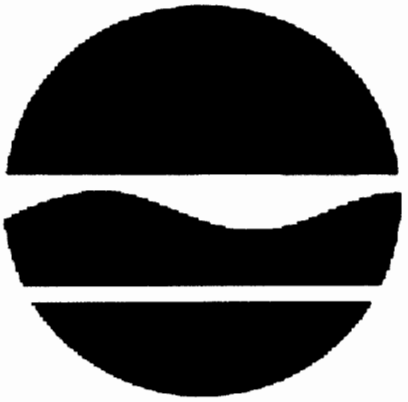
Monitoring Plan
North East Alloys
Oneida County
NYSDEC Site # 6-33-045



625 Broadway
Albany, NY 12233-7013
518-402-9812

Date: September 2, 2004

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1.0 Site Summary

Background Information

The Northeast Alloys and Metals Site is located near the Herkimer-Oneida County border along Route 5S. The surrounding area is mostly commercial. A mall is located south of the facility. NYS Route 5S and the Erie-Lackawanna Railroad runs east-west, approximately 1500 feet north of the site. The Mohawk River is located approximately 1800 feet north of the site (see Section 3 for site map). The site was used as a scrap and salvage facility from January of 1989 to October of 1991. In July of 1989, an underground fuel tank on the property was excavated and found to be leaking. A subsequent investigation revealed that the groundwater was also contaminated with chlorinated solvents at levels in excess of the 6 NYCRR Part 703 Groundwater Standards. It is believed that this contamination resulted from solvents spilled on the ground during the process of degreasing scrap metals. The PRP conducted its own limited site investigation in 1995. The investigation further quantified the extent of groundwater and soil-gas contamination.

A Consent Order was signed in February of 1997. A Remedial Investigation / Feasibility Study (RI/FS) was completed in late 1997, a Record of Decision (ROD) was signed in March of 1998, and a State Superfund (SSF) Remedial Design / Remedial Action (RD/RA) was subsequently completed. The RD was finished in March of 2000, remedial work was completed by March of 2001, and the remedy is working. An operation, maintenance, and monitoring (OM&M) program is currently in-place, and the most recent round of groundwater sampling was completed in December of 2002.

Remedy

A groundwater collection and treatment system was installed in 2000, as required by the Record of Decision (ROD), and treats contaminated water in order to discharge to the local POTW. There also was excavation of contaminated soil in 2001, in the east gate area of the site, to meet soil cleanup goals (TAGM 4046 Soil Cleanup Objectives). A site-wide maintenance and monitoring program has been implemented, to ensure that the remedial program is effective and that the remedial action goals are obtained. Deed restrictions have been placed on groundwater use, as institutional controls, until groundwater standards are obtained.

2.0 Monitoring Requirements and Results

Groundwater Monitoring Requirements

To monitor the site's groundwater, 8 monitoring wells were drilled, (see section 7, page 1 and Section 4), and these wells should currently be monitored quarterly for the contaminants-of-concern (COC's), for two years, then potentially less frequently, as approved by DEC. Samples have not been conducted as planned. To date, collected samples have been analyzed by the DER laboratory for VOC's, using EPA 624 method.

Table 1. Northeast Alloys and Metals
Quarterly Groundwater Monitoring Requirements

Monitoring Well	Contaminants-of-Concern	Water Quality Criteria (ppb)	Detection Limit (ppb)
MW-1 through MW-12 (All COC's)	1,1,1-Trichloroethane	5	0.5
	1,1,2-Trichloroethane	1	0.5
	1,1-Dichloroethane	5	0.5
	1,1-Dichloroethene	5	0.5
	1,2-Dichloroethane	0.6	0.5
	1,2-Dichloroethene	5	0.5
	Benzene	1	0.5
	Chlorobenzene	5	0.5
	Ethylbenzene	5	0.5
	Methylene Chloride	5	0.5
	Toluene	5	0.5
	Trichloroethene	5	0.5
	Vinyl Chloride	2	0.5
	Xylene	5	0.5

1- See Section 4, page 17 for conditions, coordinates, and details of all wells on-site.
2-NYSDEC. Division of Water Technical and Operational Guidance Series (1,1,1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. 1998

Groundwater Monitoring Results

The data show that contaminants-of-concern are present in the monitoring wells above the minimum groundwater standards. The table below illustrates the downward trend of groundwater contamination based on results from 4/1999, 7/2001, and 12/2002. In some cases, the standards appear to be achieved. The data from 1999 was used because it was before the soil excavation. This gave us pre-cleanup data. Years 2001 and 2002 were used to show contamination trends after the soil excavation. Monitoring well 12 was used because it was down-gradient from the main building and it gave us a good representation of the other wells at the site. The last time that the site was sampled was in December of 2004. It also appears that at this point, a detection limit of 0.5 ppb should be used.

Table 2- Groundwater Monitoring Data Summary for NE Alloys For MW-12 *

Contaminant of Concern	Groundwater Standard	Monitoring Date		
		4/12/99 **	7/6/01	12/16/02
1,1,1Trichloroethane	5 ppb	12 ppb	10 ppb	5200 ppb (D)
1,1,2 Trichloroethane	1 ppb	10 ppb	3 ppb (J) ***	4 ppb (J)
Dichloroethane	0.6 ppb	30 - 10 ppb	54 - 1 ppb	10 - 1 ppb
Dichloroethene.	5 ppb	110 ppb	2 ppb	10 ppb (J)
Benzene	1 ppb	10 ppb (U)	10 ppb (U)	10 ppb (J)
Chlorobenzene	5 ppb	10 ppb (U)	10 ppb (U)	10 ppb (U)
Ethylbenzene	5 ppb	10 ppb (U)	10 ppb (U)	10 ppb (U)
Methylene Chloride	5 ppb	10 ppb (U)	0.7 ppb (J)	10 ppb (J)
Toluene	5 ppb	10 ppb (U)	10 ppb (U)	**1 ppb (J)**
Vinyl Chloride	2 ppb	23 ppb	19 ppb	950 ppb (J)
Xylene	5 ppb	10 ppb (U)	10 ppb (U)	**4 ppb (J)**

* Data for down-gradient Monitoring Well 12 represents the average conditions at the site.
** Pre-soil-cleanup monitoring data.
*** See Quality Assurance Key on the following page.
Bold = Groundwater contaminant levels are below the groundwater standard.
Shaded = Groundwater contaminant levels show a decreasing trend.

Quality Assurance Key:

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

U - Indicates compound was analyzed for but not detected. This is with the detection limit set at the groundwater standard for the contaminant. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the Protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, The reported limit is 100 U.

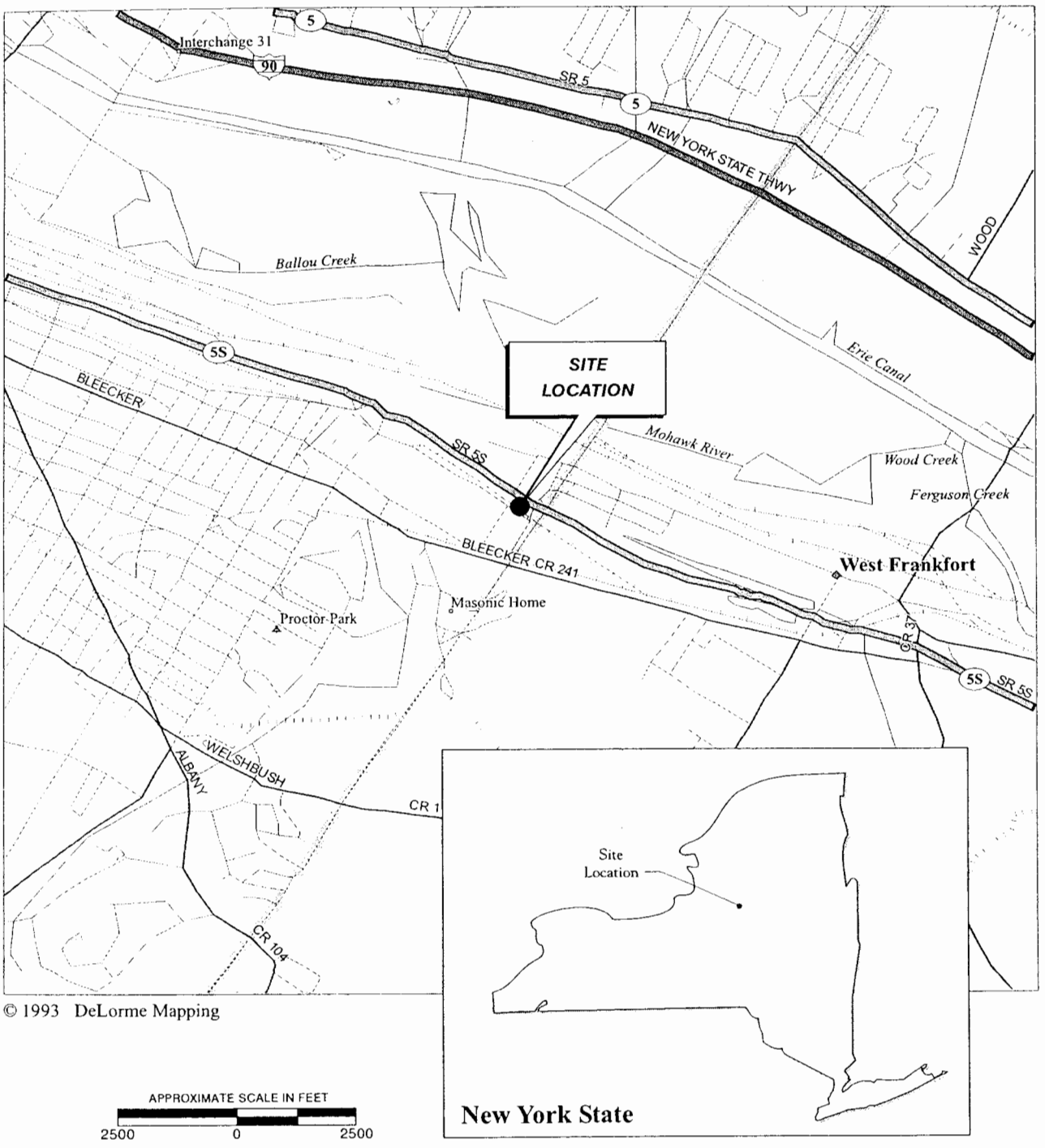
Discharge Monitoring Requirements

Two influent and two effluent samples are collected semi-annually, from the treatment system, and analyzed for contaminants-of-concern, as required by the City of Utica. The influent samples are collected from the treatment system sump through a sampling tube connected to Dewatering Pump 1 (see Section 8 page 4). The effluent samples are collected from inside the last baffle of the discharge manhole, prior to the gravity line to the City of Utica sanitary sewer. Samples are collected in laboratory-supplied glassware, packaged on ice and sent to Mitkem Corporation for laboratory analysis. Reporting is completed semi-annually as samples are analyzed, using forms provided by the city.

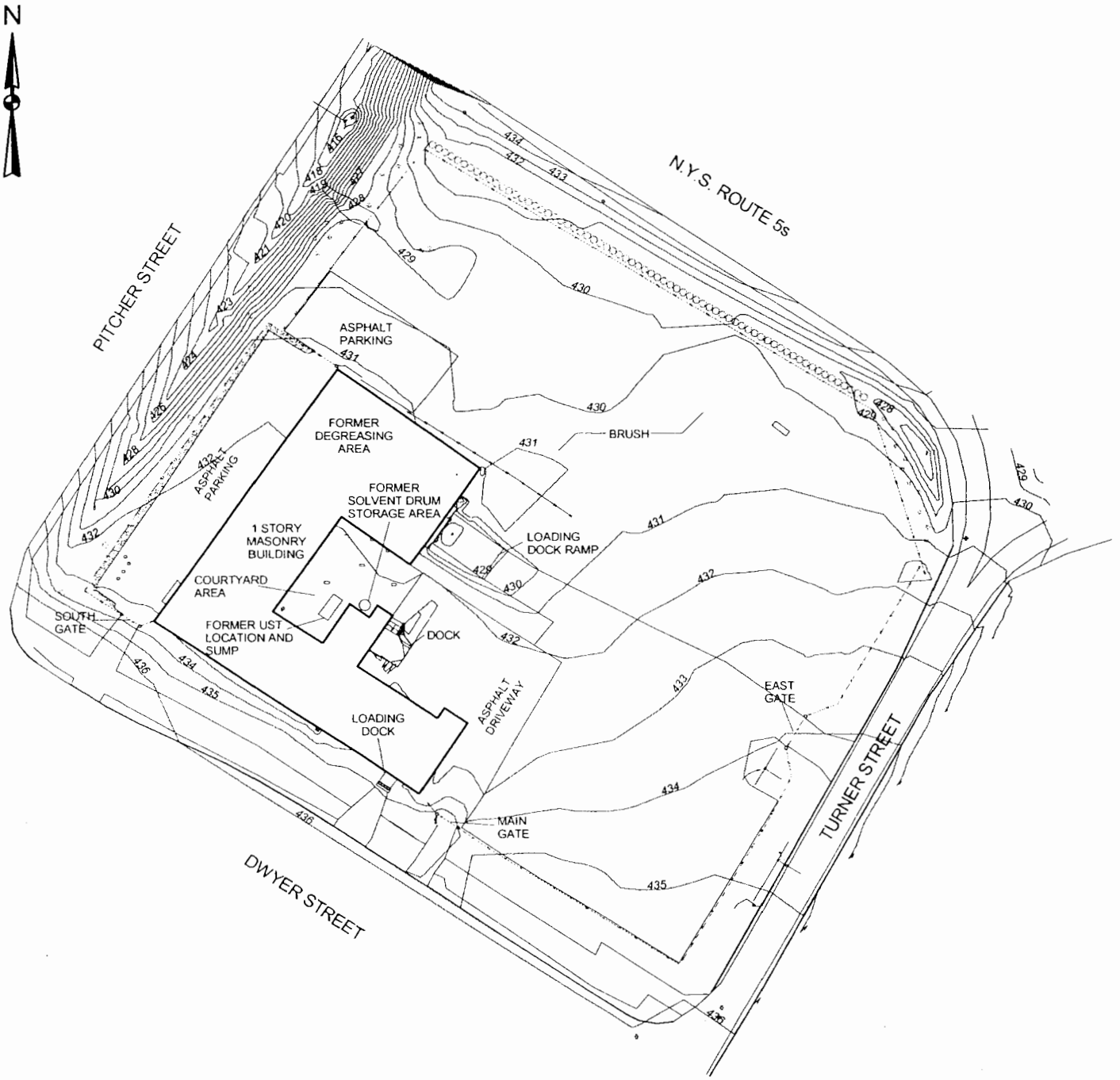
Discharge Monitoring Results

Currently, discharge monitoring sampling and analysis results have indicated that the treatment system is successful in reducing the level of COC's in the groundwater. Also, the levels of contaminants in the groundwater are below the discharge criteria set forth by the City of Utica.

3.0 Site and Wells: Maps and Plans



URS	SITE LOCATION MAP NORTHEAST ALLOYS AND METALS	FIGURE 1-1



URS	NORTH EAST ALLOYS AND METALS SITE PLAN	FIGURE 1-2

4.0 Monitoring Well Data

DATE STARTED 8-22-89
FINISHED 8-22-89
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC — SUBSURFACE LOG

HOLE NO. MW-1
SURF. ELEV. 101.27
G. W. DEPTH See Notes

PROJECT North East Alloy & Metals
LOCATION Utica, New York

SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION
							TOPSOIL 0.1'
	1	2	4				Fill: Black SILT & fine-coarse SAND, Some fine-coarse Gravel, Cinders, Brick
			8	5	12		(Damp-Firm)
	2	5	8				
			7	8	15		
	3	7	5				Brown SILT, Some fine-coarse Sand & Gravel
			4	4	9		(Moist-Loose)
	4	4	4				Grades to SILT & fine-coarse SAND, Some fine Gravel
			6	10	10		(Wet-Loose)
	5	24	24				Brown/Red SILT, Some fine-medium Sand, trace fine gravel
			36	52	60		(Wet-Compact)
	6	25	35				
			34	68	69		
	7	65	45				becomes (Wet-Very Compact)
			42	38	87		
	8	18	32				
			34	36	66		
	9	48	32				
			66	75	98		
							Boring Terminated @ 19.0'

NOTES

Locking Guard Pipe
Grout
Bentonite Seal 4.0'
2" Schedule 40PVC Riser Pipe
8.0'
0.01" Slotted Well Screen
4Q Sand

Water first encountered @ 6.1'

Reference elevation is the top of the PVC Well Pipe (103.43)

No blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow.
No blows to drive ____ " casing ____ " with ____ lb. weight falling ____ " per blow.
METHOD OF INVESTIGATION 4¼" I.D. Hollow Stem Augers
CLASSIFICATION Visual by Geologist

TE

ARTED 8-21-89

INISHED 8-22-89

T 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. **SUBSURFACE LOG**

HOLE NO. MW-2

SURF. ELEV. 98.08

C. W. DEPTH See Notes

JECT North East Alloy & Metals

LOCATION Utica, New York

SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
							CONCRETE .5'	Curb Box with Locking Cap
	1	5	7	6	13		Fill: Black fine-medium SAND, Some Silt, Wood, Brick, Cinders (Damp-Firm)	Grout
	2	4	6					Bentonite Seal
			6	6	12		Brown SILT, Some fine-medium Sand (Moist-Firm)	2" Schedule 40 PVC Riser Pipe
	3	2	3					0.01" Slotted Well Screen
			4	5	7		Grey/Brown SILT & CLAY, trace fine-medium sand, brick (Moist-Loose)	
	4	4	6					8.0'
			9	14	15			
	5	5	10				Brown SILT & CLAY, little fine-medium sand (Wet-Firm)	4Q Sand
			10	12	20			
	6	5	12					
			21	24	33			
	7	24	100/.5'				Grades with little coarse gravel (Wet-Compact)	
	8	14	16					
			22	46	38			
	9	37	32					
			35	43	67		becomes (Wet-Very Compact)	
							Boring Terminated @ 18.0'	Water first encountered @ 7.5'
								Reference elevation is the top of the PVC Well Pipe (97.88).

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow. CLASSIFICATION Visual by

" with lb. weight falling " per blow. Geologist

DATE
STARTED 8-22-89
FINISHED 8-22-89
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. MW-3
SURF. ELEV. 96.63
G. W. DEPTH See Notes

PROJECT North East Alloy & Metals
LOCATION Utica, New York

DEPTH	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
0								TOPSOIL .1	
		1	5	4				Fill: Black SILT & fine-coarse SAND & GRAVEL, ASH, CINDER, BRICK (Damp-Firm)	Locking Guard Pipe
				10	10	14			Grout
		2	5	3					Bentonite Seal
				4	5	7			2" Schedule 40 PVC Riser Pipe
5		3	2	2				Brown SILT, Some fine-coarse Sand (Moist-Loose)	
				2	2	4			
		4	2	2				Black/Grey SILT, little fine-coarse sand, organic matter (Wet-Loose)	0.01" Slotted Well Screen
				2	3	4			
		5	2	2					
10				2	3	4			
		6	2	1					
				2	2	3		-similar with glass fragments	
		7	3	2					12.0'
				3	2	5		Black/Grey SILT, little fine-medium sand, organic matter (Wet-Firm)	4Q Sand
15		8	7	7					
				8	8	15			
		9	8	18					
				22	30	40		becomes (Wet-Compact)	
								Boring Terminated @ 18.0'	Water first encountered @ 9.0'
20									Reference elevation is the top of the PVC Well Pipe (98.93)
25									
30									
35									

N = No. blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 " per blow. CLASSIFICATION Visual by

C = No. blows ...

DATE
STARTED 8-23-89
FINISHED 8-23-89
SHEET 1 OF 1

EMPIRE SOILS INVESTIGATIONS INC. SUBSURFACE LOG

HOLE NO. MW-4
SURF. ELEV. 97.35
G. W. DEPTH See Notes

PROJECT North East Alloy & Metals
LOCATION Utica, New York

DEPTH FT	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER 0/6	6/12	12/18	N	BLOW ON CASING C	SOIL OR ROCK CLASSIFICATION	NOTES
0		1	24	30				Fill: Grey fine-coarse SAND & SILT, Some fine Gravel (Damp-Compact)	Curb Box with Locking Cap
				20	20	50			Grout
		2	15	12					Bentonite Seal
				10	4	22		4.0'	2" Schedule 40 PVC Riser Pipe
5		3	3	4				Grey Brown SILT & CLAY, little fine-medium sand (Wet-Loose)	0.01" Slotted Well Screen
				5	5	9			
		4	5	4					4Q Sand
				4	3	8			
		5	4	7					
				10	15	17			
10		6	10	13				11.0'	
				23	25	36		Brown SILT, Some fine-coarse Sand, trace fine gravel	
		7	25	30					
				40	42	70			
		8	11	15					
15				15	18	30			
		9	20	23					
				32	41	55			
								Boring Terminated @ 18.0'	Water first encountered @ 8.2'
20									Reference elevation is the top of the PVC Well Pipe (97.12)
25									
30									
35									

N = No blows to drive 2 " spoon 12 " with 140 lb. pin wt. falling 30 "per blow.
C = No blows to drive ____ " casing ____ " with ____ lb. weight falling ____ "per blow.
CLASSIFICATION Visual by Geologist
METHOD OF INVESTIGATION 4¼" I.D. Hollow Stem Augers

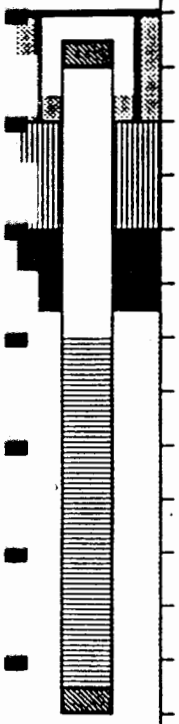
ERM-Northeast

175 Froehlich Farm Blvd., Woodbury, New York 11797

LOG OF MONITORING WELL: MW-5

Project Name & Location	Project Number	Water Level(s) (DBC)			Site Elevation Datum
FORMER NORTHEAST ALLOYS & METALS, UTICA, NY	694-001	Date	Time	Levels	Ground Elevation 98.58'
Drilling Company	Driller				Top of Steel Cap Elevation
AQUIFER DRILLING AND TESTING, INC.	JOE MIRANDA				
Method	Date Started / Date Completed				Top of Riser Elevation 97.90'
1/4" HOLLOW STEM AUGER	1/19/93 / 1/19/93				
Completion Depth: 21'	ERM-Northeast Geologist/Engineer: W. MAHONEY				

WELL CONSTR. (NTS)	DEPTH (ft below grade)	SAMPLES No.	Recovery (inches)	Blow per 6 in.	Time	HNU/ OVA (ppm)	SOIL DESCRIPTION
	0						0-8" Concrete Slab
	1	S-1	12"	15			Fill material, Black, Brown
	2			6			Coal material, dry-loose
	3						
	4						
	5	S-2	12"	RW RW 2			Brown with green f SAND and SILT, some Clay, damp, tight, sheen on upper part of recovery - 4". Outside of spoon has a sheen, slight odor.
	6			1			
	7						
	8						
	9						
	10	S-3	12"	6 7 15			Red CLAY with some Sand. Firm, small SHALE and rounded pebbles. Spoon was wet.
	11			20			
	12						
	13						
	14						
	15	S-4	16"	23 26 30			Brown/black CLAY with shards of Shale-like pebbles, angular, one large cobble rounded, wet firm.
	16			32			
	17						Dark brown SILT, wet, from cuttings.
	18						Firm surface, from cuttings. Wet SILT, from cuttings, soupy.
	19						
	20	S-5	12"	15 21			Brown/black CLAY, dry, firm, has small pieces of shale and pebbles.
	21			19 20			
	22						WELL CONSTRUCTION:
	23						0'-0.5' Protective Flush-mount manhole.
	24						0.5'-1' Bentonite-Cement Grout 1'-3' Bentonite Seal 4'-19' 2" Diameter Sch. 40 0.01 Slot PVC Screen 3'-20' #0 Morie Sand
	25						



LEGEND:

- Cement
- Bentonite /cement
- Bentonite Seal
- Gravel pack
- Screen
- End/Top cap

NTS - Not to scale

DBC - Depth below PVC casing

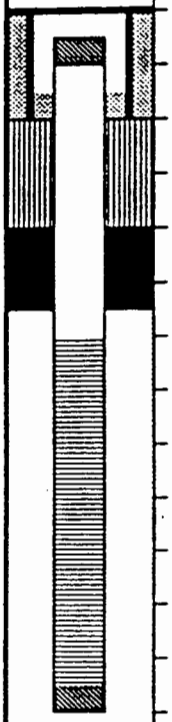
ERM-Northeast

175 Froehlich Farm Blvd., Woodbury, New York 11797

LOG OF MONITORING WELL: MW-6

Project Name & Location	Project Number	Water Level(s) (DBC)			Site Elevation Datum
FORMER NORTHEAST ALLOYS & METALS, UTICA, NY	694-001	Date	Time	Levels	Ground Elevation 98.69'
Drilling Company	Driller				Top of Steel Cap Elevation
AQUIFER DRILLING AND TESTING, INC.	JOE MIRANDA				
Method	Date Started / Date Completed				Top of Riser Elevation 98.08'
HOLLOW STEM AUGERS	1/19/93 / 1/19/93				
Completion Depth: 24'	ERM-Northeast Geologist/Engineer: W. MAHONEY				

