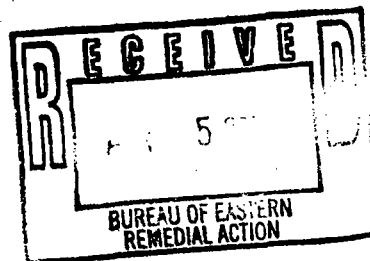




Crossroads Corporate Center
One International Boulevard
Suite 700
Mahwah, NJ 07495-0086
Tel. 201.512.5700
Fax. 201.512.5786

April 4, 2000
Project 804219

Michael J. Komoroske, P.E.
New York State Department of Environmental Conservation
Bureau of Eastern Remedial Action, Room 242
50 Wolf Road
Albany, New York 12233-7010



Re: Mary Harriman Park-Standby Contract D003666-25
Surface Water Sampling REPORT

Dear Mr. Komoroske:

Pursuant to your request, IT Corporation completed surface water sampling on March 14, 2000 from 4 discrete locations at the pond at the Mary Harriman Park. The approximate location of the samples are shown on the attached map. The samples were obtained using a stainless steel bucket which enabled the collection of sufficient sample volume with minimal disturbance of bottom sediments. Trip and field blanks were also performed. The field blank was performed by rinsing the stainless steel bucket with water provided by the laboratory and pouring the water into the sample jars.

The samples were submitted to Columbia Analytical Services of Rochester, New York, a State-certified analytical laboratory for analysis of Target Compound List organic and Target Analyte List metals, and cyanide. Summary data sheets are provided as Attachment 1. The full data packages will be provided to you under separate cover.

An evaluation of the surface water chemistry of the pond is provided below.

Organic Compounds

The results of the analysis indicate that there were no detections of any targeted organic constituents. This included pyridine, alpha-picoline, and 2-amino pyridine. The only exception was an estimated detection of 1 ug/l of Di-n-Butylphthlate in SW-01 and SW-03. This compound was also present in the blank indicating a laboratory-derived contribution. No applicable NYSDEC surface water standards (based on Class C surface waters) were exceeded.

Project 804219

April 4, 2000
Page 2

Metal Constituents and Cyanide

Table 1 provides a summary of the analytical results for metals and cyanide. Many of the TAL metals were not detected in the surface water samples. Metals that were detected were generally associated with natural earth elements such as aluminum, iron, calcium, and magnesium. Several metals were also detected in the field blank indicating a potential laboratory contribution to the detections. When compared to applicable Class C surface water standards, several exceedances were noted for aluminum and iron in some of the surface water samples. However, these exceedances are considered reflective of natural conditions. Sodium levels appeared to be somewhat elevated, which was probably due to runoff from roads.

No cyanide was detected in any of the surface water samples.

To conclude, the results of this investigation indicate that the water quality of the pond has not been affected by any point source(s) of potential pollution. Rather, the water quality is reflective of natural conditions and runoff from surrounding roads.

If you have any questions please feel free to call.

Sincerely,

IT CORPORATION



Steven Goldberg, Ph.D, CPG
Senior Hydrogeologist

Attachment

Table - 1
Mary Harriman Park
Harriman New York
Surface Water Sample Metals and Cyanide Data

Inorganics (ug/l)	NYSDEC Surface Water Standard Class C	SW-01	SW-02	SW-03	SW-04	FB-01
Aluminum	100	866	77.7	148	124	33.8 U
Antimony	NA	3.67 U	3.67 U	3.67 U	3.67 U	3.67 U
Arsenic	190	4.86 U	4.86 U	4.86 U	4.86 U	4.86 U
Barium	NA	18.2	16.1	17	17.3	6.31 U
Beryllium	11	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Cadmium	NA	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Calcium	NA	29900	35200	33800	34000	49.2
Chromium	NA	1.4	0.51 U	0.51 U	0.51 U	6.1
Cobalt	5	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
Copper	NA	4.13 U	4.13 U	5.5	4.13 U	4.13 U
Iron	300	943	283	380	320	44.3 U
Lead	NA	0.99	0.56 U	0.72	1	0.56 U
Magnesium	NA	6000	9340	8550	8770	43.8
Manganese	NA	221	77.4	88.5	92.8	2.8 U
Mercury	0.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	NA	2.7 U	2.57 U	2.57 U	2.57 U	9.1
Potassium	NA	3050	1480	1510	1650	306 U
Selenium	1	1 U	1 U	1 U	1 U	1 U
Silver	0.1	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Sodium	NA	31800	75400	73800	73700	156
Thallium	8	4 U	4 U	4 U	4 U	4 U
Vanadium	14	1.8	1.6 U	1.6 U	1.6 U	1.6 U
Zinc	30	6.9	4.4	4.9	4.7	2.35 U
Total Cyanide (mg/l)	0.005	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

