

AMERADA HESS CORPORATION

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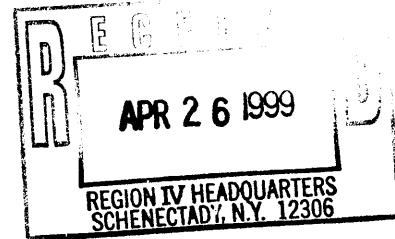
1 HESS PLAZA
WOODBIDGE, NJ 07095-0961

April 23, 1999

Mr. Keith Goertz, P.E.
NYSDEC Region 4
1150 North Westcott Road
Schenectady, N.Y. 12306

VIA: OVERNIGHT DELIVERY

Re: **(Former) Hess Station #32404**
48 Freemans Bridge Road
Scotia, New York
NYSDEC Spill Number 98-03831



Dear Mr. Goertz:

Enclosed please find the Subsurface Investigation Report detailing conditions encountered at the above referenced site.

Based on the investigation completed to date, Amerada Hess Corporation (Hess) recommends completion of the following activities:

- * The site wells will be resampled, for the second quarterly period, to confirm hydrocarbon concentration levels;
- * A survey of potential potable well receptors within a one-quarter mile radius will be completed.
- * Hess will evaluate and identify offsite monitoring well locations and property owners in order to completely delineate the extent of the groundwater contamination detected.

A progress report will be directed to your attention by August 16, 1999. This report will include additional recommendations or a remedial action plan.

If you have any questions regarding this site feel free to contact me at the letterhead address above, or directly at (732) 750-7068.

Sincerely,

Dawn M. Johnson
Senior Hydrogeologist

CHP
Enclosure

cc: A. Sagebien (w/o Enclosures)
C. Post, FWENC (w/ Enclosures)
F. Sanclementi, FWENC (w/ Enclosures)
G. Margiotta (w/o Enclosures)
John W. Tabner, Esq. (w/ Enclosures)



FOSTER WHEELER ENVIRONMENTAL CORPORATION

April 21, 1999

Subsurface Investigation Report

(former) Hess Station #32404
48 Freemans Bridge Road
Scotia, New York
NYSDEC Spill Numbers 98-03831

Prepared for: Dawn M. Johnson
Senior Hydrogeologist
Amerada Hess Corporation
1 Hess Plaza
Woodbridge, New Jersey 07095

Prepared by: Foster Wheeler Environmental Corporation
367 American Oil Road
Rensselaer, New York 12144

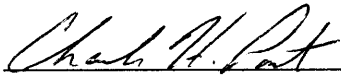
Submitted by: 
Charles H. Post, P.G.
Project Hydrogeologist

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1.0 Introduction

The following is the Subsurface Investigation Report (SIR) for (former) Amerada Hess Corporation (Hess) Station No. 32404. The site was identified as New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage Facility ID No. 4-163694. The site's mailing address is 48 Freemans Bridge Road, Scotia, New York. The site is located within the Town of Glenville, Schenectady County, New York.

1.1 Background

The subject site was an operating retail gasoline station (Figure 1). The station dispensed K-1 kerosene in addition to Unleaded Regular, Unleaded Plus and Unleaded Premium gasoline. The gasoline fuels were stored separately in three 10,000-gallon single-walled steel underground storage tanks (USTs). The kerosene was stored in a 10,000-gallon single-walled fiberglass reinforced plastic (FRP) UST.

1.2 Site Description

The site is located within the Village of Scotia, New York. The local land use in the immediate area surrounding the site is mixed commercial and vacant property (Figure 2). The site is immediately bounded to the north by a small creek. Maple Avenue is located to the north of the creek, a convenience store/gasoline station lies beyond Maple Avenue. The site is bounded to the northeast by a retail store; to the east by vacant land; to the southeast by a retail store; to the south by Freemans Bridge Road; and to the west by a diner.

The topography of the surrounding area is gently sloping, dipping toward the southeast. The topographic relief across the site is approximately one to two feet. The creek channel to the north of the site has steep sidewalls extending approximately eight-feet below the surrounding elevation to the channel floor. Terrain features are depicted on a section of the *United States Geological Survey*, Schenectady, NY 7.5 Minute Quadrangle Map, 1980 (Figure 3).

1.3 Site Environmental File Review

Removal of the station's USTs and distribution piping commenced on June 28, 1998. During the UST removal, hydrocarbon impacted soil and groundwater was encountered. As a result of this discovery, the NYSDEC issued Spill #98-03831.

A UST Closure Report which outlined the site closure activities was submitted to the NYSDEC on August 4, 1998. The report documented the UST and piping removal activities, soil sample collection and laboratory analytical results associated with this work.

Laboratory analytical results of the composite soil samples collected during the upgrade activities indicated volatile and semi-volatile organic compound (VOC and SVOC) concentrations above NYSDEC STARS Memo #1 Alternative Guidance Values (STARS Guidance Values). All soils which were excavated (204.26 tons) during the station closure were transported offsite for thermal destruction and disposal.

1.4 Project Scope

The activities executed for this SIR included the following:

- * Installing seven groundwater monitoring wells;
- * Collecting soil samples during drilling for lithology characterization, field screening for volatile vapors and laboratory analysis by EPA Methods 8021 and 8270;
- * Surveying well casing elevations and gauging depth to groundwater measurements;
- * Collecting groundwater samples for drinking water standards using EPA Method 503.1;
- * Determining water table geometry and groundwater flow direction;
- * Preparing an investigation report and summarizing the study results.

2.0 Investigative Methodology

2.1 Surface Water Bodies

A review of the *United States Geological Survey*, Schenectady, NY 7.5 Minute Quadrangle Map, 1980, was conducted to ascertain the proximity of the site to any flowing or surface bodies of water.

2.2 Proximity of Underground Utilities

As part of the well drilling activities, a utility locating service was used to determine the location of underground utilities at the site. The utility locating service performed a markout on the ground surface.

2.3 Well Installations

On September 15, 1998 four groundwater monitoring wells (MW-1, MW-2, MW-3 and MW-4) were installed to determine subsurface conditions at this site. On February 11, 1999 three additional groundwater monitoring wells (MW-5, MW-6 and MW-7) were installed to further

delineate the subsurface conditions (Figure 4). The wells were drilled utilizing a truck mounted hollow stem auger drill rig. All of the wells were installed to a minimum depth of ten feet below the static groundwater level. The monitoring wells were constructed so that the well screen was exposed to the soil/groundwater interface. Monitoring wells MW-1, MW-2, MW-3 and MW-4 were constructed of 4-inch diameter PVC well screen with a 0.010-inch slot size. Monitoring wells MW-5, MW-6 and MW-7 were constructed of 4-inch diameter PVC well screen with 0.020-inch slot size. All of the wells were installed between 18 and 20 feet below ground surface (bgs). Complete construction details are included in the geologist well logs (Appendix I).

2.4 Soil Sampling

During the advancement of the monitoring well boreholes, soil samples were collected at the soil/groundwater interface utilizing split-spoon sampling procedures. Each recovered soil core was divided into two segments. One segment was placed in laboratory supplied glassware, packed on ice and shipped via overnight courier to Accutest Laboratories (NYSDOH certification # 10983) to be analyzed by EPA Method 8021 for VOCs with Methyl Tert Butyl Ether (MTBE) and EPA Method 8270 for SVOCs. The second segment was screened with a photoionization detector (PID) for the presence of vapor phase hydrocarbons by jar headspace analysis. The PID was calibrated to a known 100 parts per million (ppm) isobutylene standard prior to screening.

2.5 Surveying and Monitoring

The top of each monitoring well casing was surveyed on February 25, 1999 to develop the site plan. A temporary onsite reference benchmark was assigned an elevation of 100.00 feet. Each of the well casing elevations were calculated from this datum. Each elevation was measured accurately to within 0.01 feet.

Fluid elevations were measured in each of the wells using a sonic interface probe on February 25, 1999. The groundwater in each well was also examined for the presence of separate phase hydrocarbons using a transparent bailer.

2.6 Groundwater Sampling

On February 25, 1999 groundwater samples were retrieved from monitoring wells MW-1 through MW-7. The samples were retrieved with disposable bailers following well purging. Samples were collected from the top two feet of the water column. Samples from each well were transferred to three (3) forty milliliter, laboratory supplied VOA vials with septa caps. The samples were packed on ice and shipped via overnight courier to Accutest Laboratories to be analyzed by EPA Method 602 for Benzene, Toluene, Ethylbenzene, Xylene (BTEX), MTBE and Naphthalene. All sampling

was performed in accordance with NYSDEC Sampling Protocol.

3.0 Investigation Results

3.1 Surface Water Bodies

A review of the *United States Geological Survey, Schenectady, NY 7.5 Minute Quadrangle Map, 1980*, indicated an unnamed stream is located adjacent to the north of the site. The stream flows from the southwest toward the northeast and enters the Mohawk River approximately 0.6 miles downstream. The Mohawk River is located within one-quarter mile of the southeast corner of the site. The vacant property to the east of the site appears to contain seasonal standing water.

3.2 Proximity to Underground Utilities

Prior to commencing the well drilling, the locations of the utility markouts were noted. Municipal water and sanitary sewer are supplied to the site from service mains located beneath Freemans Bridge Road. Electric, telephone and cable television utilities are provided by overhead service.

3.3 Site Geology

Subsurface lithologies were evaluated through the examination of drill cuttings and split spoon samples collected during the monitoring well installations. Based upon the geologist well logs, the subsurface lithology consists of varying thickness of fill material. The fill material consists of stone, concrete, bricks, gravel and mixed (fine to coarse) sands. The fill material is underlain by grey fine sand with poorly sorted silt, clay, gravel and occasional pebbles.

Following installation, each of the seven monitoring wells were developed by the drilling contractor. Each well was developed for approximately one-quarter hour. Well response to development pumping indicated recharge rates varied from five gallons per minute in well MW-7 to three gallons per minute in wells MW-1, MW-2, MW-3 and MW-4.

3.4 Soil Vapor Sampling Results

Soil vapor measurements were taken from each recovered split-spoon sample as well as drill cuttings. Results indicated concentrations from below detection limits to 2,500 ppm. Complete field measurements are presented below in Table 1.

Table 1
Soil Screening PID Results
(former) Hess Station #32404
Scotia, NY
September 15, 1998 and February 11, 1999

SAMPLE INTERVAL	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
1.0 TO 3.0	NC	NC	NC	NC	0.0	0.0	0.0
3.0 TO 5.0	NC	NC	NC	NC	3.1	1.3	0.0
5.0 TO 7.0	0.0	0.0	2,500	1,200	1.4	3.9	64.3

Notes: NC - data not collected at this interval;
all results are reported in ppm-v (parts per million - volume);
sample interval was measured in feet below ground surface.

3.5 Soil Sampling Results

Soil samples were collected from the soil/groundwater interface in wells MW-1 through MW-6. The fill material encountered at the soil/groundwater interface in well MW-7 was gravel, therefore no soil sample was collected for laboratory analysis. The laboratory analytical results for soil samples from wells MW-3 and MW-4 indicated VOC concentrations above STARS Guidance Values. The analytical results also indicate SVOC concentrations above STARS Guidance Values in wells MW-2, MW-3 and MW-4. All other results were below the STARS Guidance Values. Table 2 summarizes the BTEX, MTBE and Naphthalene data. The complete laboratory analytical report is provided in Appendix II.

Table 2
Soil Sampling Result Summary
(former) Hess Station #32404
Scotia, NY
September 15, 1998 and February 11, 1999

WELL NUMBER	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES (TOTAL)	NAPHTHALENE	MTBE
MW-1	ND	ND	4.1	13.2	26.6	ND
MW-2	ND	ND	1.7	2.4	1,200	ND
MW-3	ND*	ND*	3,160	14,300	11,200	ND*
MW-4	1,810	18,800	11,600	64,100	3,640	ND**
MW-5	ND	ND	ND	ND	ND	1.8
MW-6	ND	ND	ND	ND	ND	164
MW-7	NC	NC	NC	NC	NC	NC

Notes: all measurements recorded in ug/kg;
 * = reported detection limit is greater than the NYSDEC guidance value, reported detection limit = 370 micrograms per kilogram (ug/kg);
 ** = reported detection limit is greater than the NYSDEC guidance value, reported detection limit = 1500 ug/kg;
 NC = no sample was collected;
 ND = not detected.