WELL CONSTR. (NTS)	DEPTH (ft below grade)	SAMPLES No.	Recovery (inches)	Blow per 6 in.	Time	HNU/ OVA (ppm)	SOIL DESCRIPTION
	0						0-8" Concrete Slab
	1	S-1	2"	12			GRAVEL, dry, loose.
	2			7			
	3						Black/brown material.
	4						
	5	S-2	16"	1 2			Brown medium SAND, SILT, little gravel, damp, tight.
	6			1 2			
	7						Dark brown fine SAND
	8						
	9						
	10	S-3	16"	14 20			Red brown CLAY with gravel (angular shards), firm, dry.
	11			21 21			
	12						Brown CLAY, rolled into balls, from cuttings.
	13						
	14						
	15	S-4	10"	31 27			Reddish brown CLAY with some Gravel (rounded pebbles), firm, dry.
	16			21 22			
	17						
	18						
	19						
	20	S-5		21 24			Dark brown CLAY, firm, damp, with some small Gravel pieces.
	21			27 22			
	22	S-6		26 37			CLAY with Gravel (angular pieces), damp, rolled into little balls. Silt detected at 23'.
	23						
	24						
	25						



LEGEND:
- Cement
- Bentonite /cement
- Bentonite Seal
- Gravel pack
- Screen
- End/Top cap

WELL CONSTRUCTION:
- 0'-0.5' Protective Manhole
- 0.5'-1' Bentonite-Cement Grout
- 1'-3.5' Bentonite Seal
- 3.5'-23.5' 2" Dia. 0.01 Slot Screen
- 3.5'-23.5' Morie Sand Pack

NTS - Not to scale

DBC - Depth below PVC casing

Civil & Environmental Consultants, Inc.
Cincinnati, OH (513) 469–0210 • (800) 759–5814
Pittsburgh, PA (412) 921–3402 • (800) 365–2324

PROJECT ID: NE. HILLSIDE AND MEDIA
BORING/WELL #: MW-7
PROJECT #: 94502
PAGE 1 OF 1

DATE STARTED: 2/12/97 COMPLETED: 2/12/97	WELL INSTALLED: ☒ YES ☐ NO
DRILLING COMPANY: MAXIM	WELL HEAD STICKUP: FT. ☐ ABOVE ☒ BELOW
DRILLER: John/MARK	OUTER CASING: FLUSH MOUNT W/Locking Cap
CEC REPRESENTATIVE: K. MEURER	DEVELOPMENT METHOD: Bailed
DRILLING METHOD: 6¼ H.S.A	RESULTS:
BORE HOLE Ø: 10" CORE SIZE:	YIELD:
BACKFILL	SURFACE PROTECTION: CONCRETE
AIR MONITORING INSTRUMENT: PID # 3	WATER LEVELS:
CASING ELEVATION:	TOC=TOP OF INNER CASING / OPEN BORE HOLE ⌀ COMPLETION:
GROUND ELEVATION	OPEN BORE HOLE ⌀: _____ HRS:
KEY #: 493	GS=GROUND SURFACE / WELL ⌀ COMPLETION:
COMMENTS/PROBLEMS:	WELL ON / / :
	WASTE HANDLING (CUTTINGS, DRILLING FLUIDS, DEVELOPMENT WATER):

SAMPLE NO. CORE RUN	RUN/RECOVERY % RECOVERY	BLOWS COUNTS ROD	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)	WELL DIAGRAM
S-1	75 54 47 5	1.0	5.1	1	GRAY/BLK SLAG AND Cinder HARD MOIST FILL			
S-2	14 7 5 4	1.0	4.2	3	As Above STIFF			
S-3	6 4 3 3	1.0	49	5	As Above M. STIFF			
S-4	1 1 1 2	0.3	53		As Above Soft Wet @ 8'			
S-5	3 3 10 22	1.2	17.0		As Above SLT ODOR(?)			
S-6	17 15 16 24	1.6	0.2	10	BLK/Purple SILT AND CLAY SOME C-SAND TRACE GRAVEL V. STIFF - HARD ALLUVIUM			
S-7	15 11 15 24	1.5	20		As Above			
				15		B.O.B. 14D		
				20				

WELL DIAGRAM: CEMENTITE; 2" SCH 40 PVC SLOTTED 0.010; 10/20 SILICA SAND

CONTACT TYPES: ABRUPT ——— GRADATIONAL — — —
IRREGULAR OR ANGULAR ~~~~ ESTIMATED .....

BORING/WELL #: MW-7
PROJECT #: 94502

Civil & Environmental Consultants, Inc.
Cincinnati, OH (513) 469-0210 • (800) 759-5614
Pittsburgh, PA (412) 921-3402 • (800) 365-2324

PROJECT ID: N.E. ALLOY AND METALS
BORING/WELL #: MW-8
PROJECT #: 94502
PAGE 1 OF 1

DATE STARTED: 2/12/97 COMPLETED: 2/12/97
DRILLING COMPANY: MAX-M
DRILLER: John / Patrick
CEC REPRESENTATIVE: K. NIEMEIER
DRILLING METHOD: 6¼ H.S.A
BORE HOLE ⌀: 10" CORE SIZE:
BACKFILL
AIR MONITORING INSTRUMENT: PID # 3
CASING ELEVATION:
GROUND ELEVATION
KEY #: 493
COMMENTS/PROBLEMS:

WELL INSTALLED: ☒ YES ☐ NO
WELL HEAD STICKUP: FT. ☐ ABOVE ☒ BELOW
OUTER CASING: FLUSH MOUNT W/LOCKING CAP
DEVELOPMENT METHOD: Bailed
RESULTS:
YIELD:
SURFACE PROTECTION: Concrete
WATER LEVELS:
TOC=TOP OF INNER CASING
GS=GROUND SURFACE
OPEN BORE HOLE ⌀ COMPLETION: DRY
OPEN BORE HOLE ⌀: _____ HRS:
WELL ⌀ COMPLETION:
WELL ON / / :
WASTE HANDLING (CUTTINGS, DRILLING FLUIDS, DEVELOPMENT WATER):
Cuttings on PLASTIC

SAMPLE NO. CORE RUN	RUN/RECOVERY x RECOVERY	BLOWS COUNTS /6" OR /CORE RUN	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)
S-1	1.0	49 41 11/7	1.0	1	GRAY BLK CINDER, SLAG, BRICK HARD MOIST FILL		
S-2	1.3	4 4 6/6	2.2	2 3 4	GRAY SILTY CLAY TRACE CINDER M. STIFF MOIST FILL		
S-3	1.5	3 4 4/6	1.0	5	GRAY/GREEN/RED SILTY CLAY MOIST M. STIFF ALLUVIUM		
S-4	1.6	2 3 5/6	0.4		As Above		
S-5	1.6	3 4 7/10	0.5		GRAY/PURPLE SILTY CLAY M. STIFF WET @ 8' ALLUVIUM		
S-6	0.7	10 8 9/2	1.2	10	GRAY/PURPLE SILTY CLAY SOME SAND AND GRAVEL STIFF WET		
S-7	1.6	48 7 14	0.2		GRAY/BLACK SILTY CLAY TRACE Rock Frag 13.8 - SOME M-C SAND WET ALLUVIUM		
				15		BOB 14.0'	
				20			

WELL DIAGRAM: Concrete; 10/20 SILICA SAND; 2" SCH 40 PVC SLOTTED 0.010

CONTACT TYPES: ABRUPT ——— GRADATIONAL — — —
IRREGULAR OR ANGULAR ~~~~ ESTIMATED .....

BORING/WELL #: MW-8
PROJECT #: 94502

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Civil & Environmental Consultants, Inc.
Cincinnati, OH (513) 469-0210 • (800) 759-5814 | Pittsburgh, PA (412) 921-3402 • (800) 365-2324

PROJECT ID: NEAM | BORING/WELL #: MW-9 | PROJECT #: 94502 | PAGE 1 OF 1

DATE STARTED: 8/16/97 COMPLETED: 8/17/97 | WELL INSTALLED: ☒ YES ☐ NO
DRILLING COMPANY: MAXIM | WELL HEAD STICKUP: FT. ☐ ABOVE ☒ BELOW
DRILLER: RICH / BRAC | OUTER CASING: FLUSH MOUNT W/LOCKING CAP
CEC REPRESENTATIVE: KJM | DEVELOPMENT METHOD: Bailed
DRILLING METHOD: HSA | RESULTS:
BORE HOLE ø: 8 12" CORE SIZE: — | YIELD:
BACKFILL: — | SURFACE PROTECTION: 2 x 2' Pad CONCRETE
AIR MONITORING INSTRUMENT: PID #4 | WATER LEVELS:
CASING ELEVATION: | TOC=TOP OF INNER CASING | OPEN BORE HOLE ● COMPLETION: 10.26.5
GROUND ELEVATION | OPEN BORE HOLE ●: ____ HRS:
KEY #: | GS=GROUND SURFACE | WELL ● COMPLETION: 8.2 T.O.C
COMMENTS/PROBLEMS: | WELL ON / / :
WASTE HANDLING (CUTTINGS, DRILLING FLUIDS, DEVELOPMENT WATER):

SAMPLE NO. CORE RUN	RUN/RECOVERY x RECOVERY	BLOWS COUNTS PER 6 INCHES	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)	WELL DIAGRAM
S-1	1.2	6 6 / 5	62.4	1–2	BLK/BRN F-SAND AND CINDER TRACE BRICK DRY M. DENSE FILL			
S-2	1.3	4 4 / 5	68.3	3–4	AS ABOVE			
S-3	0.8	2 2 / 1	75.1	5	AS ABOVE Moist			
S-4	0.1	2 1 / 1	46.2		AS ABOVE			
S-5	0.5	1 1 / 1	54.8	10	AS ABOVE Wet @ 8.0			
S-6	0.2	1 1 / 2	50.1		AS ABOVE			
S-7	1.3	1 1 / 5	31.3		AS ABOVE to 13.0 13.0 - BLK/GRAY SILT SOME F. SAND TRACE CLAY AND GRAY WET REWORKED TILL			
S-8	0.5	33 30 / 26	32.9	15	BLK/GRAY F. SAND AND SILT TRACE GRAVEL REWORKED TILL			
S-9	1.0	33 36 / 27 21	26.9		BLK/GRAY F. SAND AND SILT TRACE GRAVEL AND CLAY DRY TILL			
				20				

WELL DIAGRAM: 10/20 SILICA SAND; 2" SCH 40 PVC SLOTTED 0.010

CONTACT TYPES: ABRUPT —— GRADATIONAL — — —
IRREGULAR OR ANGULAR ~~~~ ESTIMATED .....

BORING/WELL #: MW-9
PROJECT #: 94502

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Civil & Environmental Consultants, Inc.
Cincinnati, OH (513) 469-0210 • (800) 759-5814
Pittsburgh, PA (412) 921-3402 • (800) 365-2324

PROJECT ID: NEAM | BORING/WELL #: MW-10 | PROJECT #: 94502 | PAGE 1 OF 1

DATE STARTED: 8/19/97 COMPLETED: 8/19/97 | WELL INSTALLED: ☒ YES ☐ NO
DRILLING COMPANY: MAXIM | WELL HEAD STICKUP: FT ☐ ABOVE ☒ BELOW
DRILLER: RRH/CHSP | OUTER CASING: Flush Mount w/lock box
CEC REPRESENTATIVE: K.JM | DEVELOPMENT METHOD: Bailed
DRILLING METHOD: 6¼ HSA | RESULTS:
BORE HOLE ø: 12 CORE SIZE: | YIELD:
BACKFILL: — | SURFACE PROTECTION:
AIR MONITORING INSTRUMENT: PID HNu | WATER LEVELS:
CASING ELEVATION: | TOC=TOP OF INNER CASING | OPEN BORE HOLE ☺ COMPLETION: 11.15GS
GROUND ELEVATION | OPEN BORE HOLE ☺: ____ HRS:
KEY #: | GS=GROUND SURFACE | WELL ☺ COMPLETION:
COMMENTS/PROBLEMS: | WELL ON / / :
WASTE HANDLING (CUTTINGS, DRILLING FLUIDS, DEVELOPMENT WATER):

SAMPLE NO. CORE RUN	RUN/RECOVERY x RECOVERY	BLOWS COUNTS H.S.A.	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)	WELL DIAGRAM
S-1	1.3	7,10,10,14	52.1	1	BLK/BRN F SAND AND CINDER TRACE SLAG+ BRICK DRY FILL			
S-2	1.3	12,8,7	74.8	3	As ABOVE			
S-3	1.5	4,3,3,3	28.4	5	As ABOVE			
S-4	1.2	3,2,1,2	37.0		As ABOVE wet @ 7.0			
S-5	1.0	3,2,1,1	29.5	10	As ABOVE			N/20 SAND SAND 2" SCH 40 PVC SLOTTED 0.010
S-6	0.7	3,2,1,1	33.8		As ABOVE			
S-7	0.5	WOH,1,2	31.8 46.8		As ABOVE			
S-8	0.2	2,1,3	46.8	15	As ABOVE trace wood			
S-9	0.3	4,7,12,17	45.8		As ABOVE to 17.0			
S-10	0.5	14,3,3,4	27.1		17.0 - BLK REWORD TILL SL. Hydrocarbon odor As ABOVE to 19.5 19.5 - DK GRAY/BRN SILTSTONE F. SAND TRACE CLAY AND GRAVEL MOIST TILL			
				20				

CONTACT TYPES: ABRUPT ——— GRADATIONAL — — —
IRREGULAR OR ANGULAR ~~~~ ESTIMATED .....

BORING/WELL #: MW-10
PROJECT #: 94502

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URS Greiner, Inc.

TEST BORING LOG:

BORING NO.: MW-11

PROJECT: NORTHEAST ALLOYS & METALS.

CLIENT: NYSDEC

BORING CONTRACTOR: TRI-STATE DRILLING & BORING

GROUNDWATER: ENCOUNTERED AT 14.5'

DATE	TIME	LEVEL	TYPE
4/5/99	1530	10.6 BGS	INSIDE AUGERS

	CAS.	SAMPLER	CORE	TUBE
TYPE	HSA	SPLIT SPOON		
DIA.	4¼"ID	2 IN.		
WT.#		140#		
FALL		30 IN		

* POCKET PENETROMETER READING

SHEET: 1 OF 1

JOB NO.: 35618.02

BORING LOCATION:

GROUND ELEVATION:

DATE STARTED: 4/5/99

DATE FINISHED: 4/5/99

DRILLER: WAYNE AULT

GEOLOGIST: SCOTT MCCABE

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6"	RECOVERY RQD %	DESCRIPTION: COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	H_2O (ppm)	CLASS USCS	REMARKS
0		1	SS	11 10 / 13 9	90%	BLACK BROWN GRAY	MEDIUM DENSE	FILL: FINE TO MEDIUM SAND AND CINDER			
								FINE SANDY SILT, TRACE MEDIUM TO COARSE SAND AND CINDERS	0		MOIST
		2	SS	5 5 / 6 6	60%		MEDIUM STIFF		0		- FEW REDDISH BROWN MOTTLES.
5		3	SS	3 4 / 2 3	70%			SILT, TRACE FINE SAND, SLAG, BRICK, CINDERS, WOOD	0		
		4	SS	6 9 / 7 8	70%	BROWN	STIFF	CLAYEY SILT, TRACE FINE TO MEDIUM SAND, CINDER, BRICK	0		
		5	SS	6 7 / 10 13	75%				0		DRY
10		6	SS	4 8 / 11 23	70%				0		
11		7	SS	8 16 / 21 13	50%	DARK GREY	STIFF VERY STIFF	FINE SANDY SILT, SOME MEDIUM TO COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.	0	SM	MOIST
14.3									0		
15		8	SS	13 17 / 16 18	75%	BROWN	DENSE	FINE TO COARSE SAND AND GRAVEL	0	GW	SAMPLE WET 14.5'
15.5		9	SS	14 12 / 19 15	75%	BROWN	VERY STIFF	FINE SANDY SILT, TRACE MEDIUM TO COARSE SAND AND GRAVEL	0	SM	
18								BORING COMPLETED AT 18.0'			
20											
25											
30											
35											

COMMENTS: BORING ADVANCED WITH MOBIL-B57 USING 4¼ IN ID HSA TO 18.0'. MONITORING WELL INSTALLED WITH 2" SCH 40 PVC. SCREEN INTERVAL 8.0-18.0' CONTINUOUS.

PROJECT NO.: 35618.02 BORING NO.: MW-11

URSF-031H/1 OF 2/TBL/GCM

Civil & Environmental Consultants, Inc.
Cincinnati, OH (513) 469-0210 • (800) 759-5614
Pittsburgh, PA (412) 921-3402 • (800) 365-2324

PROJECT ID: NORTHEAST ALLOY AND METALS
BORING/WELL #: RW-1
PROJECT #: 94502
PAGE 1 OF

DATE STARTED: 2/13/97 COMPLETED: 2/14/97
DRILLING COMPANY: MAXIM
DRILLER: JOHN MACK
CEC REPRESENTATIVE: K. MEURER
DRILLING METHOD: 6¼" HSA
BORE HOLE Ø: 10" CORE SIZE:
BACKFILL
AIR MONITORING INSTRUMENT: PID # 3
CASING ELEVATION:
GROUND ELEVATION
KEY #:

WELL INSTALLED: ☒ YES ☐ NO
WELL HEAD STICKUP: FT. ☐ ABOVE ☒ BELOW
OUTER CASING: FLUSH MOUNT W/Locking Cap
DEVELOPMENT METHOD: Bailer
RESULTS:
YIELD:
SURFACE PROTECTION: CONCRETE

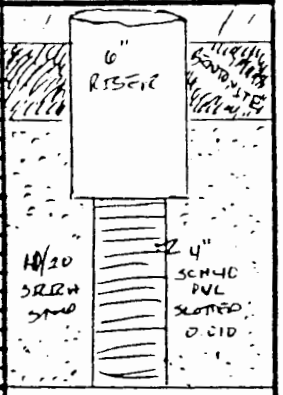
WATER LEVELS:
TOC=TOP OF INNER CASING
GS=GROUND SURFACE
OPEN BORE HOLE ⊙ COMPLETION:
OPEN BORE HOLE ⊙: _____ HRS:
WELL ⊙ COMPLETION:
WELL ON / / :

COMMENTS/PROBLEMS:
Well offset 5ft East of Boring
Boring Backfilled w/ BENTONITE to 0.5
S-6 Sample From Well b/c No Recovery in Sample From boring

WASTE HANDLING (CUTTINGS, DRILLING FLUIDS, DEVELOPMENT WATER):
Soil on Plastic

SAMPLE NO. CORE RUN	RUN/RECOVERY % RECOVERY	BLOWS COUNTS ROD	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)
S-1	1.4	24 26 10	3.0	1	0.5 CONCRETE - BLK SLAG, CINDER MOIST STIFF FILL		
S-2	1.6	5 3 4	4.2	2 3 4	As ABOVE to 3.0. 3.0 - GRAY/BLK SILT AND CLAY STIFF MOIST FILL		
S-3	1.2	3 6 8	4.2	5	GRAY SILTY CLAY TRACE Rock Frag ~~AND~~ Wood ~~Wet~~ STIFF WET @ 5.0 FILL		
S-4	1.4	3 4 8 10	3.4		BRN SILTY CLAY TRACE WOOD AND Rock FRAG M. STIFF WET FILL		
S-5	1.5	9 21 23 24	1.8		As ABOVE		
S-6	0.5	37 65 65	3.3	10	GRAY/BLACK SILT SOME F SAND, CLAY AND Rock FRAG DRY ~~FILL~~ TILL		
S-7	1.0	21 48 50 42	4.9		GRAY/PURPLE SILT SOME CLAY, F. SAND AND TRACE ROCK FRAG. ~~HARD~~ DRY TILL		
S-8	0.8	21 35 37 42	4.5	15	As ABOVE		
S-9	1.0	12 21 33 35	3.1		BLK As ABOVE		
S-10	1.6	21 26 26 30	3.8		As ABOVE		
				20			

WELL DIAGRAM



CONTACT TYPES: ABRUPT ——— GRADATIONAL — — —
IRREGULAR OR ANGULAR ~~~~ ESTIMATED .....

BORING/WELL #: RW-1
PROJECT #: 94502

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Civil & Environmental Consultants, Inc.	PROJECT #: 94502	BORING/WELL #: RW-1	PAGE 2 OF 2

SAMPLE NO CORE RUN	RUN/RECOVERY %, RECOVERY	BLOWS COUNTS RQD	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)	WELL DIAGRAM
S-11	1.2	21 26 34 27	3.1	22 23 24 25	As Above			
S-12	1.3	6/12 31 44 47	3.8		As Above			
S-13	1.2	P2 57 65 72	3.1		GRAY/BLK SLST Some F Sand, CLAY, Rock Frag. and Gravel Moist Till			
S-14	0.7	62 100/0.4	4.1		As Above			
S-15	0.1	100/0	0.0	30	Auger Refusal @ 28.0 - BLK Shale in Shoe of Spoon.	B.C.B. 28.0		

NOTES:

BORING/WELL #: RW-1
PROJECT #: 94502

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Cincinnati, OH (513) 469-0210 • (800) 759-5614
Pittsburgh, PA (412) 921-3402 • (800) 365-2324

PROJECT ID: NORTHEAST ALLOY + WIRE
BORING/WELL #: RW-2
PROJECT #: 9450 2
PAGE 1 OF 2

DATE STARTED: 2/14/97 COMPLETED: 2/15/97
DRILLING COMPANY: NIHXIM
DRILLER: JOHN / MARK
CEC REPRESENTATIVE: K. MEURER
DRILLING METHOD: 6¼ HSA
BORE HOLE ø: 11" CORE SIZE: —
BACKFILL: —
AIR MONITORING INSTRUMENT: PID # 3
CASING ELEVATION:
GROUND ELEVATION
KEY #:

WELL INSTALLED: ☒ YES ☐ NO
WELL HEAD STICKUP: FT. ☐ ABOVE ☒ BELOW
OUTER CASING:
DEVELOPMENT METHOD: Bailed
RESULTS:
YIELD:
SURFACE PROTECTION:
WATER LEVELS:
TOC=TOP OF INNER CASING
GS=GROUND SURFACE
OPEN BORE HOLE ⌀ COMPLETION:
OPEN BORE HOLE ⌀: ____ HRS:
WELL ⌀ COMPLETION:
WELL ON / / :

COMMENTS/PROBLEMS:
RW-2 Well offset 5' North of Boring
Boring Back Filled w/ Bentonite
S-4 Sampled During Well Boring b/c of No Recovery during Boring

WASTE HANDLING (CUTTINGS, DRILLING FLUIDS, DEVELOPMENT WATER):

SAMPLE NO. CORE RUN	RUN/RECOVERY x RECOVERY	BLOWS COUNTS RQD	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)
S-1	1.3	35 13 10 7	13.3	1 2	BLK/GRN SLAG AND CINDER MOIST M. STIFF FILL		
S-2	1.8	55 3 4	25.2	3 4	AS ABOVE		
S-3	1.3	2 2 3 3	11.1	5	AS ABOVE WITH TRACE COAL		
S-4	0.4	1 1 1	5.6		AS ABOVE		
S-5	1.2	64 5 5	342		BLK/BRN SILT AND CLAY TRACE Rock Frag, Wood AND Coal Wet & STIFF FILL		
S-6	1.0	3 2 2 3	9.3	10	AS ABOVE W/ SOME F-M SAND		
S-7	0.7	2 17 13 10	2.0		AS ABOVE		
S-8	0.8	10 5 15 14	1.1		AS ABOVE to 15.5 15.5 - BLK SILT SOME F. Sand, CLAY ROCK FRAG DRY V. STIFF TILL		
S-9	0.8	10 5 6 12	2.6	15	BLK SILT SOME F-SAND, CLAY AND Rock Frag. DRY STIFF TILL		
S-10	1.2	5 8 10 55	2.0		AS ABOVE		
				20			

WELL DIAGRAM:
Bent. Grout
Cement
10/20 Silica Sand
4" SCH 40 PVC Slotted 0.010
B.O.B. 16.0

CONTACT TYPES: ABRUPT ——— GRADATIONAL — — —
IRREGULAR OR ANGULAR ~~~~ ESTIMATED .....

BORING/WELL #: RW-2
PROJECT #: 94502

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SAMPLE NO. CORE RUN	RUN/RECOVERY % RECOVERY	BLOWS COUNTS RQD	ORGANIC VAPOR READING (PPM)	DEPTH (FEET)	MATERIAL DESCRIPTION AND COMMENTS	GRAPHIC LOG	ELEVATION (FEET, MSL)	WELL DIAGRAM
S-11	1.3	34 99 68 76	0.9	21 22	As Above			
S-12	0.9	100 10"/4	3.0	23 24	As Above some rock frags			
S-13	1.0	67 52 54 100/3	2.8	25	As Above			
S-14	1.0	87 72 100/3	1.7		As Above			
				30				

NOTES:

BORING/WELL #: RW-2
PROJECT #: 94502

URS Greiner, Inc.

TEST BORING LOG:

BORING NO.: RW-3

PROJECT: NORTHEAST ALLOYS & METALS

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO.: 35618.02

DRILLING CONTRACTOR: TRI-STATE DRILLING & BORING

BORING LOCATION:

GROUNDWATER: ENCOUNTERED @ 4.0'

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE	HSA	SPLIT SPOON		
DIA.	8 1/4"	2"		
WT.		140#		
FALL		30"		

* POCKET PENETROMETER READING

GROUND ELEVATION:

DATE STARTED: 4/6/99

DATE FINISHED: 4/6/99

DRILLER: WAYNE AULT

GEOLOGIST: SCOTT MCCABE

REVIEWED BY:

DEPTH IN FEET	STRATA	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6"	RECOVERY RQD %	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	Hnu (ppm)	CLASS USCS	REMARKS
		1	SS	3 4 / 5 7	70%	DK BROWN BLACK	LOOSE ↓ MEDIUM DENSE ↓ VERY LOOSE	FILL: SILTY SAND, SOME GRAVEL. FINE TO MEDIUM SAND AND CINDER, TRACE ORGANICS, METAL, METAL FILINGS, BRICK, SLAG, AND GRAVEL	4		MOIST - SLIGHT PETROLEUM ODOR.
		2	SS	6 7 / 8 7	90%				100		SAMPLE WET 4.0'
		3	SS	3 2 / 1 2	100%				80		- STRONG PETROLEUM ODOR.
		4	SS	2 1 / 1 1	90%				95		
		5	SS	1 1 / 2 1	100%				120		
		6	SS	1 2 / 1 1	100%				110		
		7	SS	1 2 / 1 31	100%				60		
13						DK. GRAY	VERY STIFF	CLAYEY SILT, TRACE SAND AND GRAVEL		ML	
								BORING COMPLETED AT 14.3'			
15											
0											
25											
30											
35											

COMMENTS: BORING ADVANCED USING MOBIL B-57 WITH 8 1/4 ID HSA TO 14.3' MONITORING WELL INSTALLED WITH 4" SCH 40 PVC. SCREENED INTERVAL 4.3 - 14.3' CONTINUOUS

PROJECT NO.: 35618.02 BORING NO.: RW-3

URSF-031H/1 OF 2/TBL/GCM

Well GPS Coordinates / Inspection Log

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast alloys
s_code	character		7	Site ID 633-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)**
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below: 484951 | NYTM_Y write below: 477658
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.6 7 Sat
gps_meth	character		1	GPS Method circle: *(T) rimble* (A)nd *(O)r (M) agellan*
visible	character		1	Well visible? Circle one: (V)ery *(F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? (V)ery *(F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW-12
conc_seal	character		1	Concrete surface seal present? (Y)es or *(N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air* (C)racked *(R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant* (G)ood *(F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Galvanized, Silver, no paint
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A)bsent
welltype	character		1	Type of protective casing, circle one: (S) tick-up *(F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, (2-3), 3+
pro_mtl	character		5	Pro casing material: *(I) ron* (S)teel *(O) ther* Galvanized, Aluminum top
pro_shp	character		9	Pro casing shape: (R)ound *(S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? (Y)es *(N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", (2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person //
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast Alloys
s_code	character		7	Site ID 6-33-045
inv_date	date		8	Date 10/7/04
ltmpoint	character		16	**Well ID (name)** MW-4
damage	character		1	Is well damaged or destroyed? (Y) or N
nytm_x	numeric		6	NYTM_X write below: E 484970 | NYTM_Y write below: 4770780
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.7 7 Sat
gps_meth	character		1	GPS Method circle: (T)rimble (A)ndr (O)r (M)agellan
visible	character		1	Well visible? Circle one: (V)ery (F)airly (S)lightly (N)ot
name_v	character		1	Well ID (name) visible? (V)ery (F)airly (S)lightly (N)ot
name_a	character		20	Well ID as it appears on well MW-4
conc_seal	character		1	Concrete surface seal present? (Y)es or (N)o
seal_cond	character		1	Surface seal condition (G)ood (F)air (C)racked (R)aised (S)unken (P)oor (A)bsent
pro_cond	character		1	General pro. casing condition (E)xcellant (G)ood (F)air (P)oor (A)bsent
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E)xcellant (G)ood (F)air (P)oor (A)bsent
welltype	character		1	Type of protective casing, circle one: (S) tick-up (F) lush-mount
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: (I)ron (S)teel (O)ther
pro_shp	character		9	Pro casing shape: (R)ound (S)quare (O)ctagonal
cov_type	character		32	Cover type & material Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? (Y)es (N)o (R)eplaced by us today
dia	numeric	1	4	Well diameter if known 1.5", (2"), 4", 6", 8", Larger or Sump
haz	character		1	Biological hazards: (W)asps (B)ees (P)oison Ivy (N)one
prob	memo		4	Notable problems or comments Needs cut-5 box cover + 6-PPL. cap
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast Alloys
s_code	character		7	Site ID 6-33-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)** MW-6
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below: 484943 / NYTM_Y write below: 4770983
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 1.8 8 Sat
gps_meth	character		1	GPS Method circle: *(T) rimble (A)ndy (O)r (M) agellan*
visible	character		1	Well visible? Circle one: (V) ery *(F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW 6
conc_seal	character		1	Concrete surface seal present? (Y) es or *(N) o*
seal_cond	character		1	Surface seal condition (G) ood *(F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) *tick-up* (F) *lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip* (Curb box non-locking, Hex. bolted)
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast Alleys
s_code	character		7	Site ID 6-33-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)** brick next to MW-6 (SE alley)
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below: 484942 / NYTM_Y write below: 4770783
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 1.8 8 sat
gps_meth	character		1	GPS Method circle: (T) rimble (A)nd (O)r (M) agellan
visible	character		1	Well visible? Circle one: (V) ery (F) airly (S) lightly (N) ot
name_v	character		1	Well ID (name) visible? (V) ery (F) airly (S) lightly (N) ot
name_a	character		20	Well ID as it appears on well
conc_seal	character		1	Concrete surface seal present? (Y) es or (N) o
seal_cond	character		1	Surface seal condition (G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent
pro_cond	character		1	General pro. casing condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) tick-up (F) lush-mount
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: (I) ron (S) teel (O) ther
pro_shp	character		9	Pro casing shape: (R) ound (S) quare (O) ctagonal
cov_type	character		32	Cover type & material (Steel slip) Steel flap, Alum. slip, Curb box non-locking, Hex. bolted
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? (Y) es (N) o (R) eplaced by us today
dia	numeric	1	4	Well diameter if known 1.5", 2", 4", 6", (8") Larger or Sump
haz	character		1	Biological hazards: (W) asps (B) ees (P) oison Ivy (N) one
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector LV
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast Alloys
s_code	character		7	Site ID 6-33-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)** MW-1C
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below: 485032 / NYTM_Y write below: 4770986
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.7 7
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd (O)r (M) agellan*
visible	character		1	Well visible? Circle one: *(V) ery (F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? *(V) ery (F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW-1C
conc_seal	character		1	Concrete surface seal present? (Y) es or (N) o
seal_cond	character		1	Surface seal condition (G) ood *(F) air (C) racked (R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant (G) ood (F) air (P) oor (A) bsent*
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) *tick-up* (F) *lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron (S) teel (O) ther*
pro_shp	character		9	Pro casing shape: *(R) ound (S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap, Alum. slip,* (Curb box non-locking, Hex. bolted)
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? *(Y) es (N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast alloys
s_code	character		7	Site ID 6-33-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)** MW-11
damage	character		1	Is well damaged or destroyed? Y or (N)
nytm_x	numeric		6	NYTM_X write below: 484966 | NYTM_Y write below: 4770996
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.8 7 sat
gps_meth	character		1	GPS Method circle: *(T) rimble (A)nd (O)r (M) agellan*
visible	character		1	Well visible? Circle one: (V)ery *(F) airly (S) lightly (N) ot*
name_v	character		1	Well ID (name) visible? (V)ery *(F) airly (S) lightly (N) ot*
name_a	character		20	Well ID as it appears on well MW-11
conc_seal	character		1	Concrete surface seal present? (Y)es or *(N) o*
seal_cond	character		1	Surface seal condition *(G) ood (F) air* (C)racked *(R) aised (S) unken (P) oor (A) bsent*
pro_cond	character		1	General pro. casing condition *(E) xcellant* (G)ood *(F) air (P) oor (A) bsent*
paint_col	character		20	Paint color Galvanized, no paint
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A)bsent
welltype	character		1	Type of protective casing, circle one: (S) tick-up *(F) lush-mount*
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: *(I) ron* (S)teel *(O) ther* Galvanized
pro_shp	character		9	Pro casing shape: (R)ound *(S) quare (O) ctagonal*
cov_type	character		32	Cover type & material *Steel slip, Steel flap,* (Alum. slip) *Curb box non-locking, Hex. bolted*
pro_dia	numeric	1	4	Pro casing outside diameter 4
std_lock	character		1	Standard SCS lock present? (Y)es *(N) o (R) eplaced by us today*
dia	numeric	1	4	Well diameter if known *1.5", 2", 4", 6", 8", Larger or Sump*
haz	character		1	Biological hazards: *(W) asps (B) ees (P) oison Ivy (N) one*
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person P
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast alloys
s_code	character		7	Site ID E-33-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)** MW 3 ft west
damage	character		1	Is well damaged or destroyed? Y or N
nytm_x	numeric		6	NYTM_X write below: 484937
nytm_y	numeric		7	NYTM_Y write below: 4770785
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.8 7
gps_meth	character		1	GPS Method circle: (T) rimble (A) ndr (O)r (M) agellan
visible	character		1	Well visible? Circle one: (V) ery (F) airly (S) lightly (N) ot
name_v	character		1	Well ID (name) visible? (V) ery (F) airly (S) lightly (N) ot
name_a	character		20	Well ID as it appears on well
conc_seal	character		1	Concrete surface seal present? (Y) es or (N) o
seal_cond	character		1	Surface seal condition (G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent
pro_cond	character		1	General pro. casing condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
paint_col	character		20	Paint color White
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) tick-up (F) lush-mount
pro_ht	character		3	Height of stickup in feet: <1, 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: (I) ron (S) teel (O) ther
pro_shp	character		9	Pro casing shape: (R) ound (S) quare (O) ctagonal
cov_type	character		32	Cover type & material Steel slip, Steel flap, Alum. slip Curb box non-locking, Hex. bolted
pro_dia	numeric	1	4	Pro casing outside diameter
std_lock	character		1	Standard SCS lock present? (Y) es (N) o (R) eplaced by us today
dia	numeric	1	4	Well diameter if known 1.5", 2", 4", 6", 8", Larger or Sump
haz	character		1	Biological hazards: (W) asps (B) ees (P) oison Ivy (N) one
prob	memo		4	Notable problems or comments
trim_per	character		20	Trimble Instr. person H
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector W
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

FIELD	TYPE	DECIMAL	LENGTH	EXPLANATION AND ACCEPTABLE KEYED ENTRIES
name	character		32	**Site name** Northeast Alloys
s_code	character		7	Site ID 6-33-045
inv_date	date		8	Date 11/7/03
ltmpoint	character		16	**Well ID (name)** Sunken casing MW
damage	character		1	Is well damaged or destroyed? Y or N
nytm_x	numeric		6	NYTM_X write below: 18 484966 | NYTM_Y write below: 477622
nytm_y	numeric		7	
pdop	numeric	1	4	PDOP Reading from Trimble Pathfinder 2.9 7
gps_meth	character		1	GPS Method circle: (T) rimble (A)nd (O)r (M) agellan
visible	character		1	Well visible? Circle one: (V) ery (F) airly (S) lightly (N) ot
name_v	character		1	Well ID (name) visible? (V) ery (F) airly (S) lightly (N) ot
name_a	character		20	Well ID as it appears on well
conc_seal	character		1	Concrete surface seal present? (Y) es or (N) o
seal_cond	character		1	Surface seal condition (G) ood (F) air (C) racked (R) aised (S) unken (P) oor (A) bsent
pro_cond	character		1	General pro. casing condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
paint_col	character		20	Paint color
paint_con	character		1	Paint condition (E) xcellant (G) ood (F) air (P) oor (A) bsent
welltype	character		1	Type of protective casing, circle one: (S) tick-up (F) lush-mount
pro_ht	character		3	Height of stickup in feet: (<1) 1-2, 2-3, 3+
pro_mtl	character		5	Pro casing material: (I) ron (S) teel; (O) ther
pro_shp	character		9	Pro casing shape: (R) ound (S) quare (O) ctagonal
cov_type	character		32	Cover type & material Steel slip, Steel flap, Alum. slip, Curb box non-locking, Hex. bolted
pro_dia	numeric	1	4	Pro casing outside diameter 4
std_lock	character		1	Standard SCS lock present? (Y) es (N) o (R) eplaced by us today
dia	numeric	1	4	Well diameter if known 1.5", (2"), 4", 6", 8", Larger or Sump
haz	character		1	Biological hazards: (W) asps (B) ees (P) oison Ivy (N) one
prob	memo		4	Notable problems or comments Casing has sunk to Grade level
trim_per	character		20	Trimble Instr. person
mag_per	character		20	Magellan instr. person
insp_by	character		20	Inspector
sam_type	numeric		1	(1) MW for chemical analysis, (2) MW, GW elevation only, (3) SW/SED, chemical analysis, (4) SED chem analysis, (5) Other, (6) Not presently in use.

inventory_inspection_form.wb3

North East Alloys Monitoring Well Characteristics						
Mon. Well #	**Type**	**Diameter (in)**	**Depth to Bottom (ft)**	**Depth to Water (ft)**	**X-Coord**	**Y-Coord**
1	Stick-Up	2	101.27	10.3	484,951	4,771,058
4	Flush-Mount	8	97.35	8.2	484,970	4,770,980
6	Flush-Mount	8	98.69	17.2	484,943	4,770,983
5	Flush-Mount	8	98.58	9.1	484,942	4,770,983
10	Flush-Mount	8	18	14.1	485,032	4,770,986
11	Stick-Up	2	18	14.5	484,966	4,770,996
30 ft west of Mw-11	Flush-Mount	8	??	??	484,973	4,770,985
Sunken Casing MW	Stick-Up	2	??	??	484,966	4,771,022

5.0 Health and Safety Plan

Emergency Planning

Is 911 Emergency service available for the County that the site is located in? ☒ Yes ☐ No

Hospital: St. Elizabeth Hospital
2209 Genesee Street
Utica, NY
Phone No. ( ) 9-1-1

Ambulance: Call 9-1-1
Phone No. ( ) 9-1-1

Police: Call 9-1-1
Phone No. ( ) 9-1-1

Other Emergency: Call 9-1-1
Phone No. ( ) 9-1-1

DEC, DOH, County, Local Municipal Contacts

Name	Phone Number
• Darryl Swierdlowski	(315) 785-2513
• Jack Marsch	(315) 793-2[illegible]
• Sue Lasch	(315) 792-2853
• Pete Vanderkirk	(315) 785-2513

Hospital Route Information

- Attach a map that shows the site location and nearby hospital. Highlite the best route to the hospital.

Optional written directions:

Leave site, drive west on Dwyer Avenue & connect onto Route 55 West bound. Take turn off onto Genesee Street. Refer to map for hospital location.

Wastes of concern:
Volatile organics: mostly 1,1,1-trichloroethane & trichloroethylene. Some of the wells that we will be sampling have historically had VOCs as high as [illegible] ppm back in 1998 — levels have since dropped significantly to very [illegible] levels.

Waste characteristics:
☐ Corrosive ☐ Reactive ☒ Toxic
☐ Ignitable ☒ Volatile ☐ Unknown

Overall hazard levels anticipated on site:
☐ High ☒ Moderate ☐ Low ☐ None ☐ Unknown

Slip/trip hazards:
☒ Yes ☐ No Describe: *Part of the property is seriously overgrown w/ weeds.*

*** [illegible] 2001.*

Overall hazard assessment:
*Past analysis [illegible] especially in MW-[illegible] [illegible] sampled have had [illegible] of [illegible]. Use some caution in purging & sampling. ***

ON-SITE ACTIVITIES

Has this site been sampled and/or investigated before? ☒ Yes ☐ No
Has the site perimeter been identified? ☒ Yes ☐ No ☐ Unknown
Is the site fenced? ☒ Yes ☐ No ☐ Unknown
Is a site map/sketch available? ☒ Yes ☐ No [If yes, attach]
Have areas of contamination been identified? ☒ Yes ☐ No
Will air quality monitoring be done on-site? ☐ Yes ☒ No
Is sampling planned at this site? ☒ Yes ☐ No

Parameters to be analyzed for:

If yes: ☐ soil/sediment
☐ surface water
☒ groundwater
☐ waste product

check any [illegible]

List the proposed on-site activities:
1. *Enter site, survey the 2.9 acre area & locate the wells.*
2. *Open well covers — wait for VOCs — check air quality [illegible] MW-6*
3. *Take water measurements & purge wells.*
4. *(i.e. 2.) Take air quality measurements [illegible] (especially MW-6)*
5. *Collect samples, prep field notes & take photos.*
6. *Decon equipment & leave site.*

[illegible]

☒ - maybe

Will respiratory protection be required? ☐ Yes ☐ No

Level of respiratory protection anticipated:

- Level B [SCBA or supplied airline] ☐
- Level C [Air purifying respirator] ☑
- Level D [No external respiratory protection] ☐

Are Modifications to respiratory protection anticipated? ☒ Yes ☐ No

Describe: If air quality monitoring indicates the presence of air contamination, respirators will be used.

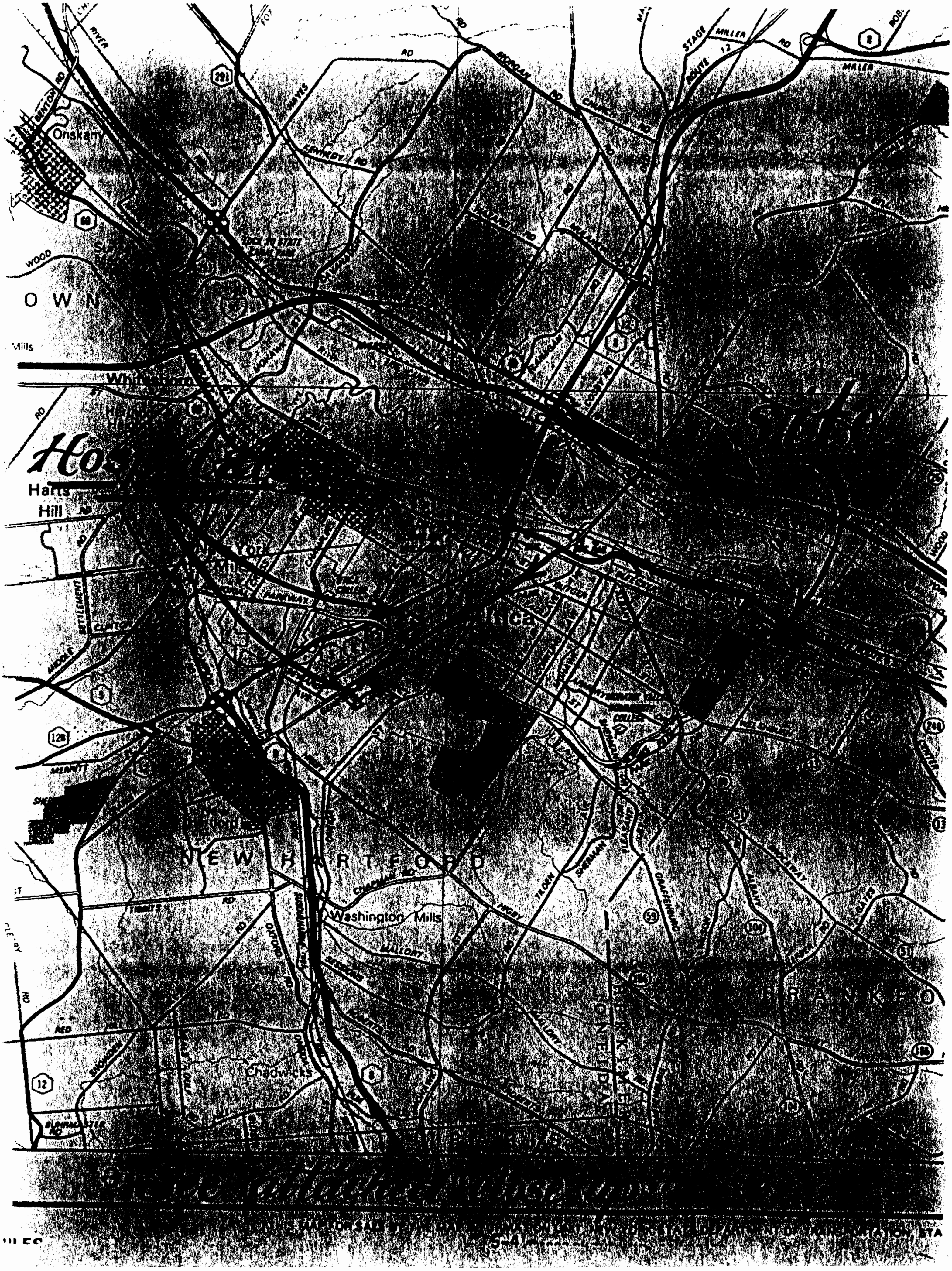
Air quality monitoring equipment to be used (describe):

- ☒ Photo ionization detector - HNu meter
- ☐ Flame ionization detector
- ☐ Explosimeter/O2 meter
- ☐ Other equipment

List of personnel anticipated to be on site:

	Name	Representing (DEC, DOH, etc.)	Phone no.
1.	Tom Kosch	DEC E.R. [BHSC]	
2.	Tony Lanzafame	"	
3.	Bill Price	"	
4.	Jack Mutsch	"	
5.			
6.			
7.			
8.			
9.			
10.			

*** I contacted Pete Ordenbach (DOH) He informed me that groundwater contaminant levels have dropped significantly since the high reading of 41 ppm of ~~[illegible]~~ 1,2-dichloroethylene back around 1998. Subsequent monitoring will be done [illegible]


Oriskany
BENTON RD
RIVER
RD
KENNEDY RD
MORGAN RD
CHURCH RD
STAGE
MILLER RD
ROUTE 12
MILLER
WOOD
O W N
Mills
Whitesboro
RD
Harts
Hill RD
SETTLEMENT
MIDDLE
MERRITT
N E W H A R T F O R D
TIBBITS RD
CHAPMAN RD
Washington Mills
OXFORD RD
MALLORY
Chadwicks
SNOWDEN
RED
HIGBY
TILDEN
SHERMAN
GRAFFENBURG
ALBANY
BROCKWAY
GATES
WOOD

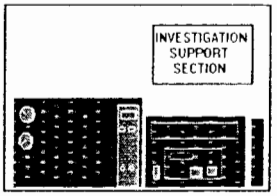
Mohawk River
5A
90
5
790
HIGHLAND
MAYNARD
CAROLINE
SINCLAIR
DOWNER
MATHEWS
CHURCHILL
BRAYTON PK
CHERRY
ERIE
PARKER
LOCK
WASHINGTON
WELLS
Utica Memorial Auditorium
Pixley Park
Stanley Performing Arts Center
NOYES
WALNUT
MAPLE
OAK
ASH
YORK
GOODRICH
WATKINS
FINCKE
MATHER
FLAGG
Addison Miller Park
Syracuse University
Faxton Hospital
Seymour Park
ROSE
MILDRED
HAMPTON
BRADFORD
AUBURN
BAKER
GREENWOOD
BOYCE
MILLER
HOWARD
NELSON
SEYMOUR
HOBART
GOLD
GROVE
WALL
BINCKERHOFF
TAYLOR
MOHAWK
RUTGERS
HAMMOND
GREENVIEW
ARMORY
SHERMAN
GARDEN
BECKWITH
St Elizabeth Hospital
CEMETERY
FERRIS
DOUGLAS
GEORGIAN
MANOR
HILLCREST
MASON
WHEATLEY
UPPER WOODS
LOWER WOODS
WHITE PINE
CAMDEN

6.0 Historic Monitoring Reports

Case Narrative: Northeast Alloys
Site code: 633045
Date Received: 12/18/02
SDG: 352-01

Volatiles QA/QC - All QA/QC requirements were in control. The presence of cis 1,2-Dichloroethene in the trip blank is due to carryover from sample B554-06 which was analyzed right before it. The 1:10 dilution on B554-06 was not enough to put cis 1,2-Dicloroethene within the calibration range. Both 40 ml vials had been opened, so another dilution was not possible.

