Bi-Annual Sampling Report For Treatment Systems

July 2001 - October 2001

Marx Residence Multi-Site Wells

Site Number 3-60-024 Work Assignment Number D003060-27

Prepared for:
Superfund Standby Program
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Prepared by: Earth Tech of New York, Inc. 12 Metro Park Road Albany, New York 12205

October 2001

VOV 2

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1.0 INTRODUCTION

In accordance with the monitoring plan for the treatment systems at the Marx Residence Site (Marx), the second round of water sampling by Earth Tech was performed on August 27, 2001. In January 2001, Earth Tech took over the responsibilities of operation and maintenance of the Marx granulated activated carbon (GAC) water treatment systems from TAMs Consultants, Inc. The results of laboratory analyses for this sampling event are summarized in the following report as are subsequent actions taken in response to the analysis, routine system maintenance and/or required modifications. This report covers activities that have taken place July through October of 2001.

1.1 SITE DESCRIPTION

The Marx Residence site (Site Code #3-60-024) is located on Armonk Road, in the Township of New Castle, Westchester County, New York. This is a four-acre residential site consisting of four residential wells. Wells at this site have been contaminated with chlorinated volatile organic compounds (VOCs) including cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), trichloroethene (TCE), perchloroethene (PCE), vinyl chloride, and methyl tert-butyl ether (MTBE).

1.2 TREATMENT SYSTEMS

Whole house granulated activated carbon (GAC) treatment systems were installed on four residential wells in September 1991 by Metcalf & Eddy (M&E). The installations are a mix of resident-owned and state furnished equipment.

New York State Department of Health (NYSDOH) recommends potable water treatment with two tanks connected in series for organic removal from drinking water. This configuration provides a primary and secondary GAC unit and allows for monitoring between these units. The systems are all equipped with valving and appurtenant equipment to allow flexibility in operation such as a flow meter, shut-off valves, and sample taps. They are also equipped with a particle filter, with the exception of well A-35; which has two.

1.2.1 A-35 (Marx Residence)

This location is a private residence. The system consists of two, 4.0 cu. ft. GAC tanks, a water meter, two particulate filters (one 20" double and one 10" single), and a Trojan 608 UV disinfection system.

1.2.2 A-36 (Savino Residence)

This location is a private residence. The system consists of two, 2.0 cu. ft. GAC tanks, a water meter, a particulate filter and an Ideal Horizon SV-7 UV disinfection system.

1.2.3 A-37 (Sklar Residence)

This location is a private residence. The system consists of two, 2.0 cu. ft. GAC tanks, a water meter, a particulate filter and a Trojan 608 UV disinfection system.

1.2.4 A-38 (Carpenter Residence)

This location is a private residence. The system consists of two, 2.0 cu. ft. GAC tanks, a water meter, a particulate filter and a Trojan 608 UV disinfection system.

2.0 SAMPLING

2.1 SAMPLE LOCATIONS

Table 2-1 presents project information including location and well ID. Sampling points include raw, intermediate and effluent ports.

2.2 SAMPLING PROTOCOL

Standard protocol is to allow a sampling tap to run for at least fifteen minutes prior to sampling to insure that representative water is in the system. After purging, samples are collected in the following order: effluent, intermediate, and finally raw water in order to minimize the possibility of cross-contamination. Volatile organics samples are overfilled in forty milliliter (ml) vials and capped and then checked to insure that no air bubbles are trapped in the vial. Care is taken during collection to minimize agitation and to immediately place sample containers on ice to prevent volatilization.

Bacteria sampling is conducted after volatile sampling. Sampling protocol requires that the sampling port be heated with an open flame for one minute prior to sampling to insure bacteria are coming from sample water only. Bacteria sample bottles may have an air space left inside.

Bi-annual samples are submitted for analysis by EPA Method 524.2, and total coliform analysis. Analytical services for total coliform are provided by Phoenix Environmental Laboratories, 587 East Middle Turnpike, Manchester, Connecticut. The Division of Environmental Remediation Laboratory of Rensselaer, New York provides analytical services for volatile analysis. A copy of the coliform results is included with this report.

2.3 SAMPLING, FLOW READINGS AND SITE INSPECTION

This sampling round represents the second bi-annual sampling event to be conducted at the site, by Earth Tech. Samples were collected on August 27, 2001.

All standard sampling procedures were followed except: taps were not run for fifteen minutes prior to sampling since water is regularly drawn through the systems and representative groundwater is already within the systems.

All volatile samples for this round were collected by Earth Tech staff, and packed on ice in a cooler with a completed chain of custody form and forwarded to the NYSDEC Laboratory for analysis. The flow volumes and raw water data will be tracked for each system over the course of the project and are summarized in Table 2-2.

The quartz sleeves were cleaned and all UV bulbs, with the exception the bulb at the Savino residence (A-36), were changed. Mr. Savino did not make his appointment with Earth Tech. The bulb at the Savino residence (A-36) was last changed in June 2000. The UV units were found to be working properly.

2.4 ANALYTICAL RESULTS

The laboratory data sheets for analysis performed on samples are distributed electronically by the laboratory to Earth Tech and the NYSDEC. The Method 524.2 results for the sampling events are summarized on Table 2-3. Coliform results are not included on this table. Total coliform analysis was negative for treated water collected.

Raw water analysis data will be summarized in Table 2-2 for each sampling round.

System change out will occur for any intermediate or final water sample with a contamination level of 1 ug/L or above.

2.4.1 A-35 (Marx Residence)

Between 1994 and 2000 the reported level of total volatile contamination has ranged from approximately 30 ug/L to as high as 1,500 ug/L.

The Round 2 sampling results reported detection of cis-1,2 DCE, TCE, and PCE in the raw sample at 28 ug/L, 110 ug/L, and 180 ug/L respectively. The intermediate and final water samples reported no detection of site contaminants.

2.4.2 A-36 (Savino Residence)

Between 1994 and 2000 the reported level of total volatile contamination has ranged from approximately 12 ug/L to as high as 600 ug/L.

The Round 2 sampling results reported no detection of site contaminants in the final water sample. The raw water and intermediate water was unable to be sampled. Mr. Savino did not make his appointment with Earth Tech. Final water was collected at an outside faucet. Review of prior contaminant levels indicate volatile levels below Part 5 Drinking Water Standards.

2.4.3 A-37 (Sklar Residence)

Between 1994 and 2000 the reported level of total volatile contamination has been below 50 ug/l at this location.

The Round 2 sampling results reported PCE at an estimated 0.6 ug/L in the raw water sample. The intermediate and final water samples reported no detection of any contaminants.

2.4.4 A-38 (Carpenter Residence)

Between 1994 and 2000 the reported level of total volatile contamination has been below 100 ug/l at this location.

The Round 2 sampling results reported no detection of any contaminants in the raw intermediate or final water samples.

3.0 SYSTEM INSTALLATION, MAINTENANCE AND MODIFICATIONS

Initial site inspections by Earth Tech were conducted in February 2001 and March 2001. Well locations were inspected to assess GAC system conditions, foresee any potential maintenance problems, and to choose a suitable plan of action for system maintenance/modifications.

All future service will be conducted on an as needed basis and be provided by Earth Tech. Earth Tech will provide service for the following:

- 1. GAC exchange,
- 2. UV exchange before 8000 hour usage,
- 3. reoccurrence of previous problems; and
- 4. damage to system by resident.

A new municipal waterline was installed in early 2001 to provide public water to these four locations. It is anticipated that Earth Tech will assist NYSDEC in making connections to the municipal line and disconnecting and demobing all GAC systems. These connections are anticipated to occur in the fall of 2001.

4.0 CONCLUSIONS

The GAC systems at the site are in satisfactory working order and are anticipated to be demobed in the fall of 2001 when connections to a municipal waterline are made.

TABLES

Table 2-1

Marx Residence Treatment Systems
Location and System Information

Location	Owner/Contact	Phone #	Well ID	System Location
786 Armonk Road Mt. Kisco, NY 10549	Max Marx	(914)666-6571	A-35	basement
820 Armonk Road Mt. Kisco, NY 10549	Vincent Savino	(914)666-3573	A-36	basement
778 Armonk Road Mt. Kisco, NY 10549	Alan Sklar	(914)241-0482	A-37	basement
768 Armonk Road Mt. Kisco, NY 10549	Susan Carpenter	(914)241-1181	A-38	Behind stairway to kitchen



Marx Residence Treatment Systems Flow Volume and Raw Water Analytical Data / GAC Change Out Summary

Location/ COC	Well ID	4-Feb-94	11-May-94	14-Jul-94	15-Nov-94	22-Mar-95	15-Jun-95	21-Sep-95	26-Mar-96	19-Jun-96
Max Marx	A-35	Changed UV Bulb Total Flow (gal)	Total Flow (gal) 14379				Total Flow (gal) 21671			
1,1-Dichloroethene 1,1,2-Trichloroethane 1,2-Dichloroethene Vinyl Chloride		127240		Not Listed Not Listed 55 15	Not Listed Not Listed 60 Not Listed	Not Listed Not Listed 4 Not Listed		Not Listed Not Listed Not Listed Not Listed	Not Listed Not Listed Not Listed Not Listed	Not Listed Not Listed Not Listed Not Listed
Trichloroethylene cis-1,2-Dichloroethene				120 Not Listed	110 Not Listed	63.7 Not Listed		368 90.3	240 160	0.56
trans-1,2-Dichloroethene Tetrachloroethylene				Not Listed Not Listed	Not Listed 555	Not Listed 363		Not Listed 538	Not Listed 240	Not Listed 28
Vincent Savino 1,1-Dichloroethene 1,1,2-Trichloroethene 1,2-Dichloroethene Vinyl Chloride Trichloroethylene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Tetrachloroethylene	A-36	Total Flow (gal) 76532 Changed UV Bulb			Not Listed Not Listed Not Listed 7 55 38 Not Listed 5	Changed UV Bulb	·		Not Listed Not Listed Not Listed Not Listed 26.3 56.8 Not Listed 6.8	Not Listed Not Listed Not Listed 1.6 17.2 108 3.1 3.4
Alan Sklar 1,2-Dichloroethene Trichloroethylene cis-1,2-Dichloroethene Tetrachloroethylene	A37		Changed UV Ligh Total Vol 22744	.		-	Total Vol 038567.0 Changed UV Light	- 1.20 Not Listed 2.10	- - Not Listed -	Total Vol 82404 - - - Not Listed -
Susan Carpenter 1,2-Dichloroethene Trichloroethylene cis-1,2-Dichloroethene Tetrachloroethylene Vinyl Chloride 1,1-Dichloroethane	A38			-	-	Changed UV Light Total Vol 22744	Changed 1 Tank	44 16 - 38 Not Listed Not Listed	- - - - Not Listed Not Listed	- - - - Not Listed Not Listed

Table 2-2

Marx Residence Treatment Systems Flow Volume and Raw Water Analytical Data / GAC Change Out Summary

Location/ COC	Well ID	1-Aug-96	2-Oct-96	29-Jan-97	11-Apr-97	22-Aug-97	26-Feb-98	5-Aug-98	1-Dec-98	2-Mar-99
		hanged both GAC Unit	s							
Max Marx	A-35						•			
1,1-Dichloroethene			Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,1,2-Trichloroethane			Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,2-Dichloroethene			Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Vinyl Chloride			Not Listed	Not Listed	Not Listed	-	Not Listed	Not Listed	190	-
Trichloroethylene			145	65	92	160	200	120	-	150
cis-1,2-Dichloroethene			68	25	110	86	60	160	110	120
trans-1,2-Dichloroethene			Not Listed	Not Listed	1	-	•	-	5.7	-
Tetrachloroethylene			1000	350	190	680	360	330	180	640
Vincent Savino	A-36	Changed 1 GAC Tank								
1,1-Dichloroethene		Changed UV Light	Not Listed			Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,1,2-Trichloroethane			Not Listed			Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,2-Dichloroethene			Not Listed			Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Vinyl Chloride			Not Listed			26	-	4	1.8	Not Listed
Trichloroethylene			3.3			34	15	36	13	Not Listed
cis-1,2-Dichloroethene			9.6			570	130	460	470	0.6
trans-1,2-Dichloroethene			Not Listed			7	Not Listed	1.2	Not Listed	Not Listed
Tetrachloroethylene			1.4			7	10	16	6.5	0.7
Alan Sklar	A37		Changed Both GAC Tanks							
1,2-Dichloroethene			•	Not Listed		Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Trichloroethylene			-	-		-	-	-	1.8	-
cis-1,2-Dichloroethene				-		•	-	-	2	-
Tetrachloroethylene _.			0.52	-		-	-	-	5.4	0.6
Susan Carpenter	A38									
•	ASO					Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,2-Dichloroethene			-	-		Not Listed 15	NOI LISTED	NOI LISTED	1.3	MOI LISTED
Trichloroethylene			•	-		43	-	-	33	•
cis-1,2-Dichloroethene			-	-		43 47	-	1	33 16	-
Tetrachloroethylene			•	-		41	-	•	10	-
Vinyl Chloride			Not Listed	Not Listed			~	• •	Nest total	Alas I dan d
1,1-Dichloroethane			Not Listed	Not Listed		Not Listed	-	Not Listed	Not Listed	Not Listed

Table 2-2

Marx Residence Treatment Systems Flow Volume and Raw Water Analytical Data / GAC Change Out Summary

Location/ COC	Well ID	7-Jun-99	23-Aug-99	28-Oct-99	7-Feb-00	13-Jun-00	Feb/May01		27-Aug-01
		-					Total Flow (gal)	6 month flow(gal)	Total Flow (gal)
Max Marx	A-35						618,910	35,380	654,290
1,1-Dichloroethene		Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	-		-
1,1,2-Trichloroethane		Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	13		-
1,2-Dichloroethene		Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	-		-
Vinyl Chloride		-	120	8	53	29	-		-
Trichloroethylene		95	130	140	250	290	82		110
cis-1,2-Dichloroethene		41	820	120	560	500	24		28
trans-1,2-Dichloroethene		-	Not Listed	Not Listed	Not Listed	Not Listed	-		-
Tetrachloroethylene		220	480	490	500	260	150		180
Vincent Savino	A-36								
1,1-Dichloroethene		Not Listed	Not Listed	Not Listed	Not Listed		-		
1,1,2-Trichloroethane		Not Listed	Not Listed	Not Listed	Not Listed		-		not
1,2-Dichloroethene		Not Listed	Not Listed	Not Listed	Not Listed		-		sampled
Vinyl Chloride		-	-	-	-		-		-
Trichloroethylene		-	2.8	-	2		-		
cis-1,2-Dichloroethene		-	32	-	9		0.4 J/0.4J		
trans-1,2-Dichloroethene		Not Listed	Not Listed	Not Listed	Not Listed		-		
Tetrachloroethylene		1.5	3	-	1		0.6 J/0.5J		
Alan Sklar	A37		Cha	anged both GAC	Units		1,109,370	64,690	1,174,060
1,2-Dichloroethene		Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	-		-
Trichloroethylene		-	2.2	1	-	-	-		-
cis-1,2-Dichloroethene		-	14	2	-	-	-		-
Tetrachioroethylene		-	7.1	3	-	-	0.6J		0.6J
Susan Carpenter	A38						78,990		
1,2-Dichloroethene	,	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	. 5,556		_
Trichloroethylene		-	-	-	-	-	_		_
cis-1,2-Dichloroethene		_	-	_		_	_		_
Tetrachloroethylene		_	1	_	_	_	_		_
Vinyl Chloride		_			_		-		-
1,1-Dichloroethane		Not Listed	Not Listed	Not Listed	Not Listed	Not Listed			_
i, i wichioloculane		HOL LISTER	HOL LISTER	HOL EISTER	HOL FISIER	HOL LISTEU	-		_

TABLE 2-3 Marx - Volatile Organics Analysis Data-EPA Method 524.2

Sampling Date: 8/27/2001

Compound	A-35 - R	A-35 - I	A-35 - F	A-36 - R	A-36 - I	A-36 - F	A-37 - R	A-37 - I	A-37 - F	A-38 - R	A-38 - I	A-38 - F
Bromodichloromethane	ļ											
Bromoform												
Bromoethane												
Carbon Tetrachloride												
Chlorobenzene												
Chloroethane												
2- Chloroethylvinyl ether												
Chloroform												
Chloromethane				not	not							
Dibromochloromethane				sampled	sampled							
1,2- Dichlorobenzene												
1,3- Dichlorobenzene												
1,4- Dichlorobenzene												
1,1-Dichloroethane												
1,2- Dichloroethane												
1,1- Dichloroethene												
cls- 1,2- Dichloroethene	28											
trans- 1,2- Dichloroethene												
1,2- Dichloropropane												
cis- 1,2- Dichloropropene												
trans- 1,3- Dichloropropene												
Methylene chloride												
4-methyl-2-pentanone												
Tetrachloroethene	180						0.6J					
1,1,1-Trichloroethane												
1,1,2- Trichloroethane												
Trichloroethylene	110											
Trichlorofluoromethane												
Vinyl chloride												
I - actimated												

J = estimated

/ = duplicate result

E= estimated above calibration range.

R= raw water sample

l= intermediate water sample

F= final water sample

Note: Blank space denotes concentration below detection limit of instrument.

A duplicate sample was collected at A-38 R and reported no detections.

Table 2-3 - R-I-F-VOC Analytical.xls



587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418 Tel. (860) 645-1102 Fax (860) 645-0823

Wednesday, September 05, 2001

Earthtech 12 Metro Park Rd

Albany

NY 12205

Attention: Ms. Amy Van Laak

Sample ID#: AD54645-48

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of ______ pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 05, 2001

FOR:

Attn: Ms. Amy Van Laak

Earthtech Inc

12 Metro Park Road Albany, NY 12205

Sample Information

Custody Information

Date

Time

Matrix:

WATER

Collected by:

RG

08/27/01

12:20

Location Code: RUST-ENV

Received by:

SW

08/28/01

Project Code:

Analyzed by:

see "By" below

10:21

P.O.#:

Laboratory Data

	Client ID:	MARX RESI	DENCE A-3	5		Phoenix I.l	D. AD54645	
Parameter		Result	\mathbf{RL}	Units	Date	TimeE	By Reference	
E. Coli		0	0	/100 mls.	08/28/01	12:30	C/R 1103.1/9223B	
Total Coliform		3	0	/100 mls.	08/28/01	12:30	C/R SM 9222B	

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Fax (860) 645-0823 Tel. (860) 645-1102

Analysis Report

September 05, 2001

FOR:

Attn: Ms. Amy Van Laak

Earthtech Inc

12 Metro Park Road Albany, NY 12205

Sample Information

Custody Information

Date

Time

Matrix:

P.O.#:

WATER

Collected by:

RG

08/27/01

11:05

Location Code: RUST-ENV

Received by:

SW

08/28/01

Project Code:

Analyzed by:

see "By" below

10:21

Laboratory Data

Client ID:

MARX RESIDENCE A-36

Phoenix I.D. AD54646

Parameter	Result	RL	Units	Date	TimeBy Reference
E. Coli Total Coliform	0	0	/100 mls.	08/28/01 08/28/01	12:30 R/C 1103.1/9223B 12:30 R/C SM 9222B

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiffer, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Fax (860) 645-0823 Tel. (860) 645-1102

Analysis Report

September 05, 2001

FOR:

Custody Information

Attn: Ms. Amy Van Laak

Earthtech Inc

12 Metro Park Road Albany, NY 12205

see "By" below

Sample Information

Date

Time

Matrix:

WATER

Collected by:

RG

08/27/01

11:45

Location Code: RUST-ENV

Received by: Analyzed by: SW

08/28/01

10:21

Project Code:

P.O.#:

Laboratory Data

Client ID:

MARX RESIDENCE A-37

Phoenix I.D. AD54647

Parameter	Result	RL	Units	Date	TimeBy	Reference
E. Coli Total Coliform	0	0	/100 mls.	08/28/01 08/28/01	12:30 R/C 12:30 R/C	1103.1/9223B SM 9222B

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 05, 2001

FOR:

Attn: Ms. Amy Van Laak

Earthtech Inc

12 Metro Park Road Albany, NY 12205

Sample Information

WATER

Location Code: RUST-ENV

Project Code:

P.O.#:

Matrix:

Custody Information

Collected by:

RG

Date 08/27/01

Time 13:25

SW

08/28/01

10:21

Analyzed by: see "By" below

Laboratory Data

Received by:

Client ID: MARX RESIDENCE A-38

Phoenix I.D. AD54648

Parameter	Result	RL	Units	Date	Time By	Reference
E. Coli	0	0	/100 mls.	08/28/01	12:30 R/C	1103.1/9223B
Total Coliform	0	0	/100 mls.	08/28/01	12:30 R/C	SM 9222B

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director



A **TUGO** INTERNATIONAL LTD. COMPANY

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ltein No.		escription Number)	ايون	Time	Grab 🤇	Comp.	P11) Reading (ppm)	Label Number	165											9				100		
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2 4	54146 A-	36	1	11:05					П										П	\Box				\Box		\Box
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