3.6 Survey and Monitoring Results

On February 25, 1999 the depth to groundwater was measured between 6.49 feet below casing elevation in well MW-5 and 7.51 feet below casing elevation in well MW-3. No separate phase hydrocarbons were detected in any of the wells. The monitoring and survey data are presented in Table 3.

The water table elevations were plotted on the site plan. Points of equal elevation were contoured to construct the Apparent Groundwater Flow Direction Map (Figure 5). Based on the Apparent Groundwater Flow Direction Map, the groundwater of the surficial aquifer has an apparent net flow toward the west.

Table 3
Survey and Monitoring Data
(former) Hess Station #32404
Scotia, NY
February 25, 1999

WELL NUMBER	WELL DEPTH	CASING ELEVATION	DEPTH TO WATER	SPH THICKNESS	WATER ELEVATION
MW-1	20.0	93.81	6.71	0.00	87.10
MW-2	20.0	94.03	6.88	0.00	87.15
MW-3	20.0	94.44	7.51	0.00	86.93
MW-4	20.0	94.04	7.15	0.00	86.89
MW-5	18.0	93.38	6.49	0.00	86.89
MW-6	18.0	94.21	6.86	0.00	87.35
MW-7	18.0	93.97	6.75	0.00	87.22

Note: SPH - separate phase hydrocarbons;
all measurements are in feet.

3.7 Groundwater Sampling Results

The analytical results from the February 25, 1999 groundwater sampling event are summarized in Table 4. BTEX concentrations ranged from below detection limits (ND) in well MW-5 to 24,810 micrograms per liter (ug/l) in MW-3. MTBE concentrations ranged from ND in wells MW-2 and MW-7 to 1,800 ug/l in MW-6. Naphthalene concentrations ranged from ND in wells MW-5 and MW-6 to 64.8 ug/l in MW-3. The Groundwater BTEX Concentration Map (Figure 6), the Groundwater MTBE Concentration Map (Figure 7) and the Groundwater Naphthalene Concentration Map (Figure 8) depict the groundwater results. The complete groundwater laboratory analytical report is attached in Appendix III.

Table 4
Groundwater Sampling Result Summary
(former) Hess Station #32404
Scotia, NY
February 25, 1999

WELL NUMBER	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES (TOTAL)	MTBE	NAPHTHA-LENE
MW-1	8.5	ND	0.66	2.4	50.6	2.7
MW-2	567	19	166	676	ND	29.4
MW-3	15,900	2,460	1,120	5,330	ND*	64.8
MW-4	5,510	1,060	228	1,050	ND**	ND***
MW-5	ND	ND	ND	ND	18.9	ND
MW-6	175	ND	ND	ND	1,800	ND
MW-7	267	ND	21.6	65.2	ND	10.6

Notes: all measurements recorded in ug/l;

* = reported detection limit is greater than the NYSDEC guidance value, reported detection limit = 220 ug/l;

** = reported detection limit is greater than the NYSDEC guidance value, reported detection limit = 88 ug/l;

*** = reported detection limit is greater than the NYSDEC guidance value, reported detection limit = 56 ug/l;


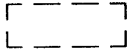
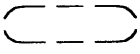
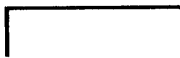
ND = not detected.

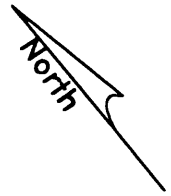
4.0 Summary

During station closure activities, hydrocarbon impacted soil and groundwater was discovered. Subsequently, NYSDEC Spill #98-03831 was issued. On September 15, 1998 and February 11, 1999 seven groundwater monitoring wells were installed. Soil screening by PID indicated vapor phase hydrocarbon concentrations were present in monitoring wells MW-3, MW-4, MW-5, MW-6 and MW-7 with maximum concentrations of 2,500, 1,200, 3.1, 3.9 and 64.3 ppm-v, respectively. The geologist well logs indicated the subsurface lithology consists of fill material underlain by poorly sorted grey fine sand and gravel. Groundwater was gauged in the monitoring wells between 6.49 and 7.51 feet below casing elevations. Apparent net groundwater flow is toward the west. Results of groundwater samples collected from the seven monitoring wells indicate BTEX, MTBE and Volatile Naphthalene concentrations above applicable NYSDEC Guidance Values.

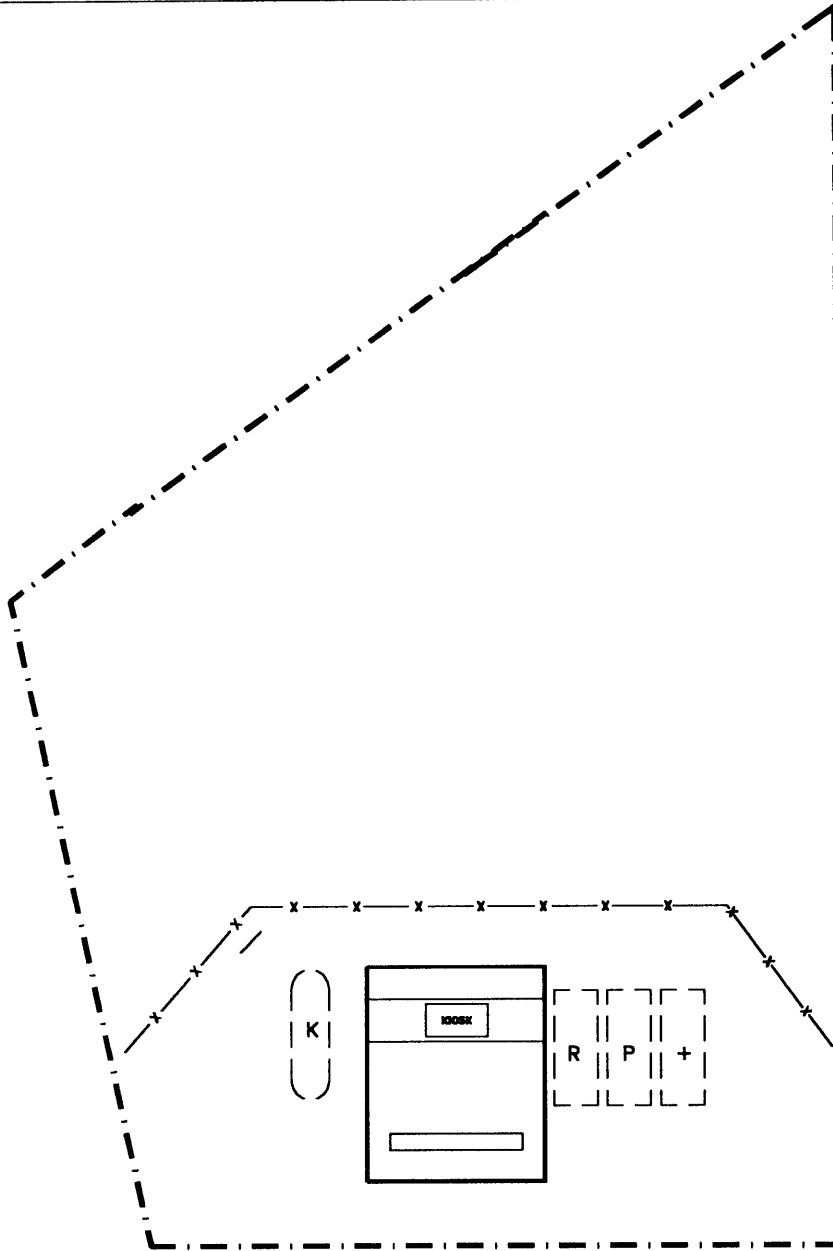
FIGURES

LEGEND

-  Property Boundry
-  Steel Underground Storage Tank
-  Fiberglass Reinforced Plastic Underground Storage Tank
-  Canopy