Northeast Alloys
[Site ID No. 633045]



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-03**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01
Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1659.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID: **B554-03**

Site Name: NORTHEAST ALLOYS

Site Code: 633045 SDG No.: 352-01

Matrix: (soil/water) WATER Lab Sample ID: 602-352-01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1659.D

Level: (low/med) LOW Date Received: 12/18/02

% Moisture: not dec. _____ Date Analyzed: 12/18/02

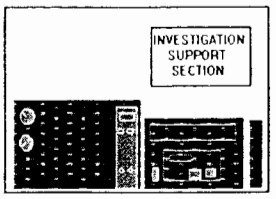
GC Column: ZB624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-04**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01

Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1660.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID: **B554-04**

Site Name: NORTHEAST ALLOYS

Site Code: 633045 SDG No.: 352-01

Matrix: (soil/water) WATER Lab Sample ID: 602-352-02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1660.D

Level: (low/med) LOW Date Received: 12/18/02

% Moisture: not dec. _____ Date Analyzed: 12/18/02

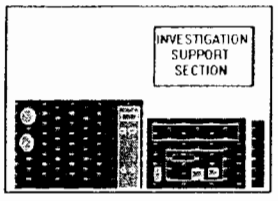
GC Column: ZB624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-05**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01
Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-03
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1661.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	4	J
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	1	J
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	9	J
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID: **B554-05**

Site Name: NORTHEAST ALLOYS

Site Code: 633045 SDG No.: 352-01

Matrix: (soil/water) WATER Lab Sample ID: 602-352-03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1661.D

Level: (low/med) LOW Date Received: 12/18/02

% Moisture: not dec. _____ Date Analyzed: 12/18/02

GC Column: ZB624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-06**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01

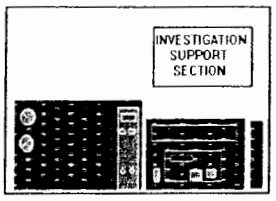
Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1662.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	1100	E
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	64	
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	140	
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	23	
75-34-4	1,1-Dichloroethane	770	E
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	1600	E
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	520	E
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	640	E
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	1	J
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-09**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01

Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-05
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1664.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID: **B554-09**

Site Name: NORTHEAST ALLOYS

Site Code: 633045 SDG No.: 352-01

Matrix: (soil/water) WATER Lab Sample ID: 602-352-05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1664.D

Level: (low/med) LOW Date Received: 12/18/02

% Moisture: not dec. _____ Date Analyzed: 12/18/02

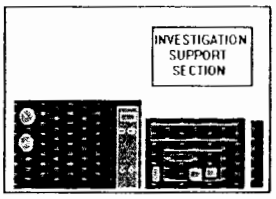
GC Column: ZB624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-11**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01

Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-06
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1665.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-12**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: •352-01
Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-07
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1666.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	1	J
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-TB**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01
Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-08
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1663.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/18/02
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	2	J
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

B554-TB

Site Name: NORTHEAST ALLOYS

Site Code: 633045 SDG No.: 352-01

Matrix: (soil/water) WATER Lab Sample ID: 602-352-08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1663.D

Level: (low/med) LOW Date Received: 12/18/02

% Moisture: not dec. _____ Date Analyzed: 12/18/02

GC Column: ZB624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **B554-06**

Site Name: NORTHEAST ALLOYS
Site Code: 633045 Date Collected: 12/16/02 SDG No.: 352-01
Matrix: (soil/water) WATER Date Received: 12/18/02 Lab Sample ID: 602-352-04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1677.D
GC Column: ZB624 ID: 0.25 (mm) Date Analyzed: 12/19/02
% Moisture: decanted:(Y/N) N Dilution Factor: 10.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg) UG/L		Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl Chloride	920	D
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	110	D
75-15-0	Carbon Disulfide	100	U
67-64-1	Acetone	100	U
75-09-2	Methylene Chloride	100	U
1634-04-4	methyl-tert butyl ether	100	U
540-59-0	trans 1,2-Dichloroethene	100	U
75-34-4	1,1-Dichloroethane	1500	D
108-05-4	Vinyl acetate	100	U
540-59-0	cis 1,2-Dichloroethene	4300	ED
78-93-3	2-Butanone	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	550	D
56-23-5	Carbon tetrachloride	100	U
71-43-2	Benzene	100	U
107-06-2	1,2-Dichloroethane	100	U
79-01-6	Trichloroethene	1700	D
78-87-5	1,2-Dichloropropane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropen	100	U
79-00-5	1,1,2-Trichloroethane	100	U
127-18-4	Tetrachloroethene	100	U
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylenes	100	U
1330-20-7	o-Xylene	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
95-49-8	2-Chlorotoluene	100	U
106-43-4	4-Chlorotoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

B554-06

Site Name: NORTHEAST ALLOYS

Site Code: 633045 SDG No.: 352-01

Matrix: (soil/water) WATER Lab Sample ID: 602-352-04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 02C1677.D

Level: (low/med) LOW Date Received: 12/18/02

% Moisture: not dec. _____ Date Analyzed: 12/19/02

GC Column: ZB624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

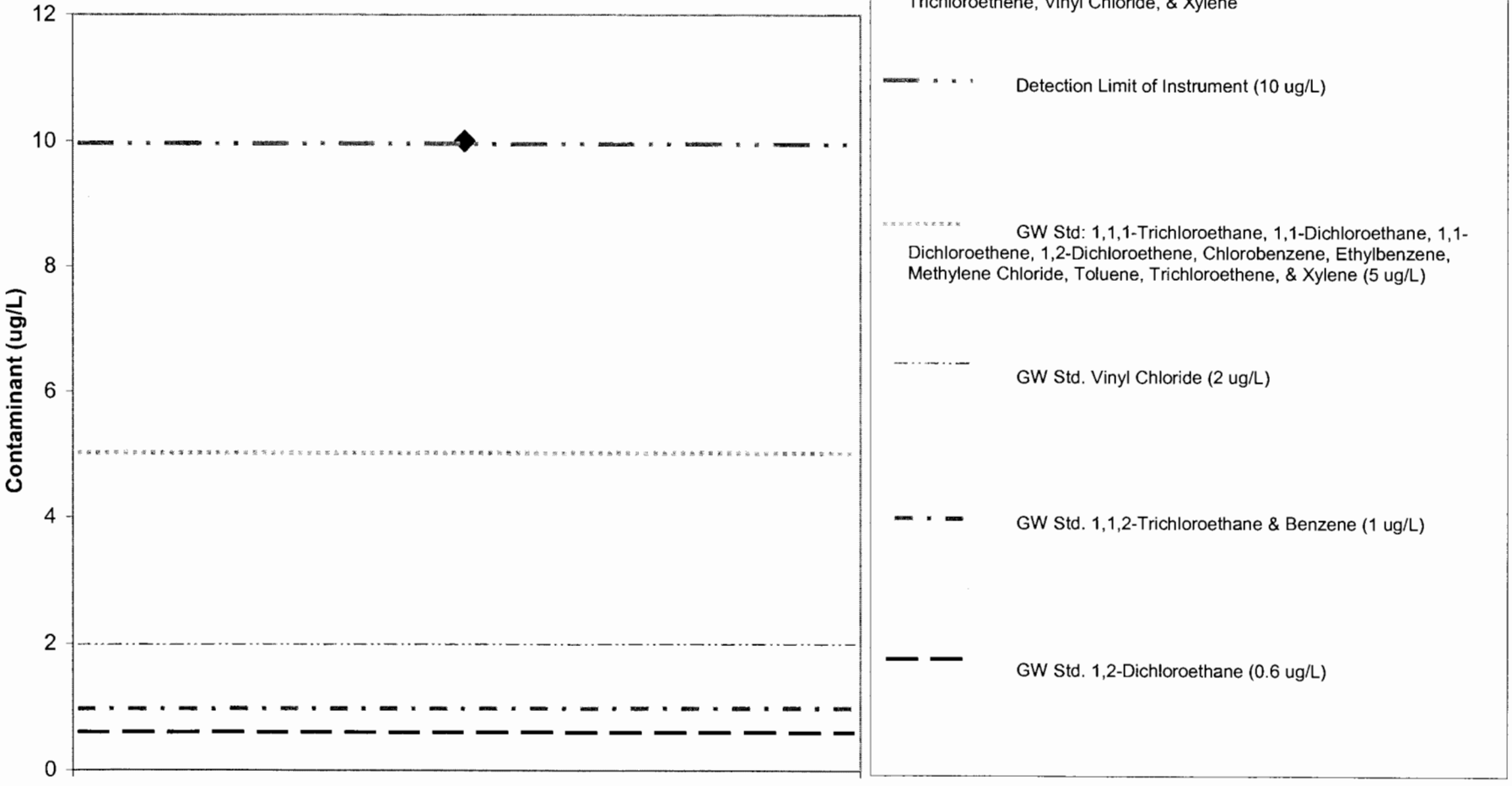
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1 ug/L = 1 ppb

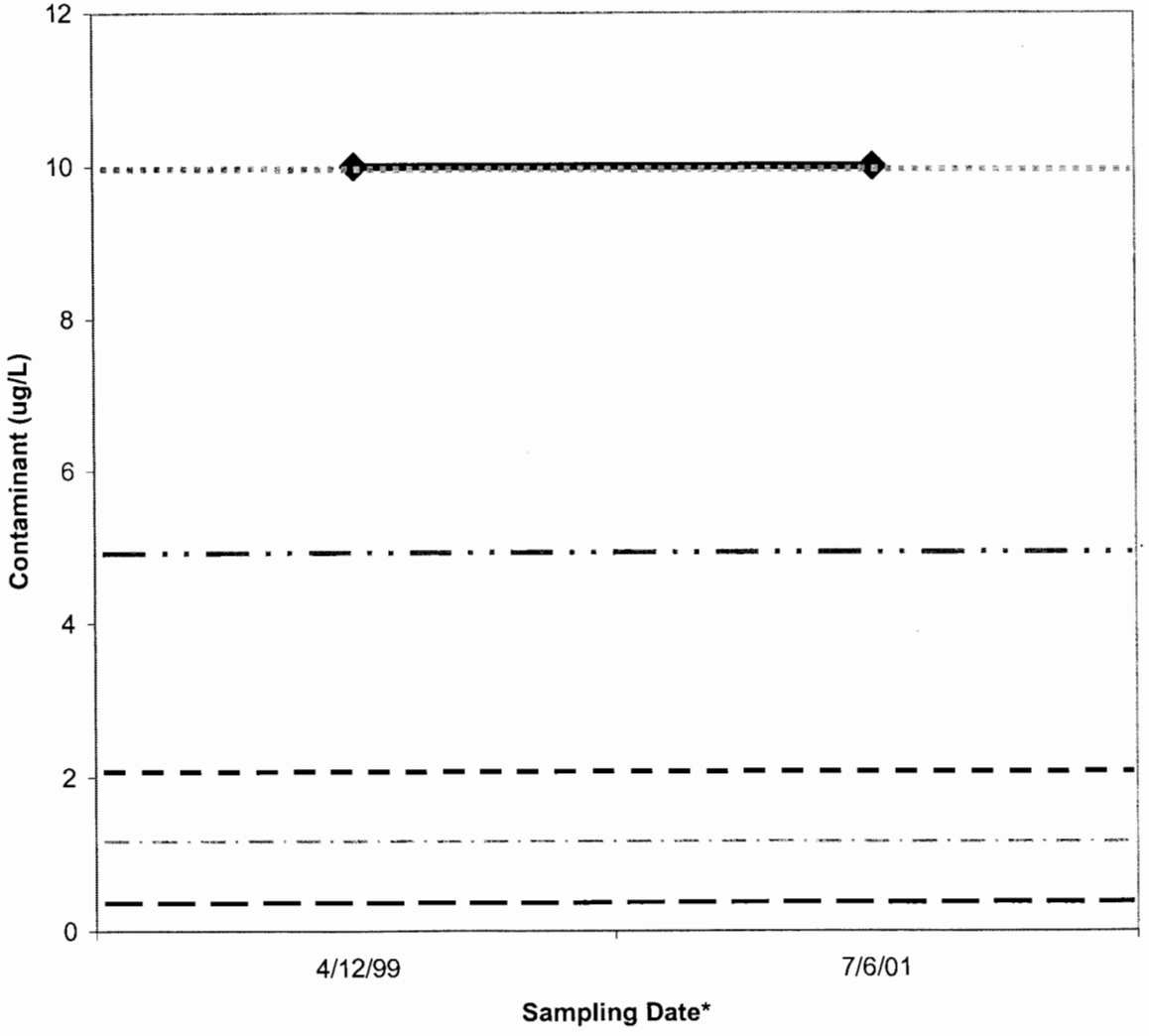
Northeast Alloys and Metals
Site # 633045
VOC Concentration in MW-01



*Note: Sampling occurred only on 4/12/99 for MW-01.

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentration in MW-02



1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl Chloride, & Xylene

Detection Limit of Instrument (10 ug/L)

GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)

GW Std. Vinyl Chloride (2 ug/L)

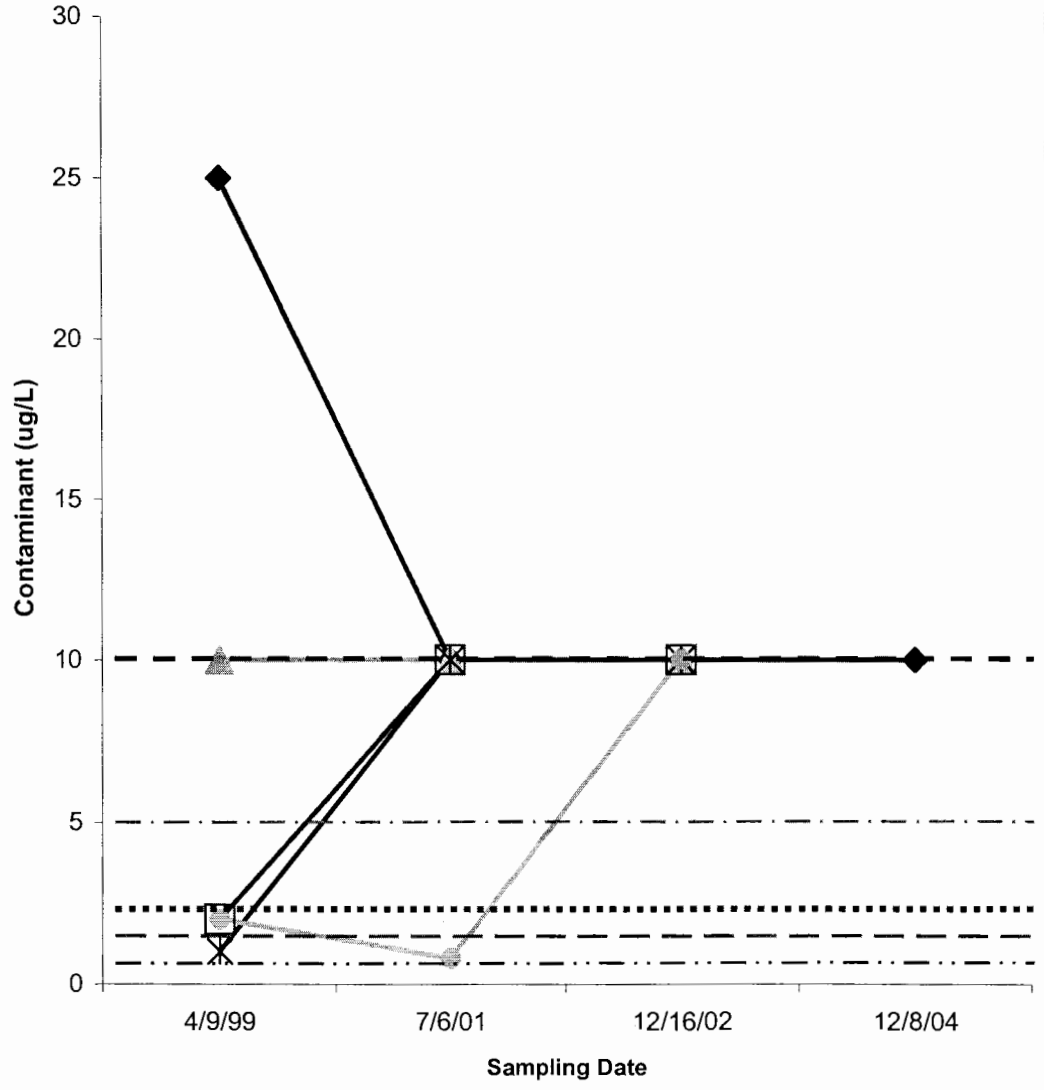
GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)

GW Std. 1,2-Dichloroethane (0.6 ug/L)

*Note: Sampling only occurred on two sampling dates in MW-02 (4/12/99 & 7/6/01).

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-03

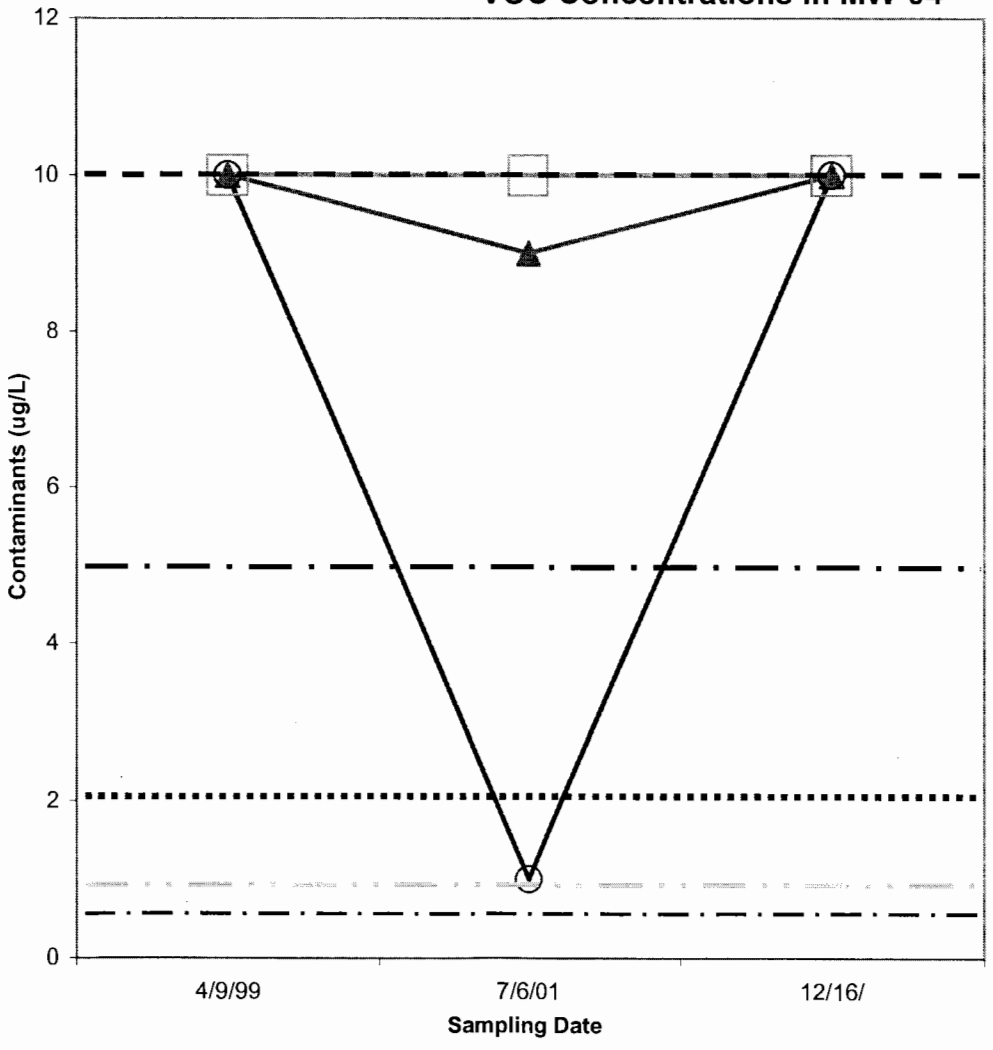


- Vinyl Chloride
- Detection Limit of Instrument (10 ug/L)
- 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene
- 1,1-Dichloroethane
- cis 1,2-Dichloroethene*
- trans 1,2-Dichloroethene*
- GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L)
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
- GW Std. 1,2-Dichloroethane (0.6 ug/L)

*Note: Isomers of 1,2-Dichloroethene (cis & trans) yielded different results on 2 out of 3 sampling dates (4/9/99 & 12/16/02).

1 ug/L = 1 ppb

Northeast Alloys & Metals
Site # 633045
VOC Concentrations in MW-04

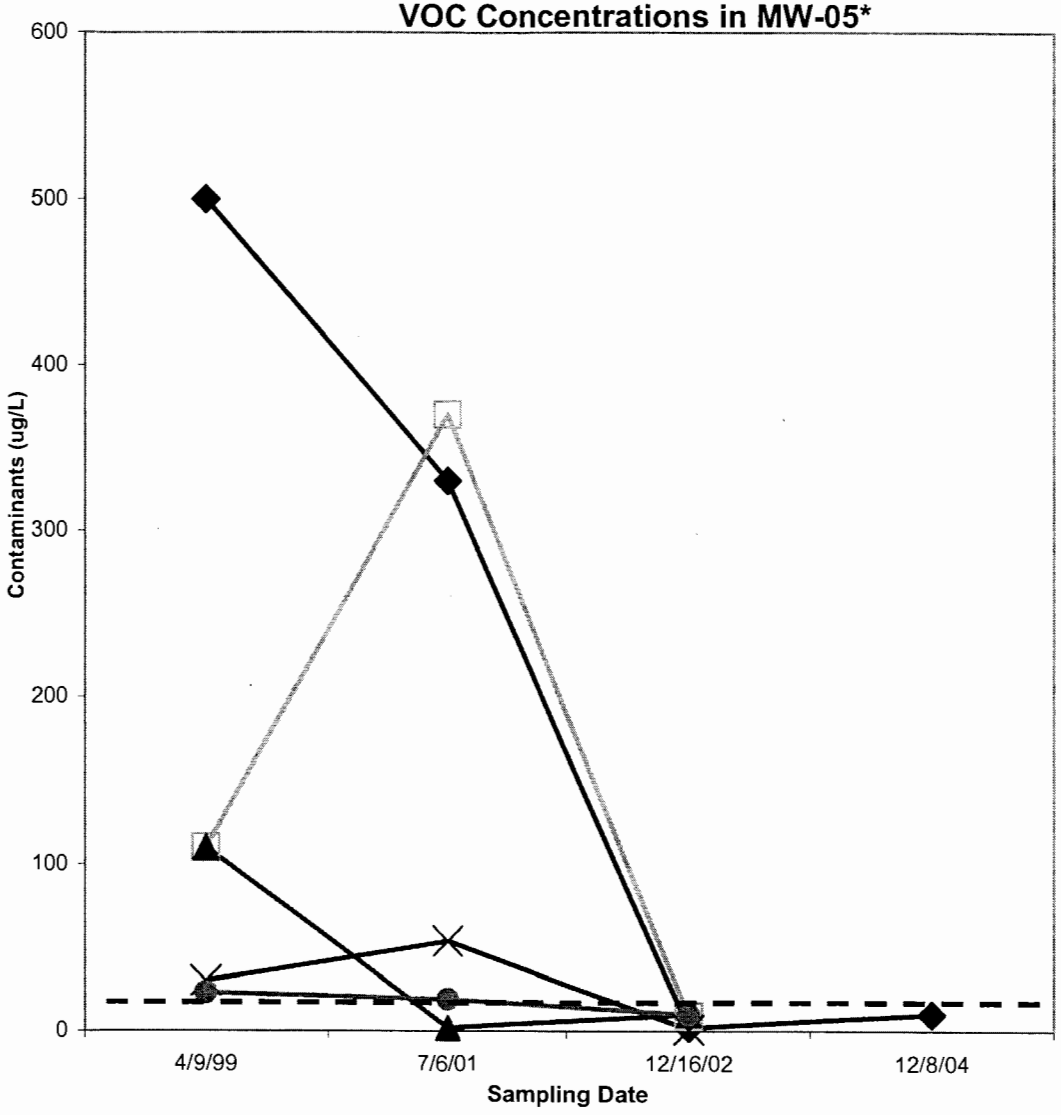


- Detection Limit of Instrument (10 ug/L)
- 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, trans 1,2-Dichloroethene*, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl Chloride, & Xylene
- cis 1,2-Dichloroethene*
- 1,1,1-Trichloroethane
- GW Std: 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L)
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
- GW Std. 1,2-Dichloroethane

*Note: All values for 1,2-Dichloroethene isomers (cis & trans) yielded at the detection limit (10 ug/L) on all dates, except the "cis" isomer which measured 9 ug/L on 7/6/01.

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-05*



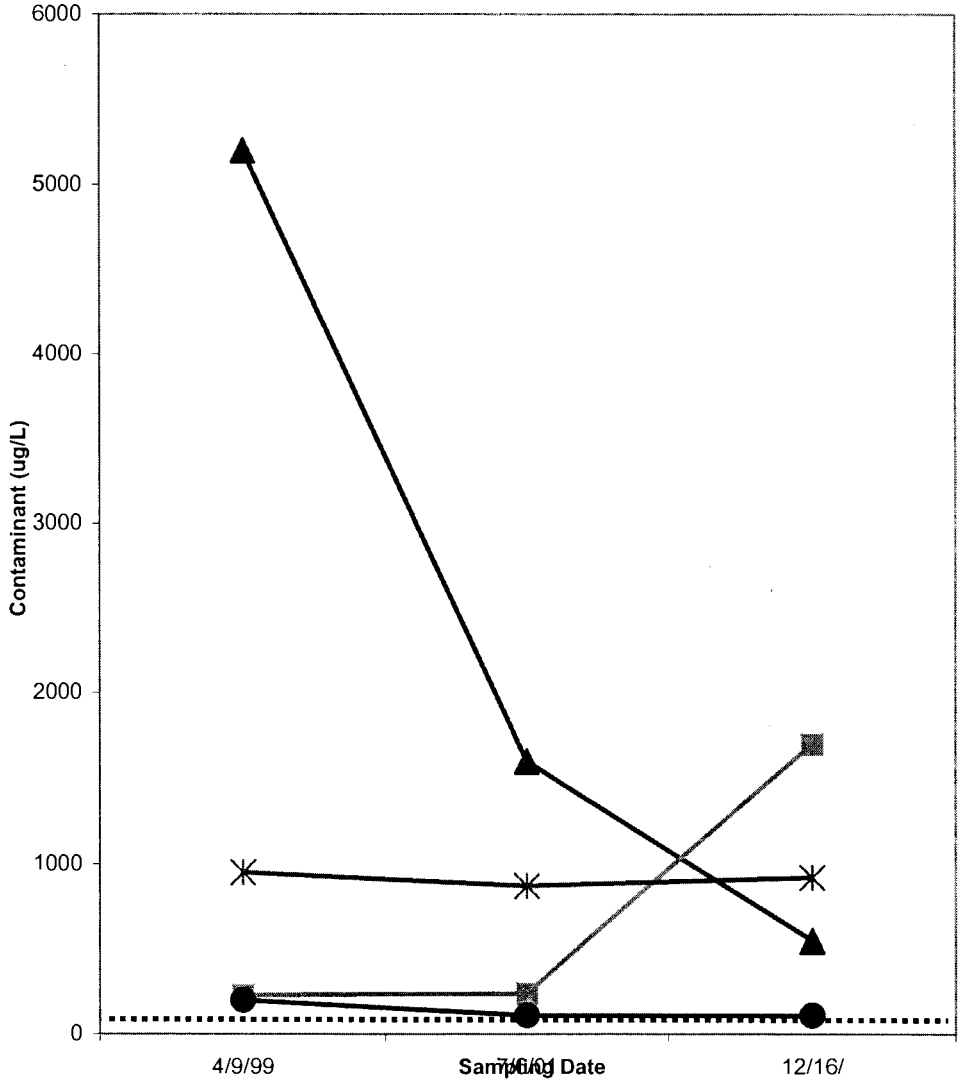
- Trichloroethene
- cis 1,2-Dichloroethene**
- trans 1,2-Dichloroethene**
- 1,1-Dichloroethane
- Vinyl Chloride
- Detection Limit of Instrument (10 ug/L)
- GW Std. Trichloroethene, 1,1-Dichloroethane, & 1,2-Dichloroethene (5 ug/L) {See Note Below}
- GW Std. Vinyl Chloride (2 ug/L) {See Note Below}

*Note: The GW Standard for VOC's in question are mentioned above, however, due to the format of the chart, none are designated graphically.

**1,2-Dichloroethene isomers reported different values on all testing dates. On 4/9/99, both the "cis" & "trans" isomers measured at the detection limit (10 ug/L). But, on 7/6/01, "cis" yielded above the detection limit, at 370 ug/L, while "trans" measured 2 ug/L. On 12/16/02, "cis" measured 9 ug/L, while "trans" yielded 10 ug/L.

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-06*



cis 1,2-Dichloroethene**

trans 1,2-Dichloroethene**

1,1,1-Trichloroethane

Trichloroethene

Vinyl Chloride

1,1-Dichloroethene

Detection Limit of Instrument (10 ug/L)

GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, & Trichloroethene (5 ug/L) {See Note Below}

GW Std. Vinyl Chloride (2 ug/L) {See Note Below}

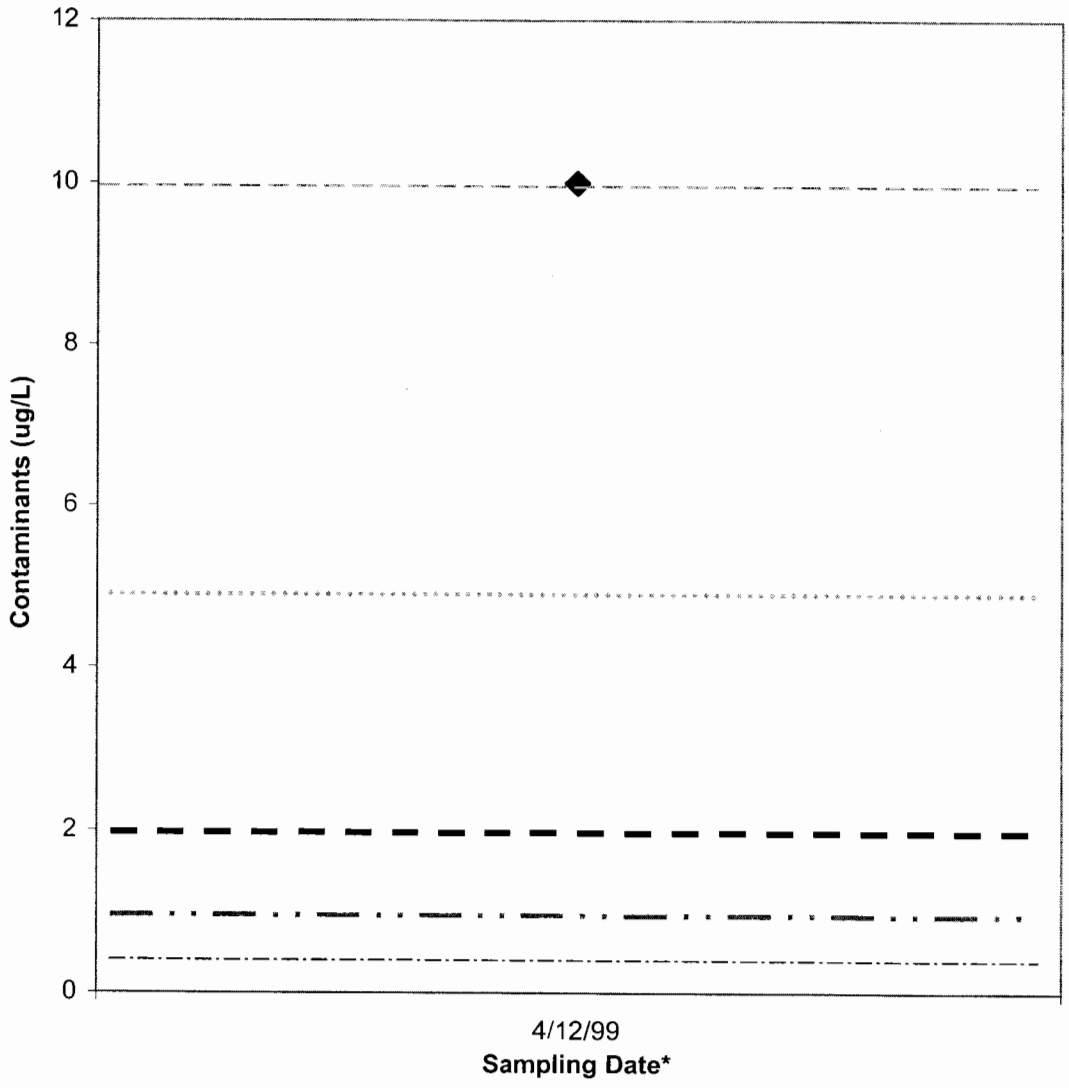
*Notes: 1. Sample analysis (on 12/16/02) in MW-06 occurred twice- once as is and the other time with a "dilution factor" of 10 times the original samples. This chart represents those VOC's who yielded results above the detection limit (10 ug/L). VOC's not represented on this graph plot at or below the detection limit.

2. NYS GW std.'s could not be plotted on this chart due to limited space.

**1,2-Dichloroethene isomers (cis and trans) yielded results on all testing days that greatly exceeded the standards, and due to the format of this chart, could not be plotted here. In ug/L, "cis" values were 19,000 (4/9/99), 18,000 (7/6/01), and 4300 (12/16/02); "trans" isomers reported at 19,000 (4/9/99), 35 (7/6/01), and 23 (12/16/02).

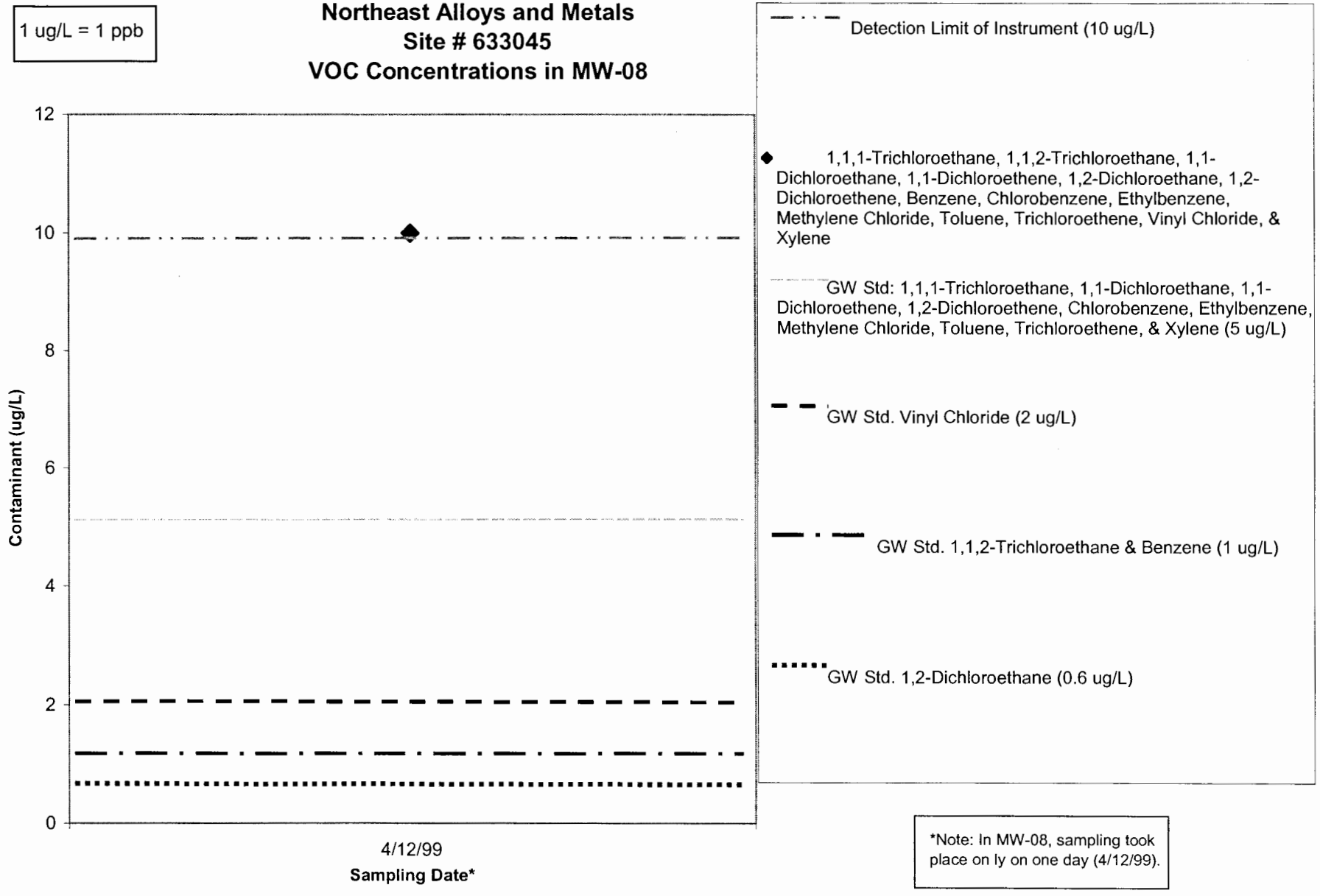
1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentration in MW-07



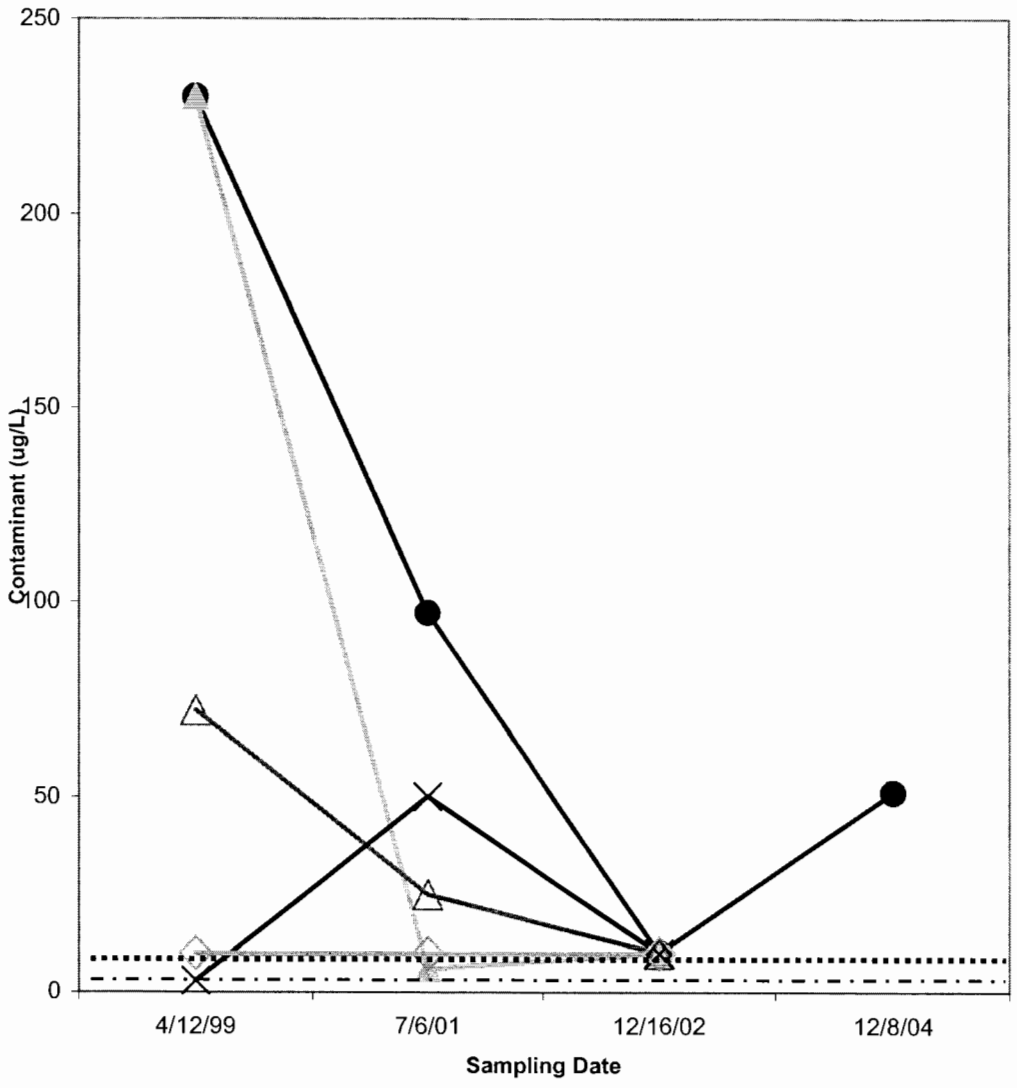
- Detection Limit of Instrument (10 ug/L)
- ◆ 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl Chloride, & Xylene
- GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L)
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
- GW Std. 1,2-Dichloroethane (0.6 ug/L)

*Note: Sampling in MW-07 occurred only on 4/12/99.


1 ug/L = 1 ppb
Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-08
Contaminant (ug/L)
12
10
8
6
4
2
0
4/12/99
Sampling Date*
Detection Limit of Instrument (10 ug/L)
1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl Chloride, & Xylene
GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
GW Std. Vinyl Chloride (2 ug/L)
GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
GW Std. 1,2-Dichloroethane (0.6 ug/L)
*Note: In MW-08, sampling took place on ly on one day (4/12/99).

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-09

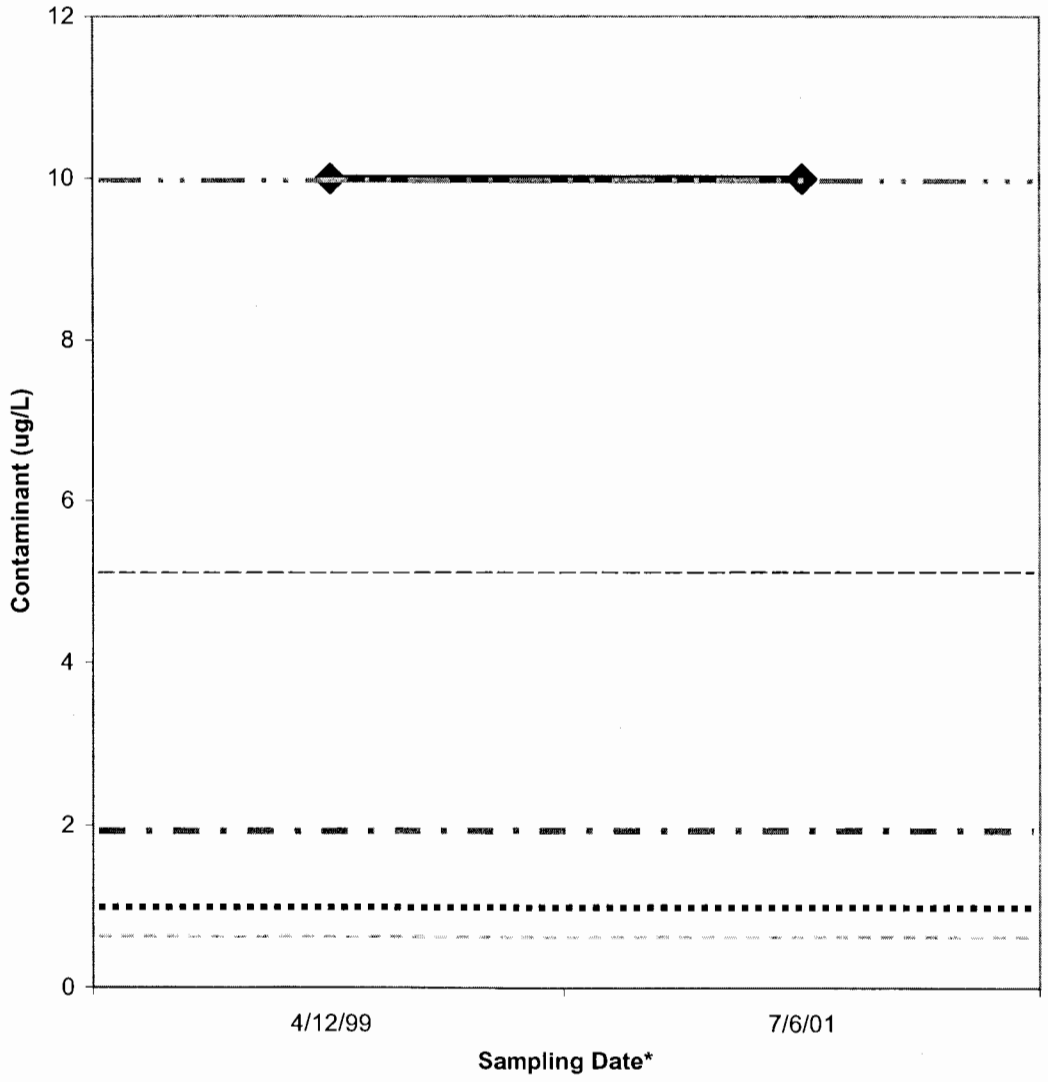


- cis 1,2-Dichloroethene*
- trans 1,2-Dichloroethene*
- Trichloroethene
- Vinyl Chloride
- 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, & Xylene
- Detection Limit of Instrument (10 ug/L)
- GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Benzene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L) {See Note Below}
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L) {See Note Below}
- GW Std. 1,2-Dichloroethane (0.6 ug/L) {See Note Below}

*Note: 1,2-Dichloroethene isomers (cis & trans) yielded different results on the second sampling date (7/6/01). On 4/12/99 both are plotted at 230 ug/L and on 12/16/02 both plotted 10 ug/L. On 7/6/01 "cis" plotted at 97 ug/L and "trans" at 6 ug/L.

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-10

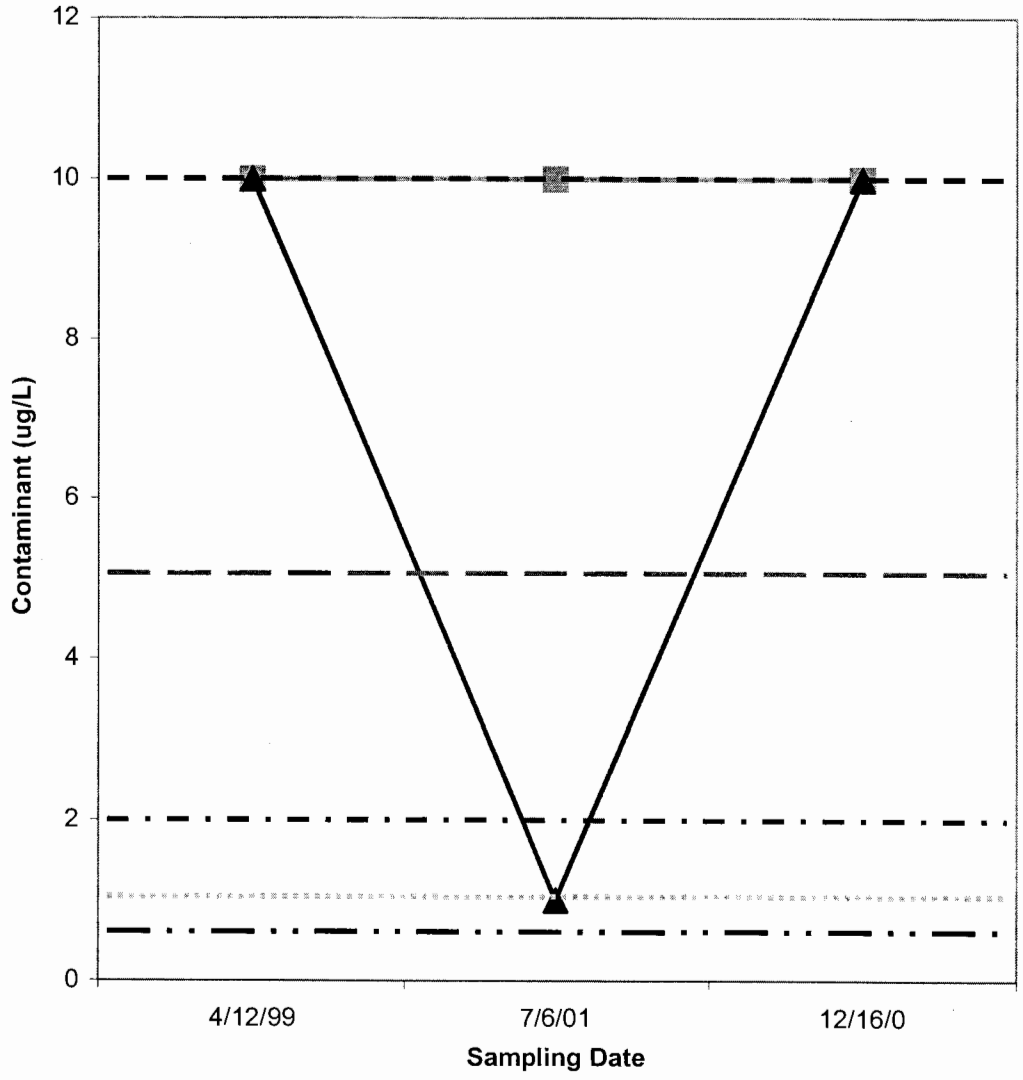


- Detection Limit of Instrument (10 ug/L)
- 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl CHloride, & Xylene
- GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L)
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
- GW Std. 1,2-Dichloroethane (0.6 ug/L)

*Note: Sampling in MW-10 occurred on ly on two dates (4/12/99 & 7/6/01).

1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-11

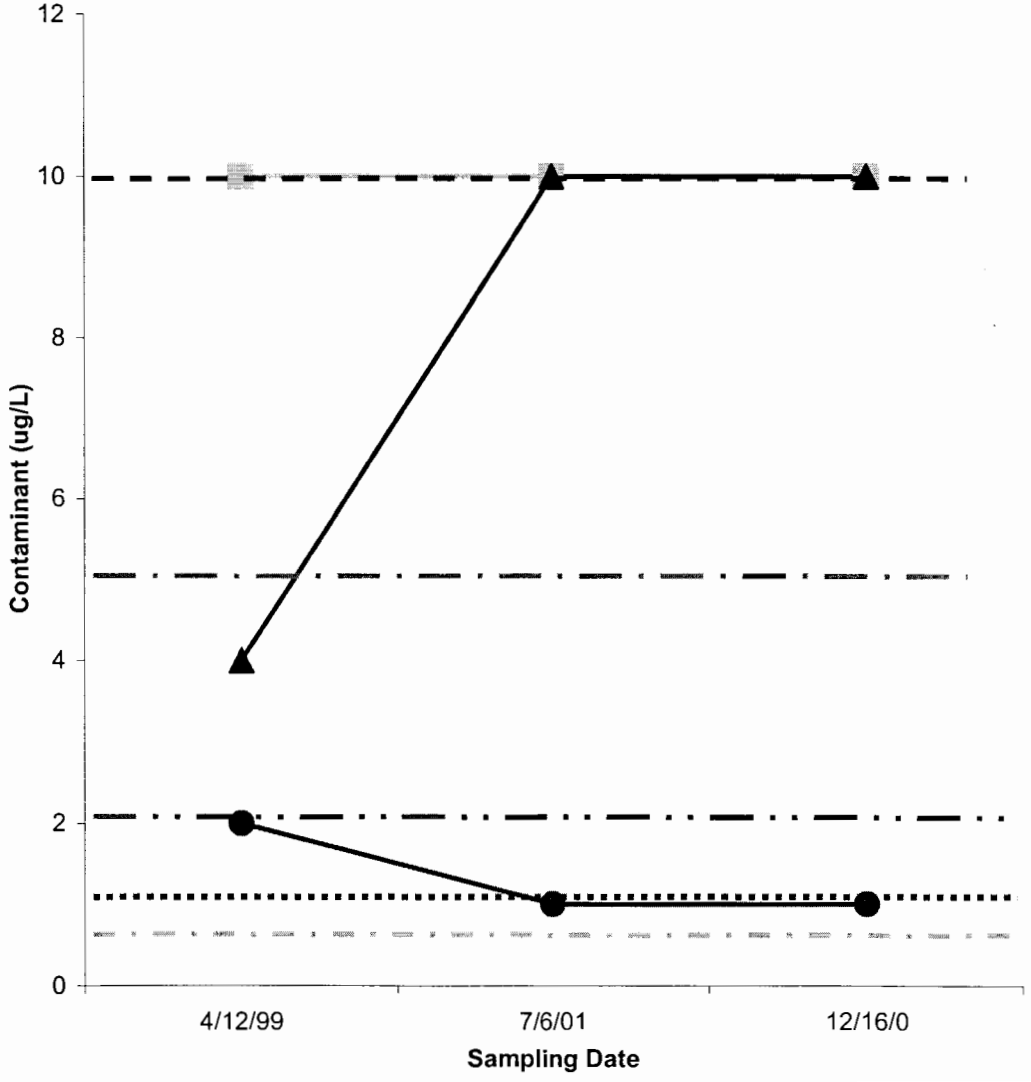


- Detection Limit of Instrument (10 ug/L)
- 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene (trans)*, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl Chloride, & Xylene
- cis 1,1-Dichloroethene*
- GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L)
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
- GW Std. 1,2-Dichloroethane (0.6 ug/L)

*Note: Isomers of 1,2-Dichloroethene ("cis" & "trans") yielded different results on the second sampling date (7/6/01). Both plotted at 10 ug/L on 4 /12/99 and on 12/16/02, however, the "trans" isomer remained at 10 ug/L on 7/6/01, while "cis" plotted at 1 ug/L on 7/6/01.

