0556-01 [CS-7A]	B016558	20.0	07/20/10
10G0556-02 [CS-8A]	B016558	20.0	07/20/10
10G0556-03 [CS-10A]	B016558	20.0	07/20/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0556-01 [CS-7A]	B016481	1.02	50.0	07/20/10
10G0556-02 [CS-8A]	B016481	0.995	50.0	07/20/10
10G0556-03 [CS-10A]	B016481	0.973	50.0	07/20/10

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0556-01 [CS-7A]	B016502	2.51	100	07/20/10
10G0556-02 [CS-8A]	B016502	2.52	100	07/20/10
10G0556-03 [CS-10A]	B016502	2.52	100	07/20/10

SW-846 9045D

Lab Number [Field ID]	Batch	Initial [g]	Date
10G0556-01 [CS-7A]	B016557	20.0	07/20/10
10G0556-02 [CS-8A]	B016557	20.0	07/20/10
10G0556-03 [CS-10A]	B016557	20.0	07/20/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016481 - SW-846 3050B										
Blank (B016481-BLK1)				Prepared & Analyzed: 07/20/10						
Chromium	ND	0.50	mg/Kg wet							
LCS (B016481-BS1)				Prepared & Analyzed: 07/20/10						
Chromium	75.2	1.0	mg/Kg wet	82.3		91.3	78.8-120.7			
LCS Dup (B016481-BSD1)				Prepared & Analyzed: 07/20/10						
Chromium	75.9	1.0	mg/Kg wet	81.4		93.2	78.8-120.7	0.959	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016487 - % Solids										
Duplicate (B016487-DUP3)		Source: 10G0556-01		Prepared & Analyzed: 07/20/10						
% Solids	84.6		% Wt		84.5			0.118	20	
Batch B016502 - SW-846 7196A										
Blank (B016502-BLK1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Hexavalent Chromium	ND	0.16	mg/Kg wet							
LCS (B016502-BS1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Hexavalent Chromium	110	4.0	mg/Kg wet	132		85.7	80-120			
LCS Dup (B016502-BSD1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Hexavalent Chromium	120	4.0	mg/Kg wet	132		87.6	80-120	2.10	35	
Batch B016557 - SW-846 9045D										
Duplicate (B016557-DUP1)		Source: 10G0556-03		Prepared & Analyzed: 07/20/10						
pH	6.9		pH Units		6.9			0.436	6.83	
Batch B016558 - SM2580 A										
Duplicate (B016558-DUP1)		Source: 10G0556-03		Prepared & Analyzed: 07/20/10						
Oxidation/Reduction Potential	170		mV		165			2.99		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
T-06	Samples were received directly from sampling in the field on ice.
W-06	Elevated method detection limit due to intense color of sample

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Chromium	CT,NH,NY
SW-846 7196A in Soil	
Hexavalent Chromium	NY,CT,NH,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publile Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

10G0556

39 Spruce Street
East longmeadow, MA 01028

Company Name: Weston & Sampson
Address:
Telephone: 978 532-1900
Project #
Client PO#

Attention: George Naslas / Brian McCormack
Project Location: Former Chapman Valve
Sampled By: Laura Yellen

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax # Naslasg@wseinc.com
Email: mccormmh@wseinc.com
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Chromium 6 (I A)	Total Chromium (I A)	CR2 and 3H (I A)	# of Containers	** Preservation	***Container Code
-01	CS-7A	7/20/10	0910			S	U	X	X	X			
02	CS-8A	↓	0920			↓	↓	X	X	X			
03	CS-10A	↓	0930			↓	↓	X	X	X			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yellen	7/20/10 1025
Received by: (signature) Alan Jankowski	Date/Time: 7/20/10 10:25
Relinquished by: (signature) DFS 11.48	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☒ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Weston + Sampson RECEIVED BY: AP DATE: 7/20/10

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A ~~PH~~ AP

Temperature °C by Temp blank _____ Temperature °C by Temp gun 11.4°C D.F.S.

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified SBP Date 7/20/10 Time 10:30

8) Location where samples are stored: 18

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	9
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0556
Project Location:	Former Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0556-01 thru 10G0556-03

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B (X)	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 07/21/10

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 30, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Former Chapman Valve
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10H0640

Enclosed are results of analyses for samples received by the laboratory on August 23, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 8/30/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0640

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-8A	10H0640-01	Soil		SM2540G	
				SM2580 A	
				SW-846 6010B	
				SW-846 7196A	
				SW-846 9045D	

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only chromium was requested and reported.

SM2580 A

Qualifications:

H-10 Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Oxidation/Reduction Potential
10H0640-01[CS-8A], B018105-DUP1

SW-846 6010B

Qualifications:

M-07 Result is serial dilution as per MA CAM regulation.

Analyte & Samples(s) Qualified:

Chromium
B018210-DUP3

SW-846 7196A

Qualifications:

H-10 Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
10H0640-01[CS-8A], B018184-MS1, B018184-MS2, B018184-MS3, B018184-MSD1

M3-16 For solid method SW846-7196A, the matrix spike is outside of control limits. pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
10H0640-01[CS-8A], B018184-MS1, B018184-MS2, B018184-MSD1

SW-846 9045D

Qualifications:

H-10 Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

pH
10H0640-01[CS-8A], B018098-DUP2

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10H0640
Date Received: 8/23/2010
Field Sample #: CS-8A
Sampled: 7/20/2010 09.10
Sample ID: 10H0640-01
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	65	0.52	mg/Kg dry	1		SW-846 6010B	8/25/10	8/25/10 15:59	OP

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10H0640
Date Received: 8/23/2010
Field Sample #: CS-8A
Sampled: 7/20/2010 09:10
Sample ID: 10H0640-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.7	mg/Kg dry	10	H-10, MS-16	SW-846 7196A	8/23/10	8/24/10 12:50	AED
Oxidation/Reduction Potential	150		mV	1	H-10	SM2580 A	8/23/10	8/23/10 10:00	LL
pH @21.5°C	7.0		pH Units	1	H-10	SW-846 9045D	8/23/10	8/23/10 10:00	LL
% Solids	92.6		% Wt	1		SM 2540G	7/20/10	7/20/10 11:00	NH

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10H0640-01 [CS-8A]	B018161	07/20/10

SM2580 A

Lab Number [Field ID]	Batch	Initial [g]	Date
10H0640-01 [CS-8A]	B018105	20.0	08/23/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0640-01 [CS-8A]	B018210	1.04	50.0	08/25/10

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0640-01 [CS-8A]	B018184	2.51	100	08/23/10

SW-846 9045D

Lab Number [Field ID]	Batch	Initial [g]	Date
10H0640-01 [CS-8A]	B018098	20.0	08/23/10

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018210 - SW-846 3050B										
Blank (B018210-BLK1)				Prepared & Analyzed: 08/25/10						
Chromium	ND	0.50	mg/Kg wet							
LCS (B018210-BS1)				Prepared & Analyzed: 08/25/10						
Chromium	75.6	0.97	mg/Kg wet	78.4		96.5	78.8-120.7			
LCS Dup (B018210-BSD1)				Prepared & Analyzed: 08/25/10						
Chromium	77.6	0.96	mg/Kg wet	77.0		101	78.8-120.7	2.65	30	
Duplicate (B018210-DUP3)		Source: 10H0640-01		Prepared & Analyzed: 08/25/10						
Chromium	68.9	2.6	mg/Kg dry		64.6			6.51	10	M-07
Matrix Spike (B018210-MS3)		Source: 10H0640-01		Prepared & Analyzed: 08/25/10						
Chromium	88.5	0.54	mg/Kg dry	27.0	64.6	88.6	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B018098 - SW-846 9045D											
Duplicate (B018098-DUP2)		**Source: 10H0640-01**		Prepared & Analyzed: 08/23/10							
pH	6.9		pH Units		7.0				0.866	6.83	H-10
Batch B018105 - SM2580 A											
Duplicate (B018105-DUP1)		**Source: 10H0640-01**		Prepared & Analyzed: 08/23/10							
Oxidation/Reduction Potential	147		mV		153				4.00		H-10
Batch B018184 - SW-846 7196A											
Blank (B018184-BLK1)				Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	ND	0.16	mg/Kg wet								
LCS (B018184-BS1)				Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	120	4.0	mg/Kg wet	131		91.4		80-120			
LCS Dup (B018184-BSD1)				Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	110	4.0	mg/Kg wet	132		86.7		80-120	5.01	35	
Matrix Spike (B018184-MS1) Soluble MS		**Source: 10H0640-01**		Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	9.1	1.7	mg/Kg dry	43.2	ND	21.2	*	75-125			H-10, MS-16
Matrix Spike (B018184-MS2) PDMS		**Source: 10H0640-01**		Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	9.1	1.7	mg/Kg dry	43.1	ND	21.2	*	75-125			H-10, MS-16
Matrix Spike (B018184-MS3) Insoluble MS		**Source: 10H0640-01**		Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	530	17	mg/Kg dry	688	ND	77.0		75-125			H-10
Matrix Spike Dup (B018184-MSD1) Soluble MS Dup		**Source: 10H0640-01**		Prepared: 08/23/10 Analyzed: 08/24/10							
Hexavalent Chromium	12	1.7	mg/Kg dry	43.2	ND	27.5	*	75-125	25.9		H-10, MS-16

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded
H-10	Analysis was requested after the recommended holding time had passed.
M-07	Result is serial dilution as per MA CAM regulation.
MS-16	For solid method SW846-7196A, the matrix spike is outside of control limits. pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Chromium	CT,NH,NY
SW-846 7196A in Soil	
Hexavalent Chromium	NY,CT,NH,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

10G0556

Page 1 of 1

Company Name: Weston & Sampson
Address:
Telephone: 978 532-1900
Project #
Client PO#

Attention: George Nasing / Ron McCormack
Project Location: Former Chapman Valve
Sampled By: Laura Yellen

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax # nasing@weston.com
Email: mccormack@weston.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER _____
O "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Chromium 6 (1 A)	Total Chromium (1 A)	CR2 and 3 (1 A)	# of Containers	** Preservation	***Container Code
-01	CS-7A	7/20/10	0910			S	U	X	X	X			
02	CS-8A	↓	0920			↓	↓	X	X	X			
03	CS-10A	↓	0930			↓	↓	X	X	X			

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Comments: 8/20/10 Run matrix spike on CS-8A for CrVI + total Cr

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yellen	7/20/10 1025
Received by: (signature)	Date/Time:
Allen Pierkowski	7/20/10 10:25
Relinquished by: (signature) DES 11.48	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH *
☒ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

** TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10H0640
Project Location:	Former Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10H0640-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B (X)	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes	☑ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/30/10

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 21, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Former Chapman Valve
Client Job Number:
Project Number: -
Laboratory Work Order Number: 10G0540

Enclosed are results of analyses for samples received by the laboratory on July 19, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/21/2010

PURCHASE ORDER NUMBER: -

PROJECT NUMBER: -

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0540

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-12	10G0540-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-13	10G0540-02	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-14	10G0540-03	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-15	10G0540-04	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-16	10G0540-05	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-17	10G0540-06	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-18	10G0540-07	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-19	10G0540-08	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-20	10G0540-09	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-21	10G0540-10	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 7/21/2010

PURCHASE ORDER NUMBER: -

PROJECT NUMBER: -

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10G0540

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DUP-3	10G0540-11	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
CS-22	10G0540-12	Soil		SM 2540G	
				SW-846 6010B	
CS-23	10G0540-13	Soil		SM 2540G	
				SW-846 6010B	
CS-24	10G0540-14	Soil		SM 2540G	
				SW-846 6010B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported for all samples except 10G0540-12 - 14 which only Pb results were requested and reported.

MADEP-EPH-04-1.1

Qualifications:

M Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Phenanthrene, Pyrene

B016485-MS1, B016485-MSD1

M Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Fluoranthene

B016485-MS1, B016485-MSD1

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Outlier should be viewed as a one time anomaly. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

n-Nonane, Unadjusted C11-C22 Aromatics

B016485-MS1

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Phenanthrene

B016485-MSD1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-12
Sampled: 7/19/2010 11:10

Sample ID: 10G0540-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Unadjusted C11-C22 Aromatics	27	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
C11-C22 Aromatics	18	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Acenaphthylene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Anthracene	0.40	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Benzo(a)anthracene	0.71	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Benzo(a)pyrene	0.62	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Benzo(b)fluoranthene	0.84	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Benzo(g,h,i)perylene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Benzo(k)fluoranthene	0.29	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Chrysene	0.71	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Fluoranthene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Fluorene	0.16	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Indeno(1,2,3-cd)pyrene	0.37	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Phenanthrene	1.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM
Pyrene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:22	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	54.8	40-140		7/21/10 11:22
o-Terphenyl (OTP)	64.7	40-140		7/21/10 11:22
2-Bromonaphthalene	94.9	40-140		7/21/10 11:22
2-Fluorobiphenyl	95.2	40-140		7/21/10 11:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-12
Sampled: 7/19/2010 11:10

Sample ID: 10G0540-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP
Barium	49	2.8	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP
Chromium	10	0.57	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP
Lead	2.6	0.85	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:20	MPF
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:25	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-12
Sampled: 7/19/2010 11:10

Sample ID: 10G0540-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-13
Sampled: 7/19/2010 11:20

Sample ID: 10G0540-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Benzo(a)anthracene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Benzo(a)pyrene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Benzo(b)fluoranthene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Chrysene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Fluoranthene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Phenanthrene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM
Pyrene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 11:43	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	61.7	40-140		7/21/10 11:43
o-Terphenyl (OTP)	66.0	40-140		7/21/10 11:43
2-Bromonaphthalene	95.8	40-140		7/21/10 11:43
2-Fluorobiphenyl	95.6	40-140		7/21/10 11:43

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-13
Sampled: 7/19/2010 11:20

Sample ID: 10G0540-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP
Barium	62	2.7	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP
Chromium	12	0.55	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP
Lead	2.3	0.82	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP
Mercury	ND	0.015	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:21	MPF
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:30	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-13
Sampled: 7/19/2010 11:20

Sample ID: 10G0540-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve | Sample Description: | Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-14 | Sampled: 7/19/2010 11:25

Sample ID: 10G0540-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Benzo(b)fluoranthene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Fluoranthene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Phenanthrene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM
Pyrene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:04	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	58.8	40-140		7/21/10 12:04
o-Terphenyl (OTP)	63.1	40-140		7/21/10 12:04
2-Bromonaphthalene	96.3	40-140		7/21/10 12:04
2-Fluorobiphenyl	95.8	40-140		7/21/10 12:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-I4
Sampled: 7/19/2010 11:25

Sample ID: 10G0540-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:35	OP
Barium	61	2.7	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:34	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:35	OP
Chromium	13	0.55	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:34	OP
Lead	2.3	0.82	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:35	OP
Mercury	ND	0.015	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:23	MPF
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:35	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:34	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-14
Sampled: 7/19/2010 11:25

Sample ID: 10G0540-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.4		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-15
Sampled: 7/19/2010 11:45

Sample ID: 10G0540-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Unadjusted C11-C22 Aromatics	18	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
C11-C22 Aromatics	12	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Anthracene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Benzo(a)anthracene	0.50	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Benzo(a)pyrene	0.48	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Benzo(b)fluoranthene	0.62	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Benzo(g,h,i)perylene	0.35	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Benzo(k)fluoranthene	0.23	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Chrysene	0.50	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Fluoranthene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Indeno(1,2,3-cd)pyrene	0.33	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Phenanthrene	0.75	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM
Pyrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:25	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.2	40-140		7/21/10 12:25
o-Terphenyl (OTP)	63.1	40-140		7/21/10 12:25
2-Bromonaphthalene	95.6	40-140		7/21/10 12:25
2-Fluorobiphenyl	95.6	40-140		7/21/10 12:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-15
Sampled: 7/19/2010 11:45

Sample ID: 10G0540-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP
Barium	64	2.6	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP
Chromium	12	0.52	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP
Lead	3.1	0.78	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP
Mercury	ND	0.013	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:25	MPF
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:39	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-15
Sampled: 7/19/2010 11:45

Sample ID: 10G0540-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-16
Sampled: 7/19/2010 11:55

Sample ID: 10G0540-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Unadjusted C11-C22 Aromatics	47	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
C11-C22 Aromatics	29	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Acenaphthylene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Anthracene	0.49	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Benzo(a)anthracene	1.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Benzo(a)pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Benzo(b)fluoranthene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Benzo(g,h,i)perylene	0.72	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Benzo(k)fluoranthene	0.62	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Chrysene	1.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Dibenz(a,h)anthracene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Fluoranthene	3.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Fluorene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Indeno(1,2,3-cd)pyrene	0.83	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Phenanthrene	1.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM
Pyrene	3.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 12:47	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.9	40-140		7/21/10 12:47
o-Terphenyl (OTP)	70.3	40-140		7/21/10 12:47
2-Bromonaphthalene	94.3	40-140		7/21/10 12:47
2-Fluorobiphenyl	94.4	40-140		7/21/10 12:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-16
Sampled: 7/19/2010 11:55

Sample ID: 10G0540-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:44	OP
Barium	45	2.8	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:43	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:44	OP
Chromium	10	0.56	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:43	OP
Lead	2.7	0.84	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:44	OP
Mercury	ND	0.010	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:26	MPF
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:44	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:43	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-16
Sampled: 7/19/2010 11:55

Sample ID: 10G0540-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-17
Sampled: 7/19/2010 13:30

Sample ID: 10G0540-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Unadjusted C11-C22 Aromatics	26	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
C11-C22 Aromatics	17	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Anthracene	0.40	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Benzo(a)anthracene	0.71	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Benzo(a)pyrene	0.67	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Benzo(b)fluoranthene	0.87	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Benzo(g,h,i)perylene	0.40	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Benzo(k)fluoranthene	0.30	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Chrysene	0.76	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Fluoranthene	1.7	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Indeno(1,2,3-cd)pyrene	0.45	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Phenanthrene	1.3	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM
Pyrene	1.7	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:08	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.5	40-140		7/21/10 13:08
o-Terphenyl (OTP)	64.8	40-140		7/21/10 13:08
2-Bromonaphthalene	96.4	40-140		7/21/10 13:08
2-Fluorobiphenyl	96.7	40-140		7/21/10 13:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-17
Sampled: 7/19/2010 13:30

Sample ID: 10G0540-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP
Barium	36	2.6	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP
Chromium	7.9	0.51	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP
Lead	23	0.77	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP
Mercury	0.089	0.0088	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:28	MPF
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010B	7/19/10	7/20/10 16:48	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-17
Sampled: 7/19/2010 13:30

Sample ID: 10G0540-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.3		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-18
Sampled: 7/19/2010 13:35

Sample ID: 10G0540-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Unadjusted C11-C22 Aromatics	12	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Benzo(a)anthracene	0.31	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Benzo(a)pyrene	0.30	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Benzo(b)fluoranthene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Benzo(g,h,i)perylene	0.24	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Benzo(k)fluoranthene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Chrysene	0.31	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Fluoranthene	0.64	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Indeno(1,2,3-cd)pyrene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Phenanthrene	0.38	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM
Pyrene	0.59	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:29	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	74.5	40-140		7/21/10 13:29
o-Terphenyl (OTP)	77.0	40-140		7/21/10 13:29
2-Bromonaphthalene	101	40-140		7/21/10 13:29
2-Fluorobiphenyl	101	40-140		7/21/10 13:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-18
Sampled: 7/19/2010 13:35

Sample ID: 10G0540-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP
Barium	19	2.6	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP
Chromium	5.7	0.51	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP
Lead	11	0.77	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP
Mercury	ND	0.015	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:30	MPF
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:08	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-18
Sampled: 7/19/2010 13:35

Sample ID: 10G0540-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-19
Sampled: 7/19/2010 13:40

Sample ID: 10G0540-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
C19-C36 Aliphatics	37	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Unadjusted C11-C22 Aromatics	440	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
C11-C22 Aromatics	270	21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Acenaphthene	0.58	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Acenaphthylene	1.7	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Anthracene	5.2	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Benzo(a)anthracene	14	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Benzo(a)pyrene	11	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Benzo(b)fluoranthene	15	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Benzo(g,h,i)perylene	6.9	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Benzo(k)fluoranthene	5.2	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Chrysene	13	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Dibenz(a,h)anthracene	1.8	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Fluoranthene	32	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Fluorene	2.0	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Indeno(1,2,3-cd)pyrene	7.3	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
2-Methylnaphthalene	0.29	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Naphthalene	0.62	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Phenanthrene	21	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM
Pyrene	32	0.21	mg/Kg dry	2		MADEP-EPH-04-1.1	7/20/10	7/21/10 13:51	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	56.5	40-140		7/21/10 13:51
o-Terphenyl (OTP)	59.5	40-140		7/21/10 13:51
2-Bromonaphthalene	93.4	40-140		7/21/10 13:51
2-Fluorobiphenyl	93.9	40-140		7/21/10 13:51

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-19
Sampled: 7/19/2010 13:40

Sample ID: 10G0540-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:28	OP
Barium	45	2.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:27	OP
Cadmium	0.26	0.24	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:28	OP
Chromium	8.9	0.49	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:27	OP
Lead	96	0.73	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:27	OP
Mercury	0.049	0.012	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:31	MPF
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:28	OP
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:27	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-19
Sampled: 7/19/2010 13:40

Sample ID: 10G0540-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve | Sample Description: | Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-20 | Sampled: 7/19/2010 13:45

Sample ID: 10G0540-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Unadjusted C11-C22 Aromatics	120	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
C11-C22 Aromatics	72	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Acenaphthene	0.45	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Acenaphthylene	0.19	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Anthracene	1.4	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Benzo(a)anthracene	3.6	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Benzo(a)pyrene	3.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Benzo(b)fluoranthene	4.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Benzo(g,h,i)perylene	1.9	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Benzo(k)fluoranthene	1.5	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Chrysene	3.7	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Dibenz(a,h)anthracene	0.53	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Fluoranthene	8.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Fluorene	0.68	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Indeno(1,2,3-cd)pyrene	2.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Naphthalene	0.15	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Phenanthrene	6.9	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM
Pyrene	7.9	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:12	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	62.0	40-140		7/21/10 14:12
o-Terphenyl (OTP)	73.2	40-140		7/21/10 14:12
2-Bromonaphthalene	96.5	40-140		7/21/10 14:12
2-Fluorobiphenyl	95.7	40-140		7/21/10 14:12

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-20
Sampled: 7/19/2010 13:45

Sample ID: 10G0540-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP
Barium	29	2.6	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP
Chromium	7.8	0.53	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP
Lead	35	0.79	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP
Mercury	0.046	0.013	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:33	MPF
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:32	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-20
Sampled: 7/19/2010 13:45

Sample ID: 10G0540-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.9		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-21
Sampled: 7/19/2010 13:50

Sample ID: 10G0540-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Unadjusted C11-C22 Aromatics	44	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
C11-C22 Aromatics	27	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Acenaphthene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Acenaphthylene	0.11	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Anthracene	0.42	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Benzo(a)anthracene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Benzo(a)pyrene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Benzo(b)fluoranthene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Benzo(g,h,i)perylene	0.83	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Benzo(k)fluoranthene	0.58	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Chrysene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Dibenz(a,h)anthracene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Fluoranthene	3.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Fluorene	0.15	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Indeno(1,2,3-cd)pyrene	0.94	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Naphthalene	0.11	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Phenanthrene	2.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM
Pyrene	3.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:33	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.2	40-140		7/21/10 14:33
o-Terphenyl (OTP)	74.3	40-140		7/21/10 14:33
2-Bromonaphthalene	95.7	40-140		7/21/10 14:33
2-Fluorobiphenyl	95.7	40-140		7/21/10 14:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-21
Sampled: 7/19/2010 13:50

Sample ID: 10G0540-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.9	2.9	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP
Barium	43	2.9	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP
Chromium	7.4	0.58	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP
Lead	78	0.87	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP
Mercury	0.072	0.0093	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:35	MPF
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:37	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-21
Sampled: 7/19/2010 13:50

Sample ID: 10G0540-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: DUP-3
Sampled: 7/19/2010 00:00

Sample ID: 10G0540-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
C19-C36 Aliphatics	24	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Unadjusted C11-C22 Aromatics	62	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
C11-C22 Aromatics	38	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Acenaphthylene	0.16	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Anthracene	0.57	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Benzo(a)anthracene	2.0	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Benzo(a)pyrene	1.9	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Benzo(b)fluoranthene	2.5	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Benzo(g,h,i)perylene	1.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Benzo(k)fluoranthene	0.88	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Chrysene	2.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Dibenz(a,h)anthracene	0.32	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Fluoranthene	4.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Fluorene	0.14	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Indeno(1,2,3-cd)pyrene	1.3	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Phenanthrene	2.6	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM
Pyrene	4.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/20/10	7/21/10 14:55	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	69.3	40-140		7/21/10 14:55
o-Terphenyl (OTP)	79.2	40-140		7/21/10 14:55
2-Bromonaphthalene	99.7	40-140		7/21/10 14:55
2-Fluorobiphenyl	99.3	40-140		7/21/10 14:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: DUP-3
Sampled: 7/19/2010 00:00

Sample ID: 10G0540-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP
Barium	27	2.4	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP
Cadmium	ND	0.24	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP
Chromium	7.0	0.47	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP
Lead	36	0.71	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP
Mercury	0.080	0.012	mg/Kg dry	1		SW-846 7471A	7/20/10	7/20/10 14:41	MPF
Selenium	ND	4.7	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP
Silver	ND	0.47	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:41	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: DUP-3
Sampled: 7/19/2010 00:00

Sample ID: 10G0540-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-22
Sampled: 7/19/2010 14:30

Sample ID: 10G0540-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	21	0.87	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:46	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-22
Sampled: 7/19/2010 14:30

Sample ID: 10G0540-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-23
Sampled: 7/19/2010 14:35

Sample ID: 10G0540-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	18	0.78	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 16:44	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-23
Sampled: 7/19/2010 14:35

Sample ID: 10G0540-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-24
Sampled: 7/19/2010 14:40

Sample ID: 10G0540-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	15	0.73	mg/Kg dry	1		SW-846 6010B	7/20/10	7/20/10 17:51	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10G0540

Date Received: 7/19/2010

Field Sample #: CS-24
Sampled: 7/19/2010 14:40

Sample ID: 10G0540-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	7/20/10	7/20/10 16:37	VAF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0540-01 [CS-12]	B016485	20.0	2.00	07/20/10
10G0540-02 [CS-13]	B016485	20.0	2.00	07/20/10
10G0540-03 [CS-14]	B016485	20.2	2.00	07/20/10
10G0540-04 [CS-15]	B016485	20.2	2.00	07/20/10
10G0540-05 [CS-16]	B016485	20.1	2.00	07/20/10
10G0540-06 [CS-17]	B016485	20.2	2.00	07/20/10
10G0540-07 [CS-18]	B016485	20.1	2.00	07/20/10
10G0540-08 [CS-19]	B016485	20.2	2.00	07/20/10
10G0540-09 [CS-20]	B016485	20.0	2.00	07/20/10
10G0540-10 [CS-21]	B016485	20.1	2.00	07/20/10
10G0540-11 [DUP-3]	B016485	20.0	2.00	07/20/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10G0540-01 [CS-12]	B016487	07/20/10
10G0540-02 [CS-13]	B016487	07/20/10
10G0540-03 [CS-14]	B016487	07/20/10
10G0540-04 [CS-15]	B016487	07/20/10
10G0540-05 [CS-16]	B016487	07/20/10
10G0540-06 [CS-17]	B016487	07/20/10
10G0540-07 [CS-18]	B016487	07/20/10
10G0540-08 [CS-19]	B016487	07/20/10
10G0540-09 [CS-20]	B016487	07/20/10
10G0540-10 [CS-21]	B016487	07/20/10
10G0540-11 [DUP-3]	B016487	07/20/10
10G0540-12 [CS-22]	B016487	07/20/10
10G0540-13 [CS-23]	B016487	07/20/10
10G0540-14 [CS-24]	B016487	07/20/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0540-01 [CS-12]	B016453	0.934	50.0	07/19/10
10G0540-02 [CS-13]	B016453	0.979	50.0	07/19/10
10G0540-03 [CS-14]	B016453	0.975	50.0	07/19/10
10G0540-04 [CS-15]	B016453	1.08	50.0	07/19/10
10G0540-05 [CS-16]	B016453	0.943	50.0	07/19/10
10G0540-06 [CS-17]	B016453	1.03	50.0	07/19/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0540-07 [CS-18]	B016481	1.04	50.0	07/20/10
10G0540-08 [CS-19]	B016481	1.08	50.0	07/20/10
10G0540-09 [CS-20]	B016481	0.992	50.0	07/20/10
10G0540-10 [CS-21]	B016481	0.927	50.0	07/20/10
10G0540-11 [DUP-3]	B016481	1.09	50.0	07/20/10
10G0540-12 [CS-22]	B016481	0.923	50.0	07/20/10
10G0540-13 [CS-23]	B016481	1.00	50.0	07/20/10
10G0540-14 [CS-24]	B016481	1.08	50.0	07/20/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10G0540-01 [CS-12]	B016454	0.103	25.0	07/20/10
10G0540-02 [CS-13]	B016454	0.176	25.0	07/20/10
10G0540-03 [CS-14]	B016454	0.175	25.0	07/20/10
10G0540-04 [CS-15]	B016454	0.211	25.0	07/20/10
10G0540-05 [CS-16]	B016454	0.254	25.0	07/20/10
10G0540-06 [CS-17]	B016454	0.298	25.0	07/20/10
10G0540-07 [CS-18]	B016454	0.177	25.0	07/20/10
10G0540-08 [CS-19]	B016454	0.225	25.0	07/20/10
10G0540-09 [CS-20]	B016454	0.201	25.0	07/20/10
10G0540-10 [CS-21]	B016454	0.290	25.0	07/20/10
10G0540-11 [DUP-3]	B016454	0.225	25.0	07/20/10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016485 - SW-846 3546										
Blank (B016485-BLK1)				Prepared & Analyzed: 07/20/10						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.33*		mg/Kg wet	5.00		86.5	40-140			
Surrogate: o-Terphenyl (OTP)	*4.48*		mg/Kg wet	5.00		89.7	40-140			
Surrogate: 2-Bromonaphthalene	*5.35*		mg/Kg wet	5.00		107	40-140			
Surrogate: 2-Fluorobiphenyl	*5.30*		mg/Kg wet	5.00		106	40-140			
LCS (B016485-BS1)				Prepared & Analyzed: 07/20/10						
C9-C18 Aliphatics	27.7	10	mg/Kg wet	30.0		92.4	40-140			
C19-C36 Aliphatics	41.9	10	mg/Kg wet	40.0		105	40-140			
Unadjusted C11-C22 Aromatics	76.0	10	mg/Kg wet	85.0		89.5	40-140			
Acenaphthene	4.19	0.10	mg/Kg wet	5.00		83.9	40-140			
Acenaphthylene	4.24	0.10	mg/Kg wet	5.00		84.7	40-140			
Anthracene	4.42	0.10	mg/Kg wet	5.00		88.3	40-140			
Benzo(a)anthracene	4.49	0.10	mg/Kg wet	5.00		89.8	40-140			
Benzo(a)pyrene	4.18	0.10	mg/Kg wet	5.00		83.7	40-140			
Benzo(b)fluoranthene	4.40	0.10	mg/Kg wet	5.00		88.0	40-140			
Benzo(g,h,i)perylene	4.30	0.10	mg/Kg wet	5.00		86.0	40-140			
Benzo(k)fluoranthene	4.33	0.10	mg/Kg wet	5.00		86.5	40-140			
Chrysene	4.26	0.10	mg/Kg wet	5.00		85.1	40-140			
Dibenz(a,h)anthracene	4.26	0.10	mg/Kg wet	5.00		85.2	40-140			
Fluoranthene	4.32	0.10	mg/Kg wet	5.00		86.4	40-140			
Fluorene	4.29	0.10	mg/Kg wet	5.00		85.8	40-140			
Indeno(1,2,3-cd)pyrene	4.22	0.10	mg/Kg wet	5.00		84.4	40-140			
2-Methylnaphthalene	4.22	0.10	mg/Kg wet	5.00		84.4	40-140			
Naphthalene	4.02	0.10	mg/Kg wet	5.00		80.5	40-140			
Phenanthrene	4.38	0.10	mg/Kg wet	5.00		87.5	40-140			
Pyrene	4.47	0.10	mg/Kg wet	5.00		89.3	40-140			
n-Nonane	2.51	0.10	mg/Kg wet	5.00		50.2	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.10*		mg/Kg wet	5.00		82.0	40-140			
Surrogate: o-Terphenyl (OTP)	*4.22*		mg/Kg wet	5.00		84.4	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B016485 - SW-846 3546											
LCS (B016485-BS1)				Prepared & Analyzed: 07/20/10							
Surrogate: 2-Bromonaphthalene	*4.74*		mg/Kg wet	5.00		94.8		40-140			
Surrogate: 2-Fluorobiphenyl	*4.71*		mg/Kg wet	5.00		94.2		40-140			
LCS Dup (B016485-BSD1)				Prepared & Analyzed: 07/20/10							
C9-C18 Aliphatics	26.6	10	mg/Kg wet	30.0		88.8		40-140	3.99	25	
C19-C36 Aliphatics	40.0	10	mg/Kg wet	40.0		100		40-140	4.61	25	
Unadjusted C11-C22 Aromatics	69.2	10	mg/Kg wet	85.0		81.5		40-140	9.36	25	
Acenaphthene	3.79	0.10	mg/Kg wet	5.00		75.7		40-140	10.2	25	
Acenaphthylene	3.84	0.10	mg/Kg wet	5.00		76.7		40-140	9.89	25	
Anthracene	4.01	0.10	mg/Kg wet	5.00		80.2		40-140	9.70	25	
Benzo(a)anthracene	4.07	0.10	mg/Kg wet	5.00		81.4		40-140	9.87	25	
Benzo(a)pyrene	3.79	0.10	mg/Kg wet	5.00		75.8		40-140	9.92	25	
Benzo(b)fluoranthene	3.98	0.10	mg/Kg wet	5.00		79.5		40-140	10.0	25	
Benzo(g,h,i)perylene	3.92	0.10	mg/Kg wet	5.00		78.4		40-140	9.25	25	
Benzo(k)fluoranthene	3.93	0.10	mg/Kg wet	5.00		78.6		40-140	9.62	25	
Chrysene	3.86	0.10	mg/Kg wet	5.00		77.2		40-140	9.70	25	
Dibenz(a,h)anthracene	3.87	0.10	mg/Kg wet	5.00		77.4		40-140	9.62	25	
Fluoranthene	3.91	0.10	mg/Kg wet	5.00		78.2		40-140	9.97	25	
Fluorene	3.89	0.10	mg/Kg wet	5.00		77.9		40-140	9.65	25	
Indeno(1,2,3-cd)pyrene	3.83	0.10	mg/Kg wet	5.00		76.6		40-140	9.72	25	
2-Methylnaphthalene	3.81	0.10	mg/Kg wet	5.00		76.1		40-140	10.3	25	
Naphthalene	3.59	0.10	mg/Kg wet	5.00		71.8		40-140	11.4	25	
Phenanthrene	3.96	0.10	mg/Kg wet	5.00		79.1		40-140	10.1	25	
Pyrene	4.04	0.10	mg/Kg wet	5.00		80.8		40-140	10.0	25	
n-Nonane	2.36	0.10	mg/Kg wet	5.00		47.2		30-140	6.21	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.96*		mg/Kg wet	5.00		79.3		40-140			
Surrogate: o-Terphenyl (OTP)	*3.79*		mg/Kg wet	5.00		75.7		40-140			
Surrogate: 2-Bromonaphthalene	*4.32*		mg/Kg wet	5.00		86.3		40-140			
Surrogate: 2-Fluorobiphenyl	*4.31*		mg/Kg wet	5.00		86.2		40-140			
Matrix Spike (B016485-MS1)		**Source: 10G0540-01**		Prepared: 07/20/10 Analyzed: 07/21/10							
C9-C18 Aliphatics	21.9	11	mg/Kg dry	31.7	2.80	60.1		40-140			
C19-C36 Aliphatics	38.0	11	mg/Kg dry	42.3	5.32	77.2		40-140			
Unadjusted C11-C22 Aromatics	216	11	mg/Kg dry	89.9	27.3	**210**	*	40-140			MS-20
Acenaphthene	4.13	0.11	mg/Kg dry	5.29	0.00	78.1		40-140			
Acenaphthylene	6.33	0.11	mg/Kg dry	5.29	0.186	116		40-140			
Anthracene	7.56	0.11	mg/Kg dry	5.29	0.402	135		40-140			
Benzo(a)anthracene	7.45	0.11	mg/Kg dry	5.29	0.714	127		40-140			
Benzo(a)pyrene	5.99	0.11	mg/Kg dry	5.29	0.621	101		40-140			
Benzo(b)fluoranthene	6.90	0.11	mg/Kg dry	5.29	0.844	115		40-140			
Benzo(g,h,i)perylene	4.48	0.11	mg/Kg dry	5.29	0.388	77.4		40-140			
Benzo(k)fluoranthene	4.57	0.11	mg/Kg dry	5.29	0.290	80.9		40-140			
Chrysene	6.96	0.11	mg/Kg dry	5.29	0.705	118		40-140			
Dibenz(a,h)anthracene	3.25	0.11	mg/Kg dry	5.29	0.00	61.4		40-140			
Fluoranthene	14.9	0.11	mg/Kg dry	5.29	1.73	**250**	*	40-140			MS-12
Fluorene	6.50	0.11	mg/Kg dry	5.29	0.162	120		40-140			
Indeno(1,2,3-cd)pyrene	4.62	0.11	mg/Kg dry	5.29	0.372	80.3		40-140			
2-Methylnaphthalene	3.50	0.11	mg/Kg dry	5.29	0.00	66.1		40-140			
Naphthalene	3.02	0.11	mg/Kg dry	5.29	0.00	57.2		40-140			
Phenanthrene	18.5	0.11	mg/Kg dry	5.29	1.46	**321**	*	40-140			MS-11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B016485 - SW-846 3546												
Matrix Spike (B016485-MS1)		**Source: 10G0540-01**		Prepared: 07/20/10 Analyzed: 07/21/10								
Pyrene	14.5	0.11	mg/Kg dry	5.29	1.69	241	*	40-140				MS-11
n-Nonane	1.28	0.11	mg/Kg dry	5.29	0.00	24.3	*	30-140				MS-20
Surrogate: Chlorooctadecane (COD)	*3.40*		mg/Kg dry	5.29		64.2		40-140				
Surrogate: o-Terphenyl (OTP)	*3.99*		mg/Kg dry	5.29		75.4		40-140				
Surrogate: 2-Bromonaphthalene	*5.42*		mg/Kg dry	5.29		102		40-140				
Surrogate: 2-Fluorobiphenyl	*5.35*		mg/Kg dry	5.29		101		40-140				
Matrix Spike Dup (B016485-MSD1)		**Source: 10G0540-01**		Prepared: 07/20/10 Analyzed: 07/21/10								
C9-C18 Aliphatics	20.7	11	mg/Kg dry	31.6	2.80	56.7		40-140	5.45		50	
C19-C36 Aliphatics	32.0	11	mg/Kg dry	42.1	5.32	63.4		40-140	17.1		50	
Unadjusted C11-C22 Aromatics	152	11	mg/Kg dry	89.5	27.3	140		40-140	34.7		50	
Acenaphthene	3.33	0.11	mg/Kg dry	5.26	0.00	63.2		40-140	21.6		50	
Acenaphthylene	4.01	0.11	mg/Kg dry	5.26	0.186	72.7		40-140	44.8		50	
Anthracene	4.88	0.11	mg/Kg dry	5.26	0.402	85.0		40-140	43.2		50	
Benzo(a)anthracene	6.15	0.11	mg/Kg dry	5.26	0.714	103		40-140	19.1		50	
Benzo(a)pyrene	5.30	0.11	mg/Kg dry	5.26	0.621	88.9		40-140	12.2		50	
Benzo(b)fluoranthene	6.02	0.11	mg/Kg dry	5.26	0.844	98.4		40-140	13.6		50	
Benzo(g,h,i)perylene	4.36	0.11	mg/Kg dry	5.26	0.388	75.5		40-140	2.72		50	
Benzo(k)fluoranthene	4.23	0.11	mg/Kg dry	5.26	0.290	74.9		40-140	7.62		50	
Chrysene	5.62	0.11	mg/Kg dry	5.26	0.705	93.3		40-140	21.3		50	
Dibenz(a,h)anthracene	3.30	0.11	mg/Kg dry	5.26	0.00	62.6		40-140	1.34		50	
Fluoranthene	10.7	0.11	mg/Kg dry	5.26	1.73	171	*	40-140	32.9		50	MS-12
Fluorene	3.96	0.11	mg/Kg dry	5.26	0.162	72.0		40-140	48.7		50	
Indeno(1,2,3-cd)pyrene	4.40	0.11	mg/Kg dry	5.26	0.372	76.5		40-140	4.87		50	
2-Methylnaphthalene	3.27	0.11	mg/Kg dry	5.26	0.00	62.0		40-140	6.93		50	
Naphthalene	3.12	0.11	mg/Kg dry	5.26	0.00	59.2		40-140	2.96		50	
Phenanthrene	10.2	0.11	mg/Kg dry	5.26	1.46	166	*	40-140	57.7	*	50	MS-11, R-06
Pyrene	10.5	0.11	mg/Kg dry	5.26	1.69	167	*	40-140	32.1		50	MS-11
n-Nonane	1.63	0.11	mg/Kg dry	5.26	0.00	30.9		30-140	23.6		50	
Surrogate: Chlorooctadecane (COD)	*2.87*		mg/Kg dry	5.26		54.4		40-140				
Surrogate: o-Terphenyl (OTP)	*3.27*		mg/Kg dry	5.26		62.1		40-140				
Surrogate: 2-Bromonaphthalene	*4.94*		mg/Kg dry	5.26		93.9		40-140				
Surrogate: 2-Fluorobiphenyl	*4.89*		mg/Kg dry	5.26		92.8		40-140				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016453 - SW-846 3050B										
Blank (B016453-BLK1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B016453-BS1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Arsenic	56.7	2.5	mg/Kg wet	53.5		106	81.6-118.4			
Barium	175	2.5	mg/Kg wet	165		106	80.7-119.3			
Cadmium	131	0.25	mg/Kg wet	122		108	82.4-117.6			
Chromium	43.3	0.50	mg/Kg wet	40.3		108	78.8-120.7			
Lead	53.1	0.75	mg/Kg wet	53.5		99.3	79.1-120.3			
Selenium	96.1	5.0	mg/Kg wet	88.4		109	78.4-120.9			
Silver	21.7	0.50	mg/Kg wet	23.1		93.8	66.2-133.6			
LCS (B016453-BS2)				Prepared: 07/19/10 Analyzed: 07/20/10						
Lead	0.868	0.75	mg/Kg wet	0.750		116	79.1-120.3			
LCS Dup (B016453-BSD1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Arsenic	58.2	2.5	mg/Kg wet	53.5		109	81.6-118.4	2.47	30	
Barium	174	2.5	mg/Kg wet	165		105	80.7-119.3	0.640	30	
Cadmium	129	0.25	mg/Kg wet	122		106	82.4-117.6	1.69	30	
Chromium	43.5	0.50	mg/Kg wet	40.3		108	78.8-120.7	0.367	30	
Lead	56.2	0.75	mg/Kg wet	53.5		105	79.1-120.3	5.58	30	
Selenium	98.3	5.0	mg/Kg wet	88.5		111	78.4-120.9	2.24	30	
Silver	21.3	0.50	mg/Kg wet	23.1		92.1	66.2-133.6	1.78	30	
Batch B016454 - SW-846 7471A										
Blank (B016454-BLK1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B016454-BS1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Mercury	1.16	0.025	mg/Kg wet	0.972		119	66-132			
LCS Dup (B016454-BSD1)				Prepared: 07/19/10 Analyzed: 07/20/10						
Mercury	1.13	0.025	mg/Kg wet	0.935		121	66-132	2.49	30	
Batch B016481 - SW-846 3050B										
Blank (B016481-BLK1)				Prepared & Analyzed: 07/20/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B016481 - SW-846 3050B										
LCS (B016481-BS1)				Prepared & Analyzed: 07/20/10						
Arsenic	102	5.1	mg/Kg wet	109		93.4	81.6-118.4			
Barium	320	5.1	mg/Kg wet	338		94.7	80.7-119.3			
Cadmium	226	0.51	mg/Kg wet	249		90.6	82.4-117.6			
Chromium	75.2	1.0	mg/Kg wet	82.3		91.3	78.8-120.7			
Lead	96.7	1.5	mg/Kg wet	109		88.5	79.1-120.3			
Selenium	170	10	mg/Kg wet	181		94.1	78.4-120.9			
Silver	44.1	1.0	mg/Kg wet	47.2		93.4	66.2-133.6			
LCS (B016481-BS2)				Prepared & Analyzed: 07/20/10						
Lead	0.892	0.75	mg/Kg wet	0.750		119	79.1-120.3			
LCS Dup (B016481-BSD1)				Prepared & Analyzed: 07/20/10						
Arsenic	101	5.1	mg/Kg wet	108		93.1	81.6-118.4	1.37	30	
Barium	315	5.1	mg/Kg wet	334		94.2	80.7-119.3	1.50	30	
Cadmium	237	0.51	mg/Kg wet	247		96.2	82.4-117.6	4.93	30	
Chromium	75.9	1.0	mg/Kg wet	81.4		93.2	78.8-120.7	0.959	30	
Lead	95.8	1.5	mg/Kg wet	108		88.6	79.1-120.3	0.893	30	
Selenium	170	10	mg/Kg wet	179		94.9	78.4-120.9	0.167	30	
Silver	43.4	1.0	mg/Kg wet	46.7		93.1	66.2-133.6	1.41	30	
Duplicate (B016481-DUP1)		**Source: 10G0540-13**		Prepared & Analyzed: 07/20/10						
Arsenic	ND	2.8	mg/Kg dry		ND			NC	35	
Barium	34.0	2.8	mg/Kg dry		37.7			10.5	35	
Cadmium	ND	0.28	mg/Kg dry		ND			NC	35	
Chromium	7.11	0.56	mg/Kg dry		9.44			28.2	35	
Lead	21.0	0.84	mg/Kg dry		18.0			15.3	35	
Selenium	ND	5.6	mg/Kg dry		ND			NC	35	
Silver	ND	0.56	mg/Kg dry		ND			NC	35	
Matrix Spike (B016481-MS1)		**Source: 10G0540-13**		Prepared & Analyzed: 07/20/10						
Arsenic	23.7	2.4	mg/Kg dry	23.8	1.53	93.2	75-125			
Barium	60.5	2.4	mg/Kg dry	23.8	37.7	95.6	75-125			
Cadmium	22.4	0.24	mg/Kg dry	23.8	0.179	93.4	75-125			
Chromium	30.2	0.48	mg/Kg dry	23.8	9.44	87.1	75-125			
Lead	40.3	0.71	mg/Kg dry	23.8	18.0	93.6	75-125			
Selenium	22.0	4.8	mg/Kg dry	23.8	ND	92.2	75-125			
Silver	22.2	0.48	mg/Kg dry	23.8	ND	93.2	75-125			

con-test

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-20	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Outlier should be viewed as a one time anomaly. Analysis is in control based on laboratory fortified blank recovery.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publile Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1060540

Company Name: Weston + Sampson
Address:
Attention: George Naslas / Brian McCormack
Project Location: Former Chapman Valve
Sampled By: Laura Yellen

Telephone: 978 532-9050
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax # naslasg@cuseum.com
Email: mccormacb@weston.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPH w/ TPH (HT)	TOTAL RCRA 8 Metals (HT)	# of Containers	** Preservation	***Container Code
1060540-01	CS-12	7/19/10	1110			S	U	X	X			
-02	CS-13	↓	1120			↓	↓	X	X			
-03	CS-14		1125					X	X			
-04	CS-15		1145					X	X			
-05	CS-16		1155					X	X			
-06	CS-17		1330					X	X			
-07	CS-18		1335					X	X			
-08	CS-19		1340					X	X			
-09	CS-20		1345					X	X			
-10	CS-21	↓	1350			↓	↓	X	X			

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 7/19/10 1525
Received by: (signature)	Date/Time: 7-19-10 1525
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____

RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
◉ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Company Name: Weston + Sampson
Telephone: 978 532-1900
Address:
Project #
Client PO#
Attention: George Nastas / Brian McCormack
Project Location:
Sampled By: Laura Yellen

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email: Nastasg@wseas.com / Mccormackbr@wse.com
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPH w/ PAHs	Total RCRA 8 Metals	Total Lead									# of Containers	** Preservation	***Container Code
								J	J	J											
								H	H	I											
								A	A	A											
1060540-11	DUP-3	7/19/10	PM			S	4	X	X												
-12	CS-22	↓	1430			↓	↓			X											
-13	CS-23	↓	1435			↓	↓			X											
-14	CS-24	↓	1440			↓	↓			X											

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yellen	7/19/10 1525
Received by: (signature) 2.4	Date/Time: 7-19-10 1525
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
- ☐ 7-Day
- ☐ 10-Day
- ☐ Other ____

RUSH †
- ☐ †24-Hr ☒ †48-Hr
- ☐ †72-Hr ☐ †4-Day

† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
- ◉ MCP Analytical Certification Form Required
- O RCP Analysis Certification Form Required
- O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

*** Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

** Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

* Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: Vaton + Sampson RECEIVED BY: RB DATE: 7-19

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [C] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [4]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No

Temperature °C by Temp blank _____ Temperature °C by Temp gun 24

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: [ ]

7) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date 7-19 Time 1530

8) Location where samples are stored: [ ]

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	29
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10G0540
Project Location:	Former Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10G0540-01 thru 10G0540-14

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 07/21/10

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 30, 2010

George D. Naslas
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Former Chapman Valve
Client Job Number:
Project Number: -
Laboratory Work Order Number: 1011O639

Enclosed are results of analyses for samples received by the laboratory on August 23, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: George D. Naslas

REPORT DATE: 8/30/2010

PURCHASE ORDER NUMBER: -

PROJECT NUMBER: -

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10H0639

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Chapman Valve

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS-24	10H0639-01	Soil		SM 2540G	
				SW-846 6010B	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only lead was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10H0639
Date Received: 8/23/2010
Field Sample #: CS-24
Sampled: 7/19/2010 14:40
Sample ID: 10H0639-01
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	18	0.76	mg/Kg dry	1		SW-846 6010B	8/25/10	8/25/10 15:43	OP

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Chapman Valve
Sample Description:
Work Order: 10I10639

Date Received: 8/23/2010

Field Sample #: CS-24
Sampled: 7/19/2010 14:40

Sample ID: 10I10639-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	8/26/10	8/27/10 8:57	VAF

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10H0639-01 [CS-24]	B018338	08/26/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10H0639-01 [CS-24]	B018210	1.04	50.0	08/25/10

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B018210 - SW-846 3050B										
Blank (B018210-BLK1)				Prepared & Analyzed: 08/25/10						
Lead	ND	0.75	mg/Kg wet							
LCS (B018210-BS1)				Prepared & Analyzed: 08/25/10						
Lead	93.6	1.5	mg/Kg wet	104		90.0	79.1-120.3			
LCS (B018210-BS2)				Prepared & Analyzed: 08/25/10						
Lead	0.861	0.77	mg/Kg wet	0.768		112	80-120			
LCS Dup (B018210-BSD1)				Prepared & Analyzed: 08/25/10						
Lead	97.3	1.4	mg/Kg wet	102		95.2	79.1-120.3	3.88	30	
Matrix Spike (B018210-MS2)		Source: 10H0639-01		Prepared & Analyzed: 08/25/10						
Lead	42.8	0.76	mg/Kg dry	25.4	18.4	95.6	75-125			

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010B in Soil	
Lead	CT,NH,NY,AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston + Sampson
Address:
Attention: George Nastas / Brian McCormack
Project Location:
Sampled By: Laura Yellen

Telephone: 978 532-1900
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email: Nastasg@wseas.com mccormackbr@wse.com
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPH w/ hexane	Total KOH & Methanol	TOTAL Lead														# of Containers	** Preservation	***Container Code
								J	J	J																
								H	H	J																
								A	A	A																
10G0540-11	DUP-3	7/19/10	PM			S	4	X	X																	
-12	CS-22		1430							X																
-13	CS-23		1435							X																
-14	CS-24		1440							X																

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Comments: 8/20/10
Run matrix spike on CS-24 for lead.

Please use the following codes to let Con-Test know if a specific sample may be high in contamination in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Laura Yellen	7/19/10 1525
Received by: (signature) 2.4	Date/Time: 7-19-10 1525
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
O 7-Day
O 10-Day
O Other ____
RUSH †
O †24-Hr O †48-Hr
O †72-Hr O †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10H0639
Project Location:	Former Chapman Valve	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10H0639-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/30/10

Laboratory Data Qualifier and Resolution Summary Tables

Table C-1

Data Qualifier and Resolution Summary Table for Lab Report No. 912230

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
912230	RCRA 8 Metals	1	12/17/2009	Matrix Spike	Yes	Lead	M+	Matrix spike recovery is above the control limits so bias is on the high side	The LCS and LCSD recoveries for Lead are within control limits. No further action was taken.	No
912230	RCRA 8 Metals	1	12/17/2009	Reference	Yes	Mercury	R+	Standard reference material is biased high	The LCS and LCSD recoveries for Mercury are within control limits. No further action was taken.	No
912230	VOCs-8260	2	12/17/2009	Soil	Yes	Various VOC analytes	S+	Surrogate recovery is above the control limits so bias is on the high side	None of the analytes were detected above RLs and are not considered COCs, so no further action was taken.	No
912230	VOCs-8260	4	12/17/2009	Soil, Matrix Spike Duplicate	Yes	Various VOC analytes	SC	Surrogate recovery outside of criteria.	None of the analytes were detected above RLs and are not considered COCs, so no further action was taken.	No
912230	VOCs-8260	1	12/17/2009	Matrix Spike	Yes	Hexachlorobutadiene	M+	Matrix spike recovery is above the control limits so bias is on the high side	Hexachlorobutadiene was not detected above the RL and is not considered a COC, so no further action was taken.	No
912230	VOCs-8260	2	12/17/2009	Matrix Spike, Matrix Spike Duplicate	Yes	Hexachlorobutadiene	M-	Matrix spike recovery is below the control limits so bias is on the low side	Hexachlorobutadiene was not detected above the RL and is not considered a COC, so no further action was taken.	No
912230	VOCs-8260	1	12/17/2009	CCV	Yes	1,4-Dioxane	C-	Continuing calibration recovery is below lower control limit. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.	1,4-Dioxane was not detected above the RL and is not considered a COC, so no further action was taken.	No
912230	VOCs-8260	1	12/17/2009	CCV	Yes	Chloroethane	C+	Continuing calibration recovery is above upper control limit. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.	Chloroethane was not detected above the RL and is not considered a COC, so no further action was taken.	No
912230	PCBs-8082	1	12/17/2009	Matrix Spike	Yes	Aroclor 1016	M-	Matrix spike recovery is below the control limits so bias is on the low side	Aroclor 1016 was not detected above RL and is not considered a COC, so no further action was taken.	No
912230	PCBs-8082	1	12/17/2009	Matrix Spike Duplicate	Yes	Aroclor 1260	M-	Matrix spike recovery is below the control limits so bias is on the low side	The LCS and LCSD recoveries for Aroclor 1260 are within control limits. No further action was taken.	No
912230	PCBs-8082	1	12/17/2009	Matrix Spike	Yes	Decachlorobiphenyl	S-	Surrogate recovery is below the control limits so bias is on the low side	Decachlorobiphenyl was not detected above RL and is not considered a COC, so no further action was taken.	No
912230	EPH-04-1.1	4	12/17/2009	Soil	Yes	1-Chlorooctodecane	SC	Surrogate recovery outside of criteria.	1-Chlorooctodecane was not detected above RL and is not considered a COC, so no further action was taken.	No
912230	EPH-04-1.1	2	12/17/2009	Soil	Yes	O-Terphenyl	S-	Surrogate recovery is below the control limits so bias is on the low side	O-Terphenyl was not detected above RL and is not considered a COC, so no further action was taken.	No
912230	EPH-04-1.1	1	12/17/2009	Soil	Yes	Various EPH analytes	D+	Relative percent difference for duplicate is outside of criteria	None of the analytes were detected above RLs and are not considered COCs, so no further action was taken.	No
912230	EPH-04-1.1	1	12/17/2009	Laboratory Control Sample Duplicate	Yes	C19-C36 Aliphatics	D+	Relative percent difference for duplicate is outside of criteria. Reduced precision is anticipated for any reported value for this analyte.	Surrogate and matrix spike recoveries are within control, indicating that accuracy is maintained for the analyte. No further action was taken.	No
912230	EPH-04-1.1	1	12/17/2009	Laboratory Control Sample Duplicate	Yes	C9-C18 Aliphatics	B-	Blank spike recovery is below lower control limit	C9-C18 Aliphatics was not detected above RL and is not considered a COC, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
COC - Contaminant of Concern
CCV - Continuing Calibration Value

Table C-2

Data Qualifier and Resolution Summary Table for Lab Report No. 1006343

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
1006343	EPH-04-1.1	1	6/21/2010	Matrix Spike	Yes	Fluoranthene	M-	Matrix spike recovery is below the control limits so bias is on the low side	The LCS and LCSD recoveries for Fluoranthene are within control limits. No further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
COC - Contaminant of Concern

Table C-3

Data Qualifier and Resolution Summary Table for Lab Report No. 1006324

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
1006324	RCRA 8 Metals	4	6/21/2010	Matrix Spike, Matrix Spike Duplicate	Yes	Mercury	M+	Matrix spike recovery is above the control limits so bias is on the high side	The LCS and LCSD recoveries for Mercury are within control limits. No further action was taken.	No
1006324	RCRA 8 Metals	1	6/21/2010	Matrix Spike	Yes	Arsenic, Barium, Lead, Silver	M-	Matrix spike recovery is below the control limits so bias is on the low side	Percent recoveries for the LCS/LCSD and the second matrix spike for these analytes are within control limits. Relative percent difference for LCSD is within the criteria. No further action was taken.	No
1006324	RCRA 8 Metals	1	6/21/2010	Duplicate	Yes	Barium, Lead, Silver	D+	Relative percent difference for duplicate is outside of criteria	Relative percent difference for the second duplicate is within the criteria.	No
1006324	VOCs-8260	1	6/21/2010	Laboratory Control Sample Duplicate	Yes	Diethyl Ether	D+	Relative percent difference for duplicate is outside of criteria	Diethyl Ether was not detected, so no further action was taken.	No
1006324	SVOCs-8270C	2	6/21/2010	Soil, Matrix Spike	Yes	2-Fluorophenol	S-	Surrogate recovery is below the control limits so bias is on the low side	2-Fluorophenol was not detected above RL and is not considered a COC, so no further action was taken.	No
1006324	SVOCs-8270C	2	6/21/2010	Laboratory Control Sample, Laboratory Control Sample Duplicate	Yes	N-Nitrosodimethylamine	B-	Blank spike recovery is below lower control limit	N-Nitrosodimethylamine was not detected above RL and is not considered a COC, so no further action was taken.	No
1006324	SVOCs-8270C	2	6/21/2010	Matrix Spike, Matrix Spike Duplicate	Yes	Various SVOC analytes	M-	Matrix spike recovery is below the control limits so bias is on the low side	None of the analytes were detected above RLs and are not considered COCs, so no further action was taken.	No
1006324	SVOCs-8270C	1	6/21/2010	Matrix Spike Duplicate	Yes	1,3 Dichlorobenzene	D+	Relative percent difference for duplicate is outside of criteria	1,3 Dichlorobenzene was not detected, so no further action was taken.	No
1006324	SVOCs-8270C	1	6/21/2010	CCV	Yes	N-Nitrosodimethylamine	C-	Continuing calibration recovery is below lower control limit. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.	N-Nitrosodimethylamine was not detected above the RL and is not considered a COC, so no further action was taken.	No
1006324	SVOCs-8270C	1	6/21/2010	CCV	Yes	2-Methylnaphthalene	C+	Continuing calibration recovery is above upper control limit. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.	2-Methylnaphthalene was detected above the RL but below the Method 1 cleanup standard of 300 mg/kg, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
CCV - Continuing Calibration Value
COC - Contaminant of Concern

Table C-4

Data Qualifier and Resolution Summary Table for Lab Report No. 1006342

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
1006342	VOCs-8260	1	6/21/2010	Soil	Yes	NA	None	Internal standard response was low for the sample due to high soil weight. Sample did not purge properly.	VOCs were not detected, so no further action was taken.	No
1006342	VOCs-8260	1	6/21/2010	Soil	Yes	Various VOC analytes	I	Internal standard outside of criteria	VOCs were not detected, so no further action was taken.	No
1006342	SVOCs-8270C	5	6/21/2010	Soil	Yes	2-Fluorophenol	S-	Surrogate recovery is below the control limits so bias is on the low side	2-Fluorophenol was not detected above RL and is not considered a COC, so no further action was taken.	No
1006342	SVOCs-8270C	2	6/21/2010	Laboratory Control Sample, Laboratory Control Sample Duplicate	Yes	N-Nitrosodimethylamine	B-	Blank spike recovery is below lower control limit	N-Nitrosodimethylamine was not detected above RL and is not considered a COC, so no further action was taken.	No
1006342	SVOCs-8270C	1	6/21/2010	CCV	Yes	N-Nitrosodimethylamine	C-	Continuing calibration recovery is below lower control limit. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.	N-Nitrosodimethylamine was not detected above the RL and is not considered a COC, so no further action was taken.	No
1006342	SVOCs-8270C	1	6/21/2010	CCV	Yes	2-Methylnaphthalene	C+	Continuing calibration recovery is above upper control limit. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.	2-Methylnaphthalene was detected above the RL but below the Method 1 cleanup standard of 300 mg/kg, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
COC - Contaminant of Concern

Table C-5

Data Qualifier and Resolution Summary Table for Lab Report No. 10G0165

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10G0165	VOCs-8260	1	7/6/2010	Blank Spike Duplicate	Yes	Isopropylbenzene (Cumene), 1,2,3-Trichlorobenzene	L-07	LFB/LCS or duplicate recovery outisde of control limits. No bias expected because the RPD between the two LFB/LCS results is within method specified criteria.	Isopropylbenzene (Cumene) and 1,2,3-Trichlorobenzene were not detected above the RLs. No further action was taken.	No
10G0165	VOCs-8260	1	7/6/2010	Blank Spike	Yes	Bromomethane	L-07A	LFB/LCS or duplicate recovery outside of control limits. RPD outisde of control limits. Reduced precision is anticipated for any reported value for this compound.	Bromomethane was not detected, so no further action was taken.	No
10G0165	VOCs-8260	4	7/6/2010	Soil, Blank, Blank Spike, Blank Spike Duplicate	Yes	Bromomethane	R-05	LFB duplicate is outside of control limits. RPD outisde of control limits. Reduced precision is anticipated for any reported value for this compound.	Bromomethane was not detected, so no further action was taken.	No
10G0165	VOCs-8260	2	7/6/2010	Blank Spike, Blank Spike Duplicate	Yes	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene	V-06	Continuing calibration did not meet method specification and was biased on the high side. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.	1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene were not detected above the RLs. No further action was taken.	No
10G0165	VOCs-8260	4	7/6/2010	Soil, Blank, Blank Spike, Blank Spike Duplicate	Yes	Various VOC analytes	V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.	None of the analytes were detected above RLs and are not considered COCs, so no further action was taken.	No
10G0165	VOCs-8260	Various	7/6/2010	Soil	Yes	Various VOC analytes	none	CAM reporting limits were not met for some compounds because these levels were not supported by the lowest point of the calibration.	VOC analytes were not detected above RLs and are not considered COCs, so no further action was taken.	No
10G0165	SVOCs-8270C	1	7/6/2010	Blank Spike Duplicate	Yes	Di-n-octylphthalate	L-07	LFB/LCS or duplicate recovery outisde of control limits. No bias expected because the RPD between the two LFB/LCS results is within method specified criteria.	Di-n-octylphthalate was not detected above the RL. No further action was taken.	No
10G0165	SVOCs-8270C	4	7/6/2010	Soil, Blank, Blank Spike, Blank Spike Duplicate	Yes	2-Methylphenol	R-05	LFB duplicate is outside of control limits. RPD outisde of control limits. Reduced precision is anticipated for any reported value for this compound.	2-Methylphenol was not detected, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
RPD - Relative Percent Difference
LFB/LCS - Laboratory Fortified Blank/Laboratory Control Sample
COC - Contaminant of Concern

Table C-6

Data Qualifier and Resolution Summary Table for Lab Report No. 10H0635

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10H0635	RCRA 8 Metals	2	7/6/2010	Soil, Matrix Spike	Yes	Lead	MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated	Lead was not detected above the Method 1 cleanup standard of 300 mg/kg. The LCS and LCSD recoveries for lead were within control limits, so no further action was taken.	No
10H0635	RCRA 8 Metals	1	7/6/2010	Duplicate	Yes	Lead	Z-01	Serial dilution is outside control limits. Increased variability in reported results cannot be eliminated.	The LCS and LCSD recoveries for Lead are within control limits. No further action was taken.	No
10H0635	RCRA 8 Metals	1	7/6/2010	Soil	Yes	Mercury	H-10	Analysis was requested after the recommended holding time had passed.	The recommended holding time of 28 days was exceeded by 20 days. The LCS/LCSD and matrix spike recoveries for mercury were within control limits, and the RPDs for the LCSD and Duplicate samples were within the control limits. Mercury was not detected above the Method 1 cleanup standard of 20 mg/kg, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
RPD - Relative Percent Difference
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
COC - Contaminant of Concern

Table C-7

Data Qualifier and Resolution Summary Table for Lab Report No. 10H0637

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10H0637	RCRA 8 Metals	1	7/9/2010	Soil	Yes	Mercury	H-10	Analysis was requested after the recommended holding time had passed.	Mercury was not detected, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
COC - Contaminant of Concern

Table C-8

Data Qualifier and Resolution Summary Table for Lab Report No. 10G0423

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10G0423	EPH-04-1.1	Various	7/13/2010	Various	Yes	Various EPH analytes	None	Not all CAM reporting limits were met due to dilution required for high levels of target analytes.	Although CAM RLs were not met, the RLs reported were of sufficient sensitivity to compare the data to applicable cleanup standards.	No
10G0423	EPH-04-1.1	8	7/13/2010	Soil, Blank, Blank Spike, Blank Spike Duplicate	Yes	C9-C18 Aliphatics, n-Nonane	R-05	LFB duplicate is outside of control limits. RPD outisde of control limits. Reduced precision is anticipated for any reported value for this compound.	Surrogate recoveries for EPH were within control limits. C9-C18 Aliphatics were detected at a concentration (16 mg/kg) considerably lower than the Method 1 cleanup standard of 1,000 mg/kg and n-Nonane was not detected, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
RPD - Relative Percent Difference
LFB - Laboratory Fortified Blank
COC - Contaminant of Concern

Table C-9

Data Qualifier and Resolution Summary Table for Lab Report No. 10H0638

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10H0638	RCRA 8 Metals	2	7/13/2010	Soil, Matrix Spike	Yes	Barium	MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous aliquots cannot be eliminated.	The LCS and LCSD recoveries for barium were within control limits, so no further action was taken.	No
10H0638	RCRA 8 Metals	1	7/13/2010	Soil	Yes	Mercury	H-10	Analysis was requested after the recommended holding time had passed.	The recommended holding time of 28 days was exceeded by 13 days. The LCS/LCSD and matrix spike recoveries for mercury were within control limits, and the RPD for the LCSD was within the control limits. Mercury was not detected above the Method 1 cleanup standard of 20 mg/kg, so no further action was taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
RPD - Relative Percent Difference
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
COC - Contaminant of Concern

Table C-10

Data Qualifier and Resolution Summary Table for Lab Report No. 10G0556

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10G0556	SW-846 7196A	3	7/20/2010	Soil	Yes	NA	T-06	Samples were not received by the lab within the temperature compliance range of 2-6 deg.C	Samples were received directly from the field and were on ice. No further action was taken.	No
10G0556	SW-846 7196A	3	7/20/2010	Soil	Yes	Hexavalent Chromium	W-06	Elevated method detection limit due to intense color of sample. CAM reporting limit was not met.	Elevated method detection limit did not exceed Method 1 S-1 cleanup standard for hexavalent chromium. Sensitivity is sufficient to use the data.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
COC - Contaminant of Concern

Table C-11

Data Qualifier and Resolution Summary Table for Lab Report No. 10H0640

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10H0640	SM 2540G, SM2580A, SW-846 6010B, SW-846 7196A, SW-846 9045D	7	7/20/2010	Soil, Duplicate, Matrix Spike, Matrix Spike Duplicate	Yes	Hexavalent Chromium, ORP, pH	H-10	Analysis was requested after the recommended holding time had passed.	Hexavent chromium was not detected. ORP and pH analysis is performed to support the analysis of Hexavalent Chromium. No further action was taken.	No
10H0640	SW-846 7196A	1	7/20/2010	Duplicate	Yes	Chromium	M-07	Result is serial dilution as per CAM Regulation.	The LCS/LCSD and matrix spike recoveries for Chromium are within control limits, and the RPD for the LCSD is within the control limit. No further action was taken.	No
10H0640	SW-846 6010B	4	7/20/2010	Soil, Matrix Spike, Matrix Spike Duplicate	Yes	Hexavalent Chromium	MS-16	Matrix spike outside of control limits.	pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
RPD - Relative Percent Difference
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
COC - Contaminant of Concern

Table C-12

Data Qualifier and Resolution Summary Table for Lab Report No. 10G0540

LIMS Number	CAM Protocol	No. of Samples	Date Collected	Sample Type	CAM Compliant	Analyte(s) Qualified	Lab Flag/Qualifier ID	Qualifier Description and Data Bias	Resolution	Data Usability Issue
10G0540	EPH-04-1.1	2	7/19/2010	Matrix Spike, Matrix Spike Duplicate	Yes	Phenanthrene, Pyrene	MS-11	Matrix Spike recovery outside of control limits. Possibility of sample matrix effects that lead to high bias for reported result.	The LCS and LCSD recoveries for Phenanthrene and Pyrene are within control limits. No further action was taken.	No
10G0540	EPH-04-1.1	2	7/19/2010	Matrix Spike, Matrix Spike Duplicate	Yes	Fluoranthene	MS-12	Matrix Spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to high bias for reported result.	The LCS and LCSD recoveries for Fluoranthene are within control limits. No further action was taken.	No
10G0540	EPH-04-1.1	1	7/19/2010	Matrix Spike	Yes	n-Nonane, Unadjusted C11-C22 Aromatics	MS-20	Either matrix spike or matrix spike duplicate is outside of control limits. Possibility of sample matrix effects that lead to high bias for reported result.	Outlier should be viewed as a one time anomaly. Analysis is in control based on laboratory fortified blank recovery.	No
10G0540	EPH-04-1.1	1	7/19/2010	Matrix Spike Duplicate	Yes	Phenanthrene	R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.	The LCS/LCSD recoveries for Phenanthrene are within control limits, and the RPD for LCSD is within the criteria. No further action taken.	No

QA/QC by JSC 12/XX/2010

Notes and Laboratory Flag/Qualifier Summary:
RL - Reporting Limit
RPD - Relative Percent Difference
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
COC - Contaminant of Concern