Scale:
(approximate)
0 10 20 feet



Freemans Bridge Road

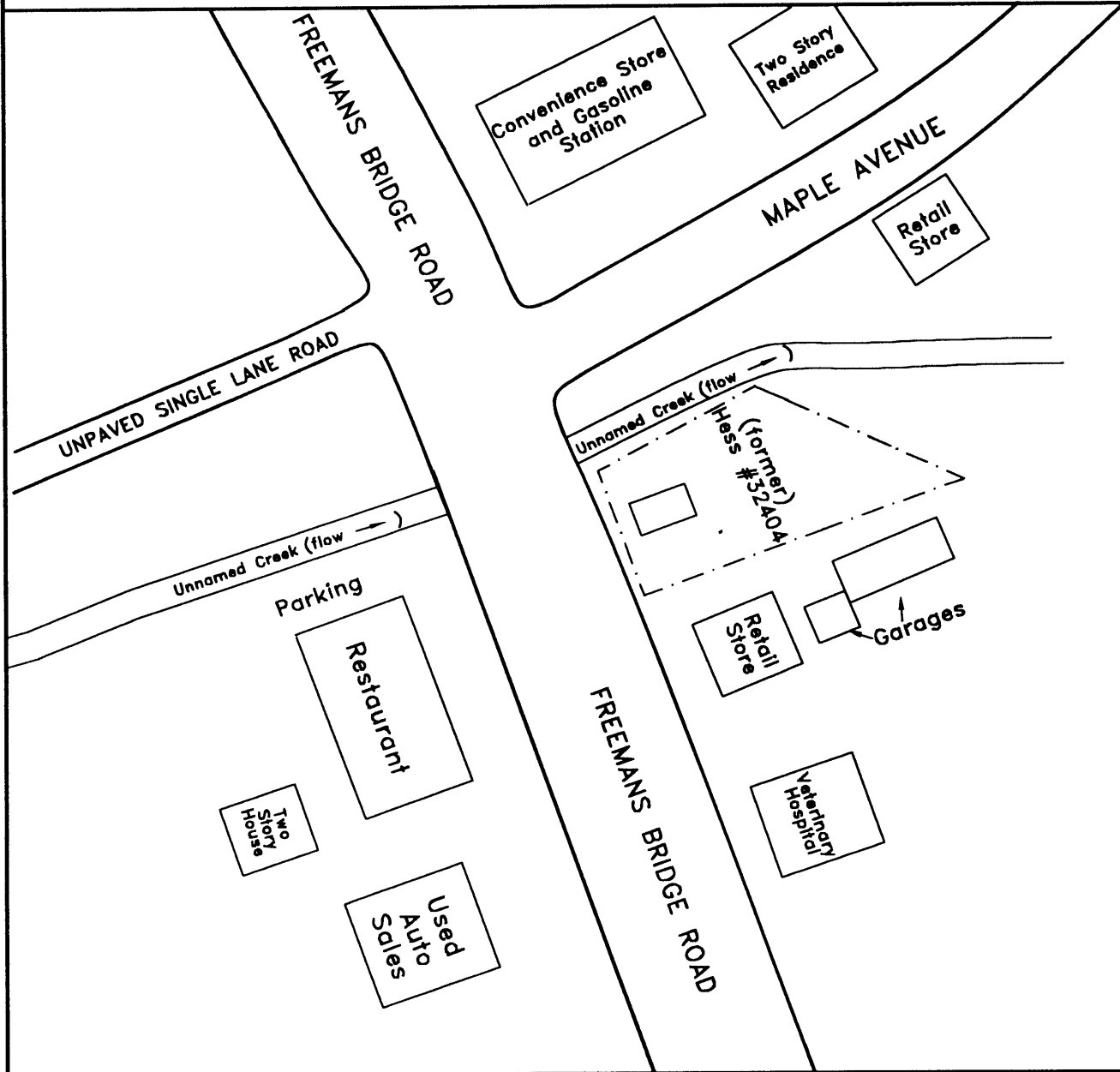
FOSTER WHEELER ENVIRONMENTAL CORPORATION	SITE MAP (6/28/98)			AMERADA HESS CORP. (Former) Hess Station #32404 48 Freemans Bridge Road Scotia, NY
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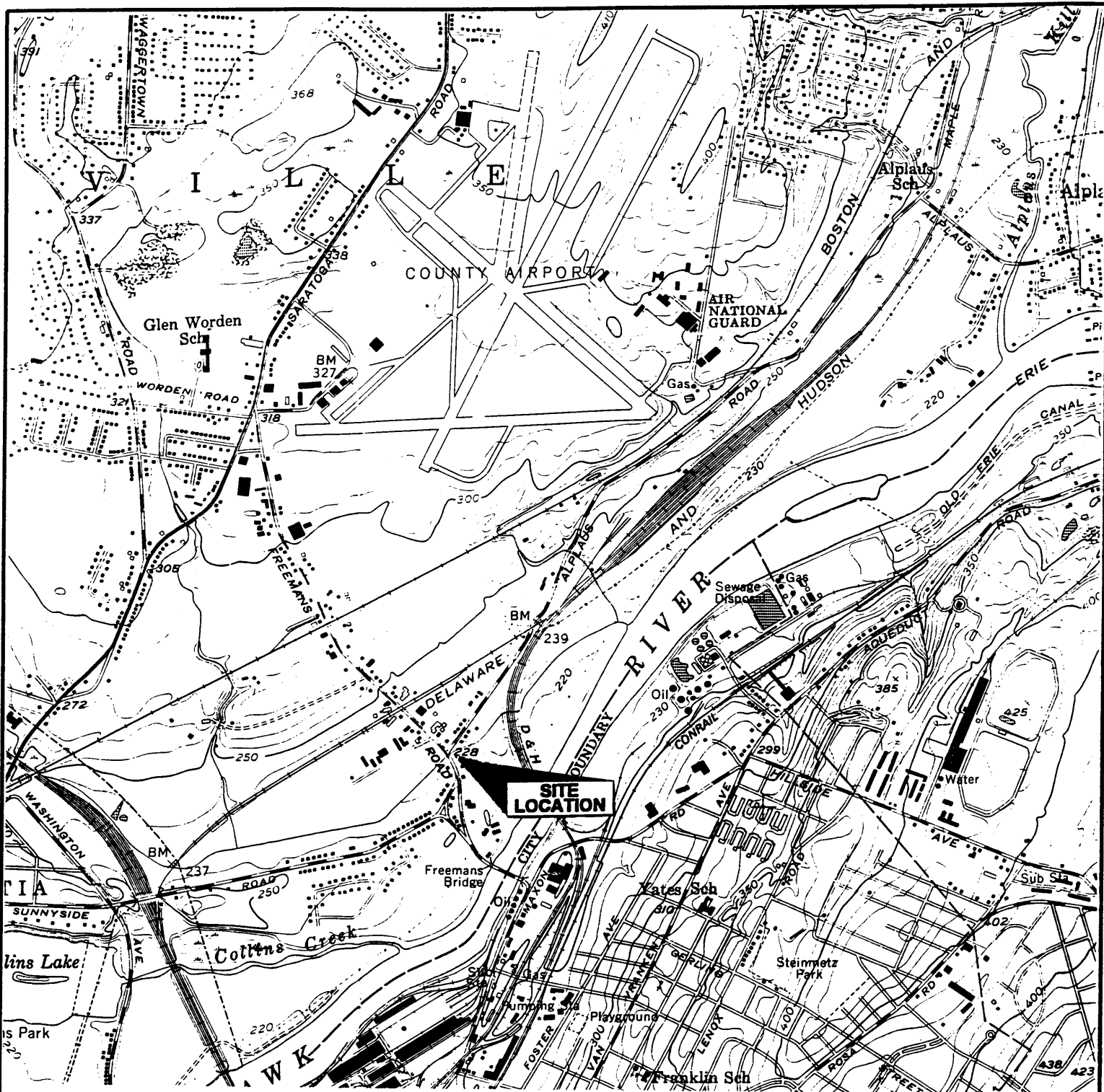
* THIS MAP IS NOT TO SCALE

--- HESS SITE PROPERTY BOUNDARY

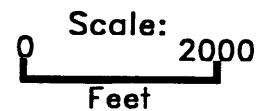
NORTH



FOSTER WHEELER ENVIRONMENTAL CORPORATION	LOCAL LAND USE MAP (2/11/99)		AMERADA HESS CORP. (former) Hess Station #32404 48 Fremans Bridge Road Scotia, NY
	Drawn By: CHP	Date: 4/12/99	


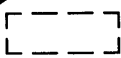





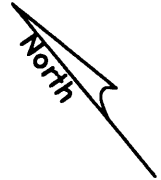
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 1954, Photorevised 1980



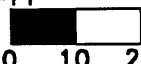
FOSTER WHEELER ENVIRONMENTAL CORPORATION	SITE LOCATION MAP (2/11/99)			AMERADA HESS CORP. (former) Hess Station #32404 48 Fremans Bridge Road Scotia, NY
	Drawn By: CHP	Date: 4/12/99	Figure: 3	

LEGEND

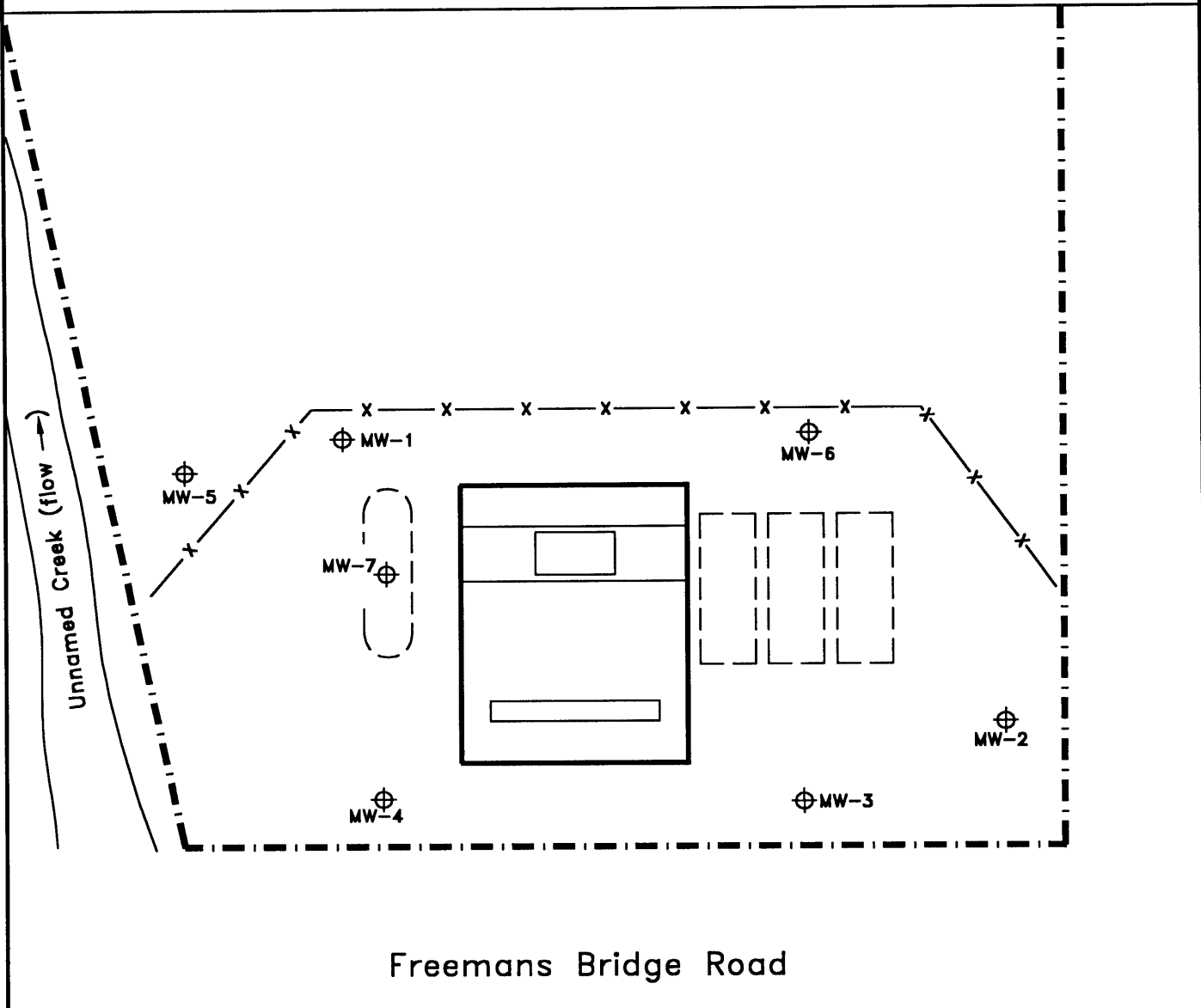
-  Property Boundary
-  Location of Former Steel Underground Storage Tank
-  Location of Former Fiberglass Reinforced Plastic Underground Storage Tank
-  Former Canopy Location
-  Monitoring Well



Scale:
(approximate)



0 10 20 feet


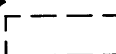
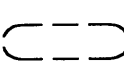
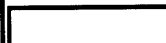






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CORPORATION**

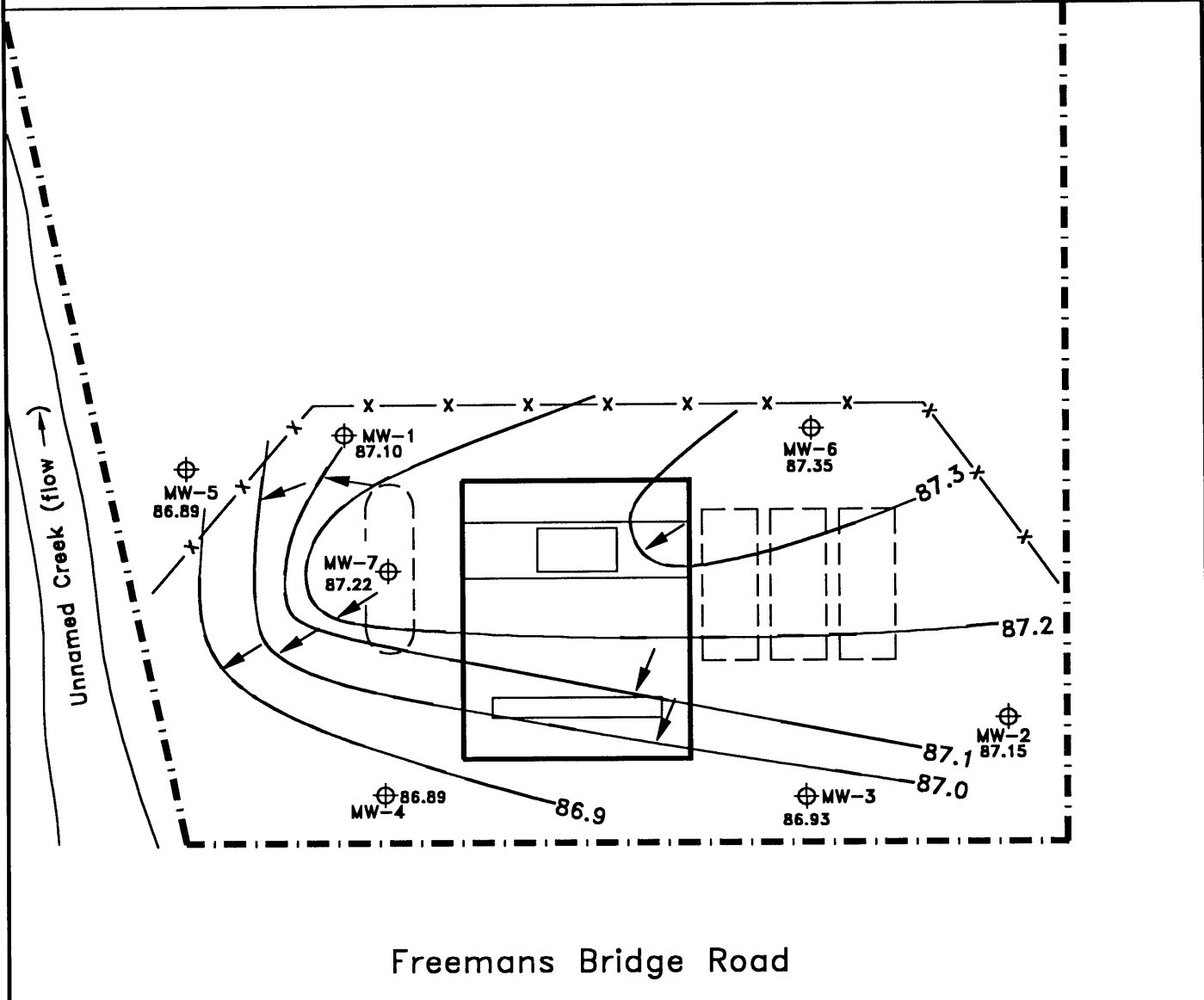
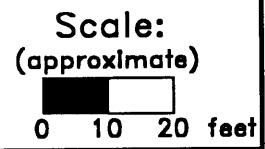
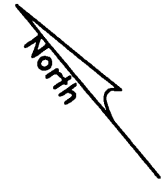
WELL LOCATION MAP (2/11/99)		
Drawn By: CHP	Date: 4/12/99	Figure Number: 4

AMERADA HESS CORP.
(Former) Hess Station #32404
48 Freemans Bridge Road
Scotia, NY

LEGEND

-  Property Boundary
-  Location of Former Steel Underground Storage Tank
-  Location of Former Fiberglass Reinforced Plastic Underground Storage Tank
-  Former Canopy Location
-  Monitoring Well

-  87.35 Groundwater Elevation
-  Groundwater Elevation Contour
-  Apparent Groundwater Flow Direction





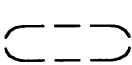


**FOSTER
WHEELER
ENVIRONMENTAL
CORPORATION**


**APPARENT GROUNDWATER FLOW
DIRECTION MAP (2/11/99)**

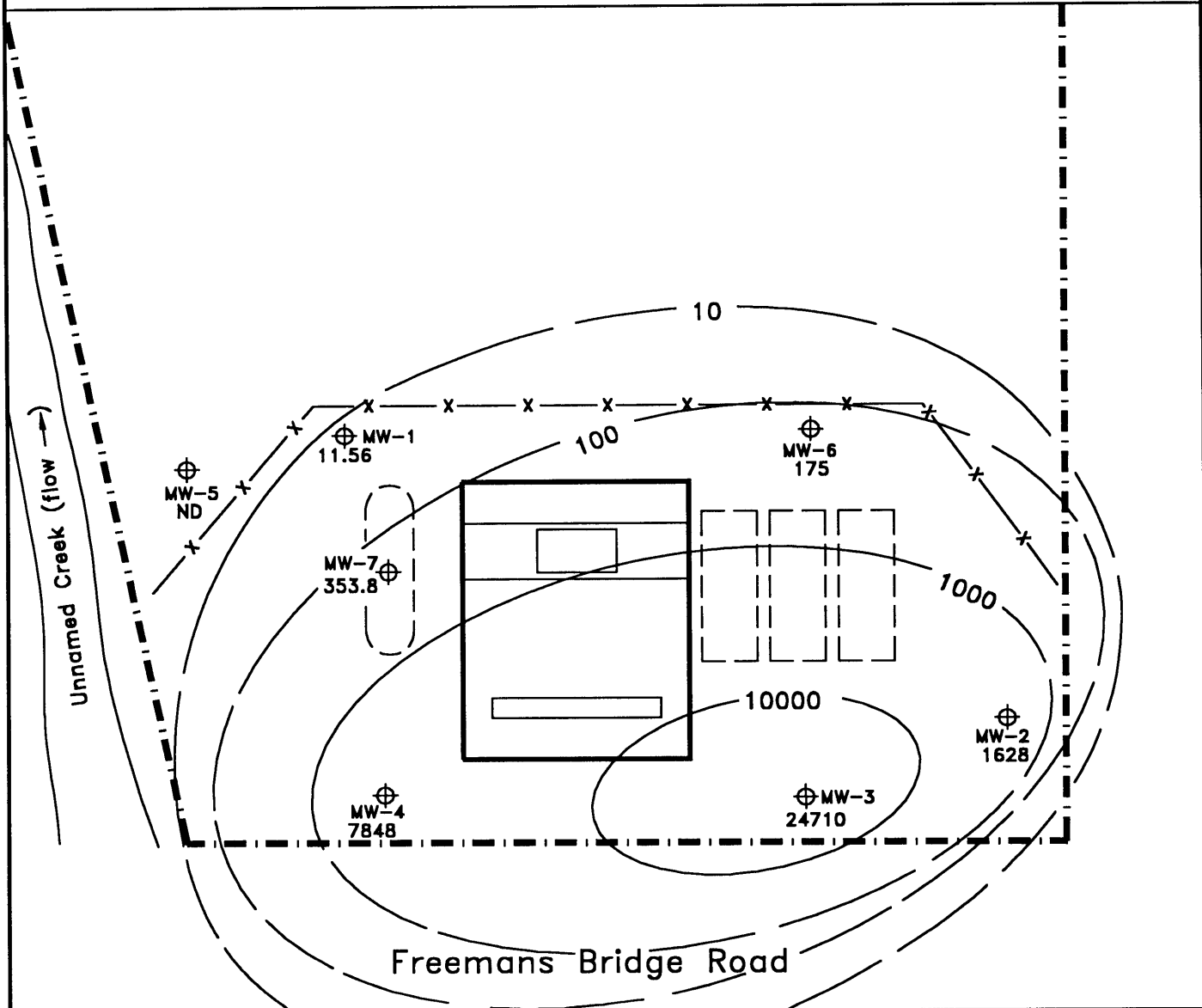
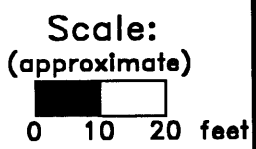
Drawn By: CHP	Date: 4/12/99	Figure Number: 5
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AMERADA HESS CORP.
(Former) Hess Station #32404
48 Freeman's Bridge Road
Scotia, NY

LEGEND


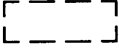
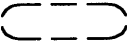


-  Property Boundary
-  Location of Former Steel Underground Storage Tank
-  Location of Former Fiberglass Reinforced Plastic Underground Storage Tank
-  Former Canopy Location
-  Monitoring Well



- 11.56 Groundwater BTEX Concentration (ug/l)
-  Groundwater BTEX Concentration Contour (dashed where inferred)
- ND Not Detected

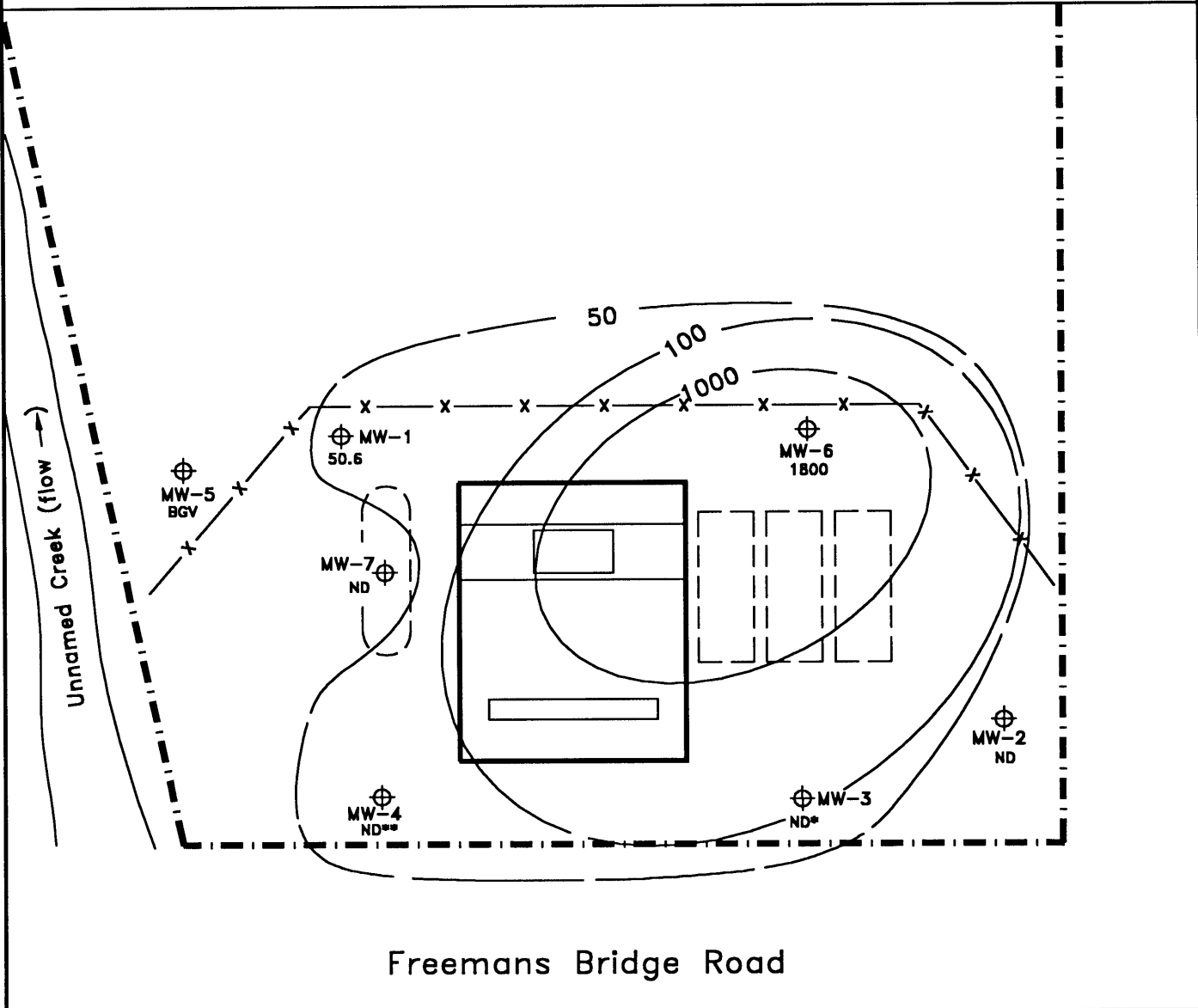
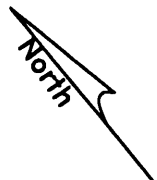


FOSTER WHEELER ENVIRONMENTAL CORPORATION	GROUNDWATER BTEX CONCENTRATION MAP (2/11/99)			AMERADA HESS CORP. (Former) Hess Station #32404 48 Freemans Bridge Road Scotia, NY
	Drawn By: CHP	Date: 4/12/99	Figure Number: 6	

LEGEND

-  Property Boundary
-  Location of Former Steel Underground Storage Tank
-  Location of Former Fiberglass Reinforced Plastic Underground Storage Tank
-  Former Canopy Location
-  Monitoring Well

- 50.6 Groundwater MTBE Concentration (ug/l)
-  Groundwater MTBE Concentration Contour (dashed where inferred)
- ND Not Detected
- ND* Not Detected, Reported Detection Limit = 220 ug/l
- ND** Not Detected, Reported Detection Scale: Limit = 88 ug/l (approximate)
- BGV Below NYSDEC Guidance Value 


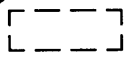
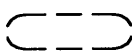




**FOSTER
WHEELER
ENVIRONMENTAL
CORPORATION**


GROUNDWATER MTBE CONCENTRATION MAP (2/11/99)		
Drawn By: CHP	Date: 4/12/99	Figure Number: 7

AMERADA HESS CORP.
(Former) Hess Station #32404
48 Freeman's Bridge Road
Scotia, NY

LEGEND

-  Property Boundary
-  Location of Former Steel Underground Storage Tank
-  Location of Former Fiberglass Reinforced Plastic Underground Storage Tank
-  Former Canopy Location
-  Monitoring Well

10.6 Groundwater Naphthalene Concentration (ug/l)

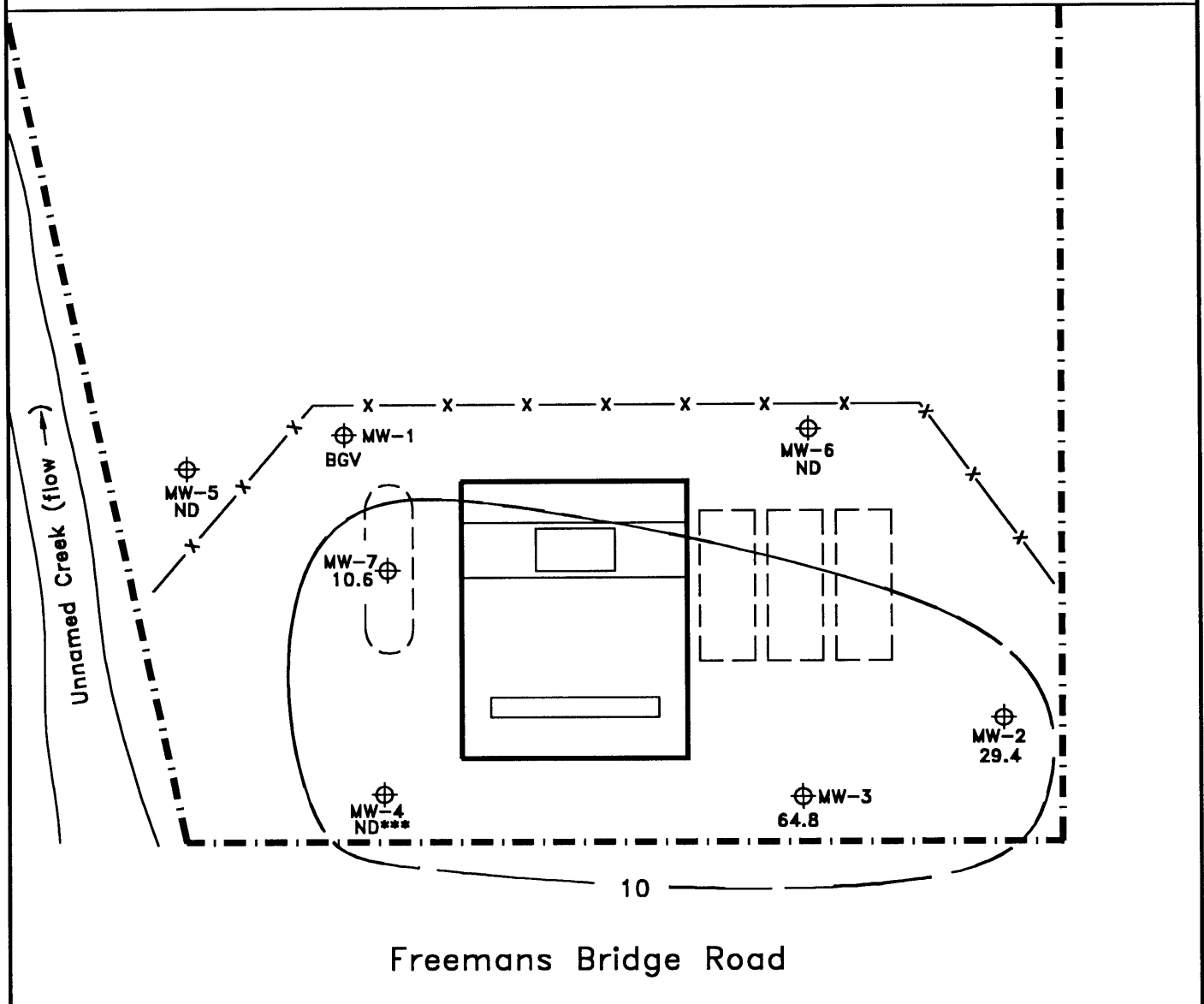
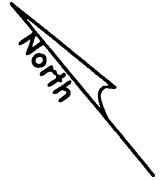
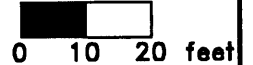
 Groundwater Naphthalene Concentration Contour (dashed where inferred)

ND Not Detected

ND*** Not Detected, Reported Detection Limit = 56 ug/l

BGV Below NYSDEC Guidance Value

Scale: (approximate)



FOSTER WHEELER ENVIRONMENTAL CORPORATION

GROUNDWATER NAPHTHALENE CONCENTRATION MAP (2/11/99)
 Drawn By: CHP
 Date: 4/12/99
 Figure Number: 8

AMERADA HESS CORP.
 (Former) Hess Station #32404
 48 Freeman's Bridge Road
 Scotia, NY

APPENDICES

APPENDIX I
Geologist Well Logs

**FOSTER WHEELER
ENVIRONMENTAL CORPORATION**
Rensselaer, New York

LOG OF BORING MW-1

(Page 1 of 1)

AMERADA HESS CORP.
(former) Hess Station #32404
48 Freemans Bridge Road
Scotia, New York

Date Complete : 9/15/98
Hole Diameter : 10 in.
Drilling Method : Hollow Stem Auger
Sampling Method : Grab

Geologist : J. Carpentier
Owner : Amerada Hess
Drilling Company : Summit Drilling
Location : (former) AHC 32404

Depth in Feet	MW-1 ELEV: 93.81	DESCRIPTION	PID (PPM)	Well Construction Information
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		<p>Fill, bricks, coal and cement mixed in fine to coarse sand.</p> <p>Grey fine sand with some gravel, wet.</p>	<p>0.0</p>	<p>WELL CONSTRUCTION Date Compl. : 9/15/98 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : J. Carpentier</p> <p>WELL CASING Material : PVC Diameter : 4 in. Joints : threaded</p> <p>WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.010 in.</p> <p>SAND PACK : Morie # 1</p> <p>ANNULUS SEAL : bentonite</p> <p>NOTES Driller noted that the well produced approximately 3 gallons per minute.</p>

4-21-1997 32404\mw-1.ge3

**FOSTER WHEELER
ENVIRONMENTAL CORPORATION**
Rensselaer, New York

LOG OF BORING MW-2

(Page 1 of 1)

AMERADA HESS CORP.
(former) Hess Station #32404
48 Freemans Bridge Road
Scotia, New York

Date Complete : 9/15/98
Hole Diameter : 10 in.
Drilling Method : Hollow Stem Auger
Sampling Method : Grab

Geologist : J. Carpentier
Owner : Amerada Hess
Drilling Company : Summit Drilling
Location : (former) AHC 32404

Depth in Feet	MW-2 ELEV: 94.03	DESCRIPTION	PID (PPM)	Well Construction Information
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		<p>Fine to coarse grey sand w/ medium gravel.</p>	0.0	<p>WELL CONSTRUCTION Date Compl. : 9/15/98 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : J. Carpentier</p> <p>WELL CASING Material : PVC Diameter : 4 in. Joints : threaded</p> <p>WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.010 in.</p> <p>SAND PACK : Morie # 1</p> <p>ANNULUS SEAL : bentonite</p>
		<p>Same as above, wet.</p>		<p>NOTES Driller noted that the well produced approximately 3 gallons per minute.</p>

4-21-1997 32404:mw-2.ge3

**FOSTER WHEELER
ENVIRONMENTAL CORPORATION**
Rensselaer, New York

LOG OF BORING MW-3

(Page 1 of 1)

AMERADA HESS CORP.
(former) Hess Station #32404
48 Freemans Bridge Road
Scotia, New York

Date Complete : 9/15/98
Hole Diameter : 10 in.
Drilling Method : Hollow Stem Auger
Sampling Method : Grab

Geologist : J. Carpentier
Owner : Amerada Hess
Drilling Company : Summit Drilling
Location : (former) AHC 32404

Depth in Feet	MW-3 ELEV: 94.44	DESCRIPTION	PID (PPM)	Well Construction Information
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		<p>Asphalt and stone.</p> <hr/> <p>Fill, bricks, coal and cement mixed in fine to coarse sand.</p> <hr/> <p>Grey fine sand with some gravel, wet.</p>	<p>2,500</p>	<p>WELL CONSTRUCTION Date Compl. : 9/15/98 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : J. Carpentier</p> <p>WELL CASING Material : PVC Diameter : 4 in. Joints : threaded</p> <p>WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.010 in.</p> <p>SAND PACK : Morie # 1</p> <p>ANNULUS SEAL : bentonite</p> <hr/> <p>NOTES Driller noted that the well produced approximately 3 gallons per minute.</p>

4-21-1997 132404.mw-3.ge3

FOSTER WHEELER ENVIRONMENTAL CORPORATION Rensselaer, New York	LOG OF BORING MW-4 (Page 1 of 1)																
AMERADA HESS CORP. (former) Hess Station #32404 48 Freemans Bridge Road Scotia, New York	<table style="width:100%; border: none;"> <tr> <td style="width:33%;">Date Complete</td><td style="width:33%;">: 9/15/98</td><td style="width:33%;">Geologist</td><td style="width:33%;">: J. Carpentier</td></tr> <tr> <td>Hole Diameter</td><td>: 10 in.</td><td>Owner</td><td>: Amerada Hess</td></tr> <tr> <td>Drilling Method</td><td>: Hollow Stem Auger</td><td>Drilling Company</td><td>: Summit Drilling</td></tr> <tr> <td>Sampling Method</td><td>: Grab</td><td>Location</td><td>: (former) AHC 32404</td></tr> </table>	Date Complete	: 9/15/98	Geologist	: J. Carpentier	Hole Diameter	: 10 in.	Owner	: Amerada Hess	Drilling Method	: Hollow Stem Auger	Drilling Company	: Summit Drilling	Sampling Method	: Grab	Location	: (former) AHC 32404
Date Complete	: 9/15/98	Geologist	: J. Carpentier														
Hole Diameter	: 10 in.	Owner	: Amerada Hess														
Drilling Method	: Hollow Stem Auger	Drilling Company	: Summit Drilling														
Sampling Method	: Grab	Location	: (former) AHC 32404														

Depth in Feet	MW-4 ELEV: 94.04	DESCRIPTION	PID (PPM)	Well Construction Information
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		<p>Asphalt and stone.</p> <hr/> <p>Grey clay with fine to medium sand, w/ fill (bricks, coal and cement).</p> <hr/> <p>Clay, sand and silt (wet).</p>	1,200	<p>WELL CONSTRUCTION</p> <p>Date Compl. : 9/15/98 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : J. Carpentier</p> <p>WELL CASING</p> <p>Material : PVC Diameter : 4 in. Joints : threaded</p> <p>WELL SCREEN</p> <p>Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.010 in.</p> <p>SAND PACK : Morie # 1</p> <p>ANNULUS SEAL : bentonite</p> <hr/> <p>NOTES</p> <p>Driller noted that the well produced approximately 3 gallons per minute.</p>

4-21-1997 32404:mw-4.gs3

**FOSTER WHEELER
ENVIRONMENTAL CORPORATION**
Rensselaer, New York

LOG OF BORING MW-5

(Page 1 of 1)

AMERADA HESS CORP.
(former) Hess Station #32404
48 Freemans Bridge Road
Scotia, New York

Date Complete : 2/11/99
Hole Diameter : 10 in.
Drilling Method : Hollow Stem Auger
Sampling Method : Grab

Geologist : C. Post
Owner : Amerada Hess
Drilling Company : Summit Drilling
Location : (former) AHC 32404

Depth in Feet	MW-5 ELEV: 93.38	DESCRIPTION	PID (PPM)	Well Construction Information
0		Topsoil and fill dirt.		WELL CONSTRUCTION Date Compl. : 2/11/99 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : C. Post WELL CASING Material : PVC Diameter : 4 in. Joints : threaded WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.020 in. SAND PACK : Morie # 2 ANNULUS SEAL : bentonite
1		Grey clay with fine to medium sand, wet at 5'. Note 6" pea stone seam at 5.5'.	0.0	
2				
3				
4				
5				
6		Grey fine sand and silt (wet).	1.4	NOTES Driller noted that the well produced approximately 1.5 gallons per minute.
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				

4-21-1997 132404:mw-5.ge3

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Rensselaer, New York

LOG OF BORING MW-6

(Page 1 of 1)

AMERADA HESS CORP.
 (former) Hess Station #32404
 48 Freemans Bridge Road
 Scotia, New York

Date Complete : 2/11/99
 Hole Diameter : 10 in.
 Drilling Method : Hollow Stem Auger
 Sampling Method : Grab

Geologist : C. Post
 Owner : Amerada Hess
 Drilling Company : Summit Drilling
 Location : (former) AHC 32404

Depth in Feet	MW-6 ELEV: 94.21	DESCRIPTION	PID (PPM)	Well Construction Information
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		<p>Fine brown sand fill.</p> <hr/> <p>Grey silt with fine to medium sand, few pebbles.</p> <hr/> <p>Grey fine sand and silt (wet).</p>	0.0 1.3 3.9	<p>WELL CONSTRUCTION Date Compl. : 2/11/99 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : C. Post</p> <p>WELL CASING Material : PVC Diameter : 4 in. Joints : threaded</p> <p>WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.020 in.</p> <p>SAND PACK : Morie # 2</p> <p>ANNULUS SEAL : bentonite</p> <hr/> <p>NOTES Driller noted that the well produced approximately 1.5 gallons per minute.</p>

4-21-1997 1:32404.mw-6.gs3

**FOSTER WHEELER
ENVIRONMENTAL CORPORATION**
Rensselaer, New York

LOG OF BORING MW-7

(Page 1 of 1)

AMERADA HESS CORP.
(former) Hess Station #32404
48 Freemans Bridge Road
Scotia, New York

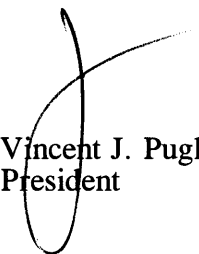
Date Complete : 2/11/99
Hole Diameter : 10 in.
Drilling Method : Hollow Stem Auger
Sampling Method : Grab

Geologist : C. Post
Owner : Amerada Hess
Drilling Company : Summit Drilling
Location : (former) AHC 32404

Depth in Feet	MW-7 ELEV: 93/97	DESCRIPTION	PID (PPM)	Well Construction Information
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		<p>Fine brown sand and gravel fill.</p> <hr/> <p>Stone (3/4-inch) fill, wet at 7'.</p> <hr/> <p>Grey silt with fine to medium sand, few pebbles.</p>	<p>0.0</p> <p>0.0</p> <p>64.3</p>	<p>WELL CONSTRUCTION Date Compl. : 2/11/99 Hole Diameter : 10 in. Drill. Method : Hollow Stem Auger Company Rep. : C. Post</p> <p>WELL CASING Material : PVC Diameter : 4 in. Joints : threaded</p> <p>WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 0.020 in.</p> <p>SAND PACK : Morie # 2</p> <p>ANNULUS SEAL : bentonite</p> <hr/> <p>NOTES Driller noted that the well produced approximately 5 gallons per minute.</p>

4-21-1997 1:32404:mwr-7.gcs3

APPENDIX II
Soil Sampling Analytical Data

Technical Report for**Foster Wheeler Environmental Corp.****Hess #32404, Freeman's Bridge Rd., Scotia, NY****32404****Accutest Job Number: E39575****Report to:****Foster Wheeler Environmental Corp.
Box 29
River Road
Rensselaer, NY 12144****ATTN: Jim Carpentier****Total number of pages in report: 16**
**Vincent J. Pugliese
President**

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, KS, MA, MD, NC, PA, RI, SC, VA

Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.



Report of Analysis

Client Sample ID: MW-1	Date Sampled: 09/15/98
Lab Sample ID: E39575-1	Date Received: 09/18/98
Matrix: SO - Soil	Percent Solids: 90.3
Method: SW846 8021B	
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NP20059.D	1	09/25/98	RFY	n/a	n/a	GNP696
Run #2							

VOA STARS List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	0.56	ug/kg	
104-51-8	n-Butylbenzene	6.4	0.56	ug/kg	
135-98-8	sec-Butylbenzene	1.2	0.56	ug/kg	
98-06-6	tert-Butylbenzene	ND	0.56	ug/kg	
100-41-4	Ethylbenzene	4.1	0.56	ug/kg	
98-82-8	Isopropylbenzene	1.5	0.56	ug/kg	
99-87-6	p-Isopropyltoluene	ND	0.56	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.56	ug/kg	
91-20-3	Naphthalene	1.1	0.56	ug/kg	
103-65-1	n-Propylbenzene	2.6	0.56	ug/kg	
108-88-3	Toluene	ND	0.56	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	11.2	0.56	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	5.9	0.56	ug/kg	
1330-20-7	Xylenes (total)	13.2	0.56	ug/kg	
95-47-6	o-Xylene	3.0	0.56	ug/kg	
	m,p-Xylene	10.1	0.56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	87%		50-150%
462-06-6	Fluorobenzene	83%		50-150%
98-08-8	aaa-Trifluorotoluene	100%		50-150%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-1		Date Sampled: 09/15/98
Lab Sample ID: E39575-1		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 90.3
Method: SW846 8270C		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H21284.D	2	09/24/98	JYZ	09/18/98	OP4215	EH1740
Run #2							

BN STARS List

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	370	ug/kg	
120-12-7	Anthracene	163	370	ug/kg	J
56-55-3	Benzo(a)anthracene	763	370	ug/kg	
50-32-8	Benzo(a)pyrene	674	370	ug/kg	
205-99-2	Benzo(b)fluoranthene	681	370	ug/kg	
191-24-2	Benzo(g,h,i)perylene	354	370	ug/kg	J
207-08-9	Benzo(k)fluoranthene	509	370	ug/kg	
218-01-9	Chrysene	754	370	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	186	370	ug/kg	J
206-44-0	Fluoranthene	1610	370	ug/kg	
86-73-7	Fluorene	ND	370	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	358	370	ug/kg	J
91-20-3	Naphthalene	26.6	370	ug/kg	J
85-01-8	Phenanthrene	761	370	ug/kg	
129-00-0	Pyrene	1290	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		23-120%
321-60-8	2-Fluorobiphenyl	80%		30-115%
1718-51-0	Terphenyl-d14	87%		18-137%

(a) Dilution required due to viscosity of extract matrix

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-2		Date Sampled: 09/15/98
Lab Sample ID: E39575-2		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 90.6
Method: SW846 8021B		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NP20060.D	1	09/25/98	RFY	n/a	n/a	GNP696
Run #2							

VOA STARS List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	0.55	ug/kg	
104-51-8	n-Butylbenzene	8.2	0.55	ug/kg	
135-98-8	sec-Butylbenzene	3.8	0.55	ug/kg	
98-06-6	tert-Butylbenzene	ND	0.55	ug/kg	
100-41-4	Ethylbenzene	1.7	0.55	ug/kg	
98-82-8	Isopropylbenzene	ND	0.55	ug/kg	
99-87-6	p-Isopropyltoluene	ND	0.55	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.55	ug/kg	
91-20-3	Naphthalene	22.0	0.55	ug/kg	
103-65-1	n-Propylbenzene	3.3	0.55	ug/kg	
108-88-3	Toluene	ND	0.55	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	3.5	0.55	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.9	0.55	ug/kg	
1330-20-7	Xylenes (total)	2.4	0.55	ug/kg	
95-47-6	o-Xylene	0.97	0.55	ug/kg	
	m,p-Xylene	1.5	0.55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	87%		50-150%
462-06-6	Fluorobenzene	80%		50-150%
98-08-8	aaa-Trifluorotoluene	96%		50-150%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-2		Date Sampled: 09/15/98
Lab Sample ID: E39575-2		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 90.6
Method: SW846 8270C		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H21285.D	1	09/24/98	JYZ	09/18/98	OP4215	EH1740
Run #2							

BN STARS List

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	175	180	ug/kg	J
120-12-7	Anthracene	215	180	ug/kg	
56-55-3	Benzo(a)anthracene	438	180	ug/kg	
50-32-8	Benzo(a)pyrene	394	180	ug/kg	
205-99-2	Benzo(b)fluoranthene	364	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	160	180	ug/kg	J
207-08-9	Benzo(k)fluoranthene	341	180	ug/kg	
218-01-9	Chrysene	442	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	103	180	ug/kg	J
206-44-0	Fluoranthene	975	180	ug/kg	
86-73-7	Fluorene	155	180	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	158	180	ug/kg	J
91-20-3	Naphthalene	1200	180	ug/kg	
85-01-8	Phenanthrene	805	180	ug/kg	
129-00-0	Pyrene	728	180	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		23-120%
321-60-8	2-Fluorobiphenyl	76%		30-115%
1718-51-0	Terphenyl-d14	83%		18-137%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-3		Date Sampled: 09/15/98
Lab Sample ID: E39575-3		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 84.6
Method: SW846 8021B		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NP20075.D	625	09/26/98	RFY	n/a	n/a	GNP697
Run #2							

VOA STARS List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	370	ug/kg	
104-51-8	n-Butylbenzene	ND	370	ug/kg	
135-98-8	sec-Butylbenzene	ND	370	ug/kg	
98-06-6	tert-Butylbenzene	ND	370	ug/kg	
100-41-4	Ethylbenzene	3160	370	ug/kg	
98-82-8	Isopropylbenzene	1080	370	ug/kg	
99-87-6	p-Isopropyltoluene	ND	370	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	370	ug/kg	
91-20-3	Naphthalene	12200	370	ug/kg	
103-65-1	n-Propylbenzene	ND	370	ug/kg	
108-88-3	Toluene	ND	370	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	19500	370	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	4900	370	ug/kg	
1330-20-7	Xylenes (total)	14300	370	ug/kg	
95-47-6	o-Xylene	1510	370	ug/kg	
	m,p-Xylene	12800	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	98%		50-150%
462-06-6	Fluorobenzene	112%		50-150%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-3		Date Sampled: 09/15/98
Lab Sample ID: E39575-3		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 84.6
Method: SW846 8270C		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H21262.D	5	09/24/98	JYZ	09/18/98	OP4215	EH1739
Run #2							

BN STARS List

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	980	ug/kg	
120-12-7	Anthracene	ND	980	ug/kg	
56-55-3	Benzo(a)anthracene	90.7	980	ug/kg	J
50-32-8	Benzo(a)pyrene	107	980	ug/kg	J
205-99-2	Benzo(b)fluoranthene	58.4	980	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	980	ug/kg	
207-08-9	Benzo(k)fluoranthene	53.5	980	ug/kg	J
218-01-9	Chrysene	132	980	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	980	ug/kg	
206-44-0	Fluoranthene	126	980	ug/kg	J
86-73-7	Fluorene	ND	980	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	980	ug/kg	
91-20-3	Naphthalene	11200	980	ug/kg	
85-01-8	Phenanthrene	165	980	ug/kg	J
129-00-0	Pyrene	166	980	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		23-120%
321-60-8	2-Fluorobiphenyl	70%		30-115%
1718-51-0	Terphenyl-d14	80%		18-137%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-4		Date Sampled: 09/15/98
Lab Sample ID: E39575-4		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 84.0
Method: SW846 8021B		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NP20076.D	2500	09/26/98	RFY	n/a	n/a	GNP697
Run #2							

VOA STARS List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	1810	1500	ug/kg	
104-51-8	n-Butylbenzene	ND	1500	ug/kg	
135-98-8	sec-Butylbenzene	ND	1500	ug/kg	
98-06-6	tert-Butylbenzene	ND	1500	ug/kg	
100-41-4	Ethylbenzene	11600	1500	ug/kg	
98-82-8	Isopropylbenzene	ND	1500	ug/kg	
99-87-6	p-Isopropyltoluene	ND	1500	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1500	ug/kg	
91-20-3	Naphthalene	17800	1500	ug/kg	
103-65-1	n-Propylbenzene	14900	1500	ug/kg	
108-88-3	Toluene	18800	1500	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	41900	1500	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	11300	1500	ug/kg	
1330-20-7	Xylenes (total)	64100	1500	ug/kg	
95-47-6	o-Xylene	18000	1500	ug/kg	
	m,p-Xylene	46100	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	96%		50-150%
462-06-6	Fluorobenzene	113%		50-150%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: MW-4		Date Sampled: 09/15/98
Lab Sample ID: E39575-4		Date Received: 09/18/98
Matrix: SO - Soil		Percent Solids: 84.0
Method: SW846 8270C		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H21263.D	1	09/24/98	JYZ	09/18/98	OP4215	EH1739
Run #2							

BN STARS List

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	200	ug/kg	
120-12-7	Anthracene	ND	200	ug/kg	
56-55-3	Benzo(a)anthracene	10.6	200	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	200	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	ug/kg	
218-01-9	Chrysene	22.8	200	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	200	ug/kg	
206-44-0	Fluoranthene	18.9	200	ug/kg	J
86-73-7	Fluorene	22.6	200	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	ug/kg	
91-20-3	Naphthalene	3640	200	ug/kg	
85-01-8	Phenanthrene	28.1	200	ug/kg	J
129-00-0	Pyrene	25.0	200	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		23-120%
321-60-8	2-Fluorobiphenyl	80%		30-115%
1718-51-0	Terphenyl-d14	96%		18-137%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Technical Report for

Foster Wheeler Environmental Corp.

Hess #32404, Freeman's Bridge Rd., Scotia, NY

32404

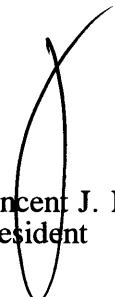
Accutest Job Number: E45543

Report to:

Foster Wheeler Environmental Corp.
Box 29
River Road
Rensselaer, NY 12144

ATTN: Charles Post

Total number of pages in report: 6



Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, KS, MA, MD, NC, PA, RI, SC, VA
Results relate only to the items tested.

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Sample Summary

Foster Wheeler Environmental Corp.

Date: 02/26/99

Job No: E45543

Hess #32404, Freeman's Bridge Rd., Scotia, NY
Project No: 32404

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
E45543-1	02/11/99	00:00 CP	02/13/99	SO	Soil	SOIL/GROUNDWATER INTERFACE MW-6
E45543-2	02/11/99	00:00 CP	02/13/99	SO	Soil	SOIL/GROUNDWATER INTERFACE MW-5



Report of Analysis

Client Sample ID:	SOIL/GROUNDWATER INTERFACE MW-6		
Lab Sample ID:	E45543-1	Date Sampled:	02/11/99
Matrix:	SO - Soil	Date Received:	02/13/99
Method:	SW846 8270C	Percent Solids:	78.8
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1425.D	1	02/16/99	WHS	02/15/99	OP4943	EM37
Run #2							

BN STARS List

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	210	ug/kg	
120-12-7	Anthracene	ND	210	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	ug/kg	
218-01-9	Chrysene	ND	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	ug/kg	
206-44-0	Fluoranthene	ND	210	ug/kg	
86-73-7	Fluorene	ND	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	ug/kg	
91-20-3	Naphthalene	ND	210	ug/kg	
85-01-8	Phenanthrene	ND	210	ug/kg	
129-00-0	Pyrene	ND	210	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	45%		23-120%
321-60-8	2-Fluorobiphenyl	49%		30-115%
1718-51-0	Terphenyl-d14	56%		18-137%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID:	SOIL/GROUNDWATER INTERFACE MW-6		
Lab Sample ID:	E45543-1	Date Sampled:	02/11/99
Matrix:	SO - Soil	Date Received:	02/13/99
Method:	SW846 8021B	Percent Solids:	78.8
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NP22767.D	10	02/24/99	YXL	n/a	n/a	GNP797
Run #2							

VOA STARS List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	6.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.4	ug/kg	
100-41-4	Ethylbenzene	ND	6.4	ug/kg	
98-82-8	Isopropylbenzene	ND	6.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	164	6.4	ug/kg	
91-20-3	Naphthalene	ND	6.4	ug/kg	
103-65-1	n-Propylbenzene	ND	6.4	ug/kg	
108-88-3	Toluene	ND	6.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	ug/kg	
1330-20-7	Xylenes (total)	ND	6.4	ug/kg	
95-47-6	o-Xylene	ND	6.4	ug/kg	
	m,p-Xylene	ND	6.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	89%		50-150%
462-06-6	Fluorobenzene	94%		50-150%
98-08-8	aaa-Trifluorotoluene	84%		50-150%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID:	SOIL/GROUNDWATER INTERFACE MW-5		
Lab Sample ID:	E45543-2	Date Sampled:	02/11/99
Matrix:	SO - Soil	Date Received:	02/13/99
Method:	SW846 8270C	Percent Solids:	91.2
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M1462.D	2	02/17/99	WHS	02/15/99	OP4943	EM38
Run #2							

BN STARS List

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	360	ug/kg	
120-12-7	Anthracene	58.9	360	ug/kg	J
56-55-3	Benzo(a)anthracene	111	360	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	81.8	360	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
218-01-9	Chrysene	114	360	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
206-44-0	Fluoranthene	219	360	ug/kg	J
86-73-7	Fluorene	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	66.9	360	ug/kg	J
91-20-3	Naphthalene	ND	360	ug/kg	
85-01-8	Phenanthrene	143	360	ug/kg	J
129-00-0	Pyrene	176	360	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		23-120%
321-60-8	2-Fluorobiphenyl	65%		30-115%
1718-51-0	Terphenyl-d14	56%		18-137%

(a) Dilution required due to viscosity of extract matrix

<p>ND = Not detected</p> <p>RDL = Reported Detection Limit</p> <p>E = Indicates value exceeds calibration range</p>	<p>J = Indicates an estimated value</p> <p>B = Indicates analyte found in associated method blank</p> <p>N = Indicates presumptive evidence of a compound</p>
---	---



Report of Analysis

Client Sample ID:	SOIL/GROUNDWATER INTERFACE MW-5		
Lab Sample ID:	E45543-2	Date Sampled:	02/11/99
Matrix:	SO - Soil	Date Received:	02/13/99
Method:	SW846 8021B	Percent Solids:	91.2
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NP22744.D	1	02/23/99	YXL	n/a	n/a	GNP797
Run #2							

VOA STARS List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	0.54	ug/kg	
104-51-8	n-Butylbenzene	ND	0.54	ug/kg	
135-98-8	sec-Butylbenzene	ND	0.54	ug/kg	
98-06-6	tert-Butylbenzene	ND	0.54	ug/kg	
100-41-4	Ethylbenzene	ND	0.54	ug/kg	
98-82-8	Isopropylbenzene	ND	0.54	ug/kg	
99-87-6	p-Isopropyltoluene	ND	0.54	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8	0.54	ug/kg	
91-20-3	Naphthalene	ND	0.54	ug/kg	
103-65-1	n-Propylbenzene	ND	0.54	ug/kg	
108-88-3	Toluene	ND	0.54	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.54	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.54	ug/kg	
1330-20-7	Xylenes (total)	ND	0.54	ug/kg	
95-47-6	o-Xylene	ND	0.54	ug/kg	
	m,p-Xylene	ND	0.54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3017-95-6	2-Bromo-1-chloropropane	100%		50-150%
462-06-6	Fluorobenzene	97%		50-150%
98-08-8	aaa-Trifluorotoluene	85%		50-150%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

APPENDIX III
Groundwater Sampling Analytical Data

Technical Report for

Foster Wheeler Environmental Corp.

Hess #32404, Freeman's Bridge Rd., Scotia, NY

32404


Accutest Job Number: E46107

Report to:

Foster Wheeler Environmental Corp.
Box 29
River Road
Rensselaer, NY 12144

ATTN: Charles Post

Total number of pages in report:


Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, KS, MA, MD, NC, PA, RI, SC, VA

Results relate only to the items tested.

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Sample Summary

Foster Wheeler Environmental Corp.

Date: 04/21/99

Hess #32404, Freeman's Bridge Rd., Scotia, NY

Job No: E46107

Project No: 32404

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
E46107-1	02/25/99	12:40 CP	02/26/99	AQ	Ground Water	MW-1
E46107-2	02/25/99	13:40 CP	02/26/99	AQ	Ground Water	MW-2
E46107-3	02/25/99	14:42 CP	02/26/99	AQ	Ground Water	MW-3
E46107-4	02/25/99	11:40 CP	02/26/99	AQ	Ground Water	MW-4
E46107-5	02/25/99	12:05 CP	02/26/99	AQ	Ground Water	MW-5
E46107-6	02/25/99	15:10 CP	02/26/99	AQ	Ground Water	MW-6
E46107-7	02/25/99	12:59 CP	02/26/99	AQ	Ground Water	MW-7

Report of Analysis

Client Sample ID: MW-1		Date Sampled: 02/25/99
Lab Sample ID: E46107-1		Date Received: 02/26/99
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.0		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22334.D	1	03/10/99	HYX	n/a	n/a	VA526
Run #2	A22349.D	2	03/10/99	HYX	n/a	n/a	VA526

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	8.5	0.14	ug/l	
108-86-1	Bromobenzene	ND	0.31	ug/l	
104-51-8	n-Butylbenzene	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.89	0.23	ug/l	
98-06-6	tert-Butylbenzene	ND	0.20	ug/l	
108-90-7	Chlorobenzene	ND	0.14	ug/l	
95-49-8	o-Chlorotoluene	ND	0.27	ug/l	
106-43-4	p-Chlorotoluene	ND	0.28	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.34	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.38	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.37	ug/l	
100-41-4	Ethylbenzene	0.66	0.18	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.34	ug/l	
98-82-8	Isopropylbenzene	ND	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.30	0.23	ug/l	
1634-04-4	Methyl Tert Butyl Ether	50.6 ^a	0.88	ug/l	
91-20-3	Naphthalene	2.7	0.28	ug/l	
103-65-1	n-Propylbenzene	8.1	0.26	ug/l	
100-42-5	Styrene	ND	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.44	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	46.8 ^a	0.40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.0	0.25	ug/l	
127-18-4	Tetrachloroethylene	ND	0.17	ug/l	
108-88-3	Toluene	ND	0.12	ug/l	
79-01-6	Trichloroethylene	ND	0.19	ug/l	
1330-20-7	Xylenes (total)	2.4	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	93%	91%	61-118%
460-00-4	4-Bromofluorobenzene	94%	89%	65-116%

(a) Result is from Run# 2

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	02/25/99
Lab Sample ID:	E46107-2	Date Received:	02/26/99
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.0		
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22317.D	50	03/09/99	HYX	n/a	n/a	VA526
Run #2							

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	567	7.0	ug/l	
108-86-1	Bromobenzene	ND	16	ug/l	
104-51-8	n-Butylbenzene	ND	14	ug/l	
135-98-8	sec-Butylbenzene	ND	12	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	7.0	ug/l	
95-49-8	o-Chlorotoluene	ND	14	ug/l	
106-43-4	p-Chlorotoluene	ND	14	ug/l	
541-73-1	m-Dichlorobenzene	ND	17	ug/l	
95-50-1	o-Dichlorobenzene	ND	19	ug/l	
106-46-7	p-Dichlorobenzene	ND	18	ug/l	
100-41-4	Ethylbenzene	166	9.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	17	ug/l	
98-82-8	Isopropylbenzene	8.4	10	ug/l	J
99-87-6	p-Isopropyltoluene	ND	12	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	22	ug/l	
91-20-3	Naphthalene	29.4	14	ug/l	
103-65-1	n-Propylbenzene	24.7	13	ug/l	
100-42-5	Styrene	ND	16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	231	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	56.7	12	ug/l	
127-18-4	Tetrachloroethylene	ND	8.5	ug/l	
108-88-3	Toluene	19.0	6.0	ug/l	
79-01-6	Trichloroethylene	ND	9.5	ug/l	
1330-20-7	Xylenes (total)	676	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		61-118%
460-00-4	4-Bromofluorobenzene	88%		65-116%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3		Date Sampled: 02/25/99
Lab Sample ID: E46107-3		Date Received: 02/26/99
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.0		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22318.D	500	03/09/99	HYX	n/a	n/a	VA526
Run #2							

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	15900	70	ug/l	
108-86-1	Bromobenzene	ND	160	ug/l	
104-51-8	n-Butylbenzene	ND	140	ug/l	
135-98-8	sec-Butylbenzene	ND	120	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	70	ug/l	
95-49-8	o-Chlorotoluene	ND	140	ug/l	
106-43-4	p-Chlorotoluene	ND	140	ug/l	
541-73-1	m-Dichlorobenzene	ND	170	ug/l	
95-50-1	o-Dichlorobenzene	ND	190	ug/l	
106-46-7	p-Dichlorobenzene	ND	180	ug/l	
100-41-4	Ethylbenzene	1120	90	ug/l	
87-68-3	Hexachlorobutadiene	ND	170	ug/l	
98-82-8	Isopropylbenzene	25.6	100	ug/l	J
99-87-6	p-Isopropyltoluene	ND	120	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	220	ug/l	
91-20-3	Naphthalene	64.8	140	ug/l	J
103-65-1	n-Propylbenzene	65.6	130	ug/l	J
100-42-5	Styrene	ND	160	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	220	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	140	ug/l	
95-63-6	1,2,4-Trimethylbenzene	534	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	124	120	ug/l	
127-18-4	Tetrachloroethylene	ND	85	ug/l	
108-88-3	Toluene	2460	60	ug/l	
79-01-6	Trichloroethylene	ND	95	ug/l	
1330-20-7	Xylenes (total)	5330	140	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	86%		61-118%
460-00-4	4-Bromofluorobenzene	88%		65-116%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4	Date Sampled:	02/25/99
Lab Sample ID:	E46107-4	Date Received:	02/26/99
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.0		
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22330.D	200	03/10/99	HYX	n/a	n/a	VA526
Run #2							

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	5150	28	ug/l	
108-86-1	Bromobenzene	ND	62	ug/l	
104-51-8	n-Butylbenzene	ND	56	ug/l	
135-98-8	sec-Butylbenzene	ND	46	ug/l	
98-06-6	tert-Butylbenzene	ND	40	ug/l	
108-90-7	Chlorobenzene	ND	28	ug/l	
95-49-8	o-Chlorotoluene	ND	54	ug/l	
106-43-4	p-Chlorotoluene	ND	56	ug/l	
541-73-1	m-Dichlorobenzene	ND	68	ug/l	
95-50-1	o-Dichlorobenzene	ND	76	ug/l	
106-46-7	p-Dichlorobenzene	ND	74	ug/l	
100-41-4	Ethylbenzene	228	36	ug/l	
87-68-3	Hexachlorobutadiene	ND	68	ug/l	
98-82-8	Isopropylbenzene	16.9	40	ug/l	J
99-87-6	p-Isopropyltoluene	ND	46	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	88	ug/l	
91-20-3	Naphthalene	ND	56	ug/l	
103-65-1	n-Propylbenzene	41.2	52	ug/l	J
100-42-5	Styrene	ND	66	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	88	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	58	ug/l	
95-63-6	1,2,4-Trimethylbenzene	155	40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	37.1	50	ug/l	J
127-18-4	Tetrachloroethylene	ND	34	ug/l	
108-88-3	Toluene	1060	24	ug/l	
79-01-6	Trichloroethylene	ND	38	ug/l	
1330-20-7	Xylenes (total)	1050	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	90%		61-118%
460-00-4	4-Bromofluorobenzene	88%		65-116%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5	Date Sampled:	02/25/99
Lab Sample ID:	E46107-5	Date Received:	02/26/99
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.0		
Project:	Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22331.D	1	03/10/99	HYX	n/a	n/a	VA526
Run #2							

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	0.14	ug/l	
108-86-1	Bromobenzene	ND	0.31	ug/l	
104-51-8	n-Butylbenzene	ND	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	0.23	ug/l	
98-06-6	tert-Butylbenzene	ND	0.20	ug/l	
108-90-7	Chlorobenzene	ND	0.14	ug/l	
95-49-8	o-Chlorotoluene	ND	0.27	ug/l	
106-43-4	p-Chlorotoluene	ND	0.28	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.34	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.38	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.37	ug/l	
100-41-4	Ethylbenzene	ND	0.18	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.34	ug/l	
98-82-8	Isopropylbenzene	ND	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.23	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18.9	0.44	ug/l	
91-20-3	Naphthalene	ND	0.28	ug/l	
103-65-1	n-Propylbenzene	ND	0.26	ug/l	
100-42-5	Styrene	ND	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.44	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.25	ug/l	
127-18-4	Tetrachloroethylene	ND	0.17	ug/l	
108-88-3	Toluene	ND	0.12	ug/l	
79-01-6	Trichloroethylene	ND	0.19	ug/l	
1330-20-7	Xylenes (total)	ND	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	90%		61-118%
460-00-4	4-Bromofluorobenzene	95%		65-116%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-6		Date Sampled: 02/25/99
Lab Sample ID: E46107-6		Date Received: 02/26/99
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.0		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22332.D	20	03/10/99	HYX	n/a	n/a	VA526
Run #2	A22353.D	50	03/10/99	HYX	n/a	n/a	VA526

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	175	2.8	ug/l	
108-86-1	Bromobenzene	ND	6.2	ug/l	
104-51-8	n-Butylbenzene	ND	5.6	ug/l	
135-98-8	sec-Butylbenzene	ND	4.6	ug/l	
98-06-6	tert-Butylbenzene	ND	4.0	ug/l	
108-90-7	Chlorobenzene	ND	2.8	ug/l	
95-49-8	o-Chlorotoluene	ND	5.4	ug/l	
106-43-4	p-Chlorotoluene	ND	5.6	ug/l	
541-73-1	m-Dichlorobenzene	ND	6.8	ug/l	
95-50-1	o-Dichlorobenzene	ND	7.6	ug/l	
106-46-7	p-Dichlorobenzene	ND	7.4	ug/l	
100-41-4	Ethylbenzene	ND	3.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	6.8	ug/l	
98-82-8	Isopropylbenzene	5.5	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	4.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1800 ^a	22	ug/l	
91-20-3	Naphthalene	ND	5.6	ug/l	
103-65-1	n-Propylbenzene	3.9	5.2	ug/l	J
100-42-5	Styrene	ND	6.6	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	8.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	3.4	ug/l	
108-88-3	Toluene	ND	2.4	ug/l	
79-01-6	Trichloroethylene	ND	3.8	ug/l	
1330-20-7	Xylenes (total)	ND	5.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	86 %	81 %	61-118%
460-00-4	4-Bromofluorobenzene	88 %	83 %	65-116%

(a) Result is from Run# 2

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-7		Date Sampled: 02/25/99
Lab Sample ID: E46107-7		Date Received: 02/26/99
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.0		
Project: Hess #32404, Freeman's Bridge Rd., Scotia, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A22333.D	20	03/10/99	HYX	n/a	n/a	VA526
Run #2							

VOA List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	267	2.8	ug/l	
108-86-1	Bromobenzene	ND	6.2	ug/l	
104-51-8	n-Butylbenzene	2.7	5.6	ug/l	J
135-98-8	sec-Butylbenzene	ND	4.6	ug/l	
98-06-6	tert-Butylbenzene	ND	4.0	ug/l	
108-90-7	Chlorobenzene	ND	2.8	ug/l	
95-49-8	o-Chlorotoluene	ND	5.4	ug/l	
106-43-4	p-Chlorotoluene	ND	5.6	ug/l	
541-73-1	m-Dichlorobenzene	ND	6.8	ug/l	
95-50-1	o-Dichlorobenzene	ND	7.6	ug/l	
106-46-7	p-Dichlorobenzene	ND	7.4	ug/l	
100-41-4	Ethylbenzene	21.6	3.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	6.8	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	ug/l	
99-87-6	p-Isopropyltoluene	1.7	4.6	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	8.8	ug/l	
91-20-3	Naphthalene	10.6	5.6	ug/l	
103-65-1	n-Propylbenzene	16.8	5.2	ug/l	
100-42-5	Styrene	ND	6.6	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	8.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	ug/l	
95-63-6	1,2,4-Trimethylbenzene	111	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	27.0	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	3.4	ug/l	
108-88-3	Toluene	ND	2.4	ug/l	
79-01-6	Trichloroethylene	ND	3.8	ug/l	
1330-20-7	Xylenes (total)	65.2	5.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	93 %		61-118%
460-00-4	4-Bromofluorobenzene	93 %		65-116%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

FRESH PONDS CORPORATE VILLAGE, BUILDING B
 2235 ROUTE 130, DAYTON, NJ 08810
 732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #: E46101
 ACCUTEST QUOTE #:

CLIENT INFORMATION | **FACILITY INFORMATION** | **ANALYTICAL INFORMATION** | **MATRIX CODES**

NAME: FULENK
 ADDRESS: River Rd
 CITY: Rensselaer NY STATE: NY ZIP: _____
 SEND REPORT TO: _____
 PHONE #: _____

PROJECT NAME: (Former) AHC 32404
 LOCATION: Scoti, NY
 PROJECT NO.: _____
 FAX #: _____

EPA 503.1
 DW - DRINKING WATER
 GW - GROUND WATER
 WW - WASTE WATER
 SO - SOIL
 SI - SLUDGE
 LIQ - OTHER LIQUID
 SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		MATRIX	# OF BOTTLES	PRESERVATION					LAB USE ONLY	
		DATE	TIME			SAMPLED BY:	IC	HO	FO	SO		NONE
-1	MW-1	2/25/99	12:40	CD	3	X						436
-2	MW-2	2/25/99	13:40	CD	3	X						
-3	MW-3	2/25/99	14:42	CD	3	X						
-4	MW-4	2/25/99	11:40	CD	3	X						
-5	MW-5	2/25/99	12:05	CD	3	X						
-6	MW-6	2/25/99	15:10	CD	3	X						
-7	MW-7	2/25/99	12:59	CD	3	X						

DATA TURNAROUND INFORMATION | **DATA DELIVERABLE INFORMATION** | **COMMENTS/REMARKS**

21 DAYS STANDARD APPROVED BY: _____
 14 DAYS RUSH
 7 DAYS EMERGENCY
 OTHER _____
 21 DAY TURNAROUND HARD COPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED
 NJ REDUCED
 NJ FULL
 FULL CLP
 DISK DELIVERABLE
 OTHER (SPECIFY) _____
 COMMERCIAL "A"
 COMMERCIAL "B"
 STATE FORMS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____
 RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____
 RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____
 RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____
 SEAL # _____ PRESERVE WHEN APPLICABLE _____ ON ICE _____ TEMPERATURE _____