U = Below Detection Limit

NA = Not Applicable

VERIFY SCALE

NOT TO SCALE

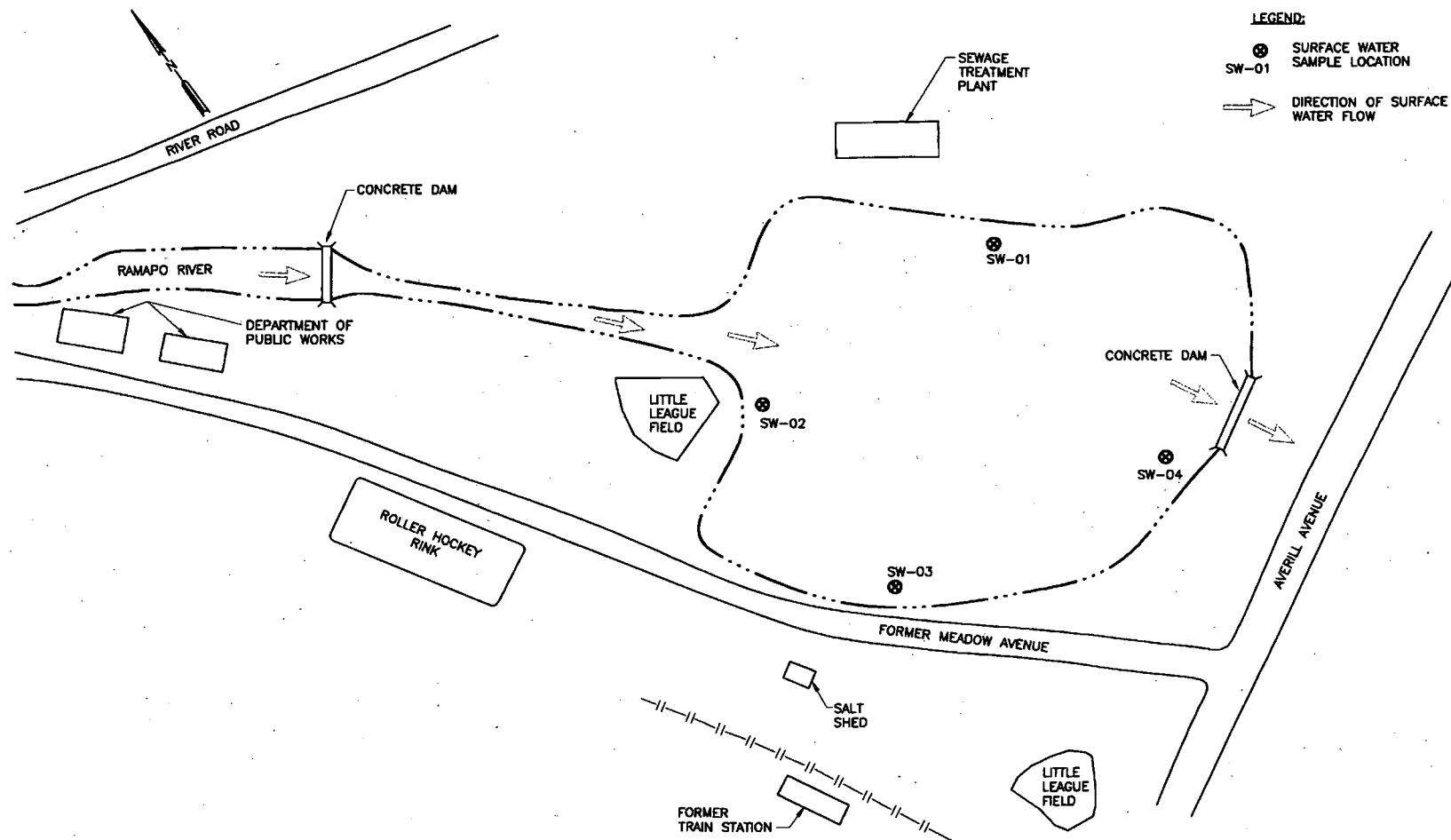


FIGURE 1

NYDEC
ALBANY, NEW YORK
SURFACE WATER
SAMPLE LOCATION
MARY HARRIMAN PARK
HARRIMAN, NEW YORK

				 ITT CORPORATION		SURFACE WATER SAMPLE LOCATION MARY HARRIMAN PARK HARRIMAN, NEW YORK		
				DESIGNED BY	A. Melarescu	CHECKED BY		
				DRAWN BY	A. Khoshdel	4/4/00	APPROVED BY	
				SCALE	DRAWING NO.		SHEET NO.	
				AS SHOWN		804219	1	0
				REVISION NO.				
				0				
REV	DATE	BY	CHK'D	DESCRIPTION/ISSUE				

ATTACHMENT 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364519

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7058

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec.

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone (MEK)	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-01

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364519

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7058

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 121-43-7	BORIC ACID, TRIMETHYL ESTER	2.57	17	NJ
2.				
3.				
4.				
5.				
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FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01MS

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364519MS

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7059

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	46	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone (MEK)	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	45	
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	45	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	44	
108-90-7-----	Chlorobenzene	44	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01MSD

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364519MSD

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7060

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	47	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone (MEK)	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	46	
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	46	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	45	
108-90-7-----	Chlorobenzene	45	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364520

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7061

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone (MEK)	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-02

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364520

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7061

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 121-43-7	BORIC ACID, TRIMETHYL ESTER	2.58	18	NJ
2.				
3.				
4.				
5.				
6.				
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FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364521

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7062

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone (MEK)	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (Total)	10	U

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-03

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364521

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7062

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 102-24-9	BOROXIN, TRIMETHOXY-	2.57	17	NJ
2.				
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FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364522

