

Voluntary Cleanup Program

Progress Report

August 2010

Former Churchville Ford Site (#V00658-8)
111 South Main Street
Village of Churchville
Monroe County, New York

This progress report covers the month of August 2010.

Activities Relative to Site for Period

Previous in-situ chemox injection activities and SVI sampling activities are summarized in previous monthly progress reports. No Site activities were conducted from April through July 2010.

On August 17, 2010, the first round of post-injection semi-annual groundwater samples were collected in accordance with the procedures outlined in the approved RAWP. Seven Site monitoring wells were sampled including: MW-JCL-01, MW-JCL-02, MW-JCL-03, MW-1, MW-3, MW-6 and MW-13. A minimum of 3 well volumes were purged from each well prior to sample collection by disposable bailer. QC samples (duplicate and MS/MSD) were also collected as per Table 1 of the QAPP, an attachment to the RAWP. Samples were relinquished to Paradigm Environmental Services laboratory for analysis of TCL VOCs by EPA Method 8260, and the metals iron and manganese.

The analytical data from the March 2010 SVI sampling event was sent out for third party validation/DUSR services at EDV Inc. in August.

Activities Anticipated for Next Period

No on Site activities are planned for next month. A letter interpreting the results of the SVI sampling and findings of the validation/DUSR will be issued in the month of September.

Approved Site Activity Modifications

There were no modifications made to Site activities during this period.

Sampling/Testing Results

Groundwater sample analytical results are included as an attachment to this report. Sample results were compared to the NYSDEC Part 703 standards for class GA water. The constituents detected at concentrations exceeding Part 703 standards are summarized below:

<u>Well</u>	<u>Parameter(s) exceeding applicable regulatory limit</u>
MW-JCL-01(including Dup)	no VOCs/no TICs; exceeds for Fe&Mn
MW-JCL-02(in source area)	1,2-DCE @ 29 ppb; TCE @ 23.1 ppb/ no TICs; exceeds for Fe&Mn
MW-JCL-03	no VOCs/no TICs; exceeds for Fe&Mn
MW-1(in source area)	2-Butanone(MEK) @ 9.14 ppb/ no TICs; exceeds for Fe&Mn
MW-3(in source area)	2-Butanone(MEK) @ 7.53 ppb; dichlorodifluoromethane (Freon-R12) @ 98.2 ppb; PCE @ 16.2 ppb/ no TICs; exceeds for Fe&Mn
MW-6	2-Butanone(MEK) @ 5.35 ppb (estimated value); exceeds for Fe&Mn
MW-13	no VOCs/no TICs; exceeds for Fe&Mn

It is noted that the highest concentration of iron was detected in well MW-JCL-03, located up-gradient of the contaminant source and considered representative of background concentrations for the Site. The highest concentration of manganese was detected in well MW-1 in the source area, resulting from the permanganate injection process. It is also noted that the chemical dichlorodifluoromethane (Freon, R12) has not previously been detected by Lu Engineers in the source area.



LAB REPORT FOR METALS ANALYSIS IN WATER

Client: Lu Engineers

Lab Project No.: 10-3367A

Client Job Site: Churchville Ford

Sample Type: Water

Client Job No.: 5701-11

Method: EPA 6010

Date Sampled: 08/17/2010

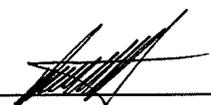
Date Received: 08/18/2010

Date Analyzed: 08/26-30/2010

Lab Sample No.	Field ID No.	Field Location	Iron Results (mg/L)	Manganese Results (mg/L)
11063	N/A	CF-MW-JCL-02	0.145	0.622
11064	N/A	CF-MW-01	<0.500	117
11065	N/A	CF-MW-JCL-03	8.61	0.187
11066	N/A	CF-MW-6	3.76	78.0
11067	N/A	CF-MW-JCL-01	0.639	0.029
11068	N/A	CF-MW-JCL-01 DUP	0.683	0.027
11069	N/A	CF-MW-13	1.79	0.501
11070	N/A	CF-MW-3	0.468	24.6

ELAP ID No.:10958

Comments:

Approved By: 
Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford
 Client Job Number: 5701-11
 Field Location: CF-MW-JCL-02
 Field ID Number: N/A
 Sample Type: Water

Lab Project Number: 10-3367A
 Lab Sample Number: 11063
 Date Sampled: 08/17/2010
 Date Received: 08/18/2010
 Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	ND< 10.0
Benzene	ND< 0.700
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	ND< 10.0
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 5.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	29.0
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	2.68
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	23.1
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

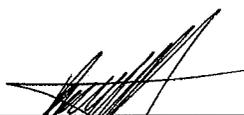
ELAP Number 10958

Method: EPA 8260B

Data File: V77860.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____



Bruce Hoogesteger: Technical Director



Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11063

Client Job Number: 5701-11

Field Location: CF-MW-JCL-02

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND < 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77860.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers
Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11064

Client Job Number: 5701-11

Field Location: CF-MW-01

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	104
Benzene	0.786
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	J 9.14
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	J 4.50
1,1-Dichloroethane	J 1.17
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	J 1.71
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V77861.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:



Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11064

Client Job Number: 5701-11

Field Location: CF-MW-01

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77861.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers
Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11065

Client Job Number: 5701-11

Field Location: CF-MW-JCL-03

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	ND< 10.0
Benzene	ND< 0.700
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	ND< 10.0
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 5.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

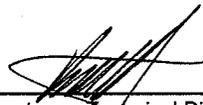
Data File: V77862.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

Matrix spike outliers indicate probable matrix interference

Signature: _____


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11065

Client Job Number: 5701-11

Field Location: CF-MW-JCL-03

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77862.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
Matrix spike outliers indicate probable matrix interference

Signature: _____


Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers
Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11066

Client Job Number: 5701-11

Field Location: CF-MW-6

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	B 62.2
Benzene	J 0.383
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	J 5.35
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	J 1.46
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	J 3.80
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

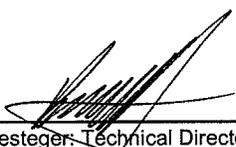
ELAP Number 10958

Method: EPA 8260B

Data File: V77865.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:



 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11066

Client Job Number: 5701-11

Field Location: CF-MW-6

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND < 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77865.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford
Client Job Number: 5701-11
Field Location: CF-MW-JCL-01
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-3367A
Lab Sample Number: 11067
Date Sampled: 08/17/2010
Date Received: 08/18/2010
Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	ND< 10.0
Benzene	ND< 0.700
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	ND< 10.0
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 5.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V77866.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____



Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11067

Client Job Number: 5701-11

Field Location: CF-MW-JCL-01

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77866.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site: Churchville Ford
 Client Job Number: 5701-11
 Field Location: CF-MW-JCL-01 DUP
 Field ID Number: N/A
 Sample Type: Water

Lab Project Number: 10-3367A
 Lab Sample Number: 11068
 Date Sampled: 08/17/2010
 Date Received: 08/18/2010
 Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	ND< 10.0
Benzene	ND< 0.700
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	ND< 10.0
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 5.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V77867.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____



Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford
Client Job Number: 5701-11
Field Location: CF-MW-JCL-01 DUP
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 10-3367A
Lab Sample Number: 11068
Date Sampled: 08/17/2010
Date Received: 08/18/2010
Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 5.00	N/A

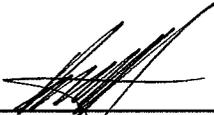
ELAP Number 10958

Method: EPA 8260B

Data File: V77867.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: Lu Engineers
Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11069

Client Job Number: 5701-11

Field Location: CF-MW-13

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	J B 6.94
Benzene	ND< 0.700
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	ND< 10.0
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 5.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

Method: EPA 8260B

Data File: V77868.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature:



 Bruce Hoogesteger, Technical Director

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103367V7.XLS

Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11069

Client Job Number: 5701-11

Field Location: CF-MW-13

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 5.00	N/A

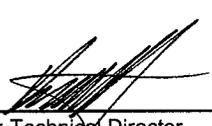
ELAP Number 10958

Method: EPA 8260B

Data File: V77868.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: Lu Engineers
Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11070

Client Job Number: 5701-11

Field Location: CF-MW-3

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	B 52.9
Benzene	0.742
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	J 7.53
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	J 1.17
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	98.2
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	16.2
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

ELAP Number 10958

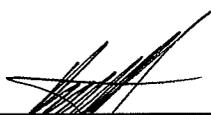
Method: EPA 8260B

Data File: V77869.D

Comments: ND denotes Non Detect

ug / L = microgram per Liter

Signature:



 Bruce Hoogesteger: Technical Director

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103367V8.XLS

Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11070

Client Job Number: 5701-11

Field Location: CF-MW-3

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND < 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77869.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: Lu Engineers

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11071

Client Job Number: 5701-11

Field Location: Trip Blank T212

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Compound	Results in ug / L
Acetone	B 23.7
Benzene	ND< 0.700
Bromochloromethane	ND< 5.00
Bromodichloromethane	ND< 2.00
Bromoform	ND< 5.00
Bromomethane	ND< 2.00
2-Butanone	ND< 10.0
Carbon disulfide	ND< 5.00
Carbon Tetrachloride	ND< 2.00
Chlorobenzene	ND< 2.00
Chloroethane	ND< 2.00
Chloroform	ND< 2.00
Chloromethane	ND< 2.00
Cyclohexane	ND< 10.0
Dibromochloromethane	ND< 2.00
1,2-Dibromo-3-Chloropropane	ND< 10.0
1,2-Dibromoethane	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00
Dichlorodifluoromethane	ND< 5.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	ND< 2.00
trans-1,2-Dichloroethene	ND< 2.00

Compound	Results in ug / L
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Ethylbenzene	ND< 2.00
2-Hexanone	ND< 5.00
Isopropylbenzene	ND< 5.00
Methyl acetate	ND< 2.00
Methyl tert-butyl Ether	ND< 2.00
Methylcyclohexane	ND< 2.00
Methylene chloride	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00
Styrene	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
Toluene	ND< 2.00
Freon 113	ND< 2.00
1,2,3-Trichlorobenzene	ND< 5.00
1,2,4-Trichlorobenzene	ND< 5.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl chloride	ND< 2.00
m,p-Xylene	ND< 2.00
o-Xylene	ND< 2.00