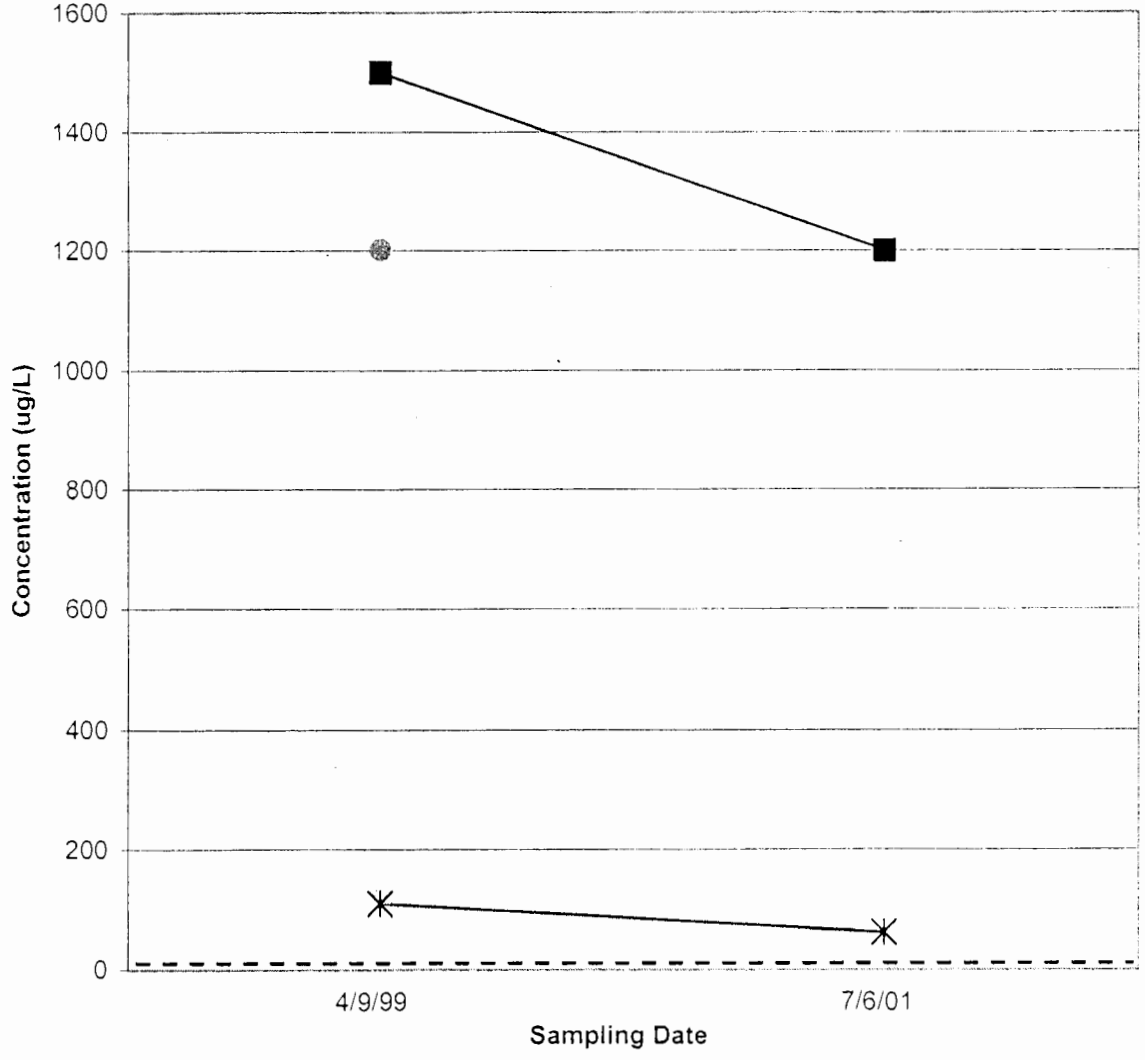
1 ug/L = 1 ppb

Northeast Alloys and Metals
Site # 633045
VOC Concentrations in MW-12



- Detection Limit of Instrument (10 ug/L)
- 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, Vinyl Chloride, & Xylene
- Vinyl Chloride
- GW Std: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, & Xylene (5 ug/L)
- GW Std. Vinyl Chloride (2 ug/L)
- Benzene
- GW Std. 1,1,2-Trichloroethane & Benzene (1 ug/L)
- GW Std. 1,2-Dichloroethane (0.6 ug/L)

Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 01



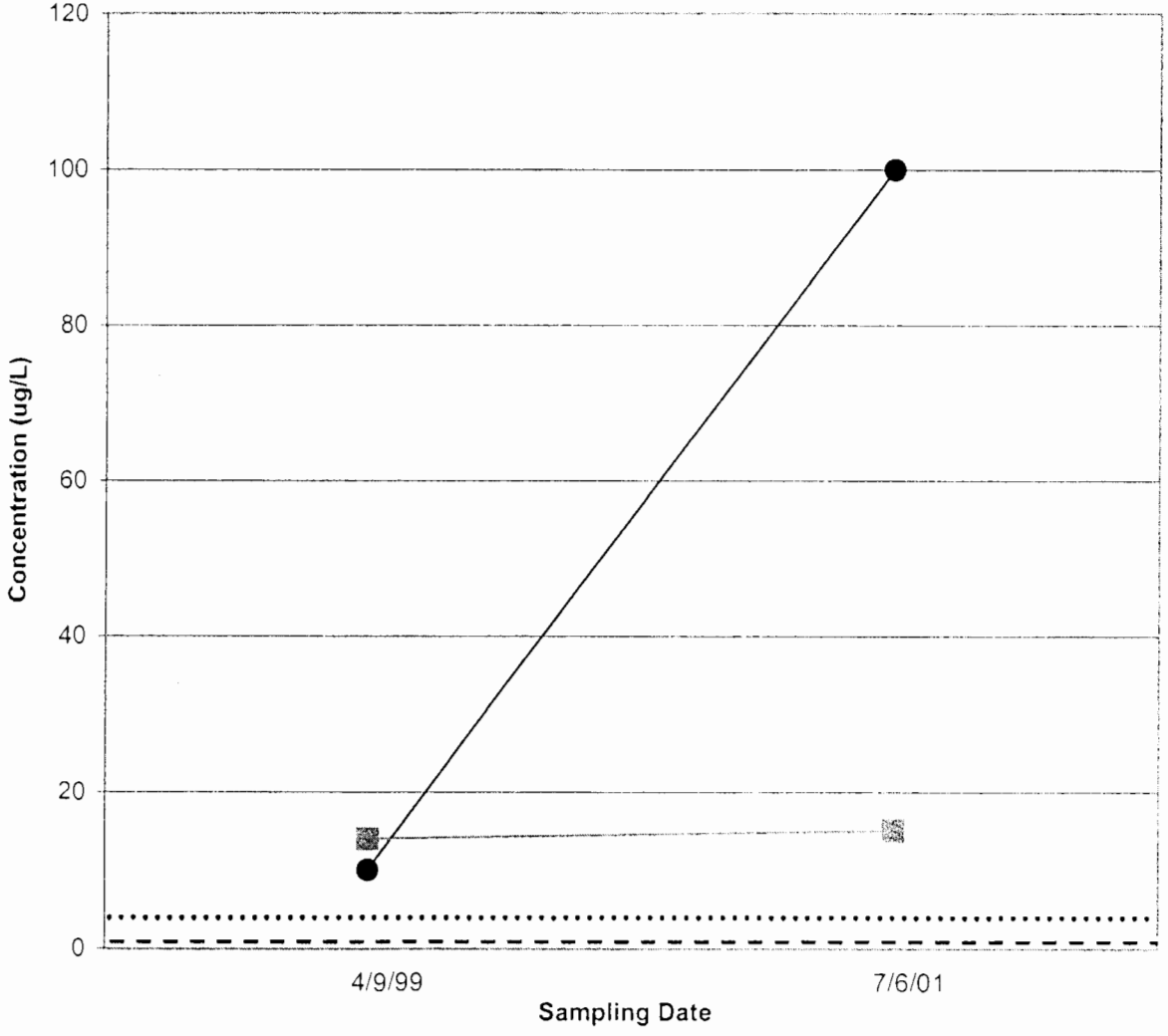
- Sampling Results for Trichloroethene
- Sampling Results for 1,2-Dichloroethene*
- Sampling Results for 1,1-Dichloroethane
- Sampling Results for 1,1,1-Trichloroethane
- GW Standards for 1,1,1-Trichloroethane, Trichloroethene, 1,1-Dichloroethane, and1,2-Dichloroethene (5 ug/L)

Notes:

- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method. (2000 ug/L = 2.0 mg/L)

* The sample taken on 7/6/01 was not analyzed for 1,2-Dichloroethene.

Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 01



Sampling Results for 1,1,2-Trichloroethane, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, and m,p-Xylenes

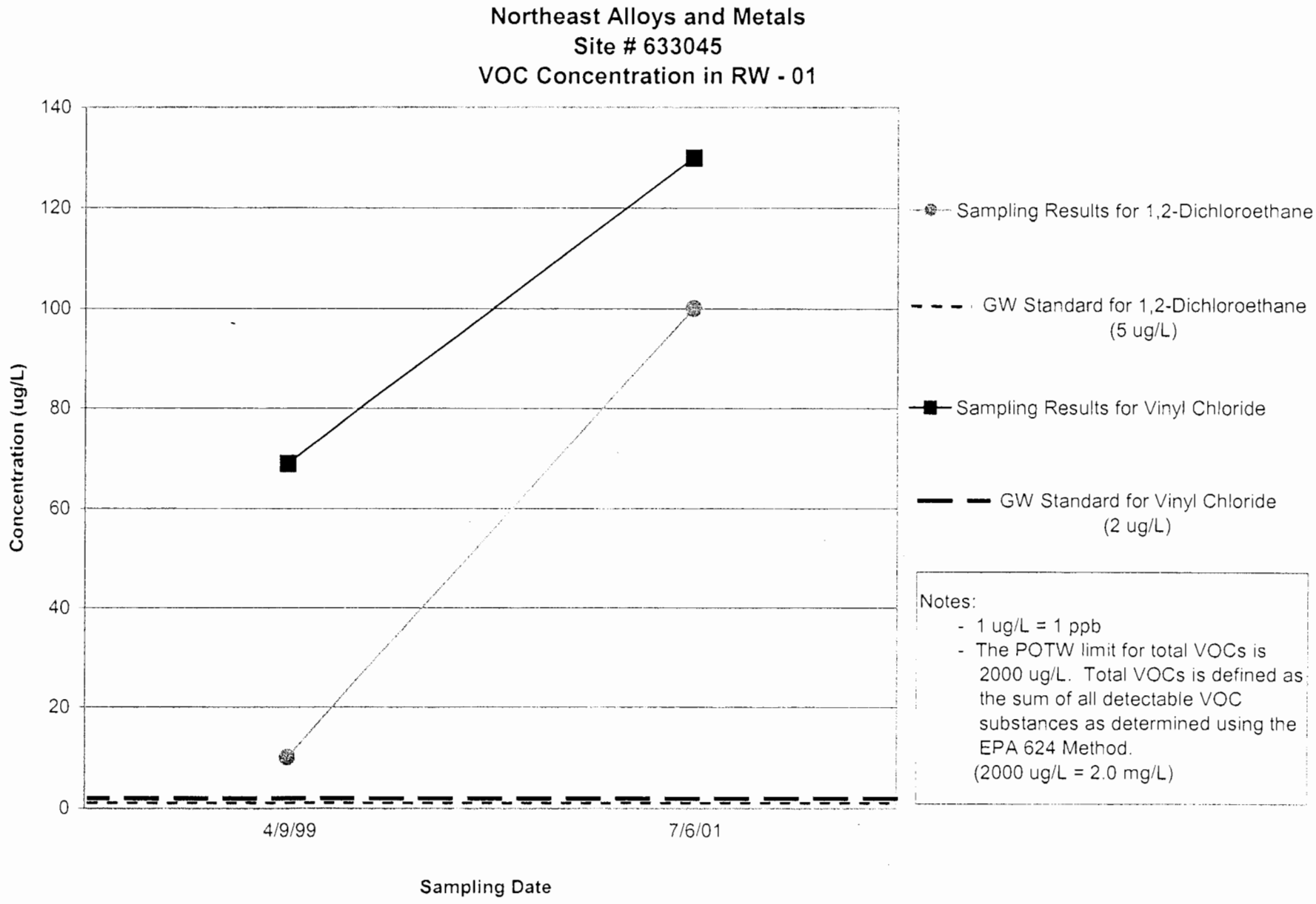
GW Standards for 1,1,2-Trichloroethane and Benzene (1 ug/L)

Sampling Results for 1,1-Dichloroethene

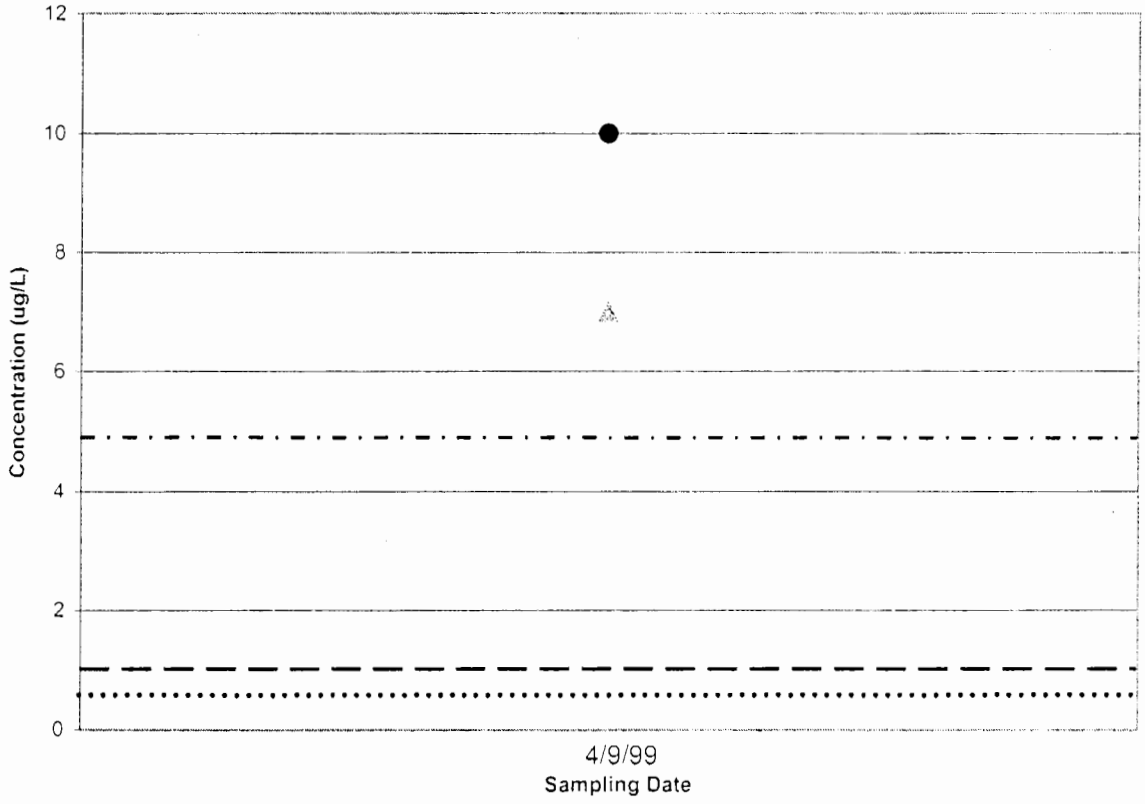
GW Standards for 1,1-Dichloroethene, Chlorobenzene, Ethylbenzene, Methylbenzene, Toluene, and m,p-Xylenes (5 ug/L)

Notes:

- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method. (2000 ug/L = 2.0 mg/L)


Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 01
Concentration (ug/L)
140
120
100
80
60
40
20
0
4/9/99
7/6/01
Sampling Date
Sampling Results for 1,2-Dichloroethane
GW Standard for 1,2-Dichloroethane (5 ug/L)
Sampling Results for Vinyl Chloride
GW Standard for Vinyl Chloride (2 ug/L)
Notes:
- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method.
(2000 ug/L = 2.0 mg/L)

Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 02



Sampling Results for 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Benzene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, and m,p-Xylenes*

GW Standard for 1,1,2-Trichloroethane, and Benzene (1 ug/L)

GW Standard for 1,2-Dichloroethane (0.6 ug/L)

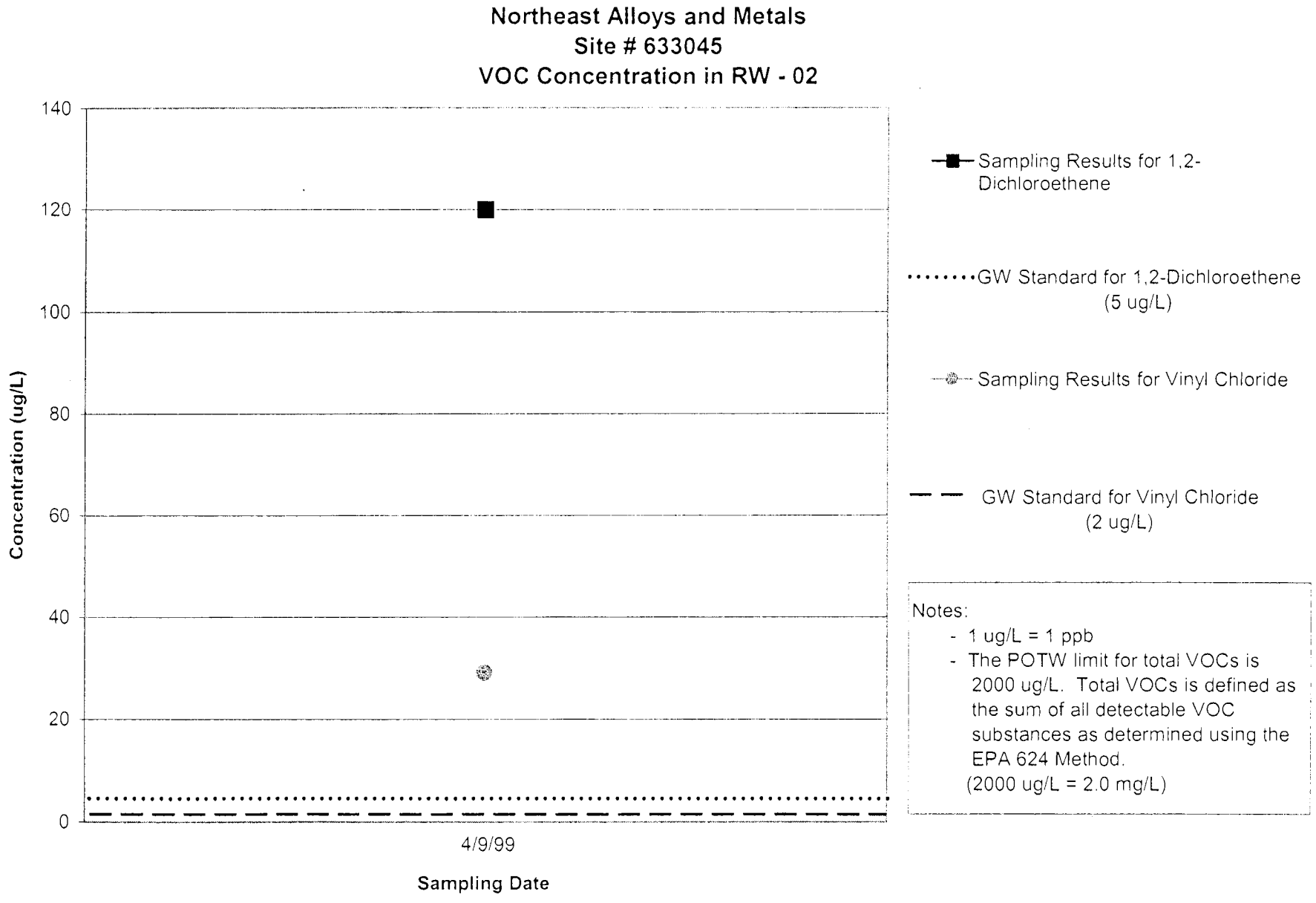
Sampling Results for Trichloroethene**

GW Standards for 1,1,1-Trichloroethane, 1,1-Dichlorothane, 1,1 Dichloroethene, Chlorobenzene, Ethylbenzene, Methylene Chloride, Toluene, Trichloroethene, and m,p-Xylenes (5 ug/L)

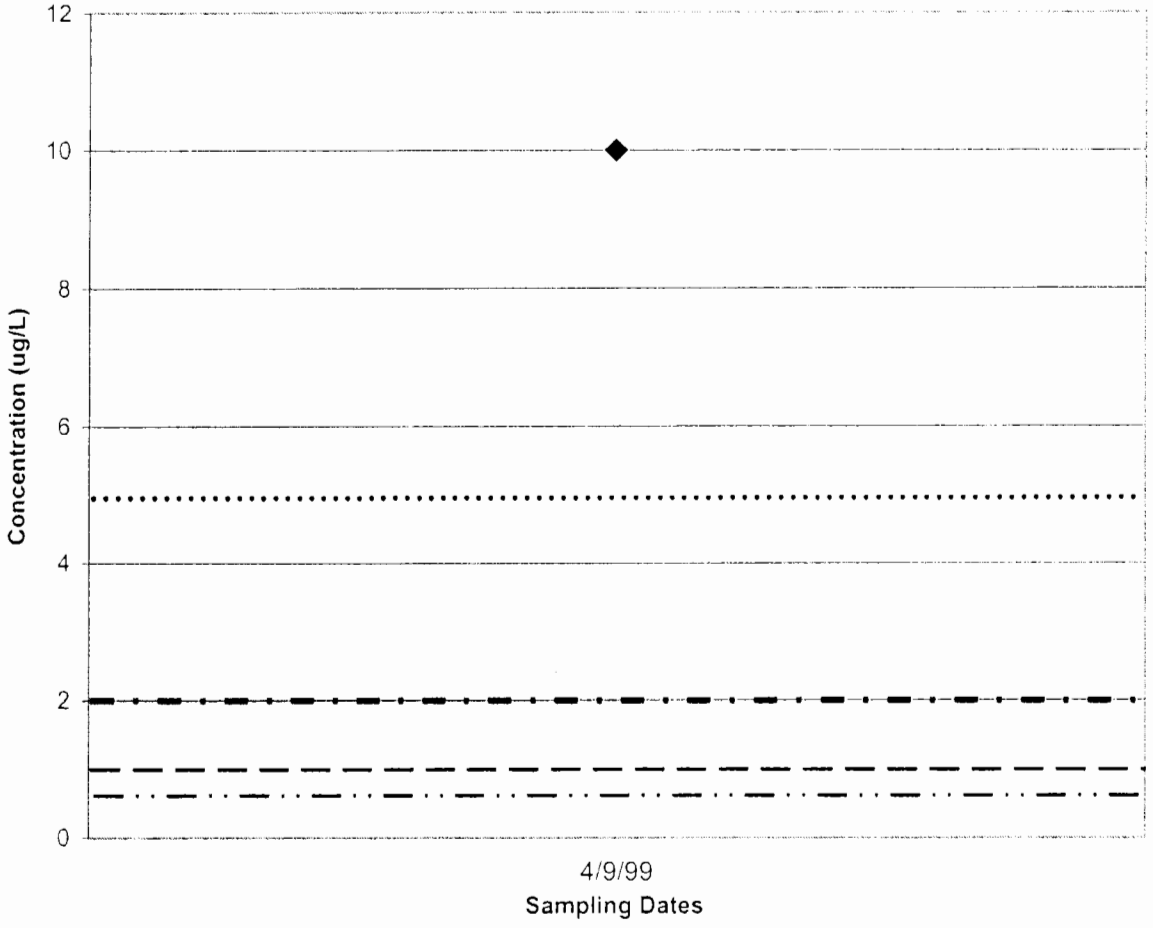
Notes:
- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method. (2000 ug/L = 2.0 mg/L)

* These contaminent concentrations were below the 10 ug/L detection limit of the instruments, however this instrument detection limit is higher than the groundwater standard for each contaminent.

** Compound quanitation is less than the sample quanitation limit but greater than zero. This is an estimated value.


Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 02
140
120
100
80
60
40
20
0
Concentration (ug/L)
4/9/99
Sampling Date
Sampling Results for 1,2-Dichloroethene
GW Standard for 1,2-Dichloroethene (5 ug/L)
Sampling Results for Vinyl Chloride
GW Standard for Vinyl Chloride (2 ug/L)
Notes:
- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method.
(2000 ug/L = 2.0 mg/L)

Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 03



Sampling Results for 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloroethene, Trichloroethene, and Vinyl Chloride*

GW Standard for 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene and Trichloroethene (5 ug/L)

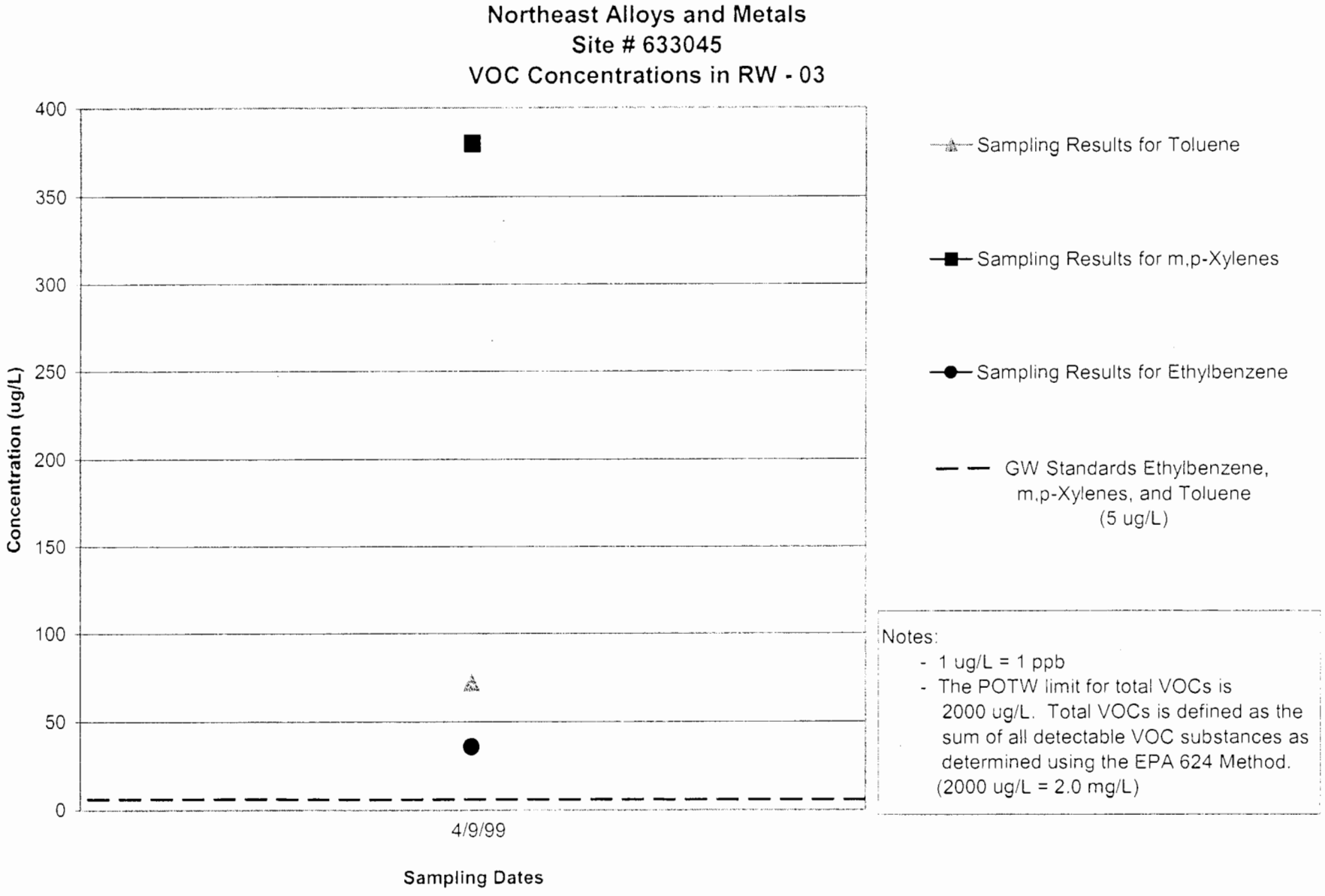
GW Standard for Vinyl Chloride (2 ug/L)

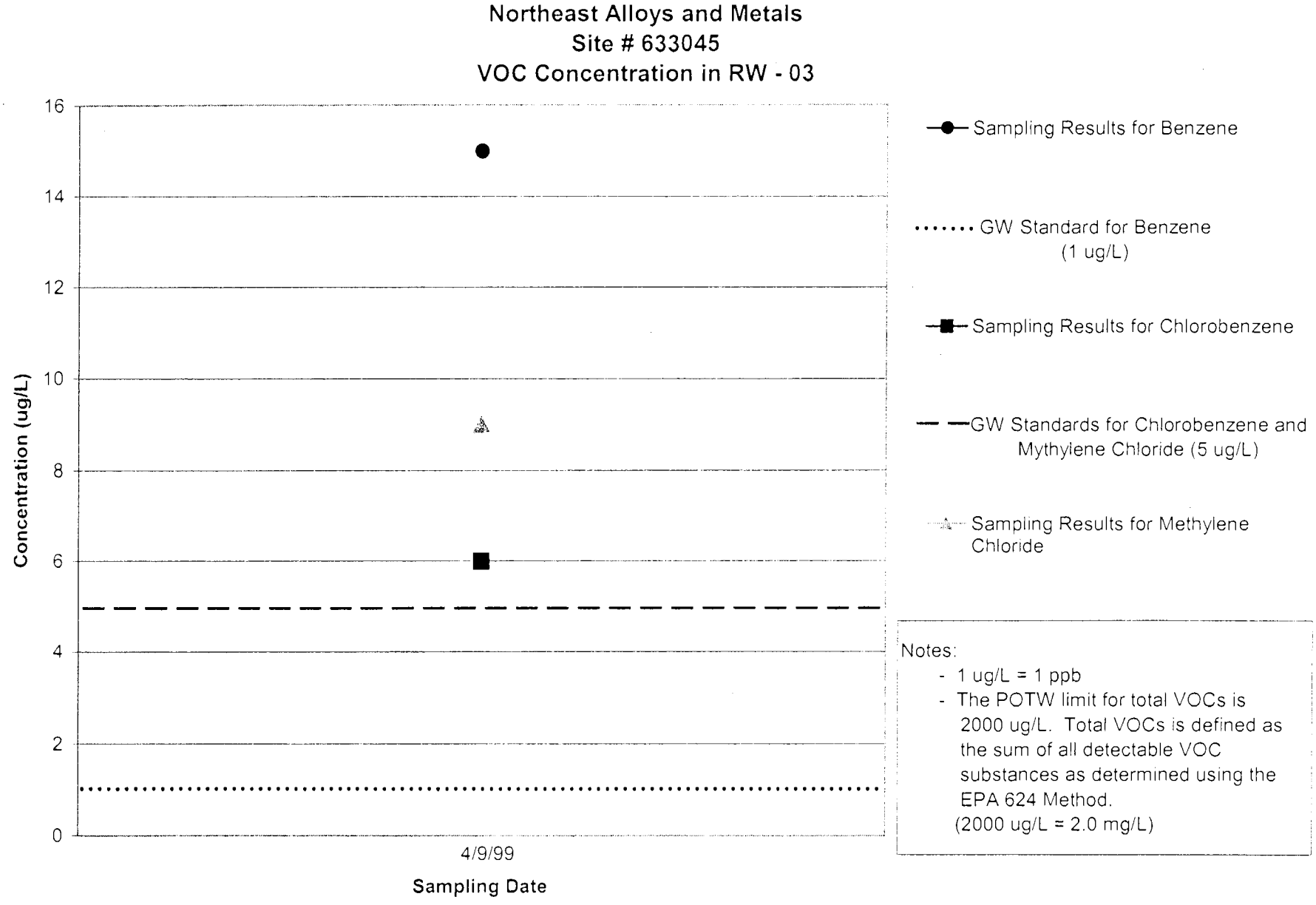
GW Standard for 1,1,2-Trichloroethane (1 ug/L)

GW Standard for 1,2-Dichloroethane (0.6 ug/L)

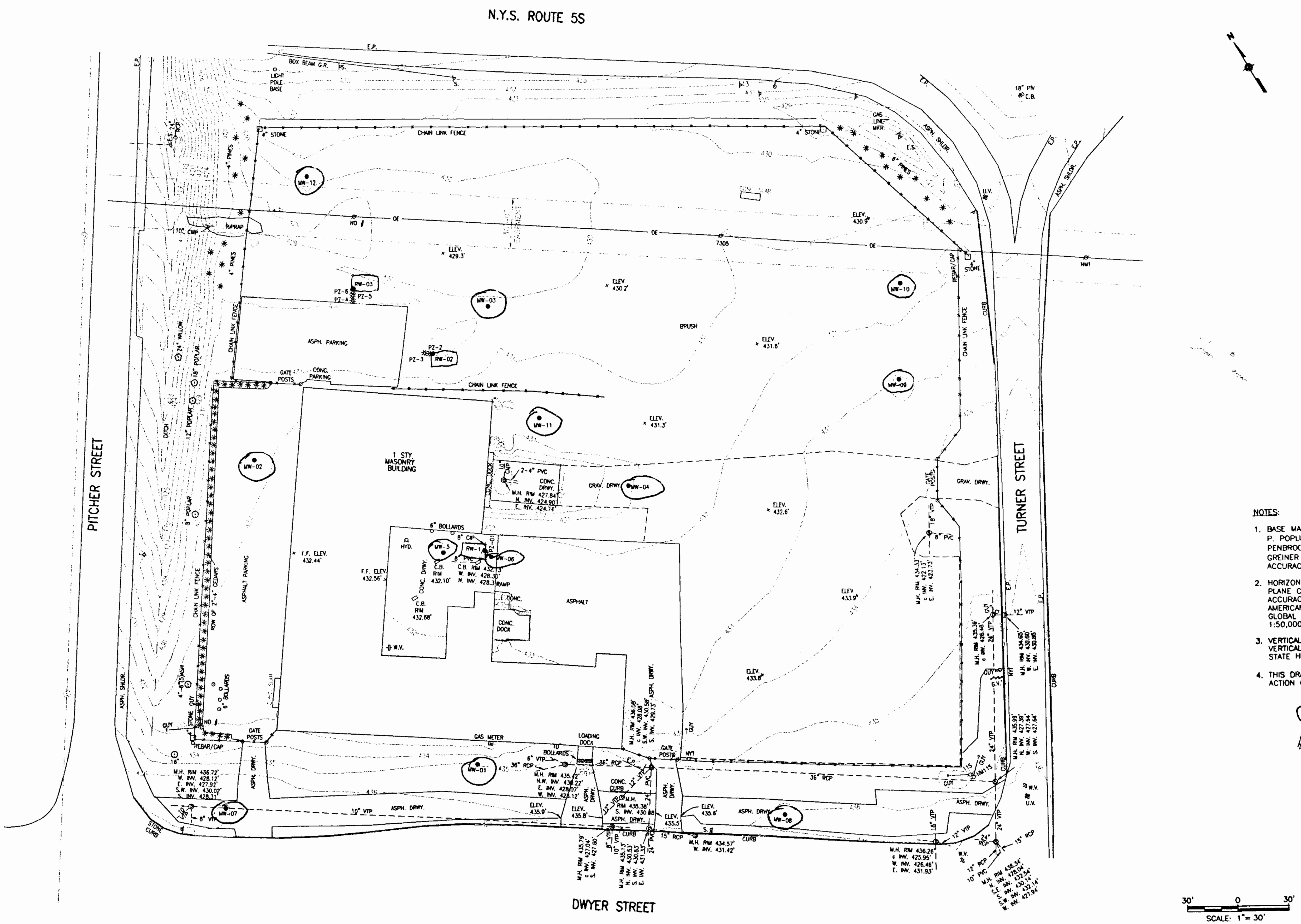
Notes:
- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method. (2000 ug/L = 2.0 mg/L)

* All contaminent concentrations were below the 10 ug/L detection limit of the instruments, however this instrument detection limit is higher than the groundwater standard for each contaminent.


Northeast Alloys and Metals
Site # 633045
VOC Concentrations in RW - 03
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
4/9/99
Sampling Dates
Sampling Results for Toluene
Sampling Results for m,p-Xylenes
Sampling Results for Ethylbenzene
GW Standards Ethylbenzene, m,p-Xylenes, and Toluene (5 ug/L)
Notes:
- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method. (2000 ug/L = 2.0 mg/L)


Northeast Alloys and Metals
Site # 633045
VOC Concentration in RW - 03
Concentration (ug/L)
16
14
12
10
8
6
4
2
0
4/9/99
Sampling Date
Sampling Results for Benzene
GW Standard for Benzene (1 ug/L)
Sampling Results for Chlorobenzene
GW Standards for Chlorobenzene and Mythylene Chloride (5 ug/L)
Sampling Results for Methylene Chloride
Notes:
- 1 ug/L = 1 ppb
- The POTW limit for total VOCs is 2000 ug/L. Total VOCs is defined as the sum of all detectable VOC substances as determined using the EPA 624 Method.
(2000 ug/L = 2.0 mg/L)

7.0 - Historic Groundwater Contour Maps



NOTES:

1. BASE MAP DEVELOPED FROM A TOPOGRAPHIC SURVEY MAP PROVIDED BY OM P. POPLI, P.E, L.S., P.C., CIVIL ENGINEERS – LAND SURVEYORS, 555 PENBROOKE DRIVE, PENFIELD, NEW YORK 14526, DATED MAY 6, 1999. URS GREINER WOODWARD CLYDE GROUP CONSULTANTS, INC. HAS NOT VERIFIED THE ACCURACY OF THIS MAP.
2. HORIZONTAL LOCATIONS SHOWN HEREON ARE BASED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM AND DERIVED FROM THE NEW YORK STATE HIGH ACCURACY REFERENCE NETWORK (H.A.R.N.) STATION 'UTICA' ON THE NORTH AMERICAN DATUM OF 1983/96 (NAD 83/96) USING REAL TIME KINIMATIC GLOBAL POSITIONING PROCEDURES NECESSARY TO OBTAIN AN ACCURACY OF 1:50,000 OR BETTER.
3. VERTICAL LOCATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE DERIVED FROM THE NEW YORK STATE HIGH ACCURACY REFERENCE NETWORK (H.A.R.N.) STATION 'UTICA'.
4. THIS DRAWING REPRESENTS SITE CONDITIONS PRIOR TO THE REMEDIAL ACTION CONSTRUCTION ACTIVITIES.

MW-# – Monitoring Well

RW# – Recovery Well

NO.	DATE	DESCRIPTION
1	10/01	RECORD DRAWING

REVISIONS

DESIGNED BY: DMc
DRAWN BY: ELB
CHECKED BY: DWR
PROJ. ENGR. DMc

URS Greiner Woodward Clyde
Group Consultants, Inc.
JOB No. 35618.03

NORTHEAST ALLOYS AND METALS SITE
CITY OF UTICA
ONEIDA COUNTY, NEW YORK
SITE NO. 6-33-045
CONTRACT NO: D-004178

Prepared for:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK

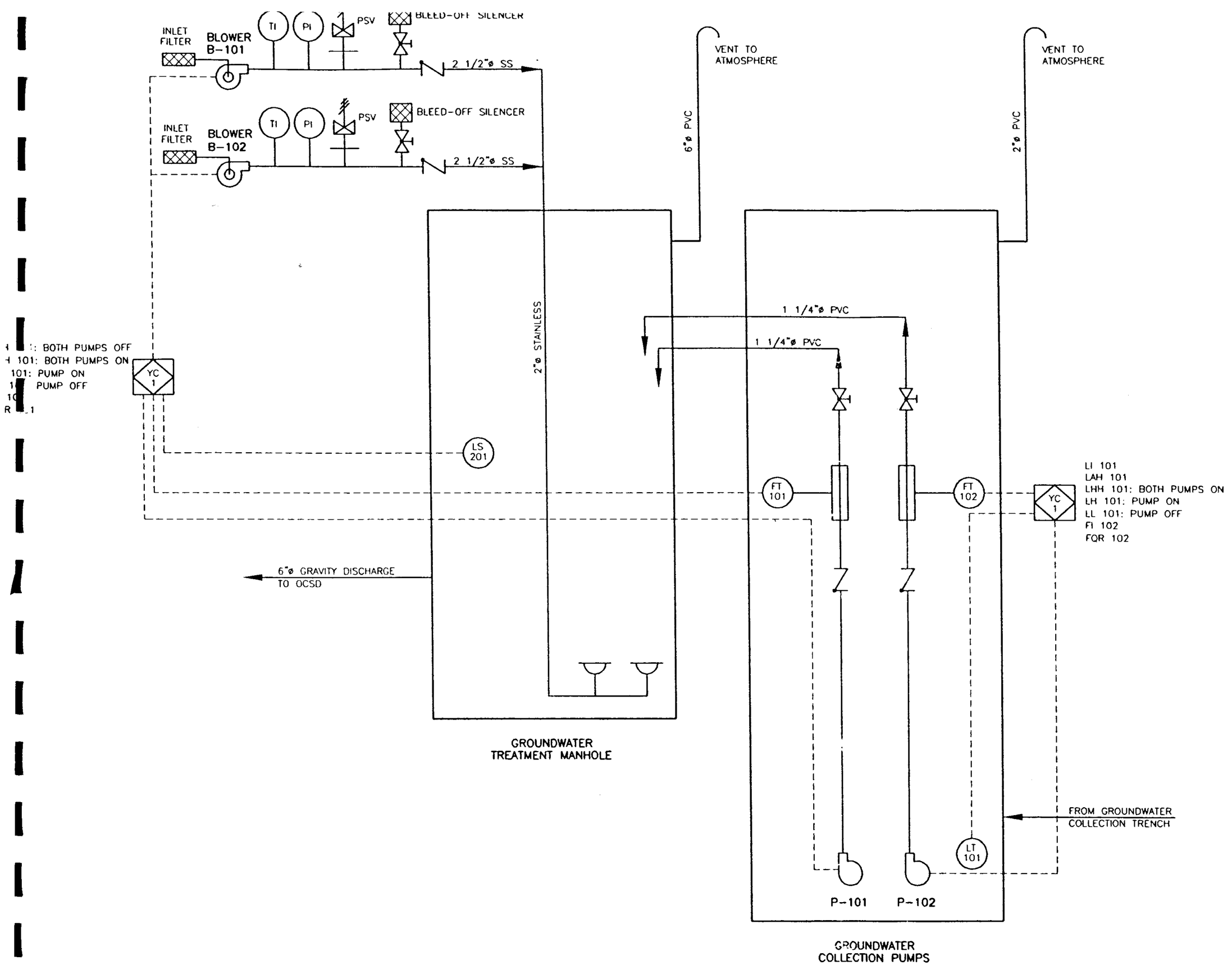
SITE SURVEY AND TOPOGRAPHY PRIOR TO CONSTRUCTION

Scale: 1"=30' | Date: OCTOBER 2001 | DWG. 2

Section 8.0 - Treatment System Diagrams / Cross Sections

BY THE ENGINEER.

3. MASTER CONTROL PANEL INCLUDES A CONTROL SYSTEM BY EOS THAT ALLOWS BOTH LOCAL AND REMOTE MONITORING OF THE SYSTEM COMPONENTS.
4. CONTRACTOR TO PROVIDE AND INSTALL THE REQUIRED NUMBER OF FLOW, LEVEL, TEMPERATURE AND PRESSURE SENSORS (TRANSMITTERS) TO PERFORM THE FUNCTIONS SHOWN ON THESE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. MORE THAN ONE OF EACH OF THESE DEVICES MAY BE REQUIRED FOR SOME EQUIPMENT.
5. THE SYSTEM SHALL BE CAPABLE OF OPERATING CONTINUOUSLY, 24 HOURS PER DAY, 7 DAYS PER WEEK.
6. THE CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL THE SYSTEM, INCLUDING FIELD CHECKOUT AND STARTUP, AND THEN TEST AND OPERATE THE SYSTEM FOR A PERIOD OF TIME NECESSARY TO DEMONSTRATE TO THE DEPARTMENT AND THE ENGINEER THAT THE SYSTEM IS CAPABLE OF OPERATING CONTINUOUSLY AND MEETS THE REQUIRED DISCHARGE CRITERIA.
7. THE GROUNDWATER PUMPS SHALL OPERATE IN AN ALTERNATING LEAD-LAG MODE.
8. ONLY ONE BLOWER SHALL OPERATE. THE SECOND IS AN INSTALLED STANDBY SPARE. THE BLOWER SHALL OPERATE WHEN EITHER GROUNDWATER PUMP OPERATES, AND SHUT DOWN 15 MINUTES AFTER THE GROUNDWATER PUMPS SHUT DOWN. THE GROUNDWATER PUMPS SHALL NOT OPERATE UNLESS THE BLOWER IS OPERATING.
9. ALL VENTS SHALL BE EQUIPPED WITH BIRD/BUG SCREEN.



LEGEND

- PUMP
- BLOWER
- MANUALLY OPERATED BALL VALVE
- CHECK VALVE
- COARSE BUBBLE DIFFUSER
- PROGRAMMABLE LOGIC CONTROLLER (YC 1)
- SP — SAMPLING POINT
- INSTRUMENTATION (XXX)
- PSV — PRESSURE AND VACUUM RELIEF VALVE
- FLOW TRANSMITTER

ABBREVIATIONS

FI	–	FLOWRATE INDICATION
FQR	–	FLOW TOTALIZER
FT	–	FLOW TRANSMITTER
LAH	–	HIGH LEVEL ALARM
LH	–	LEVEL HIGH
LHH	–	LEVEL HIGH-HIGH
LI	–	LEVEL INDICATION
LL	–	LEVEL LOW
LS	–	LEVEL SWITCH
OCSD	–	ONEIDA COUNTY SEWER DISTRICT
PI	–	PRESSURE INDICATOR
PSV	–	PRESSURE SAFETY VALVE
SP	–	SAMPLE PORT
TI	–	TEMPERATURE INDICATOR

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10/01	RECORD DRAWING			

DESIGNED BY: DMc
DRAWN BY: ELB
CHECKED BY: DWR
PROJ. ENGR. DMc

URS Greiner Woodward Clyde
Group Consultants, Inc.

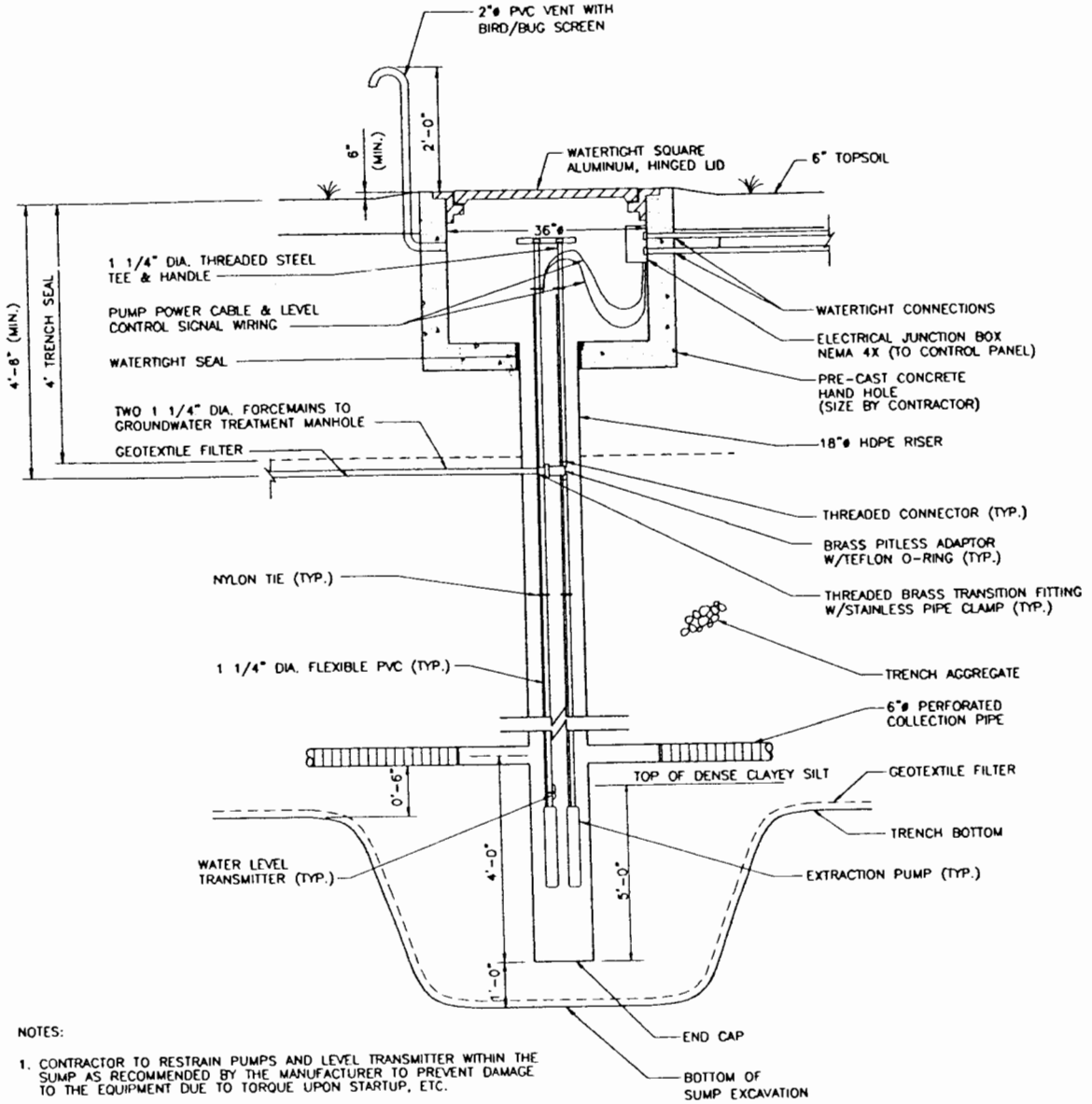
JOB No. 35618.03

NORTHEAST ALLOYS AND METALS SITE
CITY OF UTICA
ONEIDA COUNTY, NEW YORK
SITE NO. 6-33-045
CONTRACT NO: D-004178

Prepared for:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK

GROUNDWATER TREATMENT SYSTE PROCESS FLOW DIAGRAM

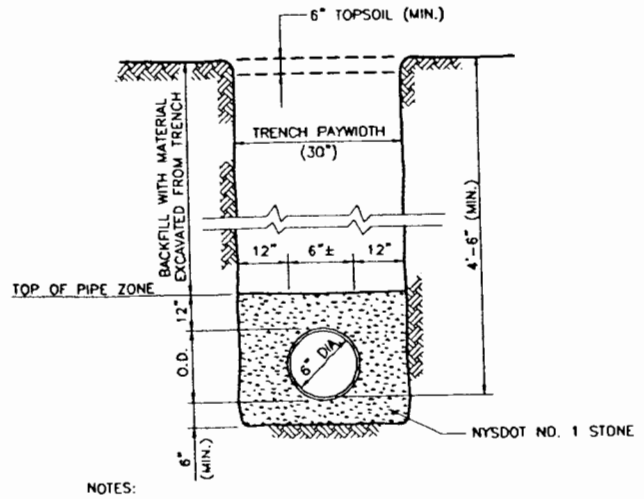
Scale: NONE | Date: OCTOBER 2001 | DWG. 8



NOTES:

1. CONTRACTOR TO RESTRAIN PUMPS AND LEVEL TRANSMITTER WITHIN THE SUMP AS RECOMMENDED BY THE MANUFACTURER TO PREVENT DAMAGE TO THE EQUIPMENT DUE TO TORQUE UPON STARTUP, ETC.
2. COLLECTION PIPES SHOWN ROTATED FOR CLARITY.
3. CONTRACTOR TO PROVIDE ADDITIONAL LIFT CHAIN OR ROPE SECURED TO THE PUMP AND TO THE TOP OF THE WELL.

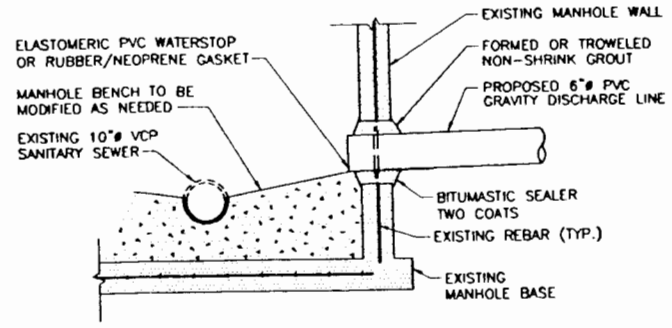
GROUNDWATER COLLECTION SUMP [5 / 3 5]
NOT TO SCALE



NOTES:

1. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.
3. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT.
4. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS, AS REQUIRED BY OSHA.
5. FOR TRENCH AREA AT PITCHER STREET CROSSING TO MANHOLE, CONTRACTOR SHALL SAW CUT DEPTH OF PAVEMENT AS REQUIRED FOR EXCAVATION. THE STREET SHALL BE RECONSTRUCTED IN-KIND UPON COMPLETION OF TRENCH INSTALLATION INCLUDING BACKFILL AND COMPACTION. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES IN THE STREET OR RIGHT-OF-WAY WITH THE CITY ENGINEER.

TRENCH DETAIL FOR GRAVITY DISCHARGE LINE [7 / 4 5]
NOT TO SCALE



NOTES:

1. CORE DRILL ENTRANCE HOLE IN MANHOLE BARREL, BASE AND/OR BENCH FOR REQUIRED PIPE CLEARANCE.
2. CONDITIONS SHOWN HERE FOR THE EXISTING MANHOLE ARE TYPICAL AND MAY NOT REPRESENT ACTUAL CONDITIONS. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED TO PERFORM WORK INCLUDING STREET CUT PERMIT AND PLUMBING PERMIT.
4. MANHOLE SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS.

CONNECTION TO EXISTING MANHOLE [6 / 4 5]
NOT TO SCALE

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10/01	RECORD DRAWING			

REVISIONS

DESIGNED BY: DMc
DRAWN BY: ELB
CHECKED BY: DWR
PROJ. ENGR. DMc

URS Greiner Woodward Clyde
Group Consultants, Inc.

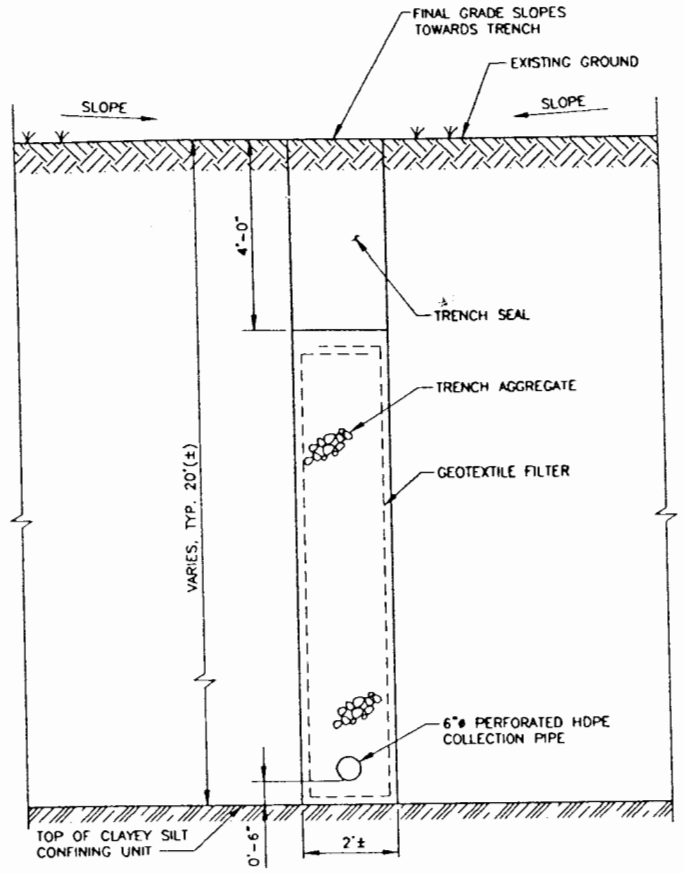
JOB No. 35618.03

NORTHEAST ALLOYS AND METALS SITE
CITY OF UTICA
ONEIDA COUNTY, NEW YORK
SITE NO. 6-33-045
CONTRACT NO: D-004178

Prepared for:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK

MISCELLANEOUS DETAILS
SHEET 1 OF 3

Scale: AS NOTED | Date: OCTOBER 2001 | DWG. 5

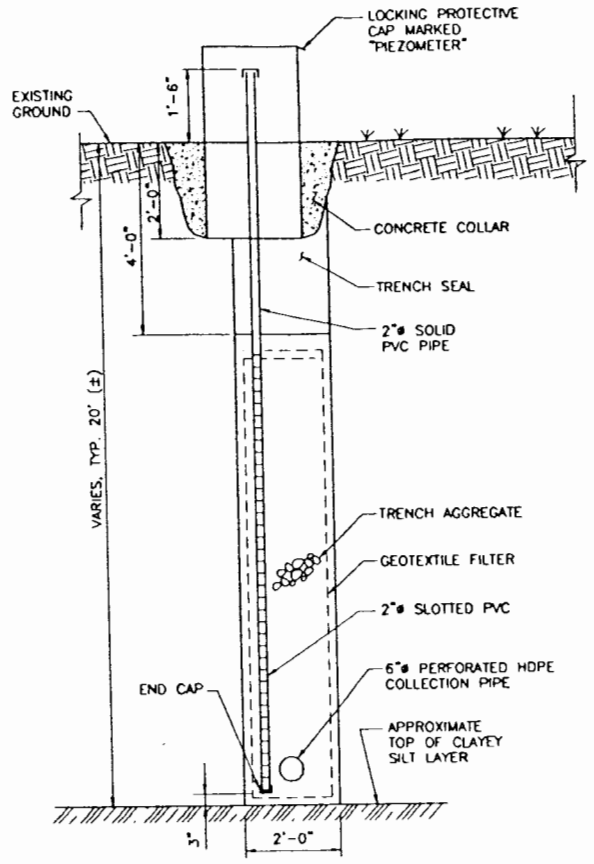


NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHOWN FOR THE BOTTOM OF THE TRENCH ARE ESTIMATED. ACTUAL CONDITIONS MAY VARY SIGNIFICANTLY FROM THOSE SHOWN.

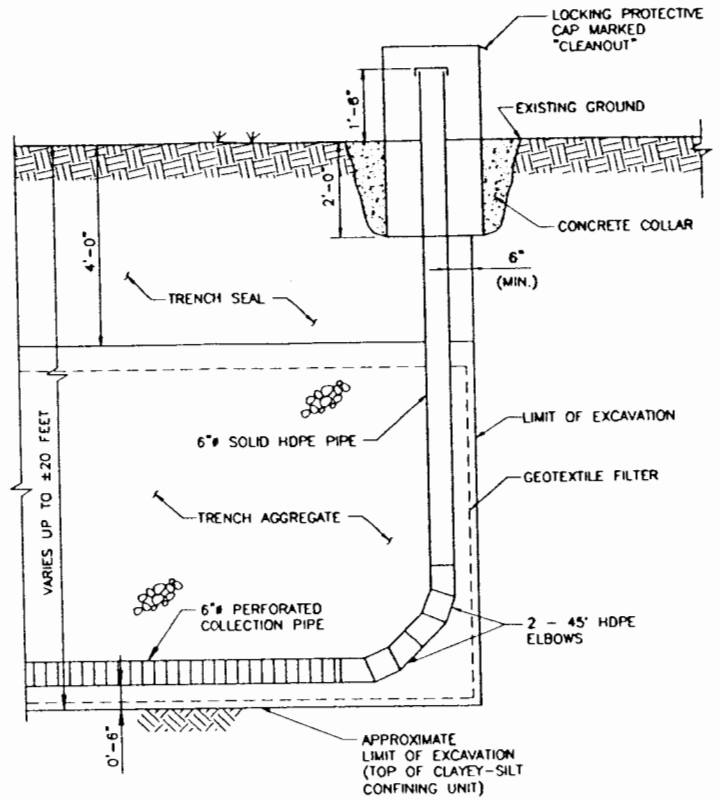
TYPICAL TRENCH CROSS-SECTION DETAIL [2 / 3 6]

NOT TO SCALE



TYPICAL PIEZOMETER DETAIL [4 / 3 6]

NOT TO SCALE



TYPICAL TRENCH CLEANOUT DETAIL [3 / 3 6]

NOT TO SCALE

NOTICE: IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON (OTHER THAN THE ENGINEER WHOSE SEAL APPEARS ON THIS DRAWING) TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ENGINEER SHALL AFFIX TO THE ALTERED ITEM HIS SEAL AND THE NOTATION "ALTERED" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10/01	RECORD DRAWING			

REVISIONS

DESIGNED BY: DMc
DRAWN BY: ELB
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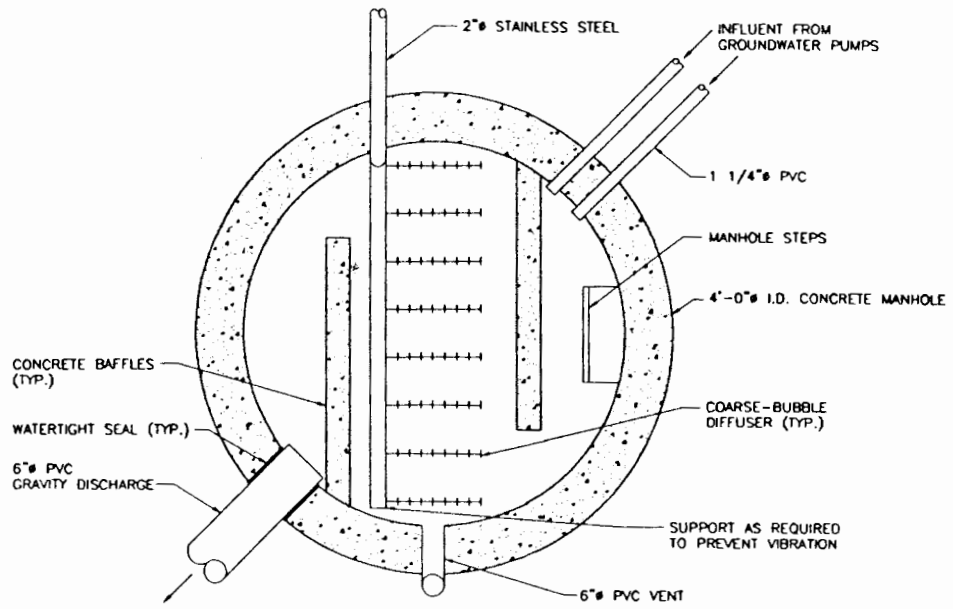
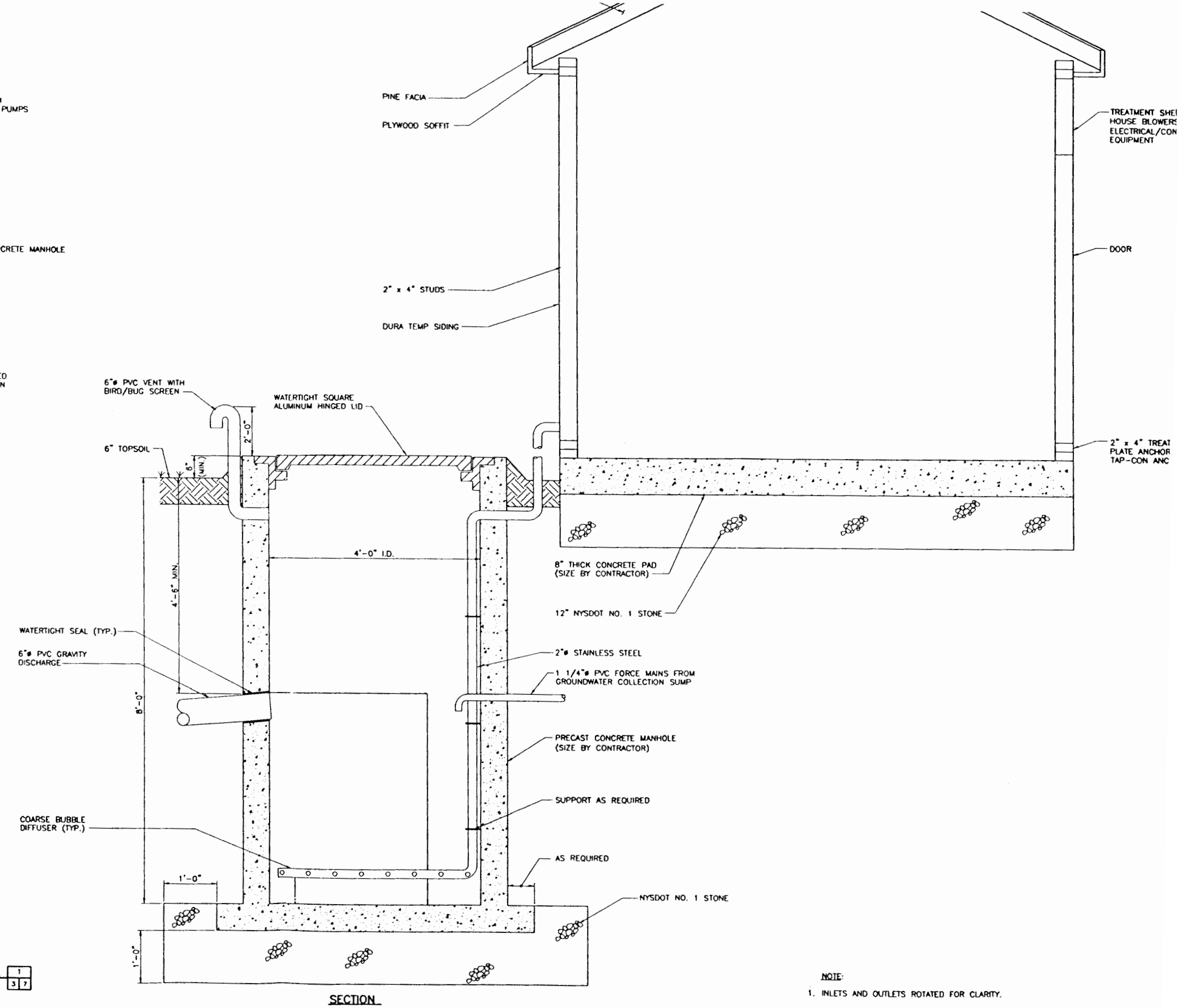
MISCELLANEOUS, DETAILS
SHEET 2 OF 3

Scale: AS NOTED | Date: OCTOBER 2001 | DWG. 6



PLAN



SECTION

GROUNDWATER TREATMENT MANHOLE DETAIL 1 3 7

NOT TO SCALE

NOTE:

1. INLETS AND OUTLETS ROTATED FOR CLARITY.

J:\35618.03\CAD\DRAFTFINAL\FINAL\RECORD\DC-7055C.DWG 1=12 10/11/01-1 BJG

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10/01	RECORD DRAWING			

REVISIONS

DESIGNED BY: DMc
DRAWN BY: ELB
CHECKED BY: DWR
PROJ. ENGR. DMc

URS Greiner Woodward Clyde
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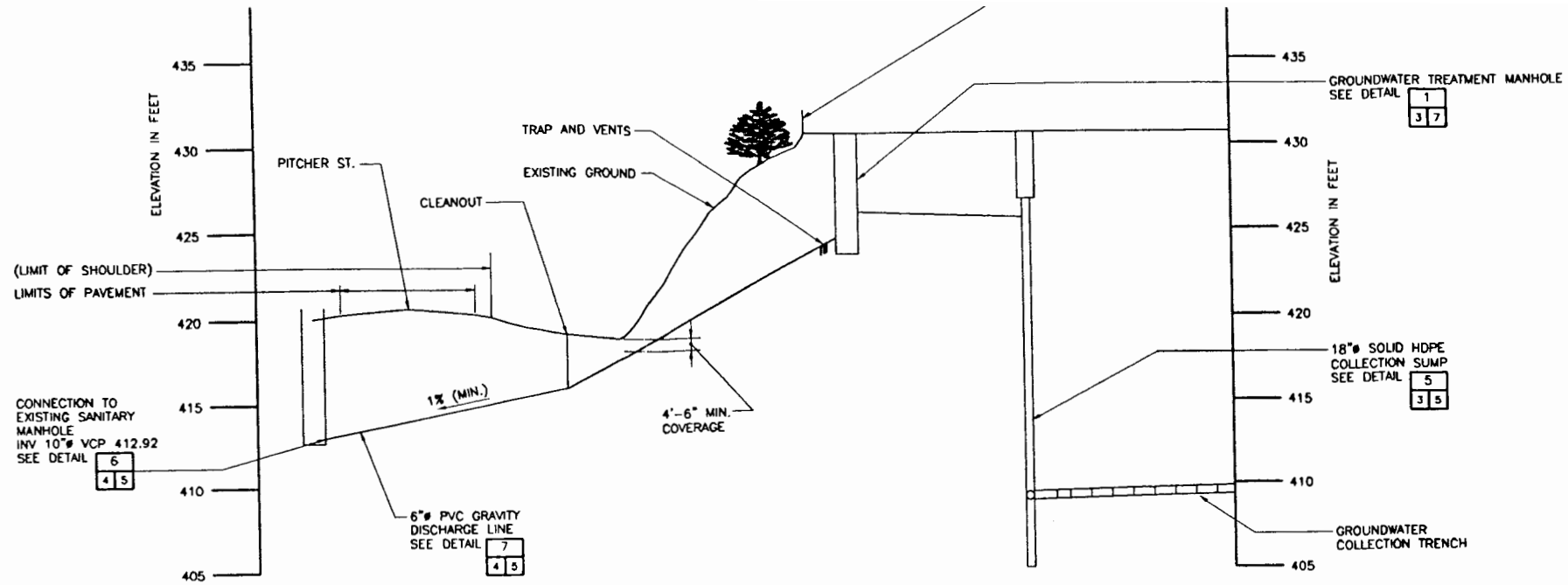
ALBANY, NEW YORK

MISCELLANEOUS DETAI
SHEET 3 OF 3

Scale: AS NOTED | Date: OCTOBER 2001 | DWG.



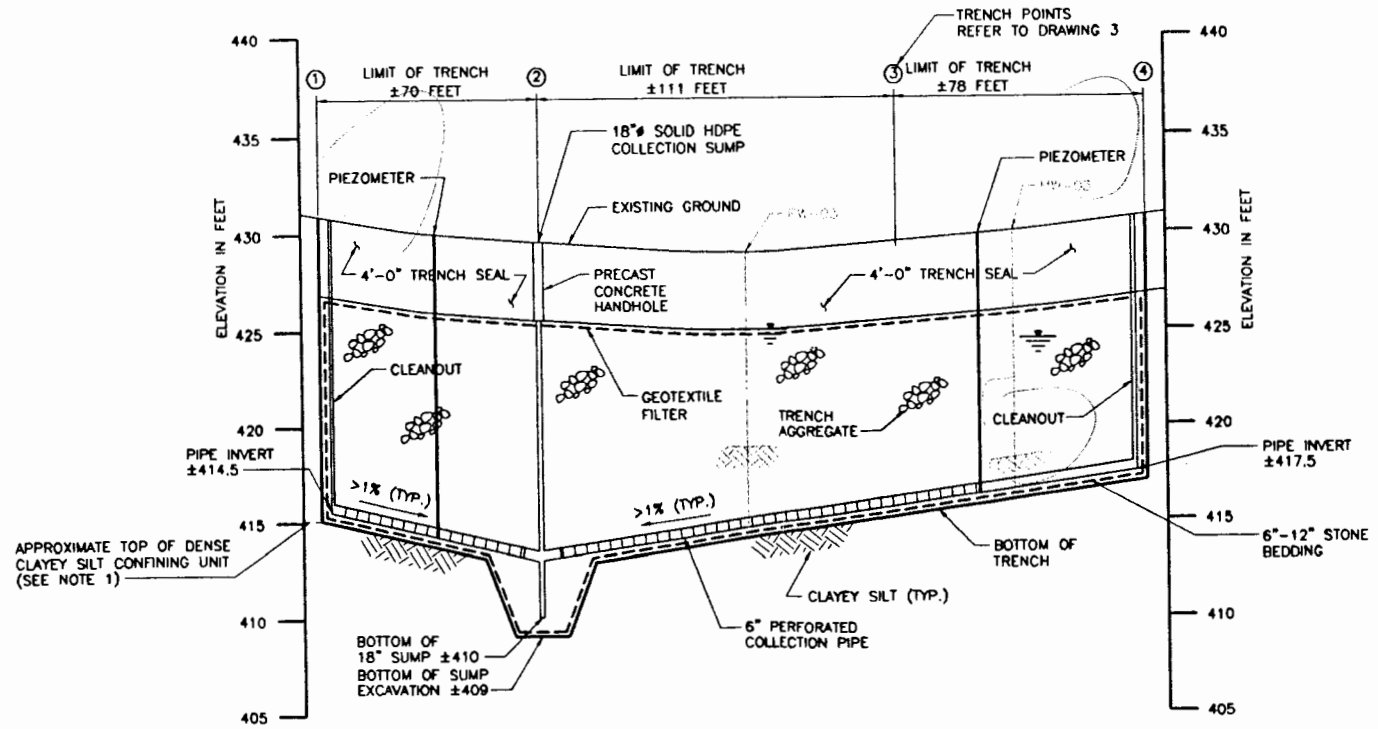
NOTES:

1. EXISTING MANHOLE ELEVATION NOT SURVEYED.

GRAVITY DISCHARGE LINE ELEVATION DETAIL 8 3 4

5' 0 5' VERTICAL SCALE: 1"= 5'

15' 0 15' HORIZONTAL SCALE: 1"= 15'



LEGEND

GROUNDWATER LEVEL

CLAYEY SILT

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS SHOWN FOR THE BOTTOM OF THE TRENCH ARE ESTIMATED. ACTUAL CONDITIONS MAY VARY SIGNIFICANTLY FROM THOSE SHOWN.
2. INFORMATION FROM EXISTING BORINGS SHOWN HALF TONE AND PROJECTED ONTO TRENCH.

COLLECTION SUMP TRENCH SECTION A 3 4

5' 0 5' VERTICAL SCALE: 1"= 5'

30' 0 30' HORIZONTAL SCALE: 1"= 30'

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10/01	RECORD DRAWING			

REVISIONS

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CROSS-SECTIONS

Scale: AS NOTED | Date: OCTOBER 2001 | DWG. 4