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7063

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10 U	
74-83-9	Bromomethane	10 U	
75-01-4	Vinyl Chloride	10 U	
75-00-3	Chloroethane	10 U	
75-09-2	Methylene Chloride	10 U	
67-64-1	Acetone	10 U	
75-15-0	Carbon Disulfide	10 U	
75-35-4	1,1-Dichloroethene	10 U	
75-34-3	1,1-Dichloroethane	10 U	
540-59-0	1,2-Dichloroethene (total)	10 U	
67-66-3	Chloroform	10 U	
107-06-2	1,2-Dichloroethane	10 U	
78-93-3	2-Butanone (MEK)	10 U	
71-55-6	1,1,1-Trichloroethane	10 U	
56-23-5	Carbon Tetrachloride	10 U	
75-27-4	Bromodichloromethane	10 U	
78-87-5	1,2-Dichloropropane	10 U	
10061-01-5	cis-1,3-Dichloropropene	10 U	
79-01-6	Trichloroethene	10 U	
124-48-1	Dibromochloromethane	10 U	
79-00-5	1,1,2-Trichloroethane	10 U	
71-43-2	Benzene	10 U	
10061-02-6	trans-1,3-Dichloropropene	10 U	
75-25-2	Bromoform	10 U	
108-10-1	4-Methyl-2-Pentanone	10 U	
591-78-6	2-Hexanone	10 U	
127-18-4	Tetrachloroethene	10 U	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	
108-88-3	Toluene	10 U	
108-90-7	Chlorobenzene	10 U	
100-41-4	Ethylbenzene	10 U	
100-42-5	Styrene	10 U	
1330-20-7	Xylene (Total)	10 U	

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-04

Lab Name: CAS-ROC

Contract: IT CORP

Lab Code: 10145

Case No.: R20-1228 SAS No.:

SDG No.: SW-01

Matrix: (soil/water) WATER

Lab Sample ID: 364522

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: Q7063

Level: (low/med) LOW

Date Received: 03/15/00

% Moisture: not dec. _____

Date Analyzed: 03/20/00

GC Column: HP624 ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 121-43-7	BORIC ACID, TRIMETHYL ESTER	2.58	17	NJ
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

OCL Analytical Services

35 Goshen Turnpike

Bloomington NY 12721

Phone 845-733-1557

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Certificate of Analysis

Harriman Water Department
PO Box 946
Harriman, NY 10926

Project NY3503531
Date Sampled 3/8/2011
Date Complete 3/17/2011
Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
264271-01 NY3503531	Harriman Water Department		MHIA			Raw		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		03/15/11 14:43	03/15/11 14:43	CTM	
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Benzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	

OCL Analytical Services**35 Goshen Turnpike****Bloomington NY. 12721**

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Certificate of Analysis

Harriman Water Department
PO Box 946
Harriman, NY 10926

Project NY3503531
Date Sampled 3/8/2011
Date Complete 3/17/2011
Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
264271-01	NY3503531	Harriman Water Department	MHIA			Raw		Drinking Water
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Styrene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Toluene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Trichloroethene	0.0011	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
Xylenes (total)	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	03/15/11 14:43	03/15/11 14:43	CTM	

OCL Analytical Services

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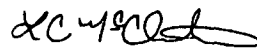
Certificate of Analysis

Harriman Water Department
PO Box 946
Harriman, NY 10926

Project NY3503531
Date Sampled 3/8/2011
Date Complete 3/17/2011
Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
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Approved By



Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

OCL Analytical Services

35 Goshen Turnpike
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Certificate of Analysis

Harriman Water Department
 PO Box 946
 Harriman, NY 10926

Project
 Date Sampled 12/14/2011
 Date Complete 1/19/2012
 Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-01	NY3503531	Harriman Water Department	H.H. # 2			Entry Point		Drinking Water
Gross Alpha	24.20	pCi/L	EPA 900.0	15	01/09/12 0:00	01/09/12 0:00	BPS-CV	X
Uranium, U	22.68	æg/L	EPA 200.8	30	01/13/12 17:41	01/13/12 17:41	JRA-CV	
Uranium (pci/L)	15.19	pCi/L	EPA 200.8		01/13/12 17:41	01/13/12 17:41	JRA-CV	
271940-02	NY3503531	Harriman Water Department	North Main			Entry Point		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL

OCL Analytical Services

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Certificate of Analysis

Harriman Water Department
PO Box 946
Harriman, NY 10926

Project
Date Sampled 12/14/2011
Date Complete 1/19/2012
Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-02 NY3503531	Harriman Water Department			North Main		Entry Point		Drinking Water
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 2:35	12/23/11 2:35	SEP-SA	CL

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Certificate of Analysis

Harriman Water Department
PO Box 946
Harriman, NY 10926

Project
Date Sampled 12/14/2011
Date Complete 1/19/2012
Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-03 NY3503531	Harriman Water Department		Mary Harriman			Entry Point		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL

OCL Analytical Services

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Certificate of Analysis**Project**

Harriman Water Department
PO Box 946
Harriman, NY 10926

Date Sampled 12/14/2011

Date Complete 1/19/2012

Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-03 NY3503531	Harriman Water Department			Mary Harriman	Entry Point		Drinking Water	
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Trichloroethene	0.0012	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:07	12/23/11 3:07	SEP-SA	CL

271940-04 NY3503531	Harriman Water Department			River Rd / HBP3	Entry Point		Drinking Water	
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	

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Date Complete 1/19/2012
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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-04 NY3503531	Harriman Water Department		River Rd / HBP3		Entry Point		Drinking Water	
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	

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Project
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Date Complete 1/19/2012
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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-04	NY3503531	Harriman Water Department	River Rd / HBP3			Entry Point		Drinking Water
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 3:38	12/23/11 3:38	SEP-SA	

271940-05	NY3503531	Harriman Water Department	HBP 1			Entry Point		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	

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Date Complete 1/19/2012
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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-05 NY3503531	Harriman Water Department		HBP 1			Entry Point		Drinking Water
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-05 NY3503531	Harriman Water Department		HBP 1			Entry Point		Drinking Water
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:10	12/23/11 4:10	SEP-SA	

271940-06 NY3503531	Harriman Water Department		OR 7			Entry Point		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL

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Project

Date Sampled 12/14/2011

Date Complete 1/19/2012

Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-06 NY3503531	Harriman Water Department		OR 7			Entry Point		Drinking Water
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-06 NY3503531	Harriman Water Department		OR 7			Entry Point		Drinking Water
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 4:42	12/23/11 4:42	SEP-SA	CL
Pyridine	< 0.010	mg/L	EPA 8270C		12/21/11 4:51	12/21/11 4:51	RHH-SA	
271940-07 NY3503531	Harriman Water Department		HH 2			Entry Point		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-07 NY3503531	Harriman Water Department		HH 2			Entry Point		Drinking Water
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:14	12/23/11 5:14	SEP-SA	CL

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-07	NY3503531	Harriman Water Department	HH 2			Entry Point		Drinking Water
271940-08	NY3503531	Harriman Water Department	HH 3			Entry Point		Drinking Water
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2		12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Benzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL

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Project

Harriman Water Department
PO Box 946
Harriman, NY 10926

Date Sampled 12/14/2011

Date Complete 1/19/2012

Date Printed 12/11/2012

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
271940-08 NY3503531	Harriman Water Department		HH 3			Entry Point		Drinking Water
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Styrene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Toluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
Xylenes, Total	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	12/23/11 5:45	12/23/11 5:45	SEP-SA	CL

OCL Analytical Services

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Certificate of Analysis

Harriman Water Department
PO Box 946
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Approved By David M Kennedy

David Kennedy
Technical Director

The reported results relate only to the samples identified above

Qualifiers

CL = Total Residual Chlorine > 0.05 mg/L
X = Value exceeds Maximum Contaminant Level or other Regulatory Level.

Discussion of Mercury Sequential Extraction Procedure (SEP)

Mercury speciation was performed in accordance with the Sequential Extraction Procedure (SEP) described by Bloom et al (2003¹). The SEP consisted of five extractions that were used to identify five specific mercury binding phases or fractions. These analyses were performed by Battelle Marine Sciences, a specialty analytical laboratory. The results of the testing are discussed below.

50 ppb
Table 1 (attached) has been prepared to further describe the presence or absence of elemental mercury (Hg^0) identified in conjunction with the use of sequential extraction procedure (SEP) on soil samples collected during the RFI at the former Nepera Plant Site (the "Site"). Both dry weight and aqueous mercury concentrations from Fraction 1 are provided in Table 1. Mercury liberated from soil in Fraction F1 may include a number of potential mobile mercury forms including elemental (Hg^0), mercuric chloride (HgCl_2), some organic forms (CH_3Hg), and mercury oxides (Hg^0). Bloom et al note that "because Hg^0 reaches saturation in water at approximately 50 micrograms per liter ($\mu\text{g/l}$), values measured at or near this concentration in the F1 Fraction suggest that the sample contains free liquid metallic mercury." Conversely, mercury presence below the 50 $\mu\text{g/l}$ threshold in Fraction F1 indicates that metallic (elemental) mercury is not present." Thus if elemental Hg is present, the dissolved Hg in the F1 extract would reach the solubility limit (although soluble Hg may also be present in other forms, such as water soluble salts). As indicated in Table 1, the mercury concentration in the F1 extract for samples collected from the Site are well below the 50 $\mu\text{g/L}$ equilibrium threshold (i.e., ranged from 0.032 to 8.3 $\mu\text{g/l}$), indicating that Hg^0 was not present in the samples in any appreciable amount. Note that the extraction and analytical process is likely to include other mercury forms (such as the more water soluble salts, e.g., HgCl_2) that result in an overestimation of the Hg^0 concentration, so the F1 extract may overestimate Hg^0 presence.

The estimate of elemental Hg from the thermal volatilization step (reported as Hg^0 in Table 1) may also overestimate actual elemental Hg, as it may include other volatile mercury forms. Bloom et al note that "we have also found high rates of volatilization for HgCl_2 and Hg bound to organic matter. In every case where we have applied thermal volatilization to environmental samples that contained no detectable Hg^0 in either the headspace or F1 extract, we have detected substantial quantities (5-30%) of the total as volatile Hg. Thus, the thermal volatilization method may substantially overestimate the amount of Hg^0 present in natural samples." However, even conservatively assuming that all of the mercury detected in samples collected from the Site in Fraction F1 was elemental in form, the total of elemental present is trivial.

With regard to the labeling of the F4 fraction as "elemental," Bloom et al note that, "all free Hg^0 present in a sample will dissolve in the cold 12 M HNO_3 (F4) step. Although this measurement is

¹ Bloom, R.S., E. Presu, J. Katon, and M. Hiltner, 2003. Selective Extractions to Assess the Biogeochemically Relevant Fractionation of Inorganic Mercury in Sediments and Soils. *Analytical Chimica Acta* 479 233-258.

potentially confounded by other compound classes such as Hg(I) and Hg bound up in amorphous organo-sulphur Hg-Ag amalgams, or crystalline Fe/Mn oxide phases, it may be interpreted as an estimate of total Hg^0 in cases where Hg^0 was confirmed by saturation of the F1 fraction or visual identification." Thus the lab reporting of F4 as "elemental" is an over-simplification and based on subsequent discussions with Battelle, not representative.

For these reasons, the authors recommend that Hg^0 determinations be performed using a weight of evidence approach that includes a number of analytical and spectroscopic techniques, visual observations (microscopic or macroscopic), and comparison of reported concentrations in soil to solubility limits. None of the collected samples had visible evidence of elemental mercury.

In summary, evaluation of the soil SEP results for total mercury from fraction F1 indicates that the concentration of mercury in soil samples are all well below the 50 $\mu\text{g/L}$ equilibrium threshold. Coupled with the separate elemental Hg analyses and lack of visible elemental Hg in soil samples, these results indicate that elemental Hg is not present at the Site in any significant amount, if at all. The mercury in Site soils appears to be present as inorganic salts.

TABLE 1
SUMMARY OF MERCURY SEQUENTIAL EXTRACTION RESULTS
FORMER NEPERA PLANT SITE, HARRIMAN, NY

Sample Location ^a	Depth Interval (feet)	Sample Date	Total Mercury	Hg ⁰		Fraction % of Total	F1	Fraction % of Total	F2	Fraction % of Total	F3	Fraction % of Total	F4	Fraction % of Total	F5	Fraction % of Total	FI Extract (ug/l)	
G-B-005	0-1	12/11/06	0.687	0.000911	U	<1%	0.110	16%	0.000911	U	<1%	0.226	33%	0.349	50%	0.00880	1%	0.032
A-B-012	5-6	12/14/06	63.1	0.00405		<1%	0.786	2%	0.00771		<1%	25.6	60%	16.0	37%	0.342	1%	2.26
CSA-1-B-002	0-1	12/14/06	5.91	0.000911	U	<1%	0.0554	1%	0.00183		<1%	2.40	35%	4.04	58%	0.420	6%	0.149
E-B-002	0-1	12/14/06	369	0.000911	U	<1%	0.386	<1%	0.635		<1%	3.18	1%	280	96%	7.16	2%	0.986
D-B-002	0-1	12/15/06	2.24	0.00200		<1%	0.0358	2%	0.00177		<1%	1.13	66%	0.515	30%	0.0199	1%	0.100
70-B-001	6-7	12/18/06	687.00	0.000926		<1%	0.0392	<1%	0.0669		<1%	44.9	9%	474	91%	2.15	<1%	0.0869
02-B-002	0-1	01/03/07	1795	0.00420		<1%	2.80	<1%	0.0515		<1%	9.69	1%	1300	85%	225	15%	8.30

Notes:

Concentration units are expressed as µg/g (microgram per gram) on a dry weight basis.

a - Sample Locations are shown on Figure 3-1 of the RFI Addendum Report (attached)

U - constituent not detected at the listed reporting limit.

< - less than.

Hg⁰ - elemental mercury

F1 - deionized water extraction

F2 - acetic acid/hydrochloric acid extraction

F3 - potassium hydroxide extraction

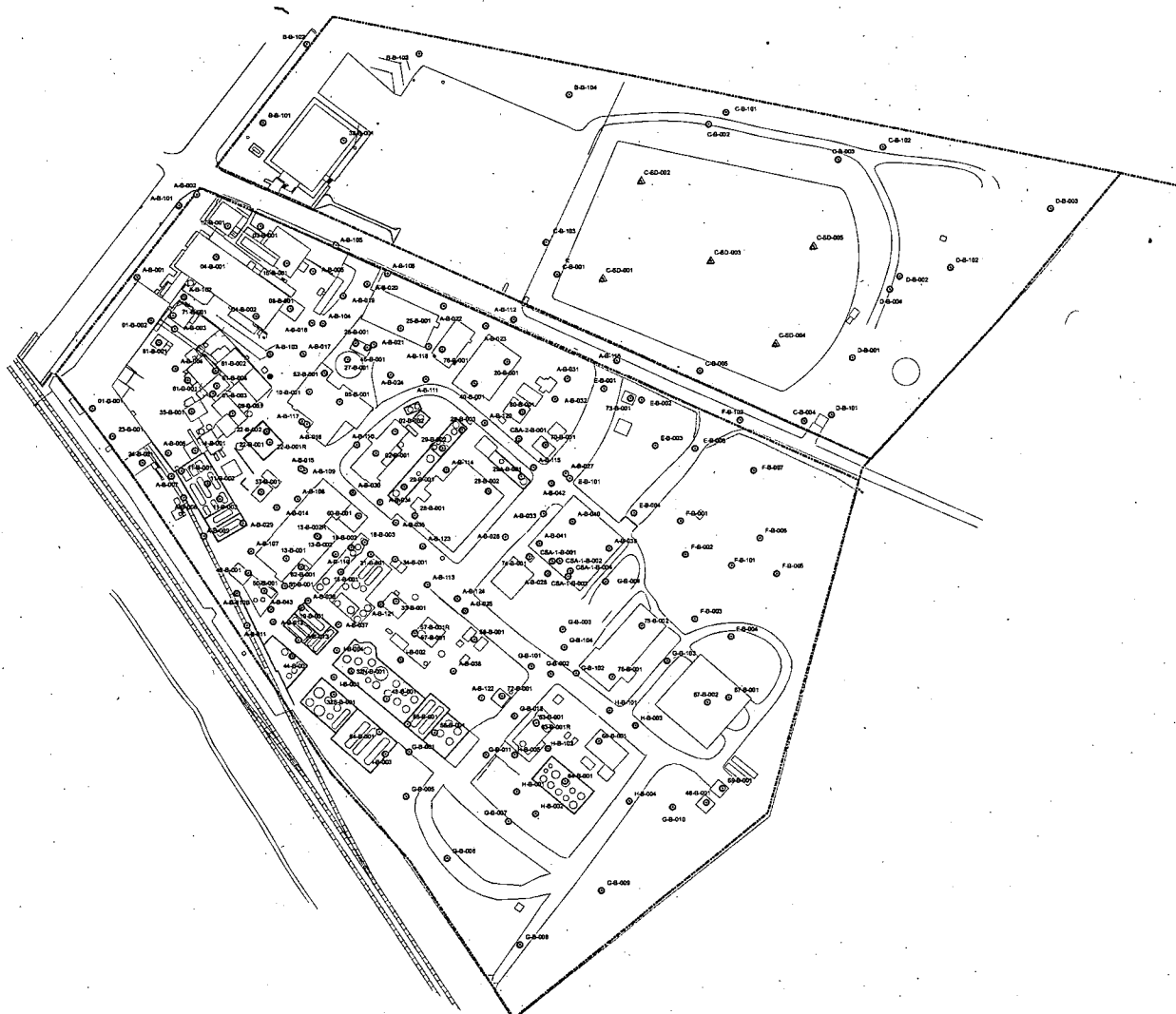
F4 - nitric acid extraction

F5 - aqua regia (concentrated nitric acid) extraction

Legend

Sample Locations

- Soil Boring Location
- △ Approximate Lagoon Solids Sample Location



0 40 80 160 240
Feet



FIGURE 3-1

SAMPLE LOCATIONS

FORMER NEPERA PLANT SITE
HARRIMAN, NEW YORK

DATE	PROJECT NUMBER
04/12/2007	131696.007
BROWN AND CALDWELL ASSOCIATES	

TABLE 4-6
SUMMARY OF SEQUENTIAL EXTRACTION RESULTS
FORMER NEPERA PLANT SITE, HARRIMAN, NY

FORMER NEPERA PLANT SITE, HARRIMAN, NY																	
						soluble		soluble		soluble		Hg		insoluble			
Sample Location ^a	Depth Interval (feet)	Sample Date	Total Mercury	Hg ⁰ (CVAF)		Fraction % of Total	F1 (CVAF)	Fraction % of Total	F2 (CVAF)	Fraction % of Total	F3 (CVAA)	Fraction % of Total	F4 (CVAA)	Fraction % of Total	F5 (CVAA)	Fraction % of Total	
			ppb	ppm			ppb		ppb				ppm				
C-SD ^b	1-2	13/11/06	9.87	0.000911	U	<1%	0.0502	1%	0.00157	<1%	8.44	91%	0.715	8%	0.0478	1%	
G-B-005	0-1	12/11/06	0.687	0.000911	U	<1%	0.110	16%	0.000911	U	<1%	0.226	33%	0.349	50%	0.00880	1%
A-B-012	5-6	12/14/06	63.1	0.00405		<1%	0.786	2%	0.00771	<1%	25.6	60%	16.0	37%	0.342	1%	
CSA-1-B-002	0-1	12/14/06	5.91	0.000911	U	<1%	0.0554	1%	0.00183	<1%	2.40	35%	4.04	58%	0.420	6%	
E-B-002	0-1	12/14/06	369	0.000911	U	<1%	0.386	<1%	0.635	<1%	3.18	1%	280	96%	7.16	2%	
D-B-002	0-1	12/15/06	2.24	0.00200		<1%	0.0358	2%	0.00177	<1%	1.13	66%	0.515	30%	0.0199	1%	
70-B-001	6-7	12/18/06	687.00	0.000926		<1%	0.0392	<1%	0.0669	<1%	44.9	9%	474	91%	2.15	<1%	
02-B-002	0-1	01/03/07	1795	0.00420		<1%	2.80	<1%	0.0515	<1%	9.69	1%	1300	85%	225	15%	

Notes:

Concentration units are expressed as µg/g (microgram per gram) on a dry weight basis.

a - Sample Locations are shown on Figure 3-1.

b - Lagoon solids sample.

U - constituent not detected above the associated value.

< - less than.

Hg⁰ - elemental mercury.

F1 - water soluble fraction.

F2 - 'human stomach acid' soluble fraction.

F3 - organo-chelated fraction.

F4 - elemental mercury fraction.

F5 - mercuric sulfide fraction.

CVAF - cold vapor atomic fluorescence.

CVAA - cold vapor atomic absorption.

How were % calculated?

TABLE 4-6A
SUMMARY OF METHYL MERCURY RESULTS
FORMER NEPERA PLANT SITE, HARRIMAN, NY

Sample Location ^a	Depth interval (feet)	Sample Date	Total Mercury (µg/g dry) <i>PPM</i>	Percent Dry Weight	Methyl Mercury (ng/g dry) <i>PPB</i>	Fraction % of Total
C-SD ^b	1-2	13/11/06	9.87	20.3	0.9105	0.009%
G-B-005	0-1	12/11/06	0.687	88.1	0.0156	U 0.002%
A-B-012	5-6	12/14/06	63.1	85.0	21.9	0.035%
CSA-1-B-002	0-1	12/14/06	5.91	83.7	1.21	0.020%
E-B-002	0-1	12/14/06	369	75.6	6.76	0.002%
D-B-002	0-1	12/15/06	2.24	87.2	0.161	0.007%
70-B-001	6-7	12/18/06	687.00	78.1	0.9670	0.000%
02-B-002	0-1	01/03/07	1795	82.2	146	0.008%

Notes:

a - Sample Locations are shown on Figure 3-1.

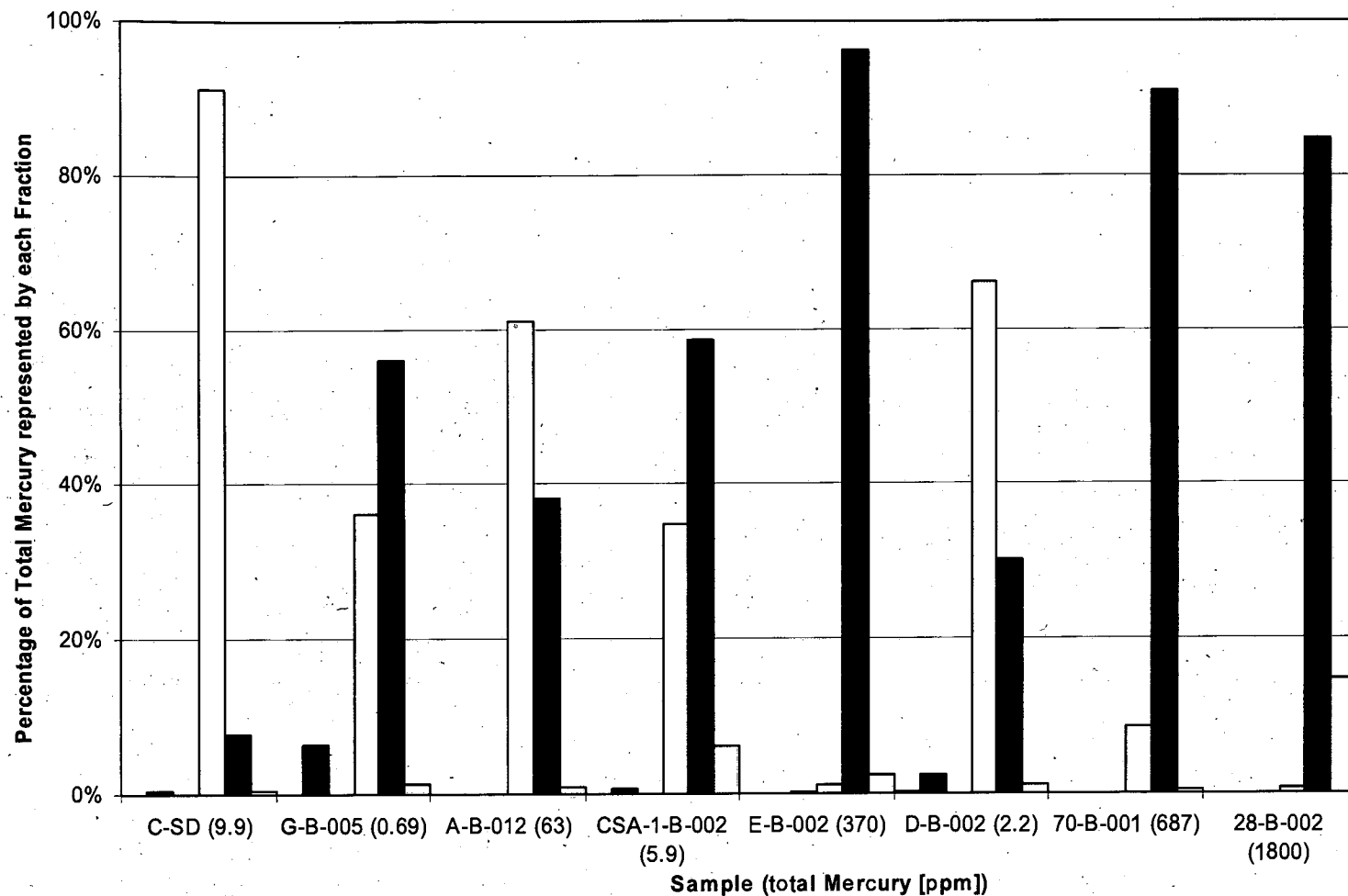
b - Lagoon solids sample.

µg/g -microgram per gram.

ng/g -nanogram per gram.

U - constituent not detected above the associated value.

REM 33
DER 35
15 AUG 10



LEGEND

- Hg^0 (CVAf) - elemental mercury fraction
- F1 (CVAf) - water soluble fraction
- F2 (CVAf) - 'human stomach acid' soluble fraction
- F3 (CVAA) - organo-chelated fraction
- F4 (CVAA) - elemental mercury fraction
- F5 (CVAA) - mercuric sulfide fraction

CVAf - cold vapor atomic fluorescence

CVAA - cold vapor atomic absorption

ppm - parts per million

FIGURE 4-9

SEQUENTIAL MERCURY EXTRACTION RESULTS

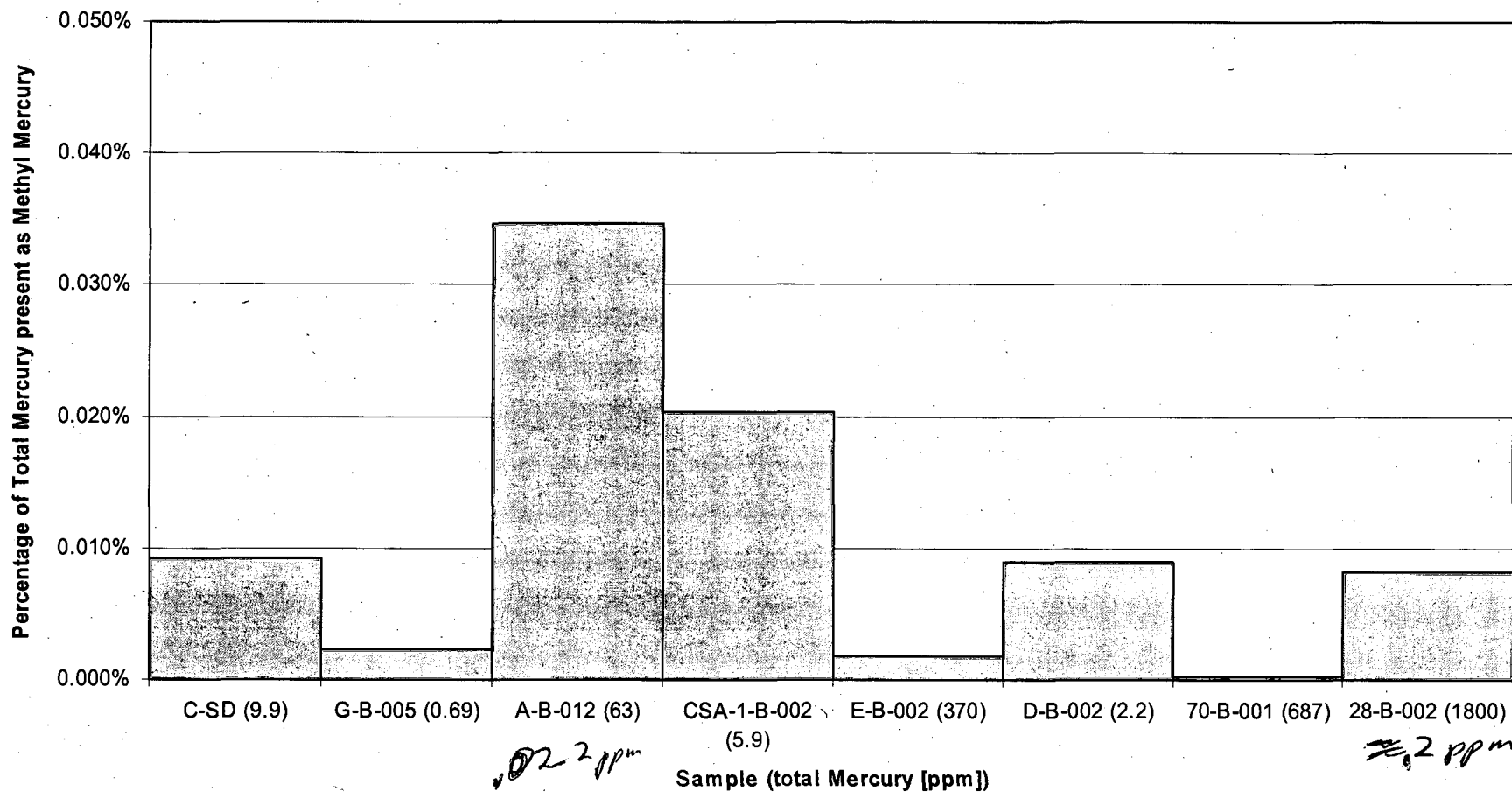
FORMER NEPERA
PLANT SITE
HARRIMAN, NEW YORK

DATE
4/16/2007

PROJECT NUMBER
131698.007

BROWN AND CALDWELL

ASSOCIATES



Note:
ppm – parts per million

FIGURE 4-10
METHYL MERCURY RESULTS

FORMER NEPERA
PLANT SITE
HARRIMAN, NEW YORK

DATE 4/16/2007	PROJECT NUMBER 131698.007
BROWN AND CALDWELL ASSOCIATES	