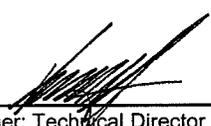
ELAP Number 10958

Method: EPA 8260B

Data File: V77870.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Non-potable Water

Client: **Lu Engineers**

Client Job Site: Churchville Ford

Lab Project Number: 10-3367A

Lab Sample Number: 11071

Client Job Number: 5701-11

Field Location: Trip Blank T212

Date Sampled: 08/17/2010

Field ID Number: N/A

Date Received: 08/18/2010

Sample Type: Water

Date Analyzed: 08/26/2010

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 5.00	N/A

ELAP Number 10958

Method: EPA 8260B

Data File: V77870.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____


Bruce Hoogesteger: Technical Director

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CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: Lu Engineers	COMPANY: Same	LAB PROJECT # 10-3387A	CLIENT PROJECT # 5701-11
ADDRESS: 175 Sally's Trail, Suite 202	ADDRESS: 175 Sally's Trail, Suite 202	TURNAROUND TIME: (WORKING DAYS) 10 day per quote. EPH 8/18	
CITY: D.H.S Ford	CITY: NY		
STATE: NY	STATE: NY		
ZIP: 14534	ZIP: 14534		
PHONE: 385-7417	PHONE: 385-7417		
FAX: 	FAX: 		
ATTN: Eric Detweiler	ATTN: 		
COMMENTS: *Please provide Excel EDD	REQUESTED ANALYSIS: *P.O. 424498	Quotation # MSO20310A	

DATE	TIME	COMPOSITE	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A M I N A T I O N S	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/17/10	15:20	X	X	CF-MW-JCL-02	W	3	8260 TCL VEGS Fe Mn	11063
8/17/10	15:10	X	X	CF-MW-01	W	3		11064
8/17/10	13:40	X	X	CF-MW-JCL-03	W	3		11065
		X	X	CF-MW-JCL-03MS	W	3		11066
		X	X	CF-MW-JCL-03MSD	W	3		11067
		X	X	CF-MW-6	W	3		11068
		X	X	CF-MW-JCL-01	W	3		11069
		X	X	CF-MW-JCL-01DUP	W	3		11070
		X	X	CF-MW-13	W	3		11071
		X	X	CF-MW-3	W	3		11072

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter: **NELAC Compliance**

Container Type: Y N

Preservation: Y N

Holding Time: Y N

Temperature: Y N

Comments: **10°C iced from temp - Pres. begun in field**

Blank @ 8/17/10 EPH

Sampled By: **Eric Detweiler** Date/Time: **8/17/10 4:55**

Relinquished By: **Stanna Macbever** Date/Time: **8/17/10 4:55**

Received By: **Elizabeth A. Honck** Date/Time: **8/17/10 16:55**

Received @ Lab By: **Elizabeth A. Honck** Date/Time: **8/17/10 17:40**

Comments: **Per ASP Request Form and E. Detweiler in email 8/18, do 8260 TCL ASP 2008 plus TGS, EPH 8/18**

Per ASP Request Form and E. Detweiler in email 8/18, do 8260 TCL ASP 2008 plus TGS, EPH 8/18

Quotation # MSO20310A

LAB PROJECT # 10-3387A

CLIENT PROJECT # 5701-11

TURNAROUND TIME: (WORKING DAYS) 10 day per quote. EPH 8/18

Total Cost:

P.L.F.



CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY: Lu Engineers	ADDRESS:	COMPANY: Same	ADDRESS:
CITY:	STATE:	CITY:	STATE:
PHONE:	FAX:	PHONE:	FAX:
ATTN: Eric Detweiler	ATTN:	LAB PROJECT #: 10.3337A	CLIENT PROJECT #: 5701-11
PROJECT NAME/SITE NAME: Churchville Ford	COMMENTS: ASP Cat B, Excel EDD	TURNAROUND TIME: (WORKING DAYS)	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input type="checkbox"/> 10 <input type="checkbox"/>
PO # 424498	REQUESTED ANALYSIS	Quotation # MS02030A	STD OTHER

DATE	TIME	COMPOSITE	GRADES	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
18/7/10				Trip Blank T212	W	1	8260 TCL ASP 2008 plus TCS	11071
2							Add trip blank to COC and analyze for VOCs ASP 2008 plus TCS, per E. Detweiler 8/18 in email.	
3								
4								
5								
6								
7								
8								
9								
10								

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/EIAP 210/241/242/243/244

Receipt Parameter: _____ NELAC Compliance

Container Type: Y N

Comments: _____

Preservation: Y N

Comments: _____

Holding Time: Y N

Comments: _____

Temperature: Y N

Comments: 10°C iced from temp blank @ 1730 8/17/10 - pres begun in field

Received By: Elizabeth A. Homck 8/17/10 1740

Relinquished By: _____ Date/Time: _____

Received @ Lab By: Elizabeth A. Homck 8/18/10 1145

P.I.F.

Total Cost: