LIMITED SITE DATA

34 Freeman's Bridge Road Site

Town of Glenville, Schenectady County, New York

SITE NO. 4-47-028

April 2006

These documents that follow are **NOT** part of the Contract Documents for the remedial work at the 34 Freeman's Bridge Road Site . The Department neither represents that the Site conditions will be the same as in the attached document nor considers the attached documents as being comprehensive and an actual description of the site conditions. The Contractor shall be responsible for performing the remediation work based on the existing conditions at the Site.

LIMITED SITE DATA
ATTACHMENT A
TEST PIT LOGS

EarthTech

TEST PIT LOG

Test Pit No.: TP-36

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/8/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/8/2005	9:17	42"	TYPE				
4/8/2005	11:45	34"	I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
		0.0	0.0-0.5' Moist to wet, brown, top soil, fill material, clay & silt (-)
1			0.5-1.0' Moist, brown, clay(-) & silt, coarse medium(+) fine sand, little gravel, C&D fill(<1%), bricks, wood, stone cobbles
		0.0	1.0-1.5' Moist, brown, clay & silt(+), little gravel,shale,little cobble, concrete slab
2	TP-36 (2-3)	15.0	1.5-3.5' grey to black, clay & silt, little gravel, shale(75%), odor, C&D materials(~15%): rebar, pipes, drum gaskets, hydraulic pump, plastic with black residue,rail ties, glass, resin ,metal ribbon, barrel tops
		132	
3	TP-36-3-4	130	
4			
5			
6			
7			
8			
9			
10			

EarthTech

TEST PIT LOG

Test Pit No.: TP-37

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/8/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/8/2005	11:21	29"	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
		0.0 0.3	0.0-1.0' Fill Materials: Gravel, cobbles, rip rap
1			1.0-2.0' Moist to damp, brown, clay & silt(+), coarse to fine sand, some gravel, trash, C&D materials, brick
2	TP-37 (2-3)	0.1	2.0-2.5' Damp to wet, black, clay & silt(+), coarse(+) to fine sand, litle gravel, C&D materials (<1%), tubing Ground water 29" below grade
3			
4			
5			
6			
7			
8			
9			
10			

EarthTech

TEST PIT LOG

Test Pit No.: TP-38

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/7/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/7/2005		36"	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
			0.0-1.0' Moist, brown, clay & silt(+), few pebbles, topsoil
1	TP-38 (1-2A)		1.0-1.5' Moist, brown, clay & silt(+), medium(+) fine sand, gravel (TP-38 (1-2A))
	TP-38 (1-2B)		1.5-2.0' Moist, black, clay & silt(+), medium to fine sand, gravel, (TP-38 (1-2B))
2	TP-38 (2-3)		2.0-3.0' Loose, moist to damp, black, wood fragments, coarse to medium(+) sand, C&D materials: bricks, concrete blocks, metal pipes
3			3.0- Loose, damp to saturated, black, wood fragments, railroad ties, asphalt, strong odor Water Table observed 3' below grade
4			
5			
6			
7			
8			
9			
10			

EarthTech

TEST PIT LOG

Test Pit No.: TP-39

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/7/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/7/2005		3.5'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
		0.1	0.0-1.5' Loose, moist, brown, clay & silt, little(-) gravel, cobbles, topsoil	
1				
			1.5-3.0' Brown to light brown, clay & silt, little(-) gravel, C&D material: large concrete blocks	
2	TP-39 (2-3)	0.1		
		0.1		
3	TP-39 (3-4)	0.1	3.0-3.5' Moist, black, clay & silt(+), medium (+) fine sand	Apparent Septic Field or natural swamp sediment.
		0.1	3.5'- Black, Clay & Silt(+), medium(+) fine sand; Water Table observed	little foul odor.
4				Water bubbled up after encountering black interval.
5				
6				
7				
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-40

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/7/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/7/2005		48"	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
		0.0	Moist to damp, brown, siltey clay, medium to fine(+) sand, little gravel, top soil, C&D fill: bricks, concrete	
1	TP-40 (1-2)	0.0	Brown, clay & silt(+), medium(+) to fine sand, little gravel, C&D fill: brick, solid tar or asphalt material with observed concoidal fractures	
		0.0		
2		0.0		
3	TP-40 (3-4)	0.0	Black, clay & silt(+), medium(+) to fine sand, little gravel, C&D material: bricks, concrete	Organic Odor observed
4		0.0	Ground Water table observed at 48"	
5				
6				
7				
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-41

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/6/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/6/2005		5'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
	TP-41(1-2)	0.5	Loose, Moist, light brown, little medium to fine gravel, trace(-) cobbles	
		0.3		
1				
2				
3				
4	TP-41 (4-5)	0.1		
5			Ground Water observed	
6				
7				
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-42

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/6/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
	Equipment: John Deere 410D N/A		

WATER LEVELS							
DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/6/2005		7'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
		0.0	0' Loose, Moist, non-plastic, tani/brown, clayey silt, and(+) coarse to fine sand, little(-) medium fine gravel, trace cobbles
1			
2			
3	TP-42 (2-3)	0.0	2.5' Loose, moist, tan/brown, clayey silt, coarse to fine sand, little(-) gravel, C&D material: brick , foundation stone, wood, conduit, septic pipe
4			
5			
6		0.0	5.5' 2 large concrete blocks observed
7	TP-42 (7)		Water Table Observed @ 7.0ft
8			
9			
10			

EarthTech

TEST PIT LOG

Test Pit No.: TP-43

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/5/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/5/2005		68"	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
		0.0	0.0-1.5' Loose, moist, topsoil and roots	Metal scraps up to 2' long; 2' long cinder blocks; abundant boulders exceeding 10' long, glass shreds
		0.0		
1		0.0		
	TP-43 (1-2)	0.0	1.5-4.5' Loose, moist, red brown, coarse to fine sand, abundant pebbles, abundant C&D material (50-70%): wood fragments, metal scraps, bricks, cinder blocks, concrete	
2		0.0		
		0.0		Pit Dimensions: 2'W x 15'L x 5.6' D
3		0.0		
		0.0		
4		0.0		
		0.0		
5	TP-43 (6.0) TP-43 (5-6)	0.0	5.0-5.5' Loose, moist to damp, brown/dark brown, C&D fill	
		0.0	68" Water table observed	
6				
7				
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-44

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/5/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/5/2005		64"	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
			0.0-1.0' Loose, moist, topsoil and roots	
1	TP-44 (1-2)	0.0	1.0-3.0' Loose, moist, reddish brown to brown, coarse to fine sand, C&D fill materials (50-60%): bricks, metal scraps	C&D fill in both the horizons equal 50-70% fill
		0.0		
2	TP-44 (2-3)	0.0		
3	TP-44 (3-4)	0.0	3.0-5.3' Loose, moist, dark brown/gray/greyish brown, coarse to fine sand, abundant pebbles, C&D fill materials, large boulders, metal scraps	
4				Pit Dimensions: 4' W x 15'L x 64"D
5				
	TP-44 (5-6)	0.0	64" Water Table observed	
6			No sheen or apparent impacts observed	
7				
8				
9				
10				

EarthTech
A Tyco International Ltd. Company

TEST PIT LOG

Test Pit No.: TP-45

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/5/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/5/2005	4:10pm	6'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
		0.0	0.0-1.0' Loose, moist, topsoil & roots	
1	TP-45 (1-2)	0.0	1.0-2.0' Loose, moist, greenish gray, coarse to fine sand, abundant pebbles, C&D materials, Asphalt pieces exceeding 3.5' in width	Large chunks of asphalt observed 1ft below grade. Appeared to have been dumped in while still hot. Sizes up to 3.5' wide
		0.0		
2			2.0-6.0' Loose, moist, brownish gray to green gray, abundant pebbles, cobbles, C&D fill materials, asphalt	
	TP-45 (2-3)	0.3		
3				
4				Pit Dimensions: 4'W x 15'L x 6'D
5				
6	TP-45 (5-6)		6' Water table observed, no sheen observed	
7				
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-46

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE 1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE: 4/6/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST: T. Heath
WATER LEVELS	Equipment: John Deere 410D N/A	

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/6/2005	8:10am	7.5'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
			0.0-1.0' Loose, moist, topsoil	
1		0.0	1.0-2.0' Loose, moist, clayey silt, coarse to fine sand, clean fill	
2			2.0-7.5' Loose, moist, brown, clayey silt, coarse to find sand, medium to fine gravel, C&D material: 35% fill: brick, metal, plastic bags, asphalt, wood	
3	TP-46 (3-4)			
4				
5				
6				
7				
	TP-46 (7.5)	3.2	7.5' Water table observed and steady, End Test Pit	
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-47

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/6/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	T. Heath
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/6/2005	10:30am	6.5'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
0			0.0-1.5' Loose, moist, brown, coarse medium(+) fine sand, little clayey silt	
1				
2			1.5-2.5' Loose, moist, coarse medium(+) fine sand, little clayey silt, trace gravel, C&D trace(+) 5%, larger than 6" concrete	
3	TP-47 (2-3)	0.0	2.5-6.5' Loose, moist, brown, clayey silt, some coarse medium(+) fine sand, trace(-) coarse gravel, C&D: wood, metal, asphalt, 15% >6", metal barrel, conduit, ash, slag, brick	
4		0.0		
5		0.0		
6	TP-47 (6.5)	0.2		
7			6.5' Water table observed	
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-48

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/6/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	Equipment: John Deere 410D N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/6/2005	2:48pm	7'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
			0.0-1.5' Loose, brown, silt & clay, little(-) gravel, topsoil	
1				
		1.8		
			1.5-4.0' Loose, moist, brown, silt & clay, little(-) gravel, C&D material: asphalt blocks (1'-6'), brick	
2	TP-48 (2-3)			
		0.3		
3				
		0.1		
4			4.0-6.0' Loose, moist, brown, clay & silt, little(+) coarse to medium gravel	
		0.1		
5	TP-48 (5-6)			
6	TP-48 (6-7)	0.1	6.0-7.0' Loose, moist, brown, nonplastic, medium to fine(-) sand, little(+) clayey silt, trace(-) medium to fine gravel	
		0.4		
7			7' Water Table observed	
8				
9				
10				

EarthTech

TEST PIT LOG

Test Pit No.: TP-49

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Hickory Hill Construction	PAGE	1 of 1
PROJECT No. 83060	Excavator: Luther Keyes	DATE:	4/7/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
	Equipment: John Deere 410D N/A		

WATER LEVELS							
DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
4/7/2005	14:30	5'	TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Number	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES	REMARKS
		0.0	0-1' Loose, Moist, brown, clay and silt(+), little gravel, pebbles, topsoil, C&D fil, concrete blocks	
1	TP-49 (1-2)	0.0	1-2' Moist to wet, brown, silty clay, C&D material, brick, concrete slabs	
2	TP-49 (2-3)	0.0	2-3' Moist, light brown, clay and silt(+), medium fine(+) sand, little gravel, C&D materials, concrete, brick, wood	
3		0.0	3-4' Moist, greenish gray, clay and silt(+), medium(+) fine sand, little gravel, rust	
4	TP-49 (4-5)	0.0	4-5' Moist, black, clay and silt(+), coarse medium(+) fine sand, C&D fill materials, brick wood	
5		0.0	Water Table observed. End Test Pit	
6				
7				
8				
9				
10				

LIMITED SITE DATA
ATTACHMENT B
SOIL BORING LOGS

EarthTech

SOIL BORING LOG

Boring No.: SB-1

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/14/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 1.2'	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	103			4.8	0.0-0.7' Loose, dry, light gray/tan, possible crushed concrete, silt
	92			8.9	0.7-0.8' Loose, dry, gray, coarse to medium gravel
1	65			0.2	0.8-1.6' Stiff, wet,red-brown, coarse to fine sand, trace (-) silt & clay (saturated @1.4-1.6')
	62		2.8/4.0	0.8	1.6-2.1' Stiff, saturated, brown, coarse to fine sand, trace(-) silt & clay
2	60			0.6	2.1-2.8' Stiff, saturated, black, coarse to fine sand, trace(-) silt & clay
	53				
3					
4	67			0.3	4.0-4.3' Stiff, moist, brown/light brown, coarse to fine sand, trace silt & clay
	66			15.6	4.3-5.2' Very soft, saturated, dark brown/black, coarse to fine sand, trace silt & clay
5	65			0.4	5.2-6.0' Soft, saturated, brown, coarse to fine sand, trace silt & clay, odor observed
	65		3.7/4.0	0.2	6.0-6.9' Very soft, wet, black/dark gray, clay, odor observed
6	65			1.5	6.9-7.7' Stiff, wet, black/dark gray, clayey silt, trace(-) medium fine
	64			9.4	
7	63			2.8	
	61			3	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-2

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/14/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	70			94.0	0.0-0.2' Loose, dry, concrete slab floor, coarse to fine gravel subase
1	64			118	0.2-0.9' Loose, dry, black/dark gray, fill material, asphalt, coarse to fine gravel, trace(-) fine sand
	62			6.9	0.9-2.0' Dry, loose, light gray, coarse to fine gravel, trace(-) fine sand
2	62		2.5/4.0	3.1	2.0-2.5' Loose, moist, black, coarse to fine gravel, little silt & clay
	61			5.4	
3	60				
4	72			100	4.0-4.3' Loose, dry, coarse to fine gravel, trace(-) fine sand, trace(-) silty clay, fill material
	74			12.1	4.3-6.3 Stiff, moist, greenish brown/gray, mottled, clayey silt, odor observed
5	72			35.7	
	70		2.3/4.0	15.4	
6	66			50.0	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-3

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/14/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 1.2 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	89			0.3	0.0-1.0' Dry, concret slab floor and subase, coarse to fine gravel, coarse to fine sand
1	139			3.6	1.0-1.2' Soft, damp, red brown, coarse to fine sand, strong odor observed (possible contamination)
	76			5.8	1.2-1.7' Soft, wet, light brown, coarse to fine sand
2	58		1.7/4.0	0.1	
	55			0.3	
3					
4	80			46.0	4.0-5.2' Soft, wet, brown, coarse to fine sand, trace(-) coarse to fine gravel
	79			0.7	5.2-5.4' Soft, wet, black, coarse to fine sand
5	79			0.8	5.4-7.9' Stiff, wet, dark gray/black, clay
	80		3.0/4.0	48.9	7.9-8.0' Stiff, wet, dark gray/black, clayey silt, trace(-) fine sand
6	76			59.3	
	66			4.0	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-4

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/14/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 2.5 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	53			0.0	0-0.4' Concrete Slab Floor
	51			0.1	0.4-0.8' Soft, damp, brown, medium to fine sand, little clay & silt
1	51			0.1	0.8-1.4' Stiff, damp, brown, medium to fine sand, little(-) clay & silt, trace(-) coarse to fine gravel
	52			0.6	1.4-2.6' Loose, coarse to fine gravel, little coarse to fine sand, trace clay & silt, fill material
2	52		2.7/4.0	1.2	
				1.7	2.6-2.7' Wet, black, coarse fine sand, little medium to fine gravel, strong odor observed
3					
				0.1	
4	51			2.3	4.0-4.6' Loose, wet, black, coarse to fine gravel, coarse to fine sand, , fill material, strong odor observed
	48			0.1	4.6-5.4' Soft-Stiff, wet, dark gray/black, coarse to fine sand
5	48			0.3	
	47		2.4/4.0	1.0	5.4-6.3' Stiff, wet, dark gray, siltey clay, slight odor observed
6	47			1.1	6.3-6.4' Soft, wet, dark gray, medium to fine sand, little clay & silt
	49			0.0	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-5

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/14/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 1.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	48			0.7	0.0-0.2' Dry, concrete slab floor and subase 0.2-0.4' Stiff, wet, brown, coarse to fine sand, little medium to fine gravel
	33			0.5	0.4-0.7' Soft, wet, brown, silty clay, little medium to fine gravel
1	34			0.6	0.7-1.0' Wet, black, coarse gravel, some medium to fine sand, trace(-) silt & clay, odor observed, discolored
	43		1.5/4.0	0.5	1.0-1.5' Stiff, wet, dark brown, clayey silt, little medium fine gravel
2					
3					
4	55			0.3	4.0-4.3' Soft, wet, dark brown, coarse(+) to fine sand, trace(-) silt & clay
					4.3-5.2' Loose, wet, black, coarse to fine gravel, fill material and/or asphalt, odor observed, sheen observed
5	53			4.5	
	55			44.6	5.2-6.4' Stiff, wet, dark brown/black, clay, odor observed
	51		2.7/4.0	18.5	6.4-6.7' Stiff, wet, red brown, organic material, apparent peat layer
6	56			4.9	
	51			3.7	
7	53				
8	47			47.0	8.0-9.0' Apparent collapse material. Upper 0.2' coarse to fine sand, little clay
	47			15.3	Lower 0.75' Loose, wet, black, coarse to fine gravel, strong odor observed, sheen observed
9					
			1.0/4.0		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-6

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/14/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 1.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	42			6.6	0.0-0.2' Concrete Slab Floor
	40			2.2	0.2-0.4' Soft, wet, brown, coarse to fine sand, little medium to fine gravel
1	41			1.0	0.4-0.6' Wet, dark brown, silt & clay, some medium to fine sand, little medium to fine gravel
			1.3/4.0		0.6-0.8' Loose, wet, red brown/black, coarse to fine sand, some medium to fine gravel, odor observed
2					0.8-1.0' Soft, wet, dark brown, silty clay, some medium to fine gravel, odor observed
3					1.0-1.3' Wet, black/dark gray, silt & clay, some medium to fine gravel, odor observed
4					
				0.3	4.0-4.9' Very soft, saturated, dark brown/dark gray, clayey silt, little coarse to fine gravel
	46			0.3	
5	45			0.3	4.9-5.3' Stiff, saturated, black/green brown, mottled, clayey silt, little(-) medium to fine gravel
	49			0.3	5.3-6.5' Stiff, wet, dark brown, clay, slight odor observed
6	47		3.5/4.0	0.4	6.5-6.7' Stiff, saturated, red brown, organic material, apparent peat layer, slight odor observed
7	44			0.4	6.7-7.5' Soft, wet, dark brown/gray, clayey silt, trace(-) fine sand, odor observed
	47			0.4	
	47			0.4	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech
A Tetra Tech International Inc. Company

SOIL BORING LOG

Boring No.: SB-7

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST.	L. Benedict
WATER LEVELS 2.7 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	70		3.2/4.0	0.0 0.0	0.0-0.3' Loose, coarse to fine sand, little coarse to fine gravel, fill 0.3-0.7' Moist, brown, clayey silt, trace(-) medium to fine gravel, odor observed
2	73 72			45.2 17.8	0.7-1.1' Coarse to fine gravel, fill material 1.1-1.7' Moist, green brown, silt, little medium to fine gravel, odor observed
3	71 75 72			24.1 24.8	1.7-3.2' Moist to wet, black, coarse to fine sand, coarse to fine gravel, fill material, strong odor observed
4					
5	62		2.0/4.0	2.6 5.1	4.0-4.4' Wet, black, coarse to fine gravel, fill material 4.4-6.0' Wet, black/dark gray, mottled, clayey silt, apparent free product observed, black tar-like substance, strong odor observed
6	59 59 59			35.1 3.6 3.1	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-8

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 3.1 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	72		3.6/4.0	0.0 0.0	0.0-1.0' Loose, moist, brown, clayey silt, coarse to fine gravel, fill material
	68			0.0	1.0-1.7' Loose, moist, yellow brown, clayey silt, coarse to fine gravel, fill material
2	67			0.7	
	66			3.5	1.7-3.3' Moist, black, coarse to fine sand, coarse to fine gravel, little silt & clay, odor observed, C&D fill, brick, glass, resin wax
3	64			55.6	
	60			12.8	3.1-3.6' Same as above, Wet
4	55			3.2	
	58		1.7/4.0	67	4.0-5.7' Wet, black, coarse to fine sand, coarse to fine gravel, C&D fill, resin wax, glass, brick, strong odor observed
5	54			62.4	
	51			44.0	
6	51			40.0	
7					
8	55		3.1/4.0	5.0	8.0-8.5' Wet, black, coarse to fine sand, coarse to fine gravel, C&D fill, brick, glass, odor observed
	54			4.1	8.5-9.0' Very soft, wet, black, clay
9	52			0.0	9.0-10.1' Wet, dark brown to yellow brown, trace(-) silty clay, Weed layer/organic, strong odor observed
	53			0.0	
10	55			0.0	10.1-11.1' Very soft, moist, black, clayey silt, odor observed
	55			0.0	
11	55			0.0	
	55			0.0	
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-9

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 48 in	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	70		3.6/4.0	4.2	0.0-0.1' Loose, moist, gray brown, coarse to fine sand, and coarse to fine gravel, fill material
	65			22.4	
2	66			16.8	1.0-2.0' Loose, moist, brown, coarse to fine sand, little(-) silty clay, trace(+) medium to fine gravel
	67			15.8	
3	66			12.6	2.0-3.4' Loose, moist, coarse to fine gravel, some silty clay, trace(-) fine sand, C&D fill, brick, glass, odor observed
	66			12.1	
4	63			10.9	3.4-3.6' Soft, wet, coarse to fine sand, little coarse to fine gravel, C&D filol, glass, brick, slight odor observed
	62		2.2/4.0	17.2	4.0-5.0' Soft, wet, black/dark gray, coarse to fine sand, some coarse to fine gravel, C&D fill, glass, brick, odor observed
5	59			7.4	
	58			16.4	5.0-6.0' Soft, damp, black, clayey silt, trace fine gravel, odor observed
6	58			23.0	6.0-6.2' Soft, damp to wet, black, clayey silt, trace fine sand
	57			6.4	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech
A Tyco International Ltd. Company

SOIL BORING LOG

Boring No.: SB-10

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	T. Heath
WATER LEVELS 4.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	54			0.0	0.0-0.9' Soft, moist, light brown, medium to fine sand, little(-) medium to fine gravel
1	54			0.0	
	54			7.9	0.9-2.4' Soft, moist, dark brown, coarse to fine sand, little(-) coarse to fine gravel (fill material)
	54		2.8/4.0	44.6	
2	54			33.8	2.4-2.8' Soft, wet, dark brown, coarse to fine sand, coarse to fine gravel, strong odor observed
3					
4	54			4.7	Wet, fill material, strong odor observed
5					
6			1.1/4.0		
7					
8	52			3.2	8.0-9.7' Soft, wet, dark brown, clay & silt, little(-) fine sand, strong odor observed
	51			4.1	9.7-11.9' Soft, wet, dark brown, coarse to fine sand, roots
9	50			5.1	
	49		3.9/4.0	12.5	
10	48			4.6	
	48			1.1	
11	48			6.6	
	47			7.4	
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-11

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION. NA	ET GEOLOGIST:	T. Heath
WATER LEVELS 3.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	62		3.5/4.0	0.9	0.0-3.3' Stiff, moist, light brown, coarse to fine sand, little(+) silt, little(-)
	60			7.1	medium to fine gravel, fill material (glass, brick, asphalt)
2	60			7.0	3.3-3.5' Loose, wet, brown, coarse to fine sand
	59			8.3	
3	57			5.4	
	55			0.3	
4	55			6.5	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-12

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	T. Heath
WATER LEVELS 2.4 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	54			0.0	0.0-1.6' Loose, moist, brown, coarse to fine sand, some(-) coarse to fine gravel (fill material)
	54			0.0	
1	54			9.8	1.6-2.0' Stiff, moist, brown, medium to fine sand, and(-) clay & silt, mottled
	54		3.0/4.0	11.7	2.0-2.4' Stiff, moist, brown/black, coarse to fine sand, some(+) clay & silt, little(-) medium to fine gravel
2	55			0.0	
	56			3.6	2.4-3.0' Loose, wet, brown, coarse to fine sand
3	55				
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech
A Tyco International Ltd. Company

SOIL BORING LOG

Boring No.: SB-13

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	T. Heath
WATER LEVELS	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	54		2.9/4.0	0.0	0.0-2.7' Moist, brown-dark brown, medium fine sand, some(-) gravel, little(-) silt, Fill Material (asphalt, brick)
	54			0.0	
	54			0.0	2.7-2.9' Moist, light brown, silt, fine gravel
2	53			0.0	
	50			0.0	
3					
4					
	50		3.2/4.0	0.0	4.0-5.6' Stiff, Moist, brown-black, medium to fine sand, some(-) clayey silt, Fill material (brick), strong odor (4.6-5.0')
5	49			77.1	
	48			167	5.6-6.8' Stiff, Moist, dark brown, clay & silt, mottled
	47			16.8	6.8-7.2' Stiff, Moist, light brown, medium to fine sand, some(-) silt
6	46				
	44				
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-14

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/13/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	T. Heath
WATER LEVELS	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	45		3.5/4.0	0.1	0.0-0.5' Stiff, moist, light brown, fine sand, some(-) silt, trace(-) gravel, roots
	48			0.0	
2	49			0.1	0.5-3.5' Moist, brown-dark brown, fine sand, some(-) coarse to fine gravel, little(-) silt, asphalt (0.5-0.7')
	50			0.4	
3	49			0.8	
	49			0.7	
4	41				
5	48		3.0/4.0	0.0	4.0-4.5' Loose, moist, dark brown, fine sand, some(-) gravel, little(-) silt, strong odor
	50			0.0	
6	48			0.0	4.5-6.8' Moist, brown-dark gray, clayey silt, mottled
	47			0.0	6.8-7.0' Soft, moist, dark brown, fine sand, silt
7	44			0.0	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-15

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/12/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 3.1 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
				0.0	0.0-0.5' Topsoil
1	52			0.0	0.5-1.7' Loose, moist, brown, silt & clay, trace fine gravel
	51			0.0	1.7-2.1' Stiff, moist to damp, brown, silty clay, little medium to fine sand,
2	53		3.1/4.0	0.0	trace fine gravel
	52			0.0	2.1-2.8' Loose, moist, brown, mottled, silt and clay(-)
3	53			0.0	2.8-3.1' C&D fill, brick
	50			0.0	
4					
	56			0.0	4.0-4.9' C&D fill, brick
5	52			0.0	4.9-5.9' Saturated, C&D fill, clay & silt, medium to fine gravel, strong odor observed
	55			0.0	*Bottom 0.25 ft is black with strong odor
6	50		1.9/4.0	2.1	
	55			0.0	
7					
8					
	NA			NA	None collected
9					
10			0.0/4.0		
11					
12					
	60			0.0	8.0-12.0' Very soft, saturated, black, medium to fine(+) sand, silty clay,
13	62			0.0	slight odor observed
	63			0.0	
14	62		4.0/4.0	2.3	
	61			2.0	
15	60			0.7	
	60			0.0	
16	61			0.0	
	61			0.0	
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-16

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/12/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 9.5 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	57				0.0-0.8' Topsoil
	54			0.0	
1	55			0.0	0.8-1.2' Loose, moist, brown, clayey silt, little medium to fine gravel
	57			0.0	
2	57		3.0/4.0	0.0	1.2-2.4' Loose, moist, brown, clayey silt, some medium to fine gravel
	57			0.0	2.4-2.9' Moist, gray black/green brown, clayey silt, trace medium to fine
3	61			1.9	gravel
	58			0.0	2.9-3.0' Concrete
4				0.0	4.0-4.7' Stiff, moist, black, mottled, silt and clay(-), trace fine gravel, odor
	60			72.8	4.7-5.0' Concrete
5	58			2.3	5.0-5.8' Stiff, moist, black, silty clay(-), trace(-) fine gravel
	59		3.5/4.0	0.2	5.8-7.2' Soft, moist, red brown, clayey silt
6	58			0.0	7.2-7.4' Stiff, moist, brown green, mottled, silt & clay, trace(-) fine gravel
	60			0.0	7.4-7.9' Very soft, saturated, black, fine sand, little clayey silt, odor
7	61			0.0	observed
	62			0.0	
8	55			0.0	8.0-8.7' Fill, medium to fine gravel, trace medium to fine sand, silt and
	50			0.0	8.7-9.5' Stiff, moist, brown gray, silt and clay(-) mottled, odor
9	53			0.0	
					9.5-9.6' Very soft, wet, black/gray, medium to fine sand, trace silt and clay
10			1.6/4.0		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-17

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/12/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 9.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	61		1.7/4.0	0.4	0.0-0.7' Topsoil
	62			0.0	0.7-1.5' Wet, fill material and asphalt
2	62			0.0	1.5-1.7' Very soft, wet, black/gray brown, medium to fine sand, little silt and clay(-), trace medium to fine gravel
	56			0.0	
3	56			0.0	
4					
5	57		0.5/4.0	20.5	4.0-4.5' Stiff, moist, gray black/brown, silt and clay, weeds, strong odor observed, NAPL free product observed (red-brown, viscous)
6					
7					
8					
9	54		4.0/4.0		8.0-8.4' Stiff, wet, brown, mottled, silty clay(-)
	59			0.0	8.4-8.7' Soft, wet, black, medium to fine(+) sand, trace(-) silt and clay
10	60			0.0	8.7-9.0' Stiff, wet, black, medium to fine(+) sand, trace(-) silt and clay
	59			0.0	9.0-12.0' Very soft, wet, black, medium to fine(+) sand, trace silt & clay
11	58			3.2	
	59			3.9	
12	58			0.0	
	56			0.0	
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-18

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/12/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 8.9 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
				0.0	0.0-0.5' Top Soil
					0.5-0.8' Stiff, moist, brown, mottled, clayey silt, trace(-) fine gravel
1	50			0.0	0.8-1.1' Soft, moist to damp, gray black, coarse to fine sand, trace clay and silt(+), medium to fine gravel
	51		3.2/4.0	0.2	1.1-1.5' Stiff, moist, brown, clayey silt, some medium to fine sand, trace medium to fine gravel
2	51			0.1	1.5-2.1' Soft, moist, brown, medium to fine(+) sand, little silt
	51			0.2	2.1-2.8' Stiff, moist, green black, clayey silt, trace fine gravel
3	51			0.1	2.8-3.2' Concrete
	51				
4				0.1	4.0-4.8' Moist, gray black, some clayey silt, medium to fine gravel, trace C$D, concrete
	57			0.3	4.8-5.2' Soft, wet, black/light gray, mottled, siltey clay, medium to fine
5	54			3.6	gravel, glass, strong odor observed
	55		3.4/4.0	3.3	5.2-5.5' Soft, moist, dark brown, mottled, coarse to fine sand, little silt
6	52			2.7	and clay, medium to fine gravel
	54			5.1	5.5-5.8' Soft, moist, brown, clay, little medium to fine gravel
7	52			2.4	5.8-7.4' Stiff, moist, gray black, mottled, silt & clay, ash, odor
8					observed(unusual)
	53			1.2	8.0-8.5' Saturated, asphalt, little silt & clay
	52			0.4	8.5-8.9' Stiff, moist, gray black, mottled, silt and clay
9	52			1.8	8.9-9.1' Very soft, wet, black, medium fine sand, little silt & clay, odor
	47			0.3	9.1-9.4' Stiff, moist, gray black, mottled, silt & clay
10			1.4/4.0		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-19

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/12/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 8.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
				0.0	0.0-0.8' Soft, moist to damp, brown, mottled, organic, topsoil
1	44			0.0	
	44			0.0	0.8-1.5' Stiff, moist to damp, brown, mottled, siltey clay, little fine gravel
2	44		2.5/4.0	0.6	1.5-2.1' Asphalt
	43			0.4	
3				0.2	2.1-2.5' Stiff, moist, gray black, clayey silt, trace(-) medium to fine gravel
4					
				0.0	4.0-5.3' Stiff, moist to damp, brown/black, clayey silt, asphalt
5	51			0.4	5.3-5.9 Stiff, moist to damp, brown/black, siltey clay, trace(-) fine gravel
	51			0.6	
6	48		3.1/4.0	0.2	5.9-7.1' Asphalt
	49			0.4	
7	50			0.1	
				0.1	
8					
				0.0	8.0-8.9' Saturated, brown, clay, fine gravel, asphalt
9	46			0.0	8.9-9.5' Damp to wet, brown, mottled, silty clay, trace(-) medium to fine
	45			0.1	gravel, organic material
10	44		1.5/4.0	0.0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-20

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/12/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 8.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	42		2.2/4.0	0.0	0.0-0.9' Soft, wet, brown, organic, topsoil
	42			0.0	
	42			0.1	0.9-1.7' Stiff, damp to wet, red brown, siley clay, trace(+) fine gravel
2	44			0.0	1.7-2.2' Loose, damp to wet, brown, medium to fine sand, trace(+) clayey silt, medium to fine gravel, asphalt
3					
4					
5			3.1/4.0	0.0	4.0-4.8' Very soft, saturated, clayey silt, trace medium to fine gravel
	47			0.0	4.8-5.6' Asphalt
	50			0.0	5.6-6.9' Stiff, moist, gray brown/gray, mottled, clayey silt, medium fine gravel
6	44			0.0	
	45			0.1	6.9-7.1' Stiff, damp to wet, black/gray black, siltey clay, little medium to fine sand, trace medium to fine gravel, odor observed (unusual)
7	46			0.0	
	46			0.0	
8					
	43		3.2/4.0	0.0	8.0-9.4' Same as 6.9-7.1'
9	43			0.0	9.4-10.3' Stiff, moist to damp, black, clayey silt, little medium fine(+) sand
	43			0.0	
	43			0.0	10.3-11.2' Soft, gray black, mottled, medium to fine sand, clayey silt, petroleum sheen observed
10	43			0.0	
	43			0.0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-21

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/11/2005
SURFACE ELEVATION: NA	SITE LOCATION: NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 3.1 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
1	53		2.3/4.0	0.6	0.0-0.3' TopSoil
	50			0.0	0.3-2.3' Loose, damp, reddish brown, some medium to fine gravel, fill material and asphalt
2	50			0.0	
	50			0.0	
3					
4					
5	62		4.0/4.0	0.0	4.0-6.9' Same as above
	64.4			0.0	6.9-7.0' Wood debris
6	69.6			0.3	7.0-8.0' Stiff, damp, green gray, mottled, clay and silt
	67.6			1.0	
7	65.4			1.4	
	66.3			0.5	
8	61.3			0.5	
	62.4			0.1	
9	58.1		3.1/4.0	0.0	8.0-8.7' Stiff, moist, gray black, siltey clay, trace(-) fine sand
	50.7			0.0	8.7-9.5' Stiff, moist to damp, gray black, silty clay, trace medium(+) to fine sand
10	49.4			0.0	
	49.8			0.0	9.5-9.8' Stiff, moist to damp, black, silty clay, little(-) fine sand
11	49.2			0.0	9.8-10.2' Very soft, wet, gray black, silty clay, and medium fine (+) sand
	50			0.0	
12	51			0.0	10.2-10.7' Soft, damp, black, siltey clay, some fine sand
					10.7-11.1' Soft to stiff, gray black, mottled, clayey silt(+)
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech

SOIL BORING LOG

Boring No.: SB-22

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/11/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 8.0 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	63			0.0	0.0-0.35' Top soil
	59			0.0	0.35-0.7' Asphalt
1	59			0.0	0.7-2.2' Stiff, moist, brown, siltey clay, trace(-) fine gravel
	61			0.0	2.2-2.8' Asphalt
2	61		3.2/4.0	1.3	2.8-3.2' Stiff, moist, brown, clay, trace(-) fine gravel
	62			2.9	
3	62			0.8	
4	69			1.0	4.0-4.5' Stiff, moist, brown, siltey clay, little(+) fine sand, trace(-) fine gravel
	70			0.2	4.5-4.75' Concrete, coarse to medium gravel
5	67			1.1	4.75-5.75' Stiff, moist, gray, siltey clay, trace medium to fine sand, trace medium to fine gravel
	68			3.6	5.75-5.9' Damp, black, organic, wood debris
6	69		3.5/4.0	3.6	5.9-6.7' Stiff, moist to damp, black, siltey clay, little medium to fine gravel, wood, plastic
	69			3.2	6.7-7.15' Stiff, moist to damp, gray black, clayey silt, little(-) medium to fine gravel, glass, wood
7	71			6.4	7.15-7.5' Stiff, moist to damp, black, silty clay, C&D fill, brick
8	49			0.0	8.0-8.5' Wet to saturated, black, medium fine(+) gravel, little clay & silt
	48			0.0	8.5-9.0' Stiff, wet, black, clay & little(-) silt, trace(-) fine gravel
9	48			0.0	9.0-10.7 Stiff, wet, gray black, clayey silt(-), little(-) fine gravel
	49			0.0	
10	49		2.7/4.0	0.0	
	51			0.0	
11	51			0.0	
12					
13					
14					
15					
16					
17					
18					
19					
20					

EarthTech
A Tetra Tech Inc. Company

SOIL BORING LOG

Boring No.: SB-23

PROJECT: 34 Freeman's Bridge Road Site	CONTRACTOR: Geologic Inc.	PAGE	1 of 1
PROJECT No.: 83060	DRILLER: Judson Powell, Josh Sandberg	DATE:	4/11/2005
SURFACE ELEVATION: NA	SITE LOCATION NA	ET GEOLOGIST:	L. Benedict
WATER LEVELS 5.5 ft	BORING LOCATION: N/A		

DATE	TIME	DEPTH		CASING	SAMPLER	CORE	TUBE
			TYPE				
			I.D.				
			WT./Fall				

Depth (ft)	Sample Temperature (°F)	Blows per/6"	Recovery (feet)	PID/FID Readings (ppm)	SAMPLE DESCRIPTION, REMARKS, AND STRATUM CHANGES
	39.7			2.8	0.0-0.8' Stiff, moist, brown, clay and silt, little (+) medium to fine gravel,
1	45.9			9.5	
	51			12.7	0.8-2.4' Stiff, moist, brown to light brown, fine sand, little (-) silt, trace(-)
	50			14.1	2.2-2.8' Asphalt
2	49		3.2/4.0	14.2	2.4-3.2' Stiff, moist, light brown, silt
	48			13.5	
3	47			9.8	
4	45			11.0	4.0-4.6' Soft, moist, brown,silt and clay, trace (-) gravel, low plasticity
	47			13.4	
5	45			2.6	4.6-5.8' Soft, wet, light brown, fine sand, some (+) clayey silt, slight plasticity *Water table at 5.5'
	44			2.0	
6	44		3.0/4.0	3.4	5.8-7.0' Soft, wet, dark brown, fine sand, little (-) clayey silt, non-plastic
	44			20.6	
7	44			23.4	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

LIMITED SITE DATA
ATTACHMENT C
DEEP GEOTECHNICAL BORING LOGS

EARTH TECH	Geotechnical Boring Log	Boring No.: DB (2)

PROJECT: Freeman's Bridge PDI	PROJECT No 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 2	DATE: 4/26/05
BORING LOCATION: Northwest Corner of Gravel Paved surface	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0		10	1.0'/2.0'			0.0'-0.2' Loose, Moist, Grey/Brown, Coarse to Fine Gravel, Less Coarse to Fine Sand	Asphalt Surface and Subase Material
1		8					
		9				0.2'-0.6' Soft, Moist, Brown, Coarse to Fine Sand, Some Coarse to Fine Gravel	
2		7					
		9	0.2'/2.0'			0.6'-0.7' Loose, Moist, Black, Coarse to Fine Gravel	Asphalt
3		12				0.7'-1.0' Loose, Moist, Brown/Dark Grey, Coarse to Fine Gravel, Trace Medium to Fine Sand, Trace Silt and Clay	Fill Material
		5					
4		3				2.0'-2.2' Loose, Dry, Grey/Light Grey, Coarse to Fine Gravel	Sluff; Fill Material
		3	0.1'/2.0'			4.0'-4.1' Loose, Dry, Grey/Light Grey, Coarse Gravel	Sluff; 2 pieces of Gravel Fill Material
5		2					
		3					
6		3					
	1.25	4	2.0'/2.0'			6.0'-6.4' Medium-Stiff, Moist, Black, Clayey Silt, Trace Fine Sand, Trace Fine Gravel	6.0'-6.6' Interpreted as Sluff; Strong odor from 6.0'-6.4'
7		2					
	0.5	3				6.4'-6.6' Loose, Moist, Grey, Coarse to Fine Gravel, Coarse to Fine Sand, Trace (-) Silt and Clay	
8		3					
		1	1.8'/2.0'			6.6'-8.0' Soft, Moist, Brown/Grey Mottled, Clayey Silt	
		1				8.0'-8.2' Loose, Moist, Grey/Brown, Coarse to Fine Gravel, Trace Medium to Fine Sand, Trace Silt and Clay	Interpreted as Sluff
9	0.75@9.0'	2					
		2				8.2'-9.8' Soft, Moist, Grey/Brown Mottled, Clayey Silt	
10		1	1.2'/2.0'			10.0'-10.4' Same as Above	Interpreted as Sluff
	<0.5@10.9'	2				10.4'-10.5' Loose, Moist, Coarse to Fine Sand, Trace Coarse to Fine Gravel	
11		1					
		6				10.5'-11.2' Very Soft, Wet, Dark Grey, Clay	
12	1.0	1	1.7'/2.0'			12.0'-12.9' Stiff, Wet, Brown/Grey Mottled, Clayey Silt, Trace Fine Gravel	Interpreted as Sluff
		2					
13	<0.5	1				12.9'-13.7' Very Soft, Saturated, Dark Grey, Coarse to Fine Sand, Trace (-) Coarse and Fine Gravel	
		3					
14		2	1.9'/2.0'			14.0'-14.9' Very Soft, Saturated, Dark Brown/Grey, Coarse to Fine Sand, Trace Medium to Fine Gravel	
		14					
15		14				14.9'-15.9' Loose, Wet, Brown, Coarse to Fine Sand, Some Coarse to Fine Gravel	Drillers noted that the interval from 14.0'-18.0' bgs was "Crunchy"
		8					
16							
17							
18							
19							
20	<0.5	5	1.4'/2.0			20.0'-20.6' Very Soft, Saturated, Dark Grey, Coarse to Fine Sand, Trace Medium to Fine Gravel	
	<0.5	5					
21	<0.5	5				20.6'-21.4' Soft, Wet, Tan/Light Brown, Coarse to Fine Sand	
		5					
22							

EARTH TECH	Geotechnical Boring Log	Boring No.: DB (2)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 2 of 2	DATE: 4/26/05
BORING LOCATION: Northwest Corner of Gravel Paved surface	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2; KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
22							
23							
24							
25	<0.5	6	1.6'/2.0'			25.0'-26.6' Soft, Saturated, Black, Coarse to Fine Sand, Some Coarse to Fine Gravel	
26		12					
		17					
27		15					
28							
29							
30	<0.5	12	1.2'/2.0'			30.0'-30.7' Soft, Saturated, Brown, Coarse to Fine Sand 30.7'-31.2' Soft, Wet, Black, Coarse to Fine Sand, Some Coarse to Fine Gravel	
31		12					
		10					
32		10					
33							
34							
35		12	2.0'/2.0'			36.0'-36.2' Soft, Saturated, Brown, Coarse to Fine Sand 36.2'-38.0' Soft, Wet, Black, Coarse to Fine Sand, Less Coarse to Fine Gravel	
36		14					
		18					
37		17					
38							
39							
40		15	1.9'/2.0'			40.0'-41.9' Same as Above	
41		6					
		8					
42		10					
43							
44							

EARTH TECH	Geotechnical Boring Log	Boring No.: DB (3)
PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060 02	ET GEOLOGIST Lucas Benedict
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 1 / DATE: 4/28/05
BORING LOCATION: Approx. 300' West of building along roadway	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0	2.5	6	1.4'/2.0'			0.0'-0.7' Stiff, Moist, Brown, Coarse to Fine Sand, Some (+) Medium to Fine Gravel, Trace Clay and Silt	Some Roots
	2.0	9					
1	>4.5	9				0.7'-1.1' Stiff, Moist, Dark Brown, Clayey Silt, Less Coarse to Fine Sand, Trace Medium to Fine Gravel	
		6					
2	1.25	4	1.3'/2.0'			1.1'-1.4' Very Stiff-Hard, Red/Blue	Hard Resin or Dried Paint; Strong Odor
	1.25	3				2.0'-2.6' Medium Stiff, Moist, Dark Grey/Dark Brown, Clayey Silt, Trace Medium to Fine Gravel	
3	1.25	3					2.0'-2.6' Wood Cinders at Bottom of interval
	<0.5	3				2.6'-3.1' Medium Stiff, Moist, Dark Brown, Clayey Silt	
4	<0.5	2	2.0'/2.0'			3.1'-3.3' Very Soft, Wet, Brown, Medium to Fine Sand	
	1.25	3				4.0'-4.1' Soft, Moist to Damp, Dark Grey/Dark Brown, Clayey Silt	Interpreted as Sluff
5	<0.5	2				4.1'-4.7' Very Soft, Wet, Brown, Medium to Fine Sand	
		2				4.7'-5.2' Medium Stiff, Moist to Damp, Brown, Clayey Silt	
6	<0.5	W.O.H.	2.0'/2.0'			5.2'-5.6' Very Soft, Wet, Brown/Tan Mottled, Medium to Fine Sand, Less Clay and Silt	5.2'-5.6' Becomes Softer / Moisture Increases with Depth
		1					
7		1				6.0'-6.4' Loose, Moist, Brown/Red, Medium to Fine Sand, Some Medium to Fine Gravel, Less (+) Clay and Silt	6.0'-6.4' Interpreted as Sluff
		1					
8	2.25	W.O.H.	1.9'/2.0'			6.4'-6.5' Soft, Moist to Damp, Brown/Tan/Grey Mottled, Clayey Silt	
		W.O.H.				6.5'-7.1' Very Soft, Wet, Brown/Tan Mottled, Medium to Fine Sand, Less Clay and Silt	
9		2					
		1				7.1'-8.0' Very Soft, Wet to Saturated, Black/Dark Grey, Medium to Fine Sand, Less Clay and Silt	
10	0.5	W.O.H.	2.0'/2.0'				
		W.O.H.				8.0'-8.1' Stiff, Moist, Brown with bits of Red, Clayey Silt	Interpreted as Sluff
11		W.O.H.				8.1'-8.9' Very Soft, Wet, Brown, Medium to Fine Sand, Less Clay and Silt	
		W.O.H.					
12						8.9'-9.9' Soft, Wet to Saturated, Brown, Medium to Fine Sand, Less Clay and Silt	
13						10.0'-10.5' Soft, Moist to Damp, Brown/Grey/with bits of Red, Clayey Silt, Less Medium to Fine Sand	Interpreted as Sluff
14						10.5'-12.0' Very Soft, Wet to Saturated, Dark Brown, Medium to Fine Sand, Less Clay and Silt	
15		8	2.0'/2.0'			15.0'-15.6' Very Soft, Wet to Saturated, Dark Grey/Dark Brown, Coarse to Fine Sand, Less Medium to Fine Gravel, Trace Clay and Silt	Interpreted as Sluff
		31					Glacial Till; Interval of Cobbles from 16.7'-16.9' bgs
16		63					
		66				15.6'-17.0' Very Stiff-Hard, Dry, Dark Grey/Black, Clay and Silt	
17							
18							
19		21	2.0'/2.0'			19.0'-19.1' Loose, Moist to Wet, Dark Grey, Coarse to Fine Sand	Interpreted as Sluff
		41				19.1'-21.0' Very Stiff-Hard, Dry, Dark Grey/Black, Clay and Silt, Trace Fine Gravel	Glacial Till
20		44					
		52					
21							
22							

EARTH TECH	Geotechnical Boring Log	Boring No.: DB (3B)

PROJECT. Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 2	DATE: 4/28/05
BORING LOCATION: ~100-150' West of building along roadway	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0							
1							
2							
3							
4							
5	1.25	1	2.0'/2.0'			5.0'-5.5' Medium Stiff (1.25), Moist, Dark Brown/Black/Dark Grey, Clayey Silt, Some Coarse to Fine Gravel, Less Coarse to Fine Sand	Interpreted as Sluff
6	1.0	2				5.5'-6.0' Medium Stiff (1.0), Moist to Damp, Brown/Grey Mottled, Clayey Silt	
7	<0.5	1				6.0'-7.0' Soft (<0.5), Wet, Brown, Medium to Fine(+) Sand, Trace Clayey Silt	Pockets of Clayey Silt
8	1.25	2				8.0'-10.4' Medium Stiff (1.25), Wet, Brown, Clay and silt, Little(-) Coarse to Fine Gravel, trace(-) Coarse to Medium Sand	Interpreted as Sluff
9							
10		W	2.0'/2.0'			10.4'-12.0' Very Soft(<0.5), Wet to Saturated, Dark Brown, Medium to Fine(+) Sand, Trace Clayey Silt	Pockets of Stiff Clayey Silt
11		1					
12		1					
13		1					
14							
15		2	2.0'/2.0'			15.0'-15.9' Same as above	Interpreted as Sluff
16		2				15.9'-16.6' Same as above	
17		5				16.6'-17.0' Soft, Wet to Saturated, Dark Brown/Dark Grey, Coarse to Fine Sand, Trace Coarse to Medium Gravel at Bottom	Cobbles found in shoe and in bottom 0.1'
18		17					
19		91	2.0'/2.0'			18.3'-19.8' Same as Above	
20		10					
21		17				19.8'-20.3' Loose, Wet, Dark Grey, Coarse to Fine Gravel, Coarse to Fine Sand, Large Cobbles	
22		10					

EARTH TECH	Geotechnical Boring Log	Boring No.: DB (3B)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 2	DATE: 4/28/05
BORING LOCATION: ~100-150' West of building along roadway	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
22							
23							
24							
25		55	1.2'/2.0'			25.0'-25.1' Very Soft, Saturated, Dark Grey, Coarse to Fine Sand, Little Medium to Fine Gravel, Trace Clay and Silt	Interpreted as Sluff
26		37 26				25.1'-26.2' Loose, Wet, Dark Grey, Coarse to Fine Gravel, Coarse to Fine Sand	Large Cobbles
27		52				27.2'-27.4' Same as Above; Refusal at 27.4'	
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							

Geotechnical Boring Log

EARTH TECH

Boring No.: DB (4)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 2	DATE: 4/26/05
BORING LOCATION: West Corner of Building near overhead door	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft²;KG/cm²)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)
0		11	1.4/2.0		
1		11			
		7			
2		7			
		7	0.8/2.0		
3		4			
		2			
4		3			
		2	0.8/2.0		
5		2			
		4			
6		3			
		2	1.4/2.0		
7		2			
		2			
8		2			
		1	0.7/2.0		
9		1			
		1			
10		1			
11					
12					
13					
14					
15		9	1.7/2.0		
16		7			
		4			
17		4			
18					
19					
20	0.5	9	2.0/2.0		
21		9			
		14			
22		16			

SAMPLE DESCRIPTION AND STRATUM CHANGES

0.2-0.6' Loose, Dry, Gray/ Light Brown, Coarse to Fine Gravel, Trace Fine Sand

0.6-0.8' Loose, Moist, Red Brown, Coarse to Fine Gravel, Coarse to Fine Sand, Trace Clay and Silt

0.8-0.9' Loose, Moist, Black, Clay & Silt, Little Medium Fine Sand, Trace Fine Gravel

0.9-1.4' Medium Stiff, Moist, Black/Tan Mottled, Clay & Silt(+), Some Coarse to Fine Gravel

2.0-2.1' Same as Above

2.1-2.4' Medium Stiff, Wet, Black, Medium Fine Sand, Trace Fine Gravel

2.4-2.7' Medium Stiff, Moist, Black/Tan Mottled, Clay & Silt(+), Some Coarse to Fine Gravel

2.7-2.8' Loose, Wet, Black, Coarse to Fine Sand, Some Coarse to Fine Gravel, C& D Brick

4.0-4.4' Very Soft, Saturated, Brown, Coarse to Fine Sand, And Coarse to Fine Gravel, Trace Clay & Silt

4.4-4.5' Loose, Wet, Black, Coarse to Fine Sand, Some Coarse to Fine Gravel, C&D Brick

4.5-4.8' Very Soft, Wet, Dark Gray, Clayey Silt

6.0-6.3' Loose, Satruated, Black, Coarse to Fine Sand, C&D Brick

6.3-7.0' Medium Stiff, Wet, Brown/Gray Mottled, Clayey Silt

7.0-7.4' Soft, Saturated, Dark Gray, Medium to Fine Sand, Organics

8.0-8.7' Very Soft, Saturated, Black/Dark Gray, Coarse to Fine Sand, Coarse to Fine Gravel, Brick

15.0-15.4' Loose, Saturated, Dark Brown, Coarse to Fine Gravel, little(+)Clay & Silt, Little Coarse to Fine Sand, C&D Brick

15.4-15.7 Very Soft, Saturated, Dark Brown/Dark Gray, Clayey Silt, Trace(-) Medium Gravel, C&D Brick

15.7-16.4' Soft, Saturated, Dark Brown/Dark Gray, Medium Fine Sand, Trace Cley & Silt, Trace(-) C&D Brick

16.4-16.7' Wood Debris

20.0-22.0' Soft, Wet, Dark Brown/Gray, Coarse to Fine Sand, Little Clay & Silt, Trace Coarse to Fine Gravel, C&D Brick, Wood

REMARKS

Fill

Asphalt.; Cloth Material

Sluff

Odor Observed

Becomes more compotent(sp?) with Depth

6.0-6.3 odor & sheen observed

7.0-7.4 Roots, wood pieces

8.0-8.7 Sluff

Odor Observed

Lenses(sp?) of Clayey Silt are very Soft <0.5

EARTH TECH	Geotechnical Boring Log	Boring No.: DB (4)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict
CONTRACTOR: Geologic, Inc	DRILLER: Joe Menzel, Judson Powell	PAGE: 2 of 2 DATE: 4/26/05
BORING LOCATION: West Corner of Building near overhead door	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		3.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
22							
23							
24							
25		9	1.7/2.0			25.0-26.7' Soft, Wet, Dark Brown/Gray, Coarse to Fine Sand, Trace Coarse to Fine Gravel	Sluff from 25.0-25.8
26		5					
		3					
27		6					
28							
29							
30		6	2.0/2.0			30.0-32.0' Soft, Wet, Dark Brown, Coarse to Fine Sand, Trace Coarse to Fine Gravel	
31		6					
		7					
32		9					
33							
34							
35		8	2.0/2.0			35.0-37.0' Same as Above	
36		5					
		3					
37		6					
38							
39							
40		4	2.0/2.0			40.0-41.7' Same As Above	
41		8					
		9					
42	1.25	11				41.7-42.0' Stiff, Damp to Wet, Dark Gray, Clayey Silt	
43							
44							

LIMITED SITE DATA
ATTACHMENT D
MONITORING WELL BORING LOGS

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW-8 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/21/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/21/01
METHOD: 8.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	SIA (0-0.5)					md, d, c(+)m S, w cf G, t(-) $. 1.33	gray-brown
1	S1B (0.5-2)		97 ppm		20"	s, d, dk br $, w S & G.	Slight odor ~ 14"
2	S2 (2-4)		141 ppm		4"	do.	Insufficient recovery for lab sample. Strong odor, black liquid in gravel.
3						~ 3.0	▼ ~ 3.0'
4	S3 (4-6)		136 ppm (initial) 1166 ppm		24"	s-ss, w, bk-gy Cy$, l(+) mf S; occ. bits of broken glass and brick in upper foot. Somewhat mottled appearance.	Very strong odors
5							
6	S4 (6-8)				0"		
7							
8	S5 (8-10)		107 ppm		7"	do: no anthropogenics, abundant plant fiber. (Peat-like)	
9							
10	S6 (10-12)		31 ppm		24"	do, abundant woody fibers.	
11						11.5	
12			24 ppm			Loose, wet, mf S.	

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW-8
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)		52 ppm		24"	l, w, cm(+) S.	
14						14.0	
						End boring@ 14.0	
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

NOTES: End boring at 14'; plugged boring with bentonite-slurry to 11.5' dbg. Set 4" well screen at 3-11' below grade.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW-9 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/21/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/21/01
METHOD: 8.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	SIA (0-0.5)						
1	S1B (0.5-2)		59.4 ppm		14"	md, d, lt br, mf(+) S, l(+)f G, t $.	Odor
2						2.0	
3	S2 (2-4)		85.8 ppm		21"	Somewhat stiff, moist, dk br Cy$, l(-) f S, t cf G; abd wood fiber, pockets of fine Sand.	Strong odor
4							~4.5
5	S3 (4-6)		84.7 ppm		24"	do.	Very strong odor at apparent water table, diminishing with depth.
6						5.5 l, wet, dk gy mf S, t $	Odor.
7	S4 (6-8)		12.8 ppm		24"	do.	
8							
9	S5 (8-10)		13.8 ppm		24"	do: more fine sand, less Silt	Odor
10							
11	S6 (10-12)				24"	l, w, dk gy, mf(+) S.	Odor.
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW-9
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)				24"	do.	
14						14.5	
15						End boring@14.5	
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

NOTES: End spoon sampling at 14' bdg, blind auger to 14.5' dbg, set 4" well screen at 4-14'

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW10 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/22/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/22/00
METHOD: 8.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	S1A (0-0.5)					Topsoil & roots in a silty sand.	
1	S1B (0.5-2)		ND		16"	md, d-m, br, c mf(+) S, t(+) $, t f G, mtld, lns of silt.	
2							
3	S2 (2-4)		ND		16"	do; somewhat moist, occ brick, lime chips, glass	
4							
5	S3 (4-6)		21.5 ppm		18"	do. Moist to wet at ~5'., free water in pockets of fine gravel	Strong odor at 5' Large piece of wood in base of spoon apparently saturated with black oily product.
6							
7	S4 (6-8)		25.4 ppm		24"	do. 6.5 Woody fiber with c&d in Silt. 7.0 l, wet, gy-br, f S, t(-) f G.	▼ 6.5 Thick, blackish liquid from 6.5-7.0, strong odor. Liquid has greasy feel and leaves notable smear on protective latex gloves when handled. Appears to have saturated the woody fiber.
8							
9	S5 (8-10)		12 ppm		20"	do; occ lenses of Silt.	
10							
11	S6 (10-12)				NR (<3")		
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW10
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)				NR (<3")		
14	Blind					14.5	
15						End boring @14.5	
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

Sample to 14, blind auger to 14.5, set 4" well screen 4-14'

Albany, NY (518) 458-1313	**Test Boring Log**	Boring No. MW - 10D
PROJECT: Freeman's Bridge Road		Project No.: 38925.02.01
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date: 8/22/00
SUBCONTRACTOR: Parratt-Wolff		Inspector: Kevin McGrath, Hydrogeologist
METHOD: HSA	RIG: IR 300 / OPERATOR: D. Thoma	
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: 2" Split-Spoon	

Depth (Feet)	Sample Number	PID	REC	USCS	Soil Description	Geologic Description	Observations
1	S1 (0-2)	0ppm initial 6ppm H.S.	16"		Medium dense, well sorted gravelly Sand; pockets + lenses of Silt and fine Sand, mottled appearance.	0-6" Topsoil & roots. Md, d-m, c m(+) f S, l(-) f G, t(+) $ + Cy$; abd brick, concrete frags,glass	
2	S2 (2-4)	6ppm initial 16ppm H.S.	18"		do.	do. 3.5	
4	S3 (4-6)	51.1ppm H.S.	24"		Well sorted Gravel, angular shale chips	l-md, C f G w mf S, l(-) $, abundant woody fiber. Wet ~5.0 7.0	Black stained, strong odor, gummy texture ▽ 5.0 Apparent free product at WT to 7.0'.
6	S4 (6-8)	26.8ppm H.S.	22"				
7		58.7ppm H.S.			Somewhat stiff gray Silt, lenses of yellow & brown fine Sand.	SS, w, gy + yb $, l f S; (lenses of fine sand in Silt matrix). 8.5	Odor
8	S5 (8-10)	ND H.S.	24"		Poorly sorted fine Sand with Silt.	l-md, wet, gy f S, l(-) $.	Faint odor.
10	S6 (10-12)	ND	24"		do.	do.	
12							

NOTES: No laboratory samples collected, duplicates information from MW-10, determined to be NOT necessary for NYSDEC PM.

TEST BORING LOG

BORING NO.: MW-10D
Project No.: 38925

Depth (Feet)	Sample Number	PID	REC	USCS	Soil Description	Geologic Description	Observations
13	S7 (12-14)		24"		do.	do; occ pockets of yellow brown mf S; occ layers of Clayey Silt, occ Gravel.	8" layers of roots fiber from 12.5 ~ 13.2".
14							
15	S8 (14-16)		24"		do.	do; somewhat greenish-gray to dk blue gray. Somewhat stiffer, low plasticity.	
16							
17	S9 (16-18)		24"		do.	do.	
18							
19	S10 (18-20)		24"		do.	do. 19.33	
20						do; with f G; well-rounded C to subangular Gravel.	Alternating layers up to 8" thick of f S, mf S & G, c f G + c m S. Silt on Silty Clay with f Sand.
21	S11 (20-22)		24"		do.	do.	
22							
23	S12 (22-24)		24"		do.	do: alternating layers of fine Sand and medium fine Sand and Gravel.	
24							
25	S13 (24-26)		24"		do.	do.	
26							
27	S14 (26-28)		24"		do.	do.	
28							

NOTES:

TEST BORING LOG

BORING NO.: MW-10D
Project No.: 38925

Depth (Feet)	Sample Number	PID	REC	USCS	Soil Description	Geologic Description	Observations
29	S15 (28-30)				do.	do.	
30							
31	S16 (30-32)				do.	do.	
32							
33	S17 (32-34)				do.	do.	
34						34'	
35					End boring @ 34' dbg.		
36							
37							
38							
39							
40							
41							
42							
43							
44							

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW11 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/22/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/22/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	S1A (0-0.5)		ND		15"	ss, d-m, dk br, $, l(-) f S, occ. Gravel, roots, asphalt, and concrete.	5" layer of broken asphalt.
1	S1B (0.5-2)		ND				
2							
3	S2 (2-4)		ND		12"	do: Cy$ lenses, pockets of mf(+) S, occ pebbles; low plasticity.	4" layer of broken concrete
4							
5	S3 (4-6)		ND		12"	do; occ pockets of cm S.	
6							
7	S4 (6-8)		ND		22"	do. Stiff to very stiff. do. 7.5	
8						s-ss, m, tn-br, $, l(+) f S. 8.5	Abrupt color change to tan-brown at 7.5'.
9	S5 (8-10)		ND		10"	md, m, br-gy, $, w f S, occ. lenses of mf S.	Loam-like, possible natural soil horizon (pre-fill surface?).
10						do; wet at 11.5.	
11	S6 (10-12)		ND		13"		▼ 11.5
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW11
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)		ND		24"	do.	
14	Blind						
15						do.	
16	S8 (15-17)				24"	16'	Sharp contact at 16'.
17						l, w, mf S, t(-) $.	
18						End boring @ 17.0'	
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

NOTES: Borehole grouted with bentonite pellets from 15.5 to 17 feet below grade. 2" well screen set from 5-15.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW12 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/23/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/23/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)		12"			md, d, br $, a mf S, fgmts of brick, concrete, asphalt.	
2						st, m br Cy$ w fS, l(-) G; fqt asphalt and building stone.	
3	S2 (2-4)		8"			~3.5	
4						md, m, dk br, Cy$, w f S. thin layers of asphalt. (Fill and Alluvium)	Spoon wet inside 4-6'. potential perched zone.
5	S3 (4-6)		15"			~5.5	
6						md, m , br-gy Cy$ to rdbr $yC, l(-) f S.	
7	S4 (6-8)		20"				
8						st, d, br-gy $yC, l(-) f S; increasing mf sand fraction and occ. pebbles.	
9	S5 (8-10)		8"				
10							▼ 10'
11	S6 (10-12)		24"			ss, w, dk br-gr $, a f S. Sand lenses increasing with depth.	
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW12
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)		ND		24"	do; Sandy layers increasing in frequency and thickness.	
14							
15	S8 (14-16)		ND		24"	do.	Sandy layer > 1" ~ 15'.
16						do.	
17	S9 (16-18)		ND		24"	16.5 l, w, gy, m(+) f S.	
18							
19						End boring @ 18.0	
20							
21							
22							
23							
24							
25							
26							
27							
28							

NOTES: Auger advanced to 16' boring advanced to 18', grouted borehole to 15.5', with bentonite slurry.
2" screen set 5-15' dbg.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW13 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/23/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/23/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath, Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split-Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	NS				2"		Asphalt roadway or debris stuck in shoe.
2						s, m, dk br $yC; abt. asphalt and concrete;	
3	S1 (2-4)				18"	ss, d, gy Cy$, a f S, abt debris.	
4						do; with wood and cinders.	Odor.
5	S2 (4-6)				14"		
6		7/6				do; more sand, blackish	Odor.
7	S3 (6-8)				10"		
8		7/6			4"	l, m, bl, f S, l $, abt. wood, cinder, organics	
9	S4 (8-10)					~9.0	
10						vs, d - m, $yC w f S, l(-) f G.	10.0'
11	S5 (10-12)	ND			12"		Outside of spoon smeared with black liquid, strong odor.
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW13
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S6 (12-14)				5"	st, m, gy Cy&$.	
14							
15	S7 (14-16)				24"	m, gr, $yC, a S.	
16						End boring @ 16.0	
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW14 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/23/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/23/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)				18"	l, w, br cmf S, a cf G, l(-) $&C.	Edge of parking area. Heavy rain causing some ponding around augers.
2							
3	S2 (2-4)				18"	do: w-m, less G, fqt lyr fill, occ. gr-br Cy$.	
4							▼ 4.0'
5	S3 (4-6)				6"	l, m, gy-br, cmf S, w gr G a $. Abt. debris. ~4.5	
6							
7	S4 (6-8)				10"	m, d, br-gy Cy$; lns wd, debris.	Odor. Blackish liquid.
8							
9	S5 (8-10)					ss, w, Cy$, w f S, occ wd pcs.	Odor.
10							
11	S6 (10-12)				14"	10.8 l, w, gy, cmf(+) S.	
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

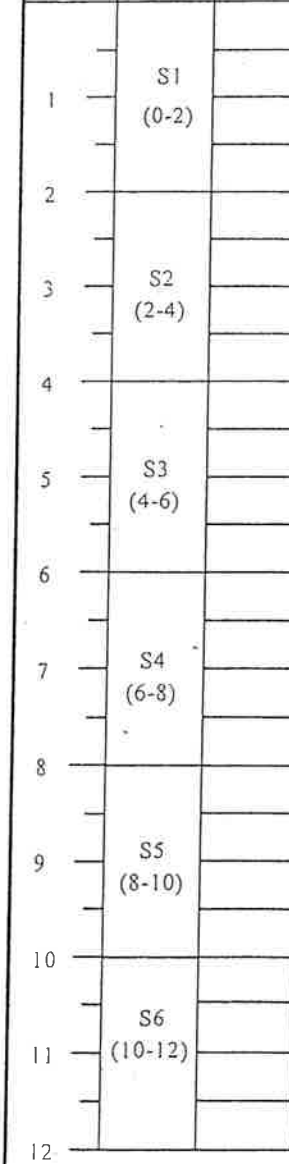
TEST BORING LOG

BORING NO. MW14
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)				<3"	do.?	no recovery in spoon, sand similar to previous interval in shoe.
14						End Boring @14.0	
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

NOTES: Stop auger advance at 12' below grade and attempted to collect one additional spoon.
Boring was grouted closed with bentonite/portland slurryto 2 feet below grade and finished with cuttings.
Boring relocated approximately 3 feet to new location and installed without sampling to 10' below grade.

EARTH TECH Albany, NY (518) 458-1313	**Test Boring Log**	Boring No. MW15 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 8/24/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 8/24/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	



Geologic Description	Observations
Roadway asphalt & under base stone, G.	No odor, gravelly road fill, clean. No sample.
l, w, gy, mf G, w $ & f S; angular crushed stone, ~3.0	▼ 3.5
st, w, bl-gy, Cy$, l f S. fqt. Lenses of fine sand and sandy silt	Odor, free phase black oily liquid
do; less stiff	Odor.
st, m, bl-gy Cy$, pkts of l, w dk gr bk S $,	black oily liquid in pkts of loose soils.
st, m, dk gr Cy$.	Slight odor.

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW15
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)				20"	s, w, dk gy Cy$. 13.5	Slight odor.
14						l, w, br-gy, f S, t(+) f G & $. 14.0	
15						End boring @ 14.0	
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

Notes: Auger advanced to 14', six inch layer of bentonite pellets placed 13.5-14 feet, 2" well screen set 3-13.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW15D Page 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/03/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished; 11/06/00
METHOD: 8.25" HSA and 4.25" SC	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
						8.25" HSA to 10' below grade with no sampling. 6" casing set and grouted into place 4.25" spin casing with satndard sampling from 10 ft to EOB. 10.0'	
10							
12	S-1 (12-14)	12 / 24 / 24 / 36	ND		16"	md, w, gy, cf G, w cm S, t(+) $. Angular to subangular Gravel.	
14							
16							
18	S-2 (17-19)	23 / 17 / 28 / 18	ND		24"	do: lyrs of cm S.	
20							
22	S-3 (22-24)	36 / 37 / 14 / 10	ND		24"	do:	
24							
26							
28	S-4 (27-29)	20 / 13 / 10 / 12	ND		24"	l, w, gy, cm S.	
30						30.0	
						End Boring @ 30'.	

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW16 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 10/31/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 10/31/01
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split-Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	3 2 2	ND		14"	l -md, m, dk br m(+)f S, l(+) $, t(-) f G; abd, roots. 0.5	
2		5				cut broken brick.	
3	S2 (2-4)	2 3 6	ND		8"	do. 2.5 l, m, dk r-br, mf(+) S, Cy$, l(-) f G; bits of brick, concrete, asphalt, wood.	
4		10				do.	
5	S3 (4-6)	4 2 2	ND		9"		
6		2				do.	Red, hard, rubber-like substance (dried paint?) and asphalt obstructing shoe
7	S4 (6-8)	WOH WOH 3	ND		4"	~7.0	
8		5				vs, m, bk Cy$; a f S, pockets of tan-brown f S.	Insufficient recovery to collect sample.
9	S5 (8-10)	WOH WOH WOH	ND		2"		
10		1				s-ss, m-w, gy & y-br Cy$, t f S.	▼ 10.5
11	S6 (10-12)	WOH WOH 1			24"		
12		1				11.75 l, w, gy-br, m(+)f S. End Boring @12.0'	

NOTES: Water level based on observation of apparent saturation in spoon sample.
Borehole plugged with bentonite from 11.5' - 12.0 ' 2" well screen setl 6-11'.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW16D Page 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/2/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished; 11/3/00
METHOD: 8.25" HSA and 4.25" SC	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
10		NA				8.25" HSA to 14' below grade with no sampling. 6" casing set and grouted into place. 4.25" spin casing with satndard sampling from 14 ft to EOB.	
12							
14						14.0'	
16							
18	S-1 (17-19)	2 2 / 3 3	ND		16"	vl, w, bl-gy, m(+)f S; massive.	
20							
22	S-2 (22-24)	28 18 / 23 17	ND		15"	do. 2" piece of wood ~23'.	
24							
26						~26'	
28	S-3 (27-29)	10 25 / 60 60	ND		24"	d-vd, w, bl-gy, cm(+) S, a cf G; abd. shale chips and cuttings.	
30		100/.1				29 Refused @ 29'.	Probable bedrock

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW17 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/01/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 11/01/01
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	1, 3, 9, 6	ND		8"	vl-l, m, dk r-br mf(+) S, w CyS; abd. roots stems. Low plasticity	
						~1.0	
2						l, d, dk y-br, m(+)f S, t(+) $, t(-) f G: occ. asphalt& concrete.	
3	S2 (2-4)	4, 8, 7, 6	ND		9"		
4						do.	
5	S3 (4-6)	4, 3, 3, 2	ND		6"		
6						do; moist.	
7	S4 (6-8)	4, 5, 6, 7	ND		12"		
						~7.0	▼ ~ 7.5
8						l, w, gy mf S.	Strong petroleum-like odor.
9	S5 (8-10)	3, 2, 2, 3			6"		
10						10.0	
						End Boring at 10.0'	
11	S6 (10-12)						
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.
Boring plugged to 8.5 feet, 3 feet of 2" screen set 5-8' bg.

EARTH TECH Albany, NY (518) 458-1313	**Test Boring Log**	Boring No. **MW17D** Page 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/1/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished; 11/3/00
METHOD: 8.25" HSA and 4.25" SC	RIG: IR 300 OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
10						8.25" HSA to 12' below grade with no sampling. 6" casing set and grouted into place. 4.25" spin casing with satndard sampling from 12 ft to EOB.	
12						12.0'	
14						15.1	Shale cuttings.
16	S-1 (15-17)	100/.1				Spin casing obstructed at 15' below grade by large/hard object. Spoon refused, roller bit refused.	
18						Casing broke free of concrete collar. boring abandoned.	
20						Casing grouted off to surface.	
22						Boring relocated ~ 5' to west.	
24						2nd attempt refused at 15' by shale probable bedrock.	
26						Deep well location abandoned.	
28							
30							

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW18 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/02/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 11/02/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	2, 8, 10, 7	18"			Topsoil + roots ~ 0.5 l, m, r&y-br mf S; occ CG, small bits of asphalt. ~1.5	
2	S2 (2-4)	5				do; no Gravel or debris at all. Massive.	
3		3, 5	20"				
4		6					
5	S3 (4-6)	2, 2, 2	24"			do; wet at 5.25'.	▽ 5.25
6		2					
7	S4 (6-8)	2, 1, 2, 3	19"			l, wet, gray M S. 7.0	
8		3				do.	
9	S5 (8-10)	3, 3, 2, 2	22"				
10		2				do	
11	S6 (10-12)	3, 3, 1	18"				
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.
Auger advanced to 12.5', 2" well screen set 7-12'.

End Boring @ 12.5

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW19 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/01/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 11/01/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	10, 11, 13, 19			16"	md, d, bk, cm S, a G: abd asphalt, fqt concrete.	
2							
3	S2 (2-4)	21, 16, 6, 4			3"	do. ~3.5	
4							
5	S3 (4-6)	3, 2, 2, 2			NR		
6							
7	S4 (6-8)	4, 3, 3, 4			18"	s, w, or-br & gray, Cy$, w mf S; no plasticity. 7.0 l, w, gy, mf S. 8.0	Spoon dripping wet
8						End Boring @ 8.0'	
9							
10							
11							
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.
Plugged boring 6-8'.
Set 2" well at 3-6', well dry 1 hour after installation.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW19D Page 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/03/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished; 11/03/00
METHOD: 8.25" HSA and 4.25" SC	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
						8.25" HSA with no sampling to 8' below grade. 6" steel casing set. 4.25" spin casing with standard sampling to refusal at 23.4'	
8							
10							
12	S-1 (12-14)	1 1 / 1 1	24"			l, w, bl-gy mf S, t(+) $; no plasticity.	
14							
15						~15	15' c S and f G in cuttings.
16							
18	S-2 (17-19)	21 12 / 10 18	NR				Casing grinding loudly.
20						~21	
22	S-3 (22-24)	17 77 / 100/0.4	24"			vst, w, gy, $, w f S, l(-) f G; deeply imbedded shale pebbles, cut shale frags at base. 23.4	Much stiffer, advance of casing very difficult.
24						Refused @23.4'	- Probable Bedrock
26							
28							
30							

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW20 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 10/31/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 10/31/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	6 8 7 10			7"	md, m, r&or-br, m(+)f S, l(-) mf G, t(+) $: occ brick.	
2						do. 2.5	
3	S2 (2-4)	30 7 6 2			9"	l, m, dk br c(+)mf S, a cf G; abd. debris, mostly asphalt and brick.	
4						do.	brick in shoe
5	S3 (4-6)	3 4 3 4			1"		
6						do.	▽ Wet at ~ 6'.
7	S4 (6-8)	3 4 6 7			11"		
8						do.	
9	S5 (8-10)	WOH WOH WOH 1			0"		
10						do. 10.5	Sheen on water at ~10-11'.
11	S6 (10-12)	WOH WOH 1 1			24"	s, w, gy Cy$, w f S. 11.0 l, wet, mf S.	
12						End Boring at 12.0'	

NOTES: Water level based on observation of apparent saturation in spoon sample.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW20D Page 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/01/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished; 11/03/00
METHOD: 8.25" HSA and 4.25" SC	RIG: IR 300 OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
10		NA				8.25" HSA with no sampling to 14' below grade. 6" steel casing set and grouted and left overnight to cure. 4.25" Spin casing advanced through steel from 14' to EOB with standard sampling.	
12							
14						14.0'	
16							
18	S-1 (17-19)	4 6 10 16			16"	l. w. br-gy, mf S, l(-) $	
20							
22	S-2 (22-24)	19 22 27 18			16"	l-md, w, br-gy, c(+) m S, w, cf G: rounded to well rounded washed stone.	Hard drilling.
24							
26							
28	S-3 (27-29)	10 12 22 22			3"	do; large rounded stone in shoe.	
30						30	
						End boring @ 30'.	

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW21 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 11/01/00
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 11/01/00
METHOD: 4.25" ID HSA	RIG: IR 300 / OPERATOR: D. Thoma	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	4, 4, 6, 2	ND		14"	Topsoil, roots l, m-w, br cm(+)f S, l(-), Cy$ & mf G: occ. bits of brick and concrete.	
2							
3	S2 (2-4)	18, 14, 14, 10	ND		9"	do: pkts. of gy $, abd. brick/concrete/ asphalt.	
4							
5	S3 (4-6)	5, 6, 3, 1	ND		9"	l, d, bl-gy mf S, a Cy$; t(+) mf G; occ. brick, asphalt & concrete.	
6						do.	
7	S4 (6-8)	3, 3, 1, 1	ND		6"	7.0	
8						l, m-w, gy-br mf S, s Cy$, low plasticity, somewhat mottled.	▽ 8.5
9	S5 (8-10)	3, 3, WOH, WOH	ND		14"		
10						do.	
11	S6 (10-12)	1, 1, WOH, WOH	ND		24"	11.0 l, w, gy m S.	
12						End Boring at 12.0'	

NOTES: Water level based on observation of apparent saturation in spoon sample.

Auger advanced to 10', bore hole plugged to 9.5', 2: well screen set 5-9'.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW21D Page 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 3/27/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 3/30/01
METHOD: 8.25" HSA and 4.25" SC	RIG CME85 OPERATOR: R. Nevatka	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
2						Blind auger to 6 feet below grade.	Hard grinding from 2-4 feet Bits of concrete, and brick in cuttings
4						5.0	
6	S1 (6-8)	WH/WH 1/1	ND		9"	st, w, dk y-br $-Cy$, l(-) f S, f G; angular to subangular "chips", and occ course well rounded pebbles.	strong odor, blackish liquid around larger pebbles
8	S2 (8-10)	WH/WH 1/1	ND		17"	st, w, gy-br $, w y-br f S; mttld with lns and pkts of vf S.	faint odor
10	S3 (10-12)	WH/WH 1/1	ND		24"	do. 11.0	Sharp contact
12						l, w, gy, m(+)f S, t(+) $; occ pkts f S	
14						Blind auger from 12-16 feet below grade. Steel casing set 3/27/01, and grouted to grade	"paste" like mud of fine sand and $ in cuttings.
16							
18	S4 (18-20)	1/1 1/1			16"	l, w, gy mf(+) S, l(-) f G	
20							
22							
24	S5	10/11			18"	do: more Gravel	

NOTES: 8.25" HSA advanced without sampling to 6 feet beolow grade, samples collected from 6-12' to confirm alluviam/sand interface. HSA advanced without sampling to from 12-16 feet below grade. 6" steel casing set and grouted into place at 16'. 4.25" ID drive casing used to advance remainder of boringwith satndard sampling.
Casing driven with 300 lb hammer, samples collected with 140lb hammer.

EARTH TECH
Albany, NY (518) 458-1313

Test Boring Log

Boring No. MW21D
Page 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	(23-25)	22/23					
26							
28	S6 (28-30)	10/5			22"	do.	
		7/12					
30							
32							Abundant gravel chips in wash water, mostly seds with some metas
34	S7 (35-38)	46/13			16"	do.	
		14/13					
36							
38	S8 (38-40)	11/12			12"	do.	
		16/19					
40							
42							
44	S9 (43-45)	6/7			16"	do	
		10/14					
46							
48						do 48.5	
	S10 (48-50)	40/20			14"	vst, w, gy $, l(+) f S, l(-) f G; rounded to angular pebbles and chips.	
		33/49					
50							
52							
54	S11 (53-55)	49/37			16"	do: deeply imbedded gravel	
		50=0.4				Refused @ 54.4	cut shale in shoe

NOTES: Till layer encountered at 48.5, boring refused at 54.4', cut Canajoharie shale in shoe, likely bedrock. 10 foot well screen set at 38-48 feet below grade.

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW22 Sheet 1 of 1
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 3/27/07
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 3/27/01
METHOD: 4.25" ID HSA	RIG: [illegible] OPERATOR: R. Nowka	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1						Augers advanced blind to 4' below grade.	
2							
3							
4		50/0.2				Concrete dust and brick powder	▼ ~ 4.5
5	S-1 (4-6)		ND		< 3"	5.0	Cut concrete in shoe, hard drilling to 5' then easy. spoon wet at ~ 4.5.
6		WOH				ss, w, gy, S, l(-) f S; occ. plant fiber, occ. vf lm f S.	Strong odor
7	S-2 (6-8)	WOH 3	ND		22"		Apparent sheen on soil. Water pouring out spoon
8		2				End boring @ 8.0	
9							
10							
11							
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.
PID Malfunction, Fault probable lamp burnout, readings unreliable.

EARTH TECH Albany, NY (518) 458-1313	**Test Boring Log**	Boring No. MW23 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 3/27/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 3/27/01
METHOD: 4.25" ID HSA	RIG: CME85 / OPERATOR: R. Nevatka	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	2, 2, 5, 5	ND		18"	l, w, dk r-br, m(+)f S, w $ & f G; abd brick, concrete, asphalt, and plant fiber	
2							
3	S2 (2-4)	4, 6, 8, 5	ND		8"	do; moist, more $ to Cy$, less G; 4" of brick dust, pckts of y-br m S	
4							drumlid o-ring on auger bits of cermaic tiles
5	S3 (4-6)	2, 2, 2, 2	ND		6"	do; coarser Gravel, rounded to subangular shale and limestone. 5.0	
6							
7	S4 (6-8)	6, 10, 3, 1	ND		5"	ss, w, y-br $ a Cy$, l(-) f S; occ lyrs woody fiber, low plasticity	▼ ~7.5
8							
9	S5 (8-10)	3, 2, 2, 2	ND		7"	do: abd wood, lm bk $ & f S	Water poruing off spoon
10							
11	S6 (10-12)	1, 0, 1, 1			< 2"		cut wood and bk $ in shoe
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW23
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)	6 3 1 3			24"	ss, w, bk, $, l(-) f S; abd woody fiber.	block of cut wood in layer of cm(+) S 13-13.5
14	S8 (14-16)	1 4 4 4			18"	do: 15.0 l, w, gy, mf S.	sharp contact
16						End Boring @16.0'	
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

Notes: Augers advanced to 14.0' below grade only. Spoon hole plugged with bentonite chips
10' of 0.10 slot screen set from 3.5 to 13.5.

EARTH TECH Albany, NY (518) 458-1313	**Test Boring Log**	Boring No. **MW23D** Page 1 of 3
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 3/27/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished; 3/29/01
METHOD: 8.25" HSA and 4.25" SC	RIG CME85 OPERATOR: R. Nevatka	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Standard	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
2							
4							
6	S1 (6-8)	2/2			<2"		attempted to collect sample above wt to replace NR sample in MW23. No recovery
8		3/2					
10							
12							
14							
16							
18	S2 (18-20)	5/3			6"	l, w, gy mf S, l(-) $; occ lns $ and woody fiber.	
20		2/2					
22							
24	S3	5/2			8"	do.	

NOTES:

EARTH TECH
Albany, NY (518) 458-1313

Test Boring Log

Boring No. MW23D

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	(23-25)	6/4					
26							
28	S4 (28-30)	9/39			12"	md-d, w, gr-gy cm S, w G; well rounded seds & metas.	abundant rock chips in wash water
		39/37					
30							
32							
34	S5 (33-35)	15/25			8"	do.	
		19/19					
36							
38	S6 (38-40)	13/11			14"	do.	
		11/16					
40							
42							
44	S7 (43-45)	13/13			12"	l, w, gy, mf S, l(-) $.	
		13/13					
46							
48	S8 (48-50)	42/26			8"	md-d, w, gr-gy, c(+)mf S, w G	
		22/15					
50							
52							
54	S9 (53-55)	10/17			9"	do.	
		13/13					

NOTES:

EARTH TECH
Albany, NY (518) 458-1313

Test Boring Log

Boring No. MW23D

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
							Join line to Page 2
56						56.5	
58	S10 (58-60)	10/19			16"	s, w, gy Cy$, t(+) f S; moderate palsticity, interbedded laminae of Cy$ and f S.	
		15/12					
60							
62							
64	S11 (63-65)	12/11			18"	do.	
		10/5					
66							
68	S12 (68-70)	5/5			24"	do.	
		8/10					
70						End Boring @ 70.0	
72							

NOTES:

EARTH TECH Albany, NY (518) 458-1313	Test Boring Log	Boring No. MW24 Sheet 1 of 2
PROJECT: Freeman's Bridge Road		Project No.: 38925
CLIENT: New York State Department of Environmental Conservation		Datum: Grade
PURPOSE: Monitoring Well Installation		Date Started: 3/28/01
SUBCONTRACTOR: Parratt-Wolff		Date Finished: 3/28/01
METHOD: 4.25" ID HSA	RIG: CME85 OPERATOR: R. Nevatka	Inspector: Kevin McGrath Hydrogeologist
SAMPLE INTERVAL: Continuous	SAMPLE DEVICE: Split Spoon	

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
1	S1 (0-2)	WOH 2 4 7	ND		24"	l, w, r-br, mf S, w $: abd plant fiber and roots	
2 3	S2 (2-4)	9 9 24 12	ND		18"	md, dk r-br, mf S a $, t(+) fine G; occ bits of brick, concrete, and asphalt. Thin layers of ash from 3-3.5', occ pkts of shale chips.	
						~3.75'	
4 5	S3 (4-6)	15 10 7 6	ND		8"	ss, m, gy & o-br, $, a vf S; somewhat mttld, lns a pkts of o-br f S	water pouring off spoon
						6.0'	
6 7	S4 (6-8)	4 2 2 2	ND		21"	l, m-w, o-br mf(+) S, l(-) gy $; very mttld with lns & pkts of gy $ and m S, abd iron staining	
8 9	S5 (8-10)	1 1 2 2	ND		12"	do.	
10 11	S6 (10-12)	WOH 1 1 1	ND		24"	do. increasing medium sand content.	
12							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Freeman's Bridge Road
Project No.: 38925

TEST BORING LOG

BORING NO. MW24
Sheet 2 of 2

Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	S7 (12-14)	1/12 1/12			24"	l, w, lt br m(+)f S, t(+) $	
14						14.0	
15	S8 (14-16)	WOH 1/12 3			24"	l, w bk-gy, mf(+) S, t(+) $.	
16	S9 (16-18)	1 3 3 4			24"	do.	
17							
18	S10 (18-20)	2 3 4 11			22"	do. 18.5 l, w, dk r-br, cm(+) S, a G:	
19							
20	S11 (20-22)	10 14 24 42			22"	do; gravel consists of rounded to subangular sandstone, quartzites, limestone chips.	
21							
22						23.0'	very coarse hard grinding to 23'. then very easy. grey paste like silty fine sand from 23-26' in cuttings
23							
24							
25							
26						End Boring @ 26.0'	
27							
28							

Notes: unexpected shift to gravel at approximately 20 feet below grade, blind augers advanced from 22 to 26 feet in attempt to "tag" bedrock surface. Boring discontinued at 26 feet and well completed. with 15' 11" of screen placed from 6-22 feet.

EARTH TECH

Monitoring Well Boring Log

M. Well No.: MW (25)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 1	DATE: 4/25/05
BORING LOCATION: West-northwest of building in undeveloped field	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
			I.D.		4.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0		5	0.5'/2.0'			0.0'-0.4' Soft, Moist to Damp, Brown, Clayey Silt, Little Medium to Fine Sand, Trace Fine Gravel	Topsoil and Roots
		4					
1		3				0.4'-0.5' Loose, Dry, Grey, Coarse to Fine Gravel, Non-plastic	Fill Material to 6.0' bgs
		9					
2		17	1.4'/2.0'			2.0'-2.4' Loose, Wet, Construction and Demolition Debris, Brick	Non-plastic
		13				2.4'-2.7' Soft, Wet, Brown, Coarse to FineSand, Trace Medium to Fine Gravel, Trace Construction and Demolition Debris, Brick	Non-plastic
3		28					
		31				2.7'-3.4' Loose, Wet, Black, Asphalt Gravel, Trace Clay and Silt	Water Table observed at approximately 3.0' bgs based on moisture in spoon casing; Odor observed; Non-plastic
4		50/0.1	None				
		100/0.3					
5		1	1.0'/1.0'			5.0'-5.2' Very Soft, Saturated, Black, Silty Clay, Trace Fine Gravel, Trace Wood Fragments, Medium Plasticity	
		3					
6		W.O.H.	1.4'/2.0'			5.2'-6.0' Stiff, Moist to Damp, Brown/Grey Mottled, Clayey Silt, Trace Fine Gravel	Strong Odor Observed
		W.O.H.					
7		1				6.0'-6.5' Soft to Stiff, Saturated/ Moist to Damp, Brown/Grey Mottled, Clayey Silt, Trace Fine Gravel, Medium Plastic	Odor Observed; Consistency and Moisture Content Varied
		2					
8		W.O.H.	2.0'/2.0'			6.5'-7.4' Stiff, Damp to Wet, Brown/Grey Mottled, Medium to Fine Sand, Medium Plastic	Odor Observed
		1					
9		W.O.H.				8.0'-9.0' Very Soft, Saturated, Dark Grey, Medium to Fine Sand, Some clay and Silt, Trace Medium to Fine Gravel, Medium Plasticity	Odor Observed
		1					
10						9.0'-9.5' Soft, Wet, Dark Grey, Medium to Fine Sand, Some Clay and Silt, Trace Fine Gravel, Medium Plastic	
11						9.5'-10.0' Stiff, Wet, Dark Grey/Brown Mottled, Medium to Fine Sand, Medium Plasticity	
12							
13						End Boring @ 10.0' bgs; Drillers moved laterally, then redrilled to confirm the extent of the Fill. This boring drilled to 6.0' bgs and the interval of Fill was screened.	
14							
15							
16							
17							
18							
19							
20							
21							
22							

EARTH TECH

Monitoring Well Boring Log

M. Well No.: MW (26)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 1	DATE: 4/26/05
BORING LOCATION: West of onsite building along roadway	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
			I.D.		4.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0		13	1.2'/2.0'			0.0'-0.2' Soft, Wet, Brown, Clay and Silt, Some Coarse to Fine Sand, Less Medium to Fine Gravel	Topsoil and Roots
1		16					
		9				0.2'-0.5' Loose, Damp, Black, Coarse to Fine Gravel, Less Medium to Fine Sand	Asphalt; Odor Observed
2		3					
		2	1.0'/2.0'			0.5'-1.2' Stiff, Damp to Wet, Brown/Grey Mottled, Clayey Silt, Trace (+) Medium to Fine Gravel, Trace Fine Sand, Low Plasticity	Odor Observed
3		2					
		3					
4		4				2.0'-3.0' Stiff, Damp to Wet, Brown/Grey Mottled, Clayey Silt, Trace Fine Sand, Trace (-) Fine Gravel, Medium Plasticity	
		2	1.0'/2.0'				
5		2				4.0'-5.0' Same as Above	
		2					
6		2					
		W.O.H.	2.0'/2.0'			6.0'-7.2' Same as Above	
7		W.O.H.				7.2'-8.0' Soft, Saturated, Brown, Medium to Fine Sand, Less Clayey Silt, Trace Fine Gravel, Low Plasticity	Occasional Lenses of Clayey Silt
		1					
8		1				End Boring @ 8.0' bgs; Drillers moved laterally, then redrilled to confirm the extent of the Clayey Silt interval. This boring drilled to 6.0' bgs and the Clayey Silt interval was screened.	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

EARTH TECH

Monitoring Well Boring Log

M. Well No.: MW (27)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060 02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 1	DATE: 4/27/05
BORING LOCATION: Southeast corner of building, Near overhead door	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		4.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0						0.0'-0.5' Medium Stiff, Moist, Brown/Dark Grey, Coarse to Fine Gravel, and Clay and Silt, Less Coarse to Fine Sand	2" Pieces of Asphalt at bottom of the 0.0-0.5 interval
	1.25@0.25'	12	1.4'/2.0'				
1	1.0@1.0'	8				0.5'-1.2' Medium Stiff, Moist, Red Brown, Medium to Fine Gravel, and Clay and Silt, Less Coarse to Fine Sand	A 0.1' interval from 0.11'-0.12' bgs of a micaceous, vesicular substance with conchoidal fracture. Interpreted as resin of some kind.
	<0.5@1.2'	7					
2	1.25@1.3'	5				1.2'-1.3' Soft, Moist, Black, Medium to Fine Gravel, Some Clay and Silt	
		3	1.3'/2.0'				
3		3				1.3'-1.4' Medium Stiff, Moist, Brown, Medium to Fine Sand	1.2'-1.3' Odor Observed; Rubber Gasket found
		3				2.0'-2.2" Loose, Damp, Brown, Coarse to Fine Sand, Some Coarse to Fine Gravel, Trace Clay and Silt	
4		3					2.0'-2.2' Asphalt Pieces; Interpreted as Sluff
	<0.5@4.6'	1	1.0'/2.0'			2.2'-3.3' Soft, Damp, Black/White Mottled, Coarse to Fine Sand, Some Clay and Silt, Less Coarse to Fine Gravel	
5	1.0@4.9'	2					2.2'-3.3' Strong Odor; White mottling is Clay/Silt sized
		2				4.0'-4.4' Same as above, Becomes more competent with depth	
		1					4.0'-4.4' Interpreted as Sluff
6						4.4'-4.7' Very Soft/ Loose, Wet, Black, Coarse to Fine Sand, Coarse to Fine Gravel, Trace Clay and Silt	6.0'-6.6' Interpreted as Sluff
	1.0@6.8'	2	1.6'/2.0'				
7		1				4.7'-4.8' Loose, Moist, C&D, brick	
	1.0@7.4'	2				4.8'-5.0' Soft, Damp, Dark Brown/ Dark Grey, Clayey Silt, Medium to High Plasticity	
8		1					
	1.0@8.7'	2	1.0'/1.0'			6.0'-6.6' Loose, Wet, Brown, Coarse to Fine Gravel	8.0'-8.4' Interpreted as Sluff
		2				6.6'-7.1' Soft, Damp, Dark Brown/Dark Grey, Clayey Silt	8.4'-9.0' Becomes more competent with depth
9		1	1.5'/2.0'			7.1'-7.6' Soft, Damp to Wet, Dark Brown/ Dark Grey, Fine Sand, Less Clay and Silt	
		1					9.0'-9.5' Interpreted as Sluff
10		W.O.H.				8.0'-8.4' Loose, Wet, Dark Brown/Grey, Coarse to Fine Gravel, and Clayey Silt, Trace Coarse to Fine Sand	
		1					
11						8.4'-9.0' Soft, Moist to Damp, Dark Grey/ Dark Brown, Clayey Silt	
12						9.0'-9.5' Loose, Wet, Dark Brown, Coarse to Fine Gravel, and Clayey Silt, Trace Coarse to Fine Sand	
13						9.5'-10.5' Soft, Wet to Saturated, Dark Brown/Dark Grey, Fine Sand	
14							
15						End Boring @ 11.0' bgs. Drillers auger to 10.0' bgs. Clayey Silt interval was screened.	
16							
17							
18							
19							
20							
21							
22							

EARTH TECH

Monitoring Well Boring Log

M. Well No.: MW (28)

PROJECT: Freeman's Bridge PDI	PROJECT No.: 83060.02	ET GEOLOGIST: Lucas Benedict	
CONTRACTOR: Geologic, Inc.	DRILLER: Joe Menzel, Judson Powell	PAGE: 1 of 1	DATE: 4/27/05
BORING LOCATION:Northwest corner of building; Near overhead door	SITE LOCATION: Glenville, New York	SURFACE ELEVATION: NA	

WATER LEVELS				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.		4.25"	2"		
			WEIGHT			140#		
			FALL			30"		

Depth (ft) bgs	Penetrometer (T/ft^2;KG/cm^2)	Blows per/6"	Recovery (feet)	PID (ppm)	Temp. (°F)	SAMPLE DESCRIPTION AND STRATUM CHANGES	REMARKS
0						0.0'-0.7' Loose, Moist, Black with Brown pockets, Coarse to Fine Gravel, Some Coarse to Fine Sand, Trace Clay and Silt	Asphalt Surface and Subase Material
	2.25@0.5'	32	1.5'/2.0'				
1		15				0.7'-1.5' Loose, Moist, Light Grey, Coarse to Fine Gravel, Coarse to Fine Sand, Trace Silt and Clay	Limestone fill and other subase Material
		9					
2		8				2.0'-2.8' Same as Above	2.0'-2.8' Interpreted as Sluff
		8	0.8'/2.0'			4.0'-4.5' Loose/Medium Stiff, Moist, Dark Grey, Coarse to Fine Gravel, Some Clay and Silt, Trace Fine Sand, Non-plastic	4.0'-4.5' Interpreted as Sluff; Material is mostly loose with Cohesive portions
3		12					
		7				4.5'-5.9' Stiff, Moist to Damp, Brown/Grey Mottled, Clay, Trace Fine Gravel, High Plasticity	
4		3					4.5'-5.9' Odor Observed; Black Sticky Substance observed at 5.0' bgs
	1.75	2	1.9'/2.0'			6.0'-6.5' Loose/Medium Stiff, Moist, Dark Grey, Coarse to Fine Gravel, Some Clay and Silt, Trace Fine Sand, Non-plastic	
5	1.5	2					
	1.75	3				6.5'-7.9' Stiff, Moist to Damp, Brown/Grey Mottled, Clay, Trace Fine Gravel, High Plasticity	6.0'-6.5' Interpreted as Sluff; Material is mostly loose with Cohesive portions
6		3					
	1.25	4	1.9'/2.0'			8.0'-8.5' Loose/Medium Stiff, Moist, Dark Grey, Coarse to Fine Gravel, Some Clay and Silt, Trace Fine Sand, Non-plastic	
7	1.0	4					8.0'-8.5' Interpreted as Sluff; Interpreted as Sluff; Material is mostly loose with Cohesive portions; Moisture increased with depth
	1.5	3				8.5'-8.9' Stiff, Moist to Damp, Brown/Grey Mottled, Clay, Trace Fine Gravel, High Plasticity	
8	1.25	2					
	2.25	2	1.9'/2.0'			10.0'-10.5' Very Soft, Saturated, Dark Brown, Clay and Silt, Some Coarse to Fine Gravel	
9	1.5	2					10.0'-10.5' Interpreted as Sluff; Interpreted as Sluff; Material is mostly loose with Cohesive portions
	1.25	2				10.5'-11.8' Very Soft, Saturated, Dark Grey/Brown Mottled, Clay	
10	1.5	2					
	<0.5	1	1.8'/2.0'			12.0'-12.3' Loose/Medium Stiff, Moist, Dark Grey, Coarse to Fine Gravel, Some Clay and Silt, Trace Fine Sand, Non-plastic	
11		1					
		W.O.H				12.3'-13.0' Stiff, Moist to Damp, Brown/Grey Mottled, Clay, Trace Fine Gravel, High Plasticity	
12		1					
	1.5	12	1.9'/2.0'			13.0'-13.5' Loose, Wet, Grey/Dark Grey, Coarse to Fine Gravel	Fill Material; Possibly from below prexisting underground storage tank
13	1.0	24				13.5'-13.9' Loose, Saturated, Dark Grey, Coarse to Fine Sand, Less Coarse to Fine Gravel	
	<0.5	24					
14		12					
						End Boring @ 14.0' bgs. Drillers auger to 14.0' bgs, apply 2.0' of sand. Clay/ Clayey Silt interval was screened.	
15							
16							
17							
18							
19							
20							
21							
22							

Earth Tech Northeast, Inc.

EarthTech A BETTER TOMORROW made possible

A tyco International Ltd. Company

40 British American Blvd.
Latham, New York 12110

FIELD BOREHOLE LOG

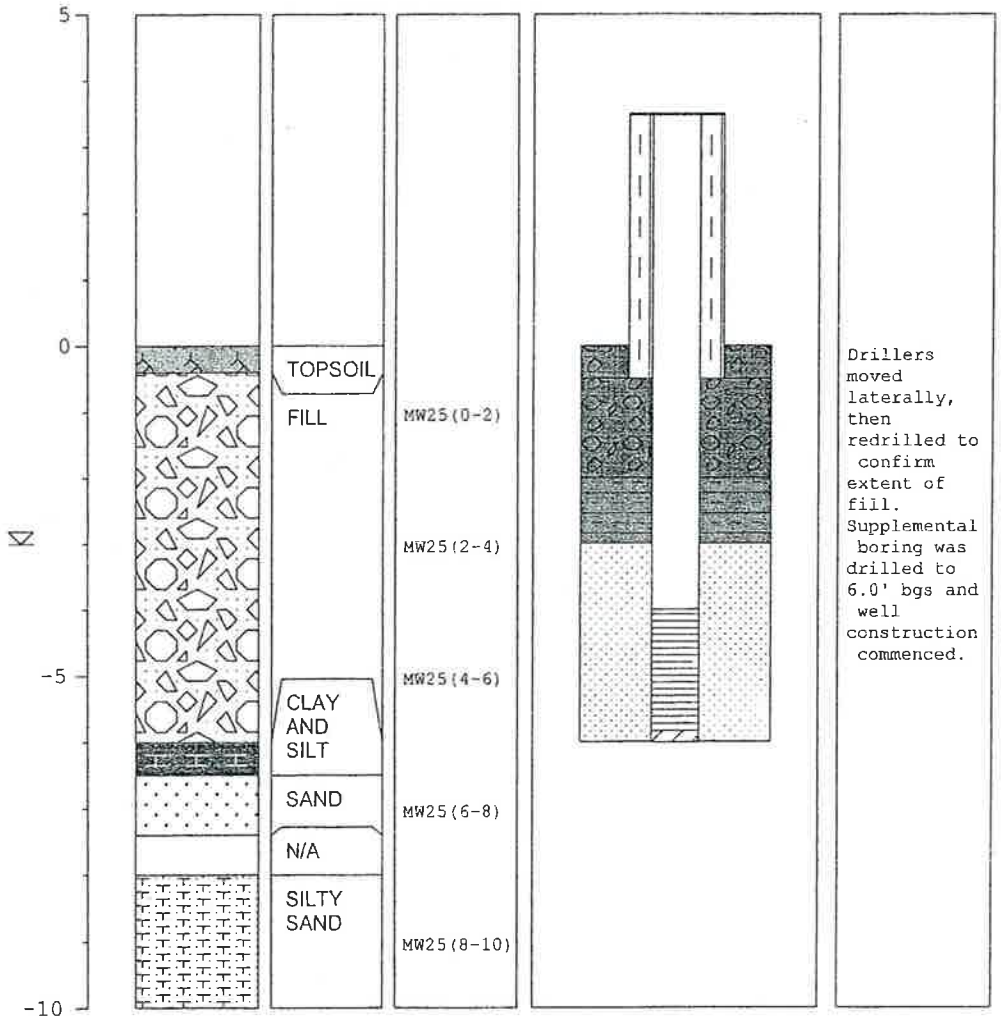
MONITORING WELL NO.: **MW-25**

TOTAL DEPTH: **10.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**NYSDEC Freemans Bridge Site**	DRILLING CO.:	**Geologic, Inc.**
SITE LOCATION:	**34 Freemans Bridge Road**	DRILLER:	**Joseph Menzel**
JOB NO.:	**83060**	RIG TYPE:	**CME 45C**
LOGGED BY:	**Lucas Benedict**	METHOD OF DRILLING:	**8" hollow stem auger**
PROJECT MANAGER:	**Lisa Swan**	SAMPLING METHODS:	**2" OD Split spoon**
DATES DRILLED:	**4-25-05**	HAMMER WT./DROP	**140 lb., 30 in.**

▽ Water level during drilling

DEPTH (BGS)	SOIL SYMBOL	SOIL TYPE	SAMP.	CONSTRUCTION PARAMETERS	COMMENTS



NOTES:

Earth Tech Northeast, Inc.

EarthTech A BETTER TOMORROW made possible

A tyco International Ltd. Company

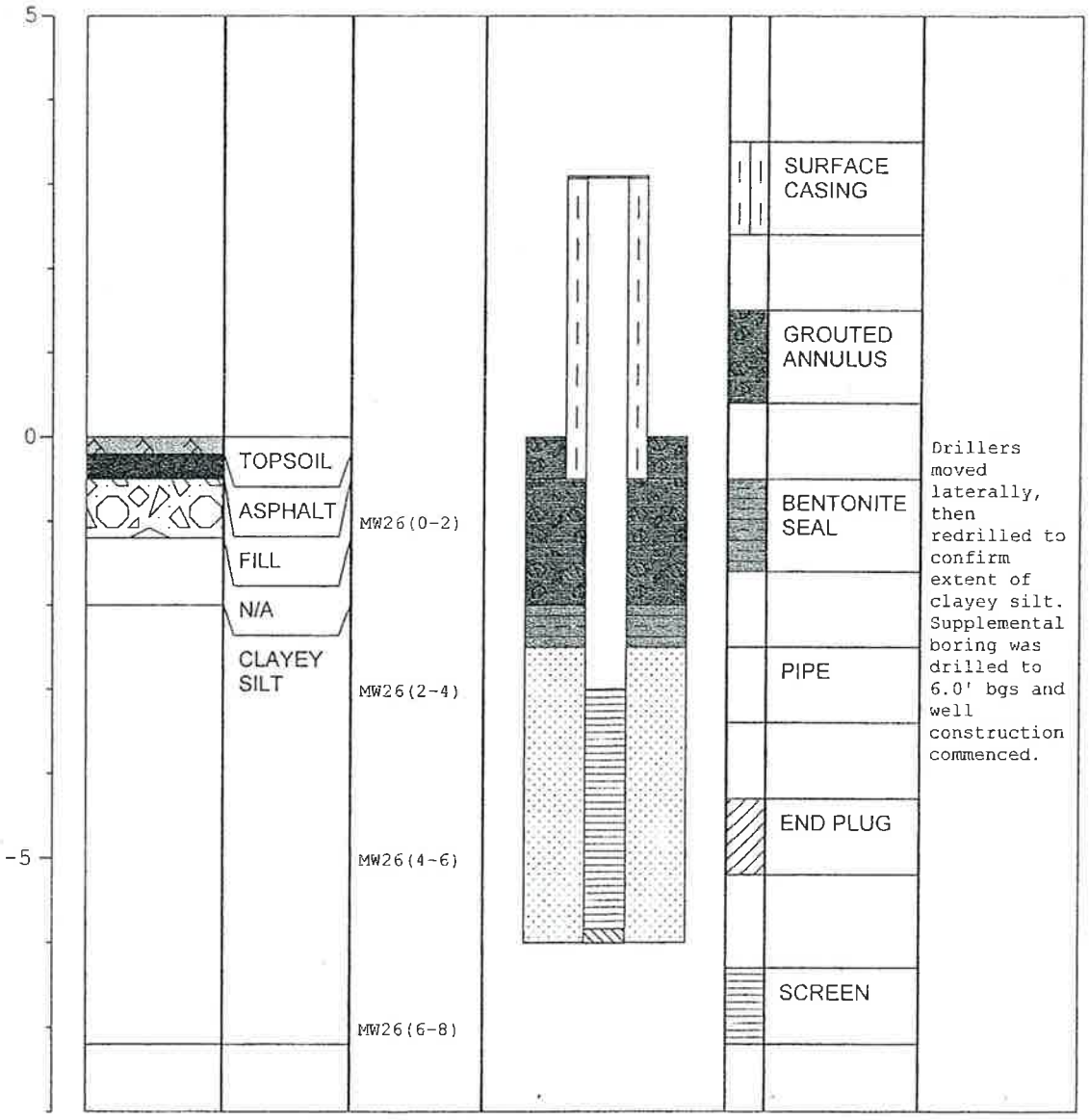
40 British American Blvd.
Latham, New York 12110

FIELD BOREHOLE LOG

MONITORING WELL NO.: **MW-26**

TOTAL DEPTH: **8.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	NYSDEC Freemans Bridge Site	DRILLING CO.:	Geologic, Inc.
SITE LOCATION:	34 Freemans Bridge Road	DRILLER:	Joseph Menzel
JOB NO.:	83060	RIG TYPE:	CME 45C
LOGGED BY:	Lucas Benedict	METHOD OF DRILLING:	8" hollow stem auger
PROJECT MANAGER:	Lisa Swan	SAMPLING METHODS:	2" OD Split spoon
DATES DRILLED:	4-26-05	HAMMER WT./DROP	140 lb., 30 in.



NOTES:

Earth Tech Northeast, Inc.

EarthTech A BETTER TOMORROW made possible

A tyco International Ltd. Company

40 British American Blvd.
Latham, New York 12110

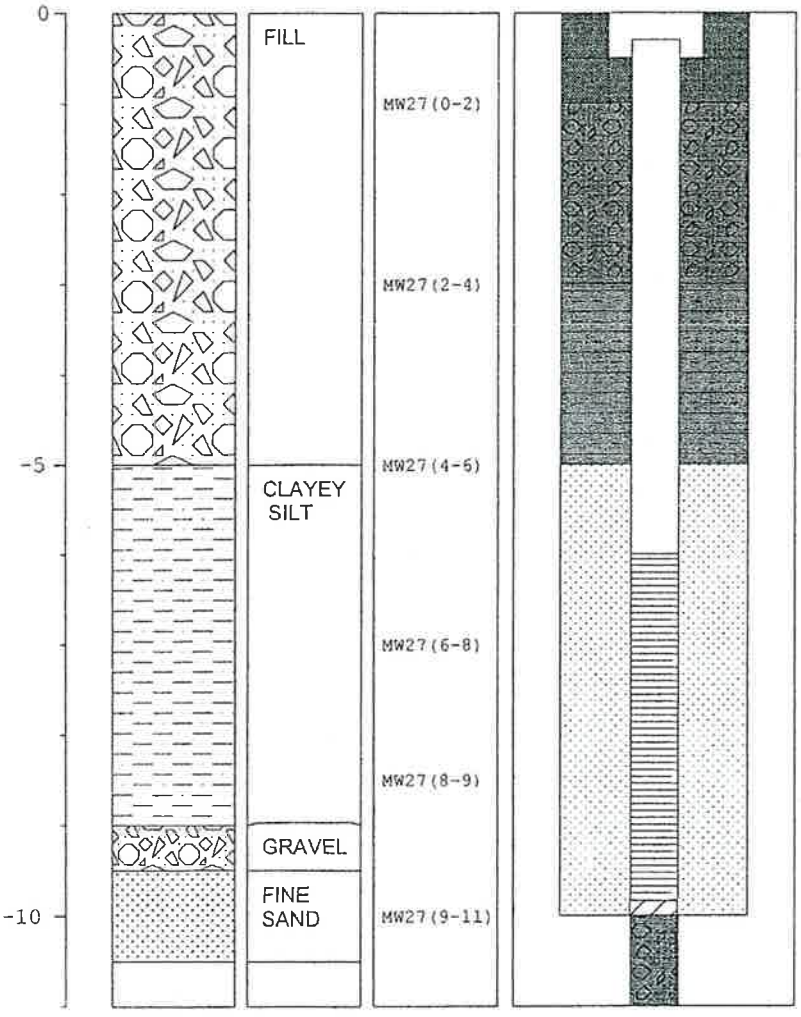
FIELD BOREHOLE LOG

MONITORING WELL NO.: **MW-27**

TOTAL DEPTH: **11.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**NYSDEC Freemans Bridge Site**	DRILLING CO.:	**Geologic, Inc.**
SITE LOCATION:	**34 Freemans Bridge Road**	DRILLER:	**Joseph Menzel**
JOB NO.:	**83060**	RIG TYPE:	**CME 45C**
LOGGED BY:	**Lucas Benedict**	METHOD OF DRILLING:	**8" hollow stem auger**
PROJECT MANAGER:	**Lisa Swan**	SAMPLING METHODS:	**2" OD Split spoon**
DATES DRILLED:	**4-27-05**	HAMMER WT./DROP	**140 lb., 30 in.**

DEPTH (BGS)	SOIL SYMBOL	SOIL TYPE	SAMP.	CONSTRUCTION PARAMETERS



NOTES:

Earth Tech Northeast, Inc.

EarthTech A BETTER TOMORROW made possible

A tyco International Ltd. Company

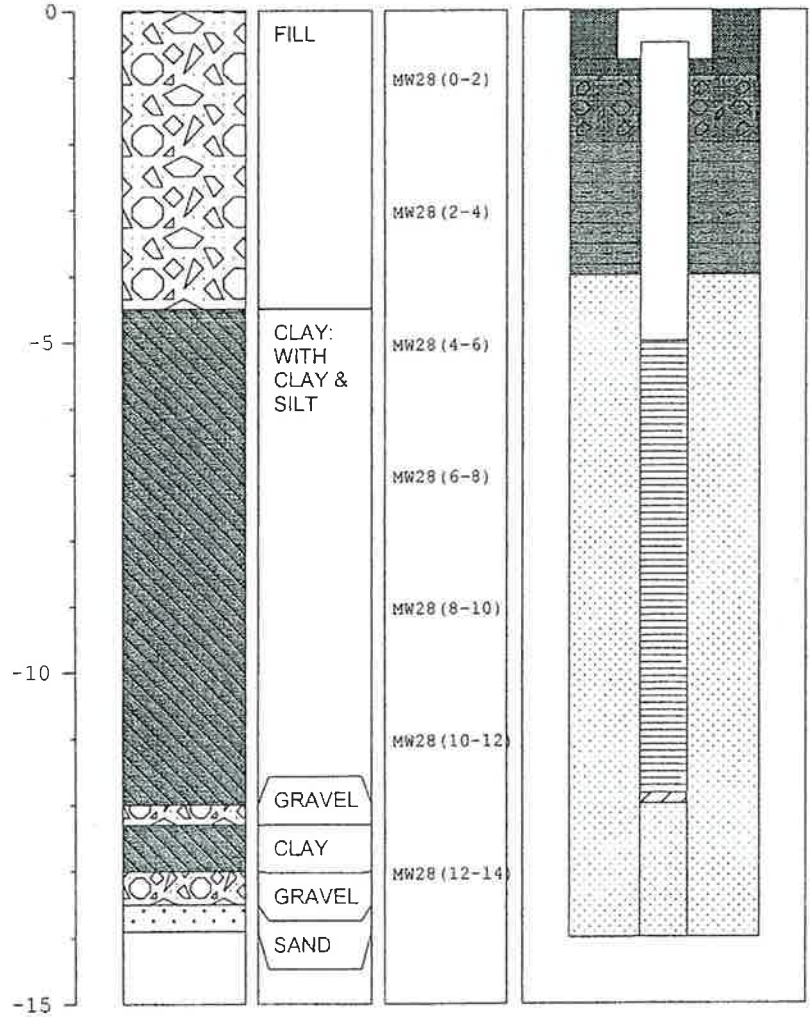
40 British American Blvd.
Latham, New York 12110

FIELD BOREHOLE LOG

MONITORING WELL NO.: **MW-28**

TOTAL DEPTH: **14.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	NYSDEC Freemans Bridge Site	DRILLING CO.:	Geologic, Inc.
SITE LOCATION:	34 Freemans Bridge Road	DRILLER:	Joseph Menzel
JOB NO.:	83060	RIG TYPE:	CME 45C
LOGGED BY:	Lucas Benedict	METHOD OF DRILLING:	8" hollow stem auger
PROJECT MANAGER:	Lisa Swan	SAMPLING METHODS:	2" OD Split spoon
DATES DRILLED:	4-27-05	HAMMER WT./DROP	140 lb., 30 in.



NOTES:

LIMITED SITE DATA
ATTACHMENT E
SLUG TEST DATA SUMMARY

APPENDIX E
34 FREEMAN'S BRIDGE ROAD SITE
SUMMARY OF SLUG TEST DATA COLLECTED FROM 5-9-2005 TO 5-20-2005

Test ID	Calculated Displacement	Percent Displaced	K Value gal/sec/ft^2
frbrmw15slug1	2.74	83.69	1.6090E-03
frbrmw15slug2	1.56	42.82	1.2770E-03
frbrmw15slug3	1.56	82.95	4.7020E-03
frbrmw15baildwn1	2.48	93.45	1.9450E-03
frbrmw15baildwn2	2.48	97.58	1.7890E-03
Average			**2.5113E-03**
frbrmw15Dslug1	6.25	18.51	1.2770E-02
frbrmw15Dslug2	6.25	13.38	5.2180E-03
frbrmw15Dbaildwn1	1.65	58.12	1.7340E-02
frbrmw15Dbaildwn2	1.65	65.70	1.7340E-02
Average			**1.3167E-02**
frbrmw20slug1	6.25	76.11	3.1450E-03
frbrmw20slug2	6.25	68.14	3.4390E-03
frbrmw20slug3	6.25	68.75	3.1070E-03
frbrmw20slug4	6.25	65.63	3.1850E-03
frbrmw20baildwn1	0.95	97.16	3.3590E-03
frbrmw20baildwn2	1.14	86.75	2.8500E-03
frbrmw20baildwn3	2.15	96.19	2.0020E-03
frbrmw20baildwn4	2.15	97.63	1.6990E-03
Average			**2.8483E-03**
frbrmw21slug1	6.25	48.91	4.3710E-03
frbrmw21slug2	6.25	52.06	4.3710E-03
frbrmw21baildwn1	0.775	91.35	1.9520E-03
frbrmw21baildwn2	1.65	65.64	1.9710E-03
Average			**3.1663E-03**
frbrmw25slug1	6.25	76.06	9.7130E-05
frbrmw25slug2	6.25	88.35	1.5390E-04
frbrmw25baildwn1	0.195	91.79	2.8900E-03
Average			**1.0470E-03**
frbrmw26slug1	1.56	93.14	1.7140E-04
frbrmw26slug2	5.71	85.87	1.2900E-05
frbrmw26baildwn1	1.65	99.45	8.1670E-06
frbrmw26baildwn2	1.65	95.64	9.3790E-05
Average			**7.1564E-05**
frbrmw27slug1	3.125	82.91	3.5910E-04
frbrmw27slug2	3.125	76.54	4.4850E-04
frbrmw27baildwn1	1.65	85.27	2.4850E-04
frbrmw27baildwn2	1.65	92.24	2.2860E-04
Average			3.2118E-04
Site-Wide Fill Averege			**1.9289E-03**

LIMITED SITE DATA
ATTACHMENT F
Summary of RI Analytical Data

TABLE 1
Nature and Extent of Contamination
Remedial Investigation - January 2000 to November 2001

WASTE (NAPL)	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	benzene	ND to 1.2	n/a	-
	chlorobenzene	ND to 13	n/a	-
	ethylbenzene	5.5 to 290	n/a	-
	toluene	1.7 to 280	n/a	-
	xylene	14 to 1,600	n/a	-
	trichloroethene	ND to 28	n/a	-
	tetrachloroethene	ND to 48	n/a	-
Semivolatile Organic Compounds (SVOCs)	bis (2- ethylyhexyl) phthalate	87 to 380	n/a	-
	di-n-butylphthalate	ND to 370	n/a	-
PCBs/Pesticides	Aroclor -1242	ND to 1,400	50	1 of 3 samples
	Aroclor - 1248	ND to 610	50	2 of 3
	Aroclor - 1254	ND to 1,500	50	1 of 3
	Aroclor - 1260	ND to 570	50	1 of 3
Inorganic Compounds	lead	102 to 285	n/a	-
	chromium	29 to 105	n/a	-

SURFACE SOIL	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	methylene chloride	ND to 0.34	0.1	2 of 14 locations
	1,2-dichloroethene	ND to 0.56	0.3	1 of 14
	trichloroethene	ND to 1.3	0.7	1 of 14
	benzene	ND to 3.8	0.06	1 of 14
	toluene	ND to 88	1.5	1 of 14

SURFACE SOIL	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
	xylenes	ND to 300	1.2	1 of 14
	chlorobenzene	ND to 38	1.7	1 of 14
	ethylbenzene	ND to 88	5.5	1 of 14
	tetrachloroethene	ND to 7.4	1.4	1 of 14
	TOTAL VOCs	**ND to 533**	**10**	**1 of 14 locations**
Semivolatile Organic Compounds (SVOCs)	benzo(a)anthracene	ND to 6.8	0.224	8 of 19 locations
	benzo(b)fluoranthene	ND to 4.8	0.224	8 of 19
	benzo(k)fluoranthene	ND to 7.1	0.224	8 of 19
	benzo(a)pyrene	ND to 6.3	0.061	10 of 19
	dibenzo(ah)anthracene	ND to 1.9	0.014	9 of 19
	chrysene	ND to 7.1	0.4	7 of 19
	1,3-dichlorobenzene	ND to 4.9	1.6	1 of 19
	1,4-dichlorobenzene	ND to 11.0	8.5	1 of 19
	1,2,4-trichlorobenzene	ND to 9.6	3.4	1 of 19
	4-methylphenol	ND to 2.9	0.9	1 of 19
	2-methyphenol	ND to 0.35	0.1	1 of 19
	naphthalene	ND to 28	13.0	1 of 19
	indeno(1,2,3-cd)pyrene	ND to 4.6	3.2	1 of 19
	TOTAL SVOCs	**ND to 149**	**500**	**0 of 19**
	TOTAL Carc. SVOCs	**ND to 38.6**	**10**	**2 of 19**
PCBs	**TOTAL PCBs**	**ND to 1,100**	**1**	**17 of 18 locations**
Inorganic Compounds *ranges for exceedances only	arsenic	10.2 to14.1	7.5/SB	2 of 19 locations
	barium	361 to 618	300	4 of 19
	beryllium	0.31 to 0.60	0.16	19 of 19
	cadmium	1.5 to 5.3	10.0	5 of 19
	chromium	10.4 to 962	50	17 of 19

SURFACE SOIL	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
	copper	27.6 to 701	25	14 of 19
	lead	895 to 5140	1200	3 of 19
	nickel	15.3 to 29	13	12 of 19
	zinc	46.7 to 1,710	20	19 of 19

SUBSURFACE SOIL	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	methylene chloride	ND to 5.3	0.1	1 of 43 locations
	1,2-dichloroethene	ND to 29	0.3	1 of 43
	trichloroethene	ND to 230	0.7	1 of 43
	benzene	ND to 14	0.06	3 of 43
	toluene	ND to 670	1.5	4 of 43
	xylenes	ND to 3,700	1.2	6 of 43
	chlorobenzene	ND to 23	1.7	3 of 43
	ethylbenzene	ND to 560	5.5	4 of 43
	tetrachloroethene	ND to 250	1.4	3 of 43
	chloroform	ND to 58	0.3	1 of 43
	1,2-dichloroethane	ND to 2	0.1	1 of 43
	TOTAL VOCs	**ND to 5,542**	**10**	**5 of 43 locations**
Semivolatile Organic Compounds (SVOCs)	benzo(a)anthracene	ND to 310	0.224	21 of 45 locations
	benzo(b)fluoranthene	ND to 300	0.224	22 of 45
	benzo(k)fluoranthene	ND to 210	0.224	23 of 45
	benzo(a)pyrene	ND to 270	0.061	26 of 45
	dibenzo(ah)anthracene	ND to 64	.014	22 of 45
	chrysene	ND to 230	0.4	18 of 45
	1,3-dichlorobenzene	ND to 6.2	1.6	1 of 45
	1,4-dichlorobenzene	ND to 22	8.5	1 of 45

SUBSURFACE SOIL	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
Semivolatile Organic Compounds (SVOCs)	1,2,4-trichlorobenzene	ND to 130	3.4	2 of 45
	4-methylphenol	ND to 46	0.9	5 of 45
	2-methyphenol	ND to 35	0.1	6 of 45
	naphthalene	ND to 150	13	5 of 45
	2-methylnaphthalene	ND to 77	36.4	2 of 45
	indeno(1,2,3-cd)pyrene	ND to 150	3.2	8 of 45
	hexachlorobenzene	ND to 1.7	0.41	2 of 45
	phenanthrene	ND to 833	50	4 of 45
	fluoranthene	ND to 840	50	4 of 45
	pyrene	ND to 550	50	4 of 45
	2,4-dimethylphenol	ND to 300	0.1	11 of 45
	phenol	ND to 19	0.03	8 of 45
	dibenzofuran	ND to 150	6.2	6 of 45
	TOTAL SVOCs	**ND to 4,918**	**500**	**5 of 45 locations**
	TOTAL Carc. SVOCS	**ND to 412**	**10**	**18 of 45 locations**
PCBs	**TOTAL PCBs**	**ND to 1,860**	**10**	**16 of 44 locations**
Inorganic Compounds	arsenic	7.7 to 51	7.5/SB	13 of 44 locations
	barium	329 to 1,460	300	8 of 44
	beryllium	0.2 to 1.4	0.16	44 of 44
	cadmium	1.1 to 25.7	10.0	9 of 44
	chromium	69.8 to 1,130	50	8 of 44
	copper	25.4 to 420	25	24 of 44
	lead	2,140 to 6,410	1200	5 of 44
	nickel	13.3 to 51.3	13	36 of 44
	zinc	32.7 to 1,740	20	44 of 44
	mercury	53.5 to 116	2	2 of 44

SEDIMENTS	Contaminants of Concern	Concentration Range Detected (ppm)[a]	SCG[b] (ppm)[a]	Frequency of Exceeding SCG
Volatile Organic	tetrachlorethene	1.5	0.8	1 of 6 locations
	vinyl chloride	0.7	0.07	1 of 6
Semivolatile Organic Compounds (SVOCs)	phenanthrene	ND to 240	120	1 of 6 locations
	benzo(a)anthracene	ND to 120	12	1 of 6
	chrysene	ND to 130	1.3	1 of 6
	benzo(b)fluoranthene	ND to 110	1.3	1 of 6
	benzo(k)fluoranthene	ND to 79	1.3	1 of 6
	benzo(a)pyrene	ND to 90	1.3	1 of 6
	indeno(1,2,3-cd)pyrene	ND to 63	1.3	1 of 6
PCB/Pesticides	4,4"-DDE	0.44	0.01	1 of 6 locations
	Aroclor-1248	.067	0.0008	1 of 6
Inorganic Compounds	copper	7 to 41	LEL[c] - 16	2 of 3 locations
			SEL[c] - 110	0 of 3 locations
	iron	10,200 to 29,900	LEL - 20,000	2 of 3
			SEL - 4%	0 of 3
	manganese	270 to 1,020	LEL - 460	2 of 3
			SEL - 1,100	0 of 3
	mercury	ND to 0.28	LEL - 0.15	1 of 3
			SEL - 2.0	0 of 3
	zinc	39.6 to 202	LEL - 120	2 of 3
			SEL - 820	0 of 3

GROUNDWATER Shallow Zone	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	vinyl chloride	ND to 69	2	2 of 13 locations
	methylene chloride	ND to 110	5	1 of 13
	acetone	ND to 290	50	2 of 13

GROUNDWATER Shallow Zone	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	chloroform	ND to 200	7	1 of 13
	trichloroethene	ND to 96	5	1 of 13
	benzene	ND to 120	1	4 of 13
	tetrachloroethene	ND to 82	5	1 of 13
	toluene	ND to 2,400	5	1 of 13
	chlorobenzene	ND to 26	5	3 of 13
	ethylbenzene	ND to 570	5	2 of 13
	xylene	ND to 3,500	5	1 of 13
	1,2-dichloroethene	ND to 1,400	5	2 of 13
	chloromethane	ND to 20	5	1 of 13
Semivolatile Organic Compounds (SVOCs)	benzo(b)fluoranthene	ND to 11	0.002	3 of 13 locations
	benzo(k)fluoranthene	ND to 10	0.002	4 of 13
	benzo(a)anthracene	ND to 15	0.002	3 of 13
	chrysene	ND to 15	0.002	3 of 13
	benzo(a)pyrene	ND to 10	0.002	3 of 13
	indeno(1,2,3-cd)pyrene	ND to 7	0.002	3 of 13
	phenol	ND to 3	1	1 of 13
	naphthalene	ND to 210	10	3 of 13
	acenaphthene	ND to 26	20	1 of 13
	phenanthrene	ND to 54	50	1 of 13
	2-methyphenol	ND to 1,900	1	1 of 13
	4-methylphenol	ND to 9,200	1	1 of 13
	2,4-dimethylphenol	ND to 20,000	1	2 of 13
PCB/Pesticides	alpha-BHC	ND to 0.18	0.01	2 of 13 locations
	beta-BHC	ND to 1.8	0.04	2 of 13
	4,4"-DDE	ND to 0.77	0.2	1 of 13

GROUNDWATER Shallow Zone	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
PCB/Pesticides	gamma-chlordane	ND to 0.12	0.05	1 of 13
	Aroclor-1242	ND to 3	0.09	1 of 13
	Aroclor-1248	ND to 16	0.09	1 of 13
	Aroclor-1254	ND to 32	0.09	4 of 13
	Aroclor-1260	ND to 14	0.09	3 of 13
Inorganic Compounds *ranges for exceedances only	antimony	3.1 to 26.4	3	8 of 13 locations
	arsenic	25.8 to 142	25	4 of 13
	barium	1,890 to 3,130	1000	2 of 13
	beryllium	3.4 to 41.9	4	4 of 13
	cadmium	5.5 to 23.9	5	3 of 13
	chromium	58 to 1,010	50	5 of 13
	copper	247 to 1,770	200	3 of 13
	lead	28.7 to 2,470	25	12 of 13
	mercury	1.4 to 3.2	0.7	2 of 13
	nickel	206 to 2,260	100	3 of 13
	thallium	5.5 to 911	0.5	11 of 13
	zinc	2,380 to 5,120	2000	2 of 13

GROUNDWATER Deep Zone	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	vinyl chloride	ND to 69	2	3 of 13 locations
	methylene chloride	ND to 110	5	1 of 13
	acetone	ND to 290	50	2 of 13
	chloroform	ND to 200	7	1 of 13
	trichloroethene	ND to 96	5	1 of 13
	benzene	ND to 120	1	3 of 13
	tertrachloroethene	ND to 82	5	1 of 13

GROUNDWATER Deep Zone	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
Volatile Organic Compounds (VOCs)	toluene	ND to 2,400	5	2 of 13
	chlorobenzene	ND to 66	5	2 of 13
	ethylbenzene	ND to 570	5	3 of 13
	xylene	ND to 3,500	5	2 of 13
	1,2-dichloroethene	ND to 1,400	5	4 of 13
	1,2-dichlorobenzene	ND to 4	3	1 of 13
	1,3-dichlorobenzene	ND to 4	3	1 of 13
	1,4-dichlorobenzene	ND to 7	3	1 of 13
Semivolatile Organic Compounds (SVOCs)	phenol	ND to 3,100	1	2 of 13 locations
	2-methylphenol	ND to 1,900	1	2 of 13
	4-methyphenol	ND to 9,200	1	2 of 13
	2,4-dimethylphenol	ND to 20,000	1	2 of 13
	2,4-dichlorophenol	ND to 4	0.3	1 of 13
	2,4,5-trichlorophenol	ND to 4	1	1 of 13
	naphthalene	ND to 210	10	2 of 13
	bis(2-ethylhexyl)phthalate	ND to 69	5	1 of 13
	benzo(k)fluoranthene	ND to 1	0.002	1 of 13
PCB/Pesticides	beta-BHC	ND to 1.8	0.04	1 of 13 locations
	4,4'-DDE	ND to 0.77	0.2	2 of 13
	Aroclor-1242	ND to 38	0.09	2 of 13
	Aroclor-1254	ND to 32	0.09	1 of 13
	Aroclor-1260	ND to 14	0.09	2 of 13
Inorganic Compounds ***ranges for exceedances only**	antimony	3.1 to 12.2	3	6 of 13 locations
	arsenic	25.8 to 64.9	25	4 of 13
	beryllium	6.4	3	1 of 13
	cadmium	5.5	5	1 of 13
	chromium	58 to 145	50	4 of 13

GROUNDWATER Deep Zone	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
Inorganic Compounds	copper	247	200	1 of 13
	lead	43.1 to 1,030	25	5 of 13
	nickel	206	100	1 of 13
	thallium	9.2 to 103	0.5	5 of 13

SURFACE WATER	Contaminants of Concern	Concentration Range Detected (ppb)[a]	SCG[b] (ppb)[a]	Frequency of Exceeding SCG
Volatile Organic	tetrachloroethene	ND to 18	0.7	2 of 5 locations
Inorganic Compounds	iron	ND to 364	300	1 of 5 locations

[a] ppb = parts per billion, which is equivalent to micrograms per liter, ug/L, in water;
ppm = parts per million, which is equivalent to milligrams per kilogram, mg/kg, in soil;
ug/m^3 = micrograms per cubic meter

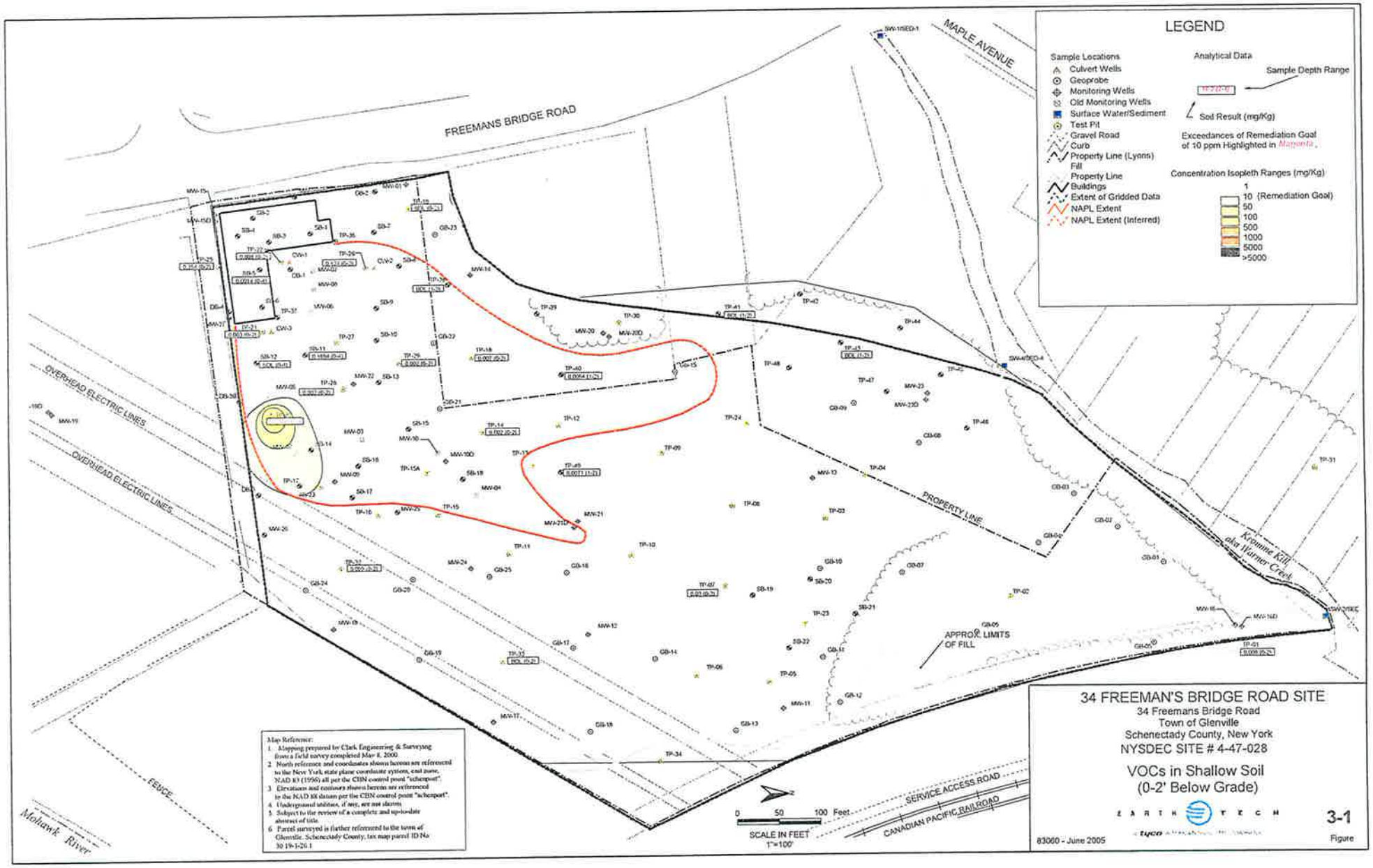
[b] SCG = standards, criteria, and guidance values;

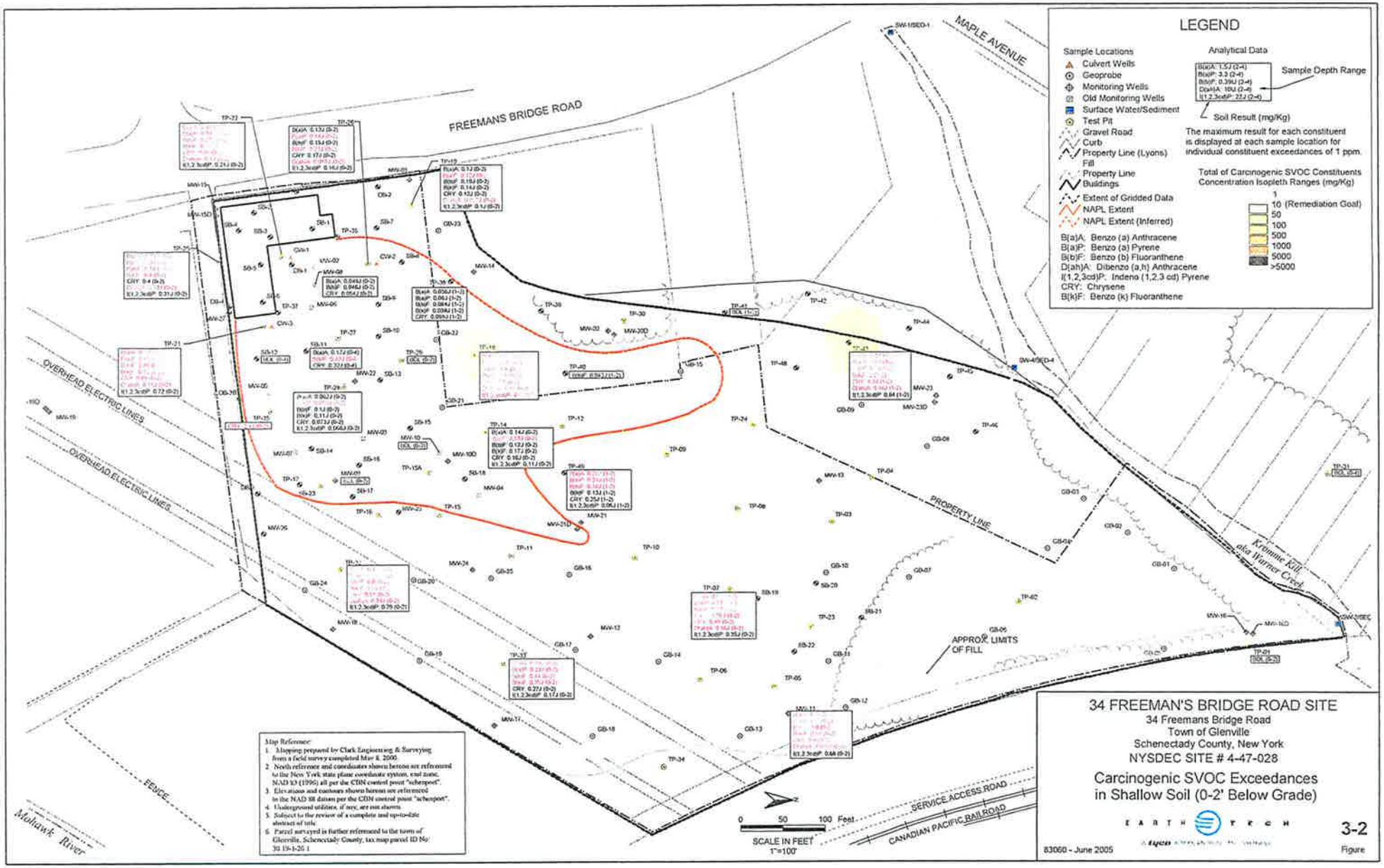
[c] LEL = Lowest Effects Level and SEL = Severe Effects Level. A sediment is considered to be contaminated if either of these criteria is exceeded. If both criteria are exceeded, the sediment is severely impacted. If only the LEL is exceeded, the impact is considered to be moderate.

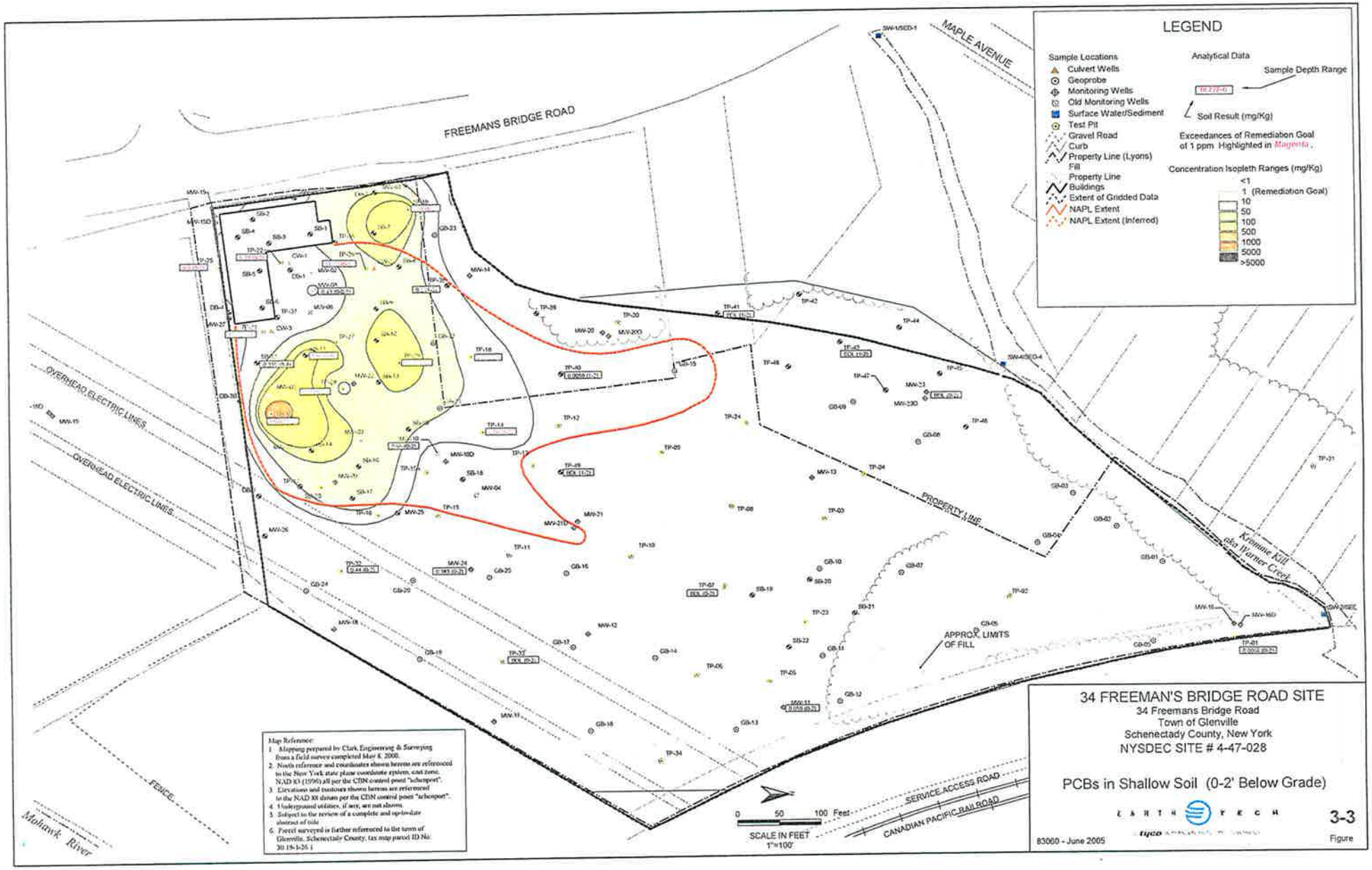
SB = site background levels determined from sampling

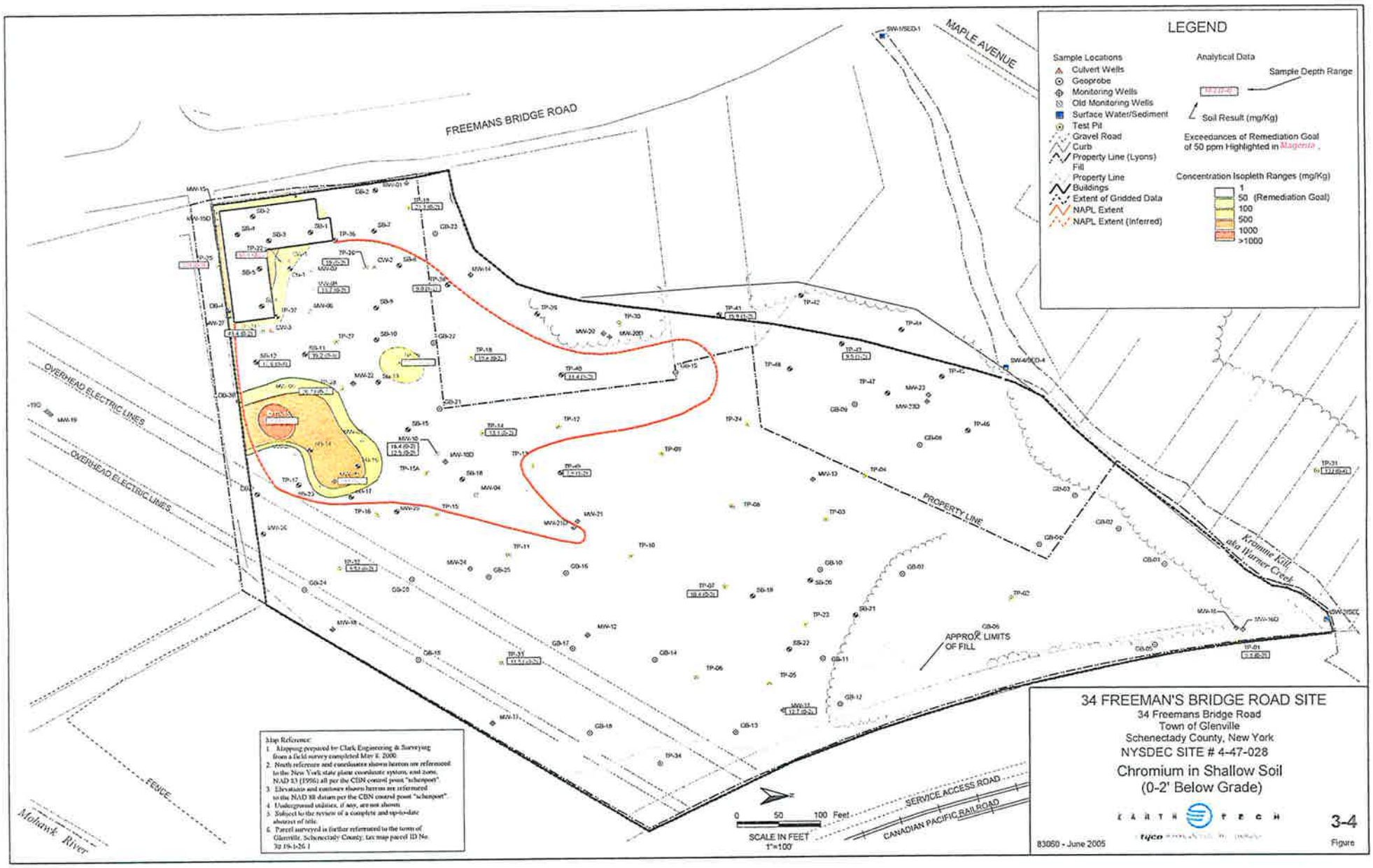
ND = Not Detected

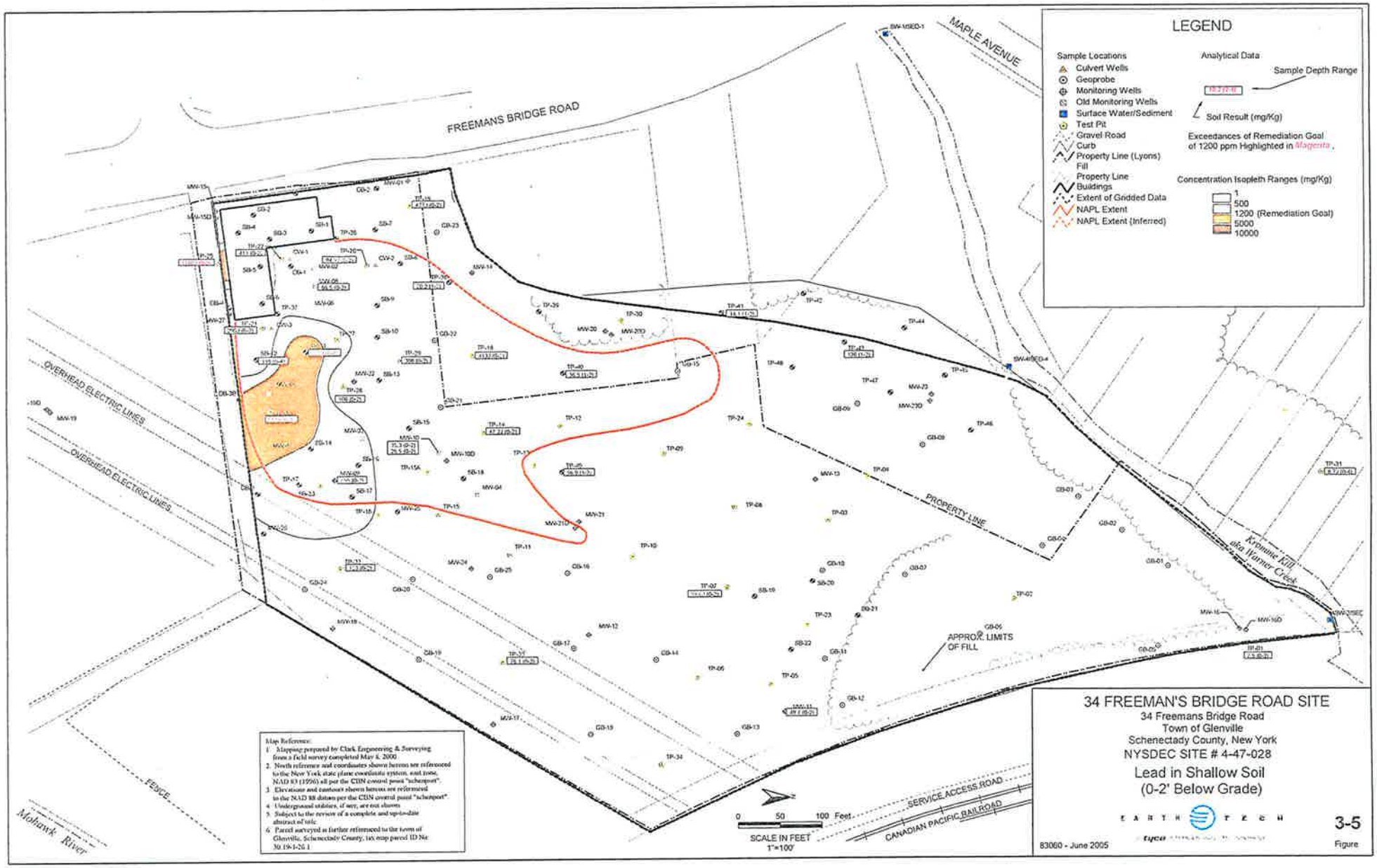
LIMITED SITE DATA
ATTACHMENT G
CONTANMINANT DISTRIBUTION MAPPING FOR SITE SPECIFIC CONTANMINANTS OF CONCERN IN SITE – SURFACE AND SUBSURFACE SOILS

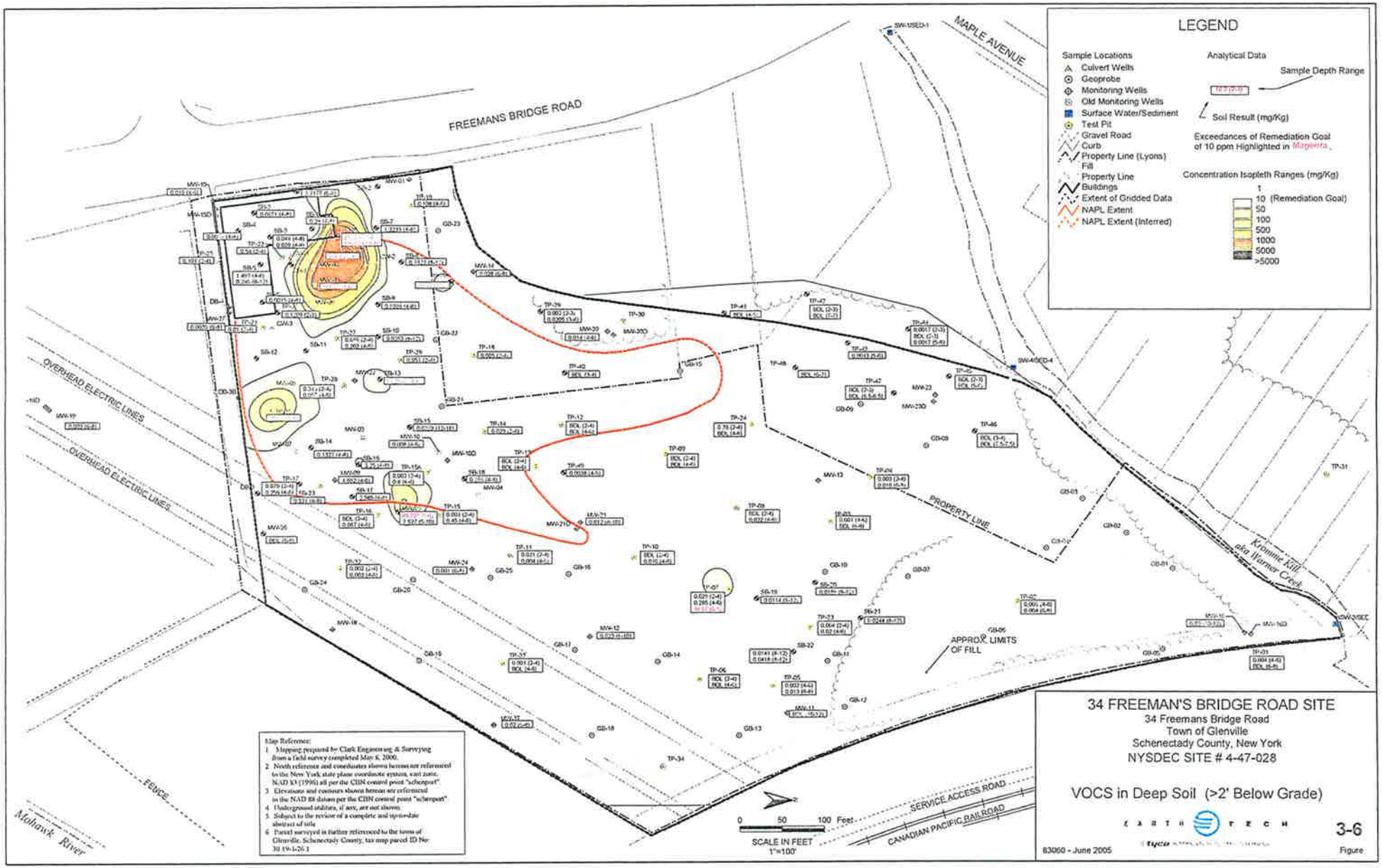

LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons) Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 10 ppm Highlighted in Magenta
Concentration Isopleth Ranges (mg/Kg)
1
10 (Remediation Goal)
50
100
500
1000
5000
>5000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
0 50 100 Feet
SCALE IN FEET
1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CEN control point "schenpost".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CEN control point "schenpost".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
VOCs in Shallow Soil
(0-2' Below Grade)
EARTH TECH
tyco
83060 - June 2005
3-1
Figure

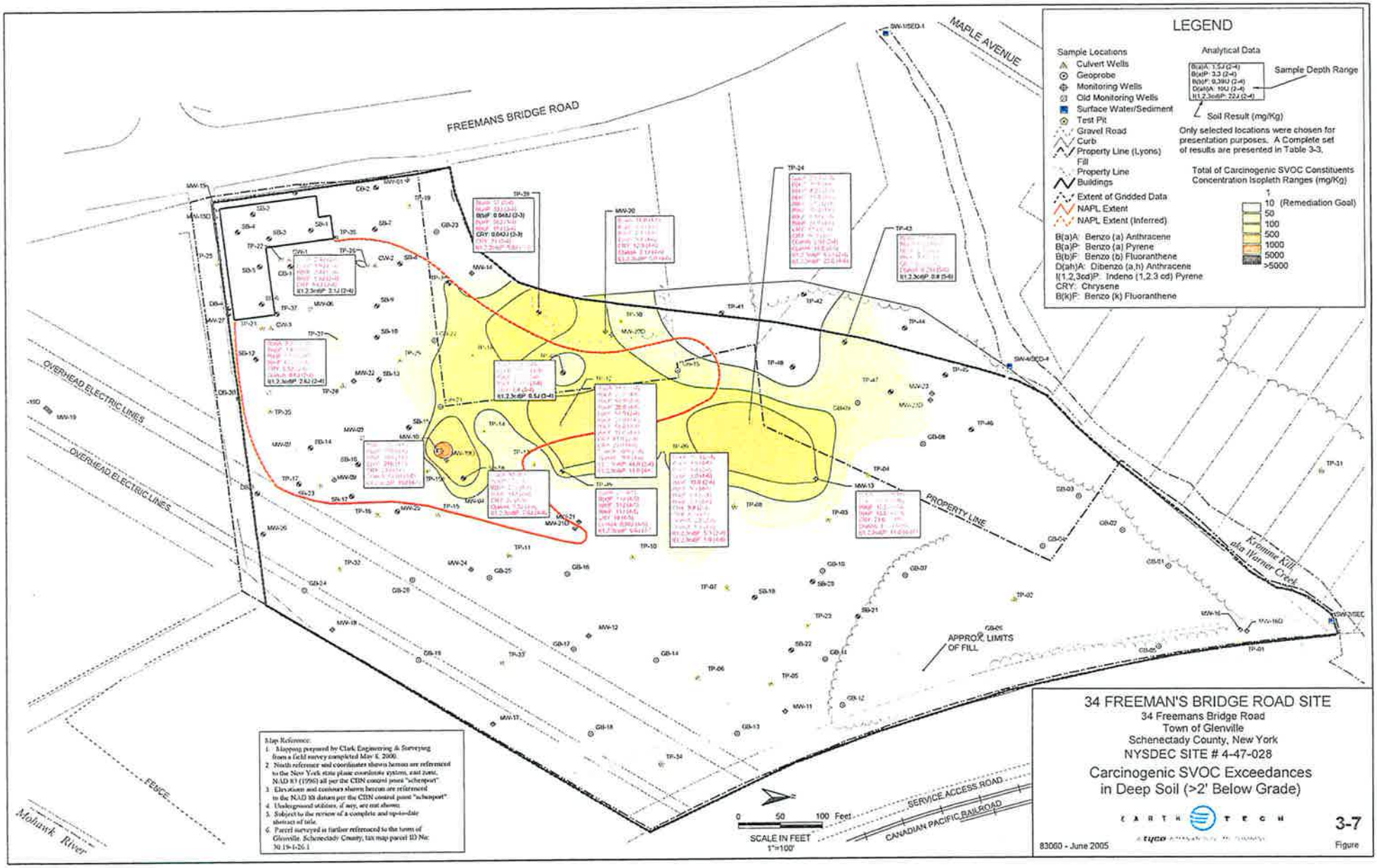

LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
The maximum result for each constituent is displayed at each sample location for individual constituent exceedances of 1 ppm.
Total of Carcinogenic SVOC Constituents Concentration Isopleth Ranges (mg/Kg)
1
10 (Remediation Goal)
50
100
500
1000
5000
>5000
B(a)A: Benzo (a) Anthracene
B(a)P: Benzo (a) Pyrene
B(b)F: Benzo (b) Fluoranthene
D(ah)A: Dibenzo (a,h) Anthracene
I(1,2,3cd)P: Indeno (1,2,3 cd) Pyrene
CRY: Chrysene
B(k)F: Benzo (k) Fluoranthene
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
0 50 100 Feet
SCALE IN FEET 1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2005.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CDN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CDN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No: 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Carcinogenic SVOC Exceedances in Shallow Soil (0-2' Below Grade)
EARTH TECH
A Tyco International Company
83060 - June 2005
3-2
Figure

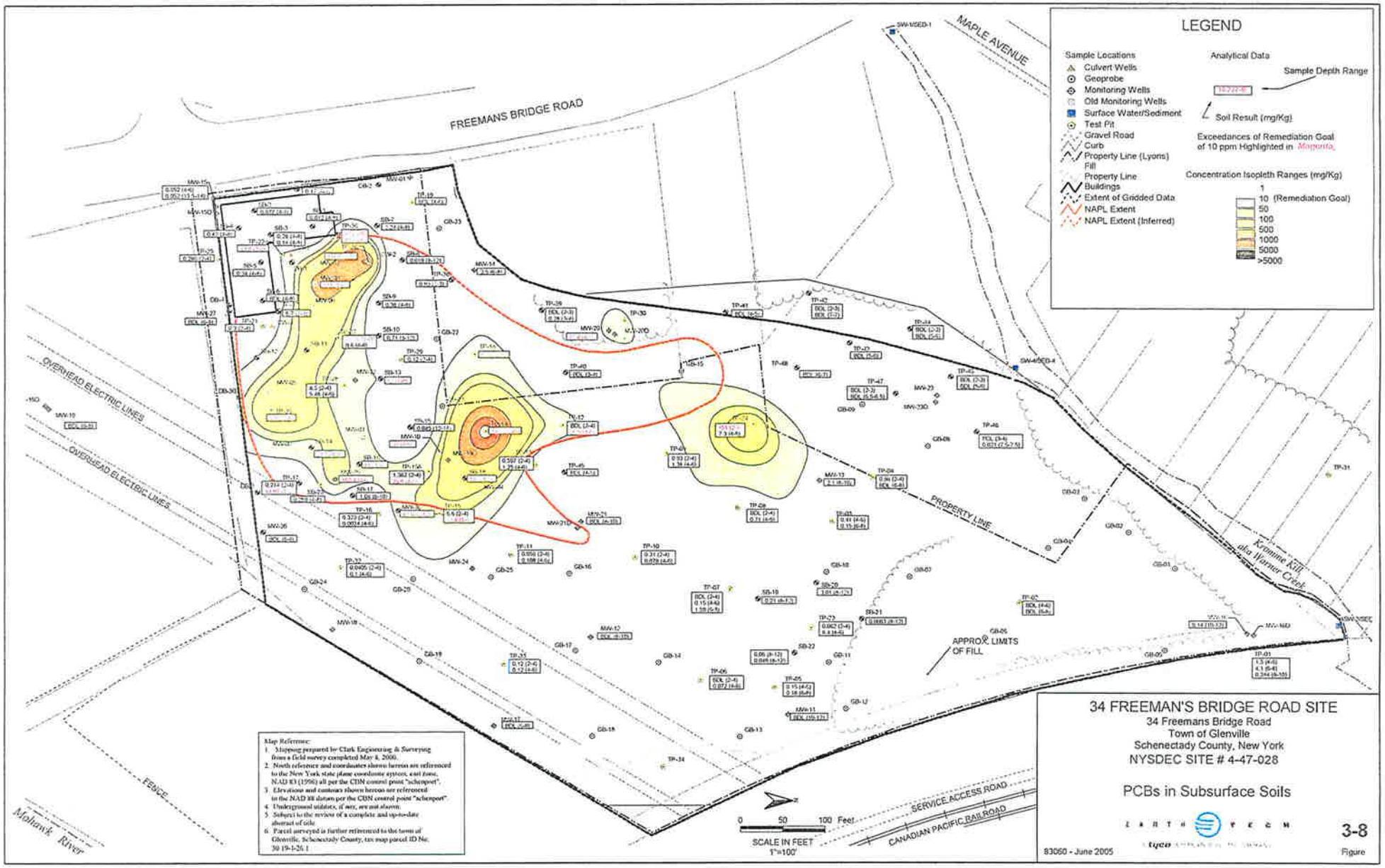

LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 1 ppm Highlighted in Magenta.
Concentration Isopleth Ranges (mg/Kg)
<1
1 (Remediation Goal)
10
50
100
500
1000
5000
>5000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
Kromme Kill aka Warner Creek
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAIL ROAD
FENCE
Mohawk River
0 50 100 Feet
SCALE IN FEET
1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CDN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CDN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No: 30.18-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
PCBs in Shallow Soil (0-2' Below Grade)
EARTH TECH
tyco
83060 - June 2005
3-3
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 50 ppm Highlighted in Magenta
Concentration Isopleth Ranges (mg/Kg)
1
50 (Remediation Goal)
100
500
1000
>1000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 6, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 30.19-1-26.1
0 50 100 Feet
SCALE IN FEET
1"=100'
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Chromium in Shallow Soil
(0-2' Below Grade)
EARTH TECH
tyco
83060 - June 2005
3-4
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 1200 ppm Highlighted in Magenta.
Concentration Isopleth Ranges (mg/Kg)
1
500
1200 (Remediation Goal)
5000
10000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
0 50 100 Feet
SCALE IN FEET 1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CGN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CGN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the revision of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Lead in Shallow Soil
(0-2' Below Grade)
EARTH TECH
tyco
83060 - June 2005
3-5
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 10 ppm Highlighted in Magenta.
Concentration Isopleth Ranges (mg/Kg)
1
10 (Remediation Goal)
50
100
500
1000
5000
>5000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAIL ROAD
Kromme Kill aka Warner Creek
FENCE
Mohawk River
0 50 100 Feet
SCALE IN FEET
1"=100'
Map Reference:
1 Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2 North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "scheepst"
3 Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "scheepst"
4 Underground utilities, if any, are not shown.
5 Subject to the review of a complete and up-to-date abstract of title
6 Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
VOCS in Deep Soil (>2' Below Grade)
EARTH TECH
A Tyco Company
83060 - June 2005
3-6
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Only selected locations were chosen for presentation purposes. A Complete set of results are presented in Table 3-3.
Total of Carcinogenic SVOC Constituents Concentration Isopleth Ranges (mg/Kg)
10 (Remediation Goal)
50
100
500
1000
5000
>5000
B(a)A: Benzo (a) Anthracene
B(a)P: Benzo (a) Pyrene
B(b)F: Benzo (b) Fluoranthene
D(ah)A: Dibenzo (a,h) Anthracene
I(1,2,3cd)P: Indeno (1,2,3 cd) Pyrene
CRY: Chrysene
B(k)F: Benzo (k) Fluoranthene
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
0 50 100 Feet
SCALE IN FEET 1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CDN control point "schenport"
3. Elevations and contours shown hereon are referenced to the NAD 83 datum per the CDN control point "schenport"
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No: 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Carcinogenic SVOC Exceedances in Deep Soil (>2' Below Grade)
EARTH TECH
tyco
83060 - June 2005
3-7
Figure



34 FREEMAN'S BRIDGE ROAD SITE

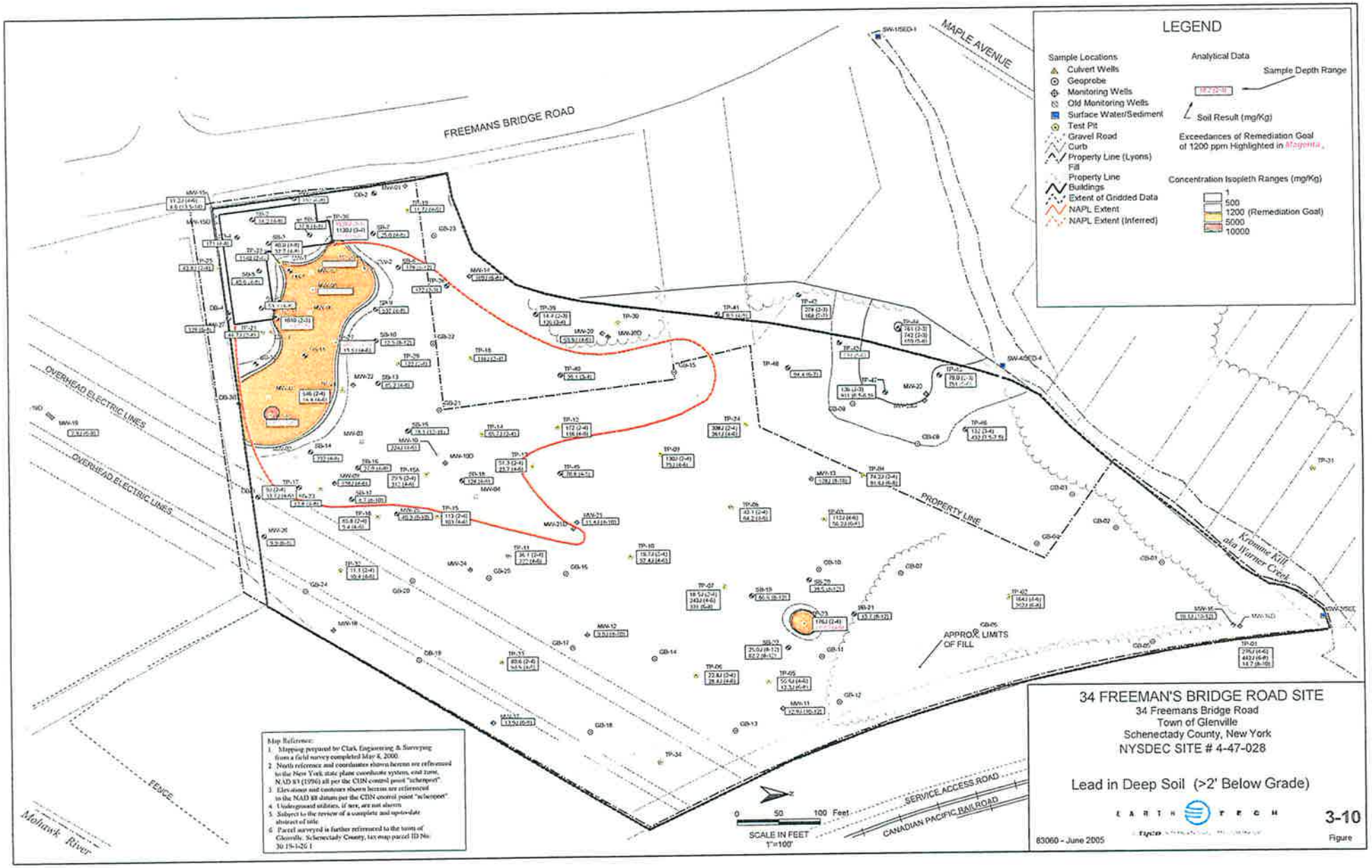
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028

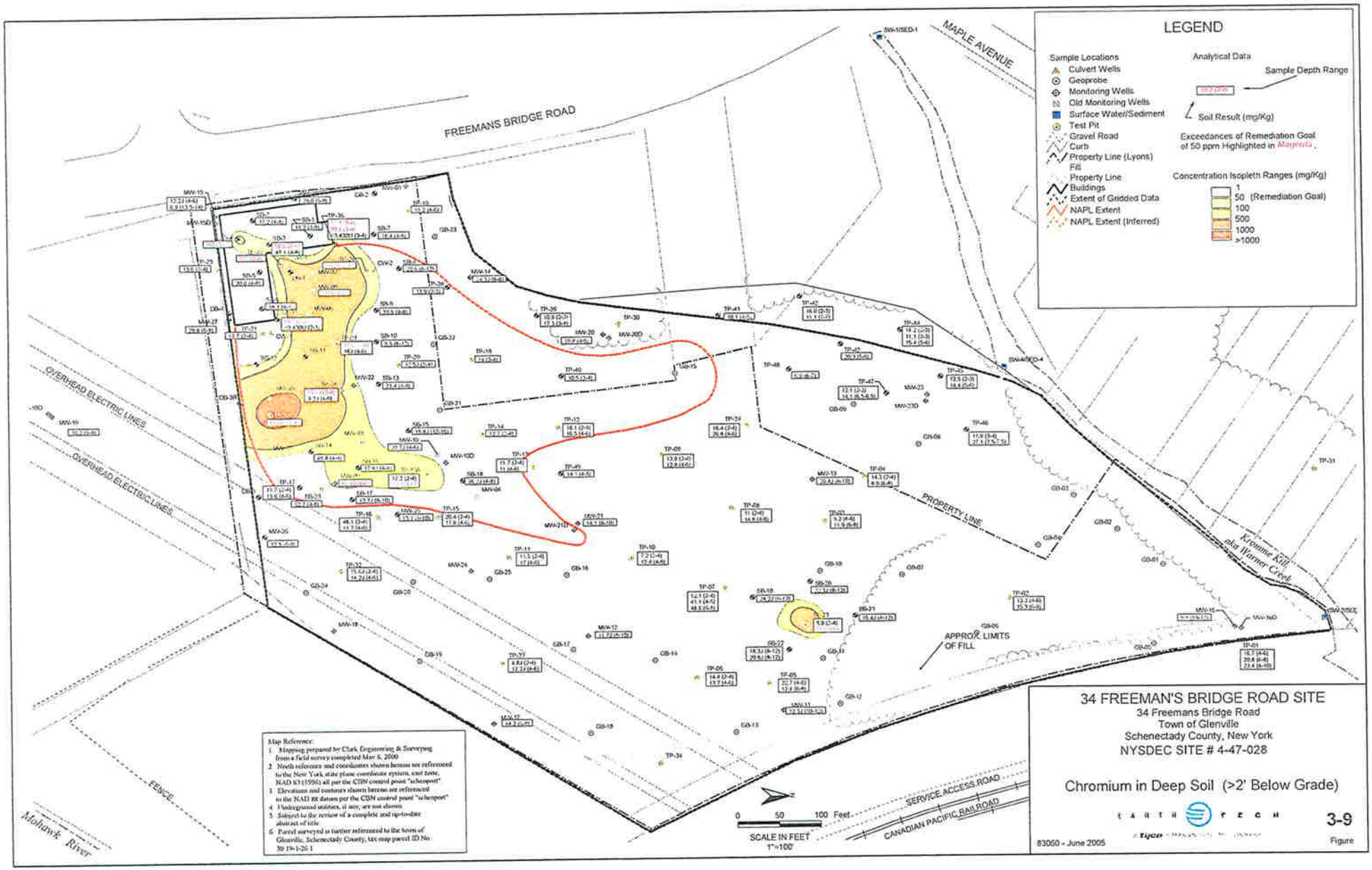
PCBs in Subsurface Soils

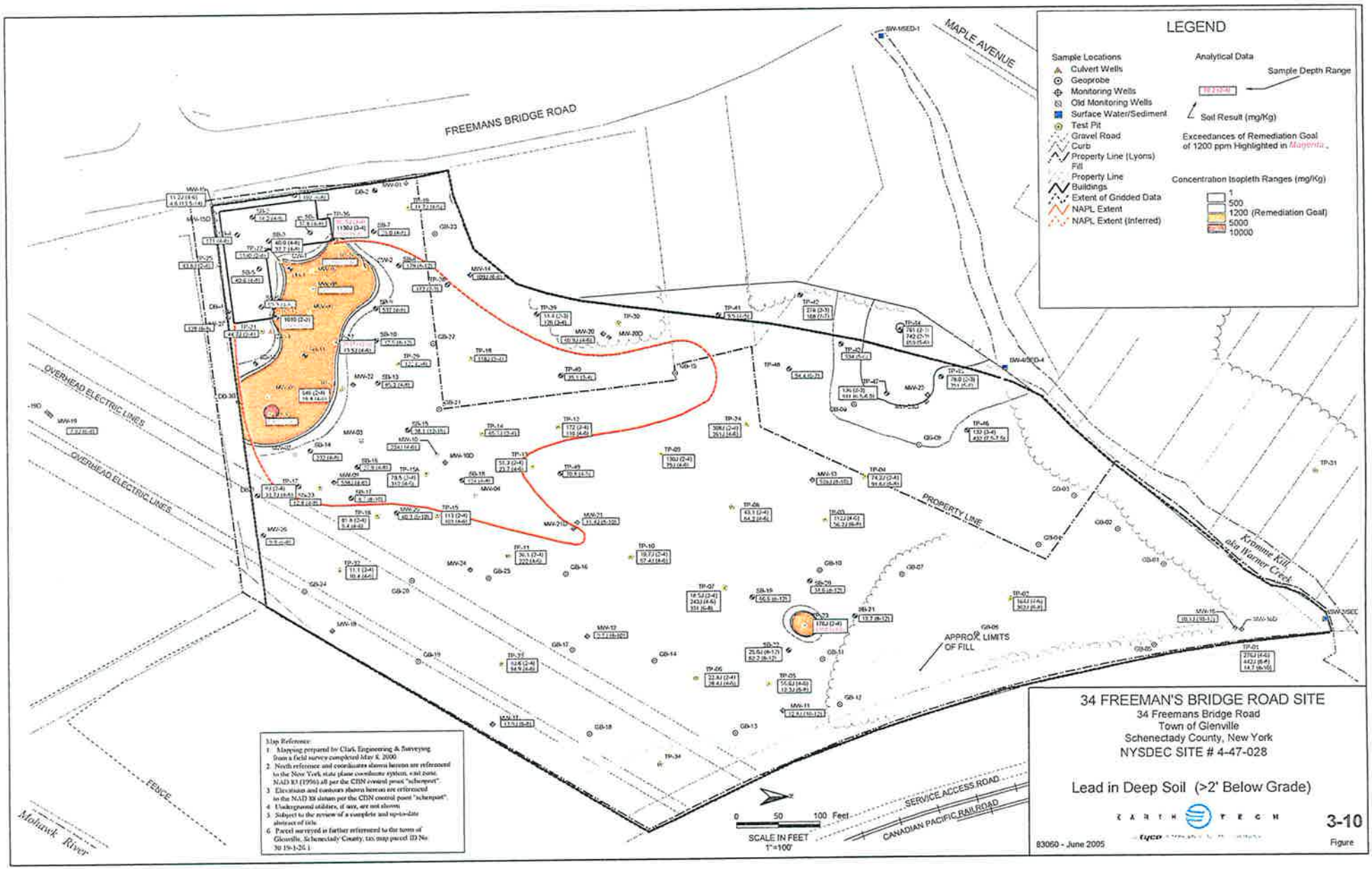
EARTH TECH
tyco

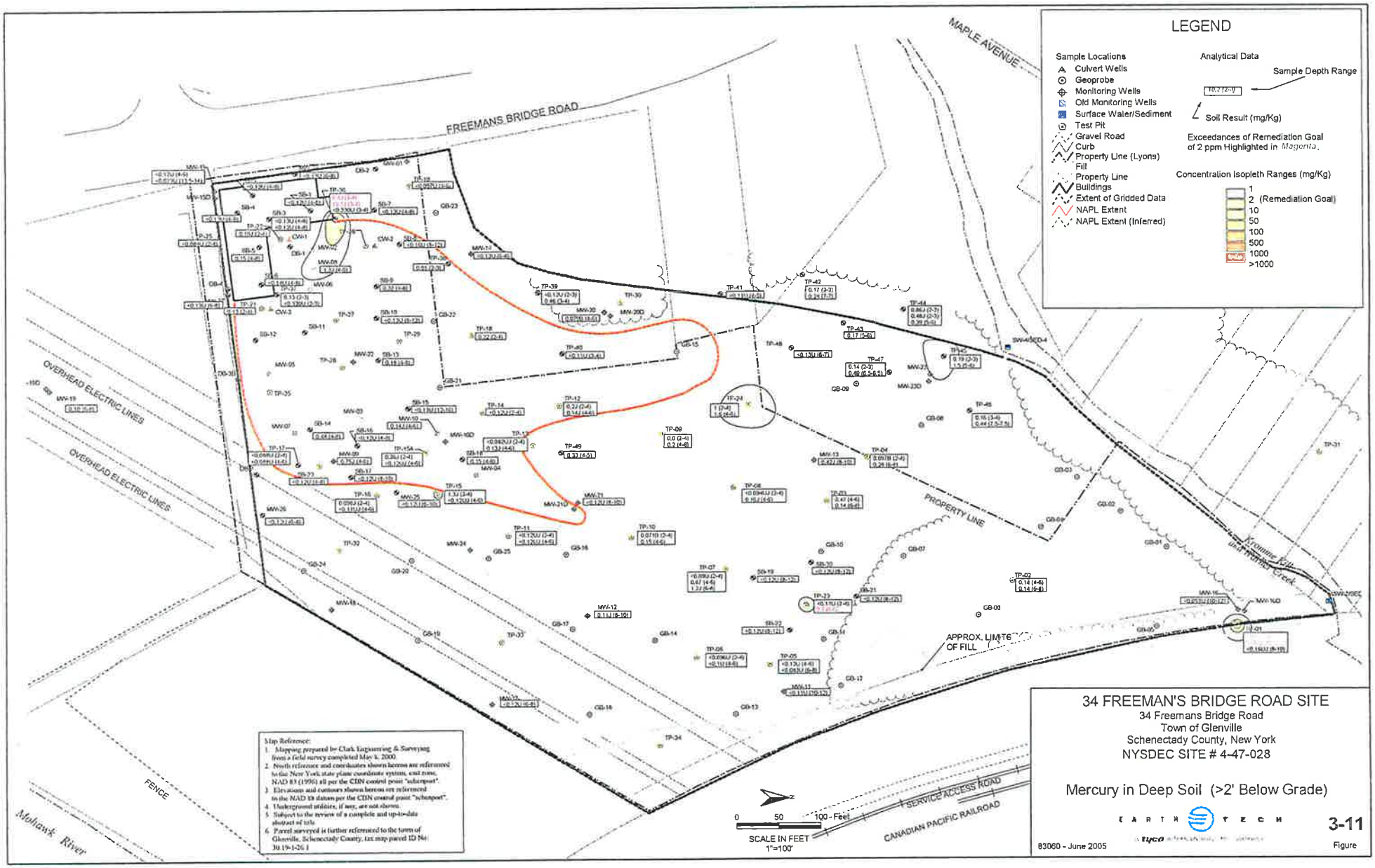
83060 - June 2005

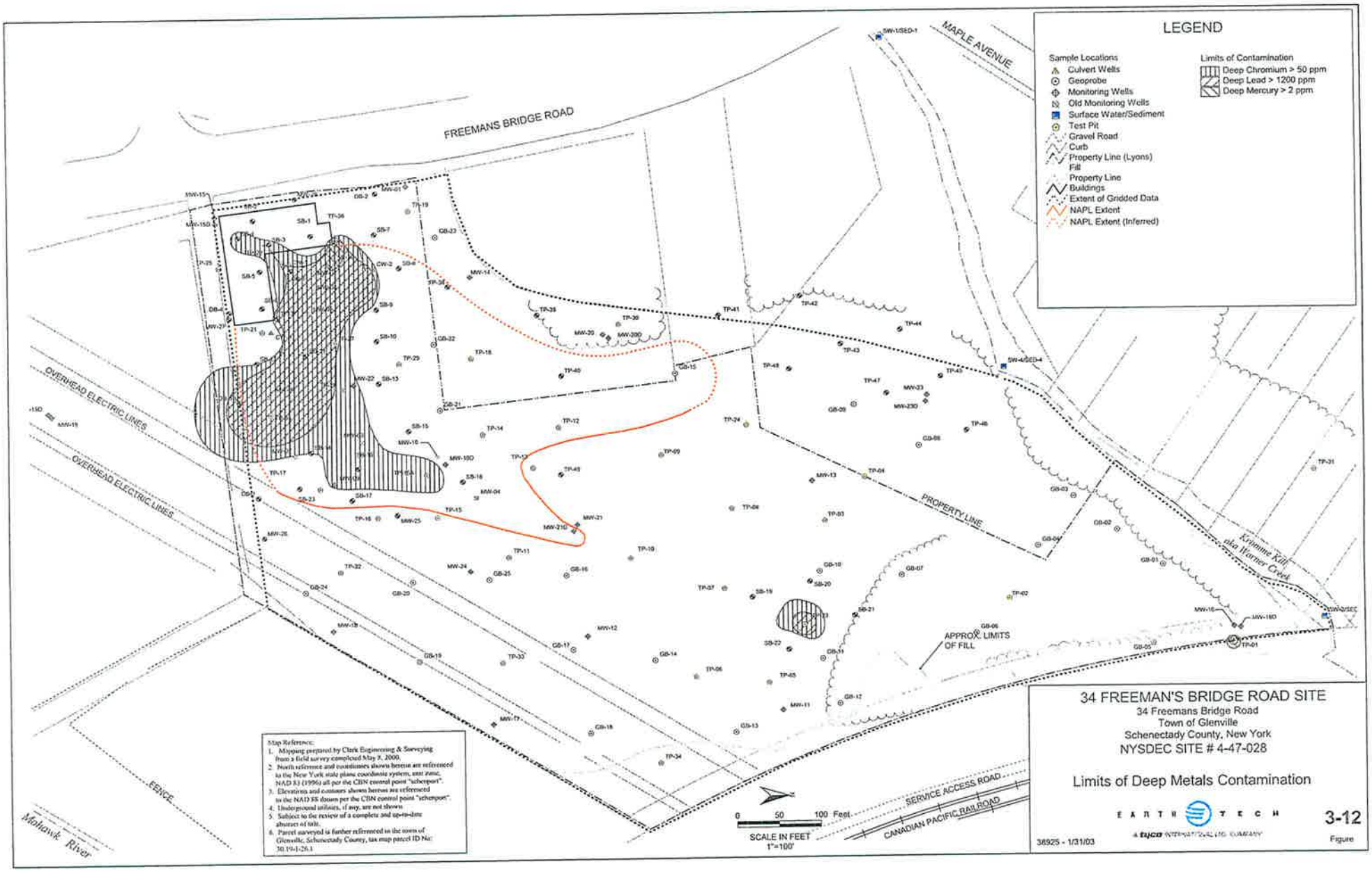
3-8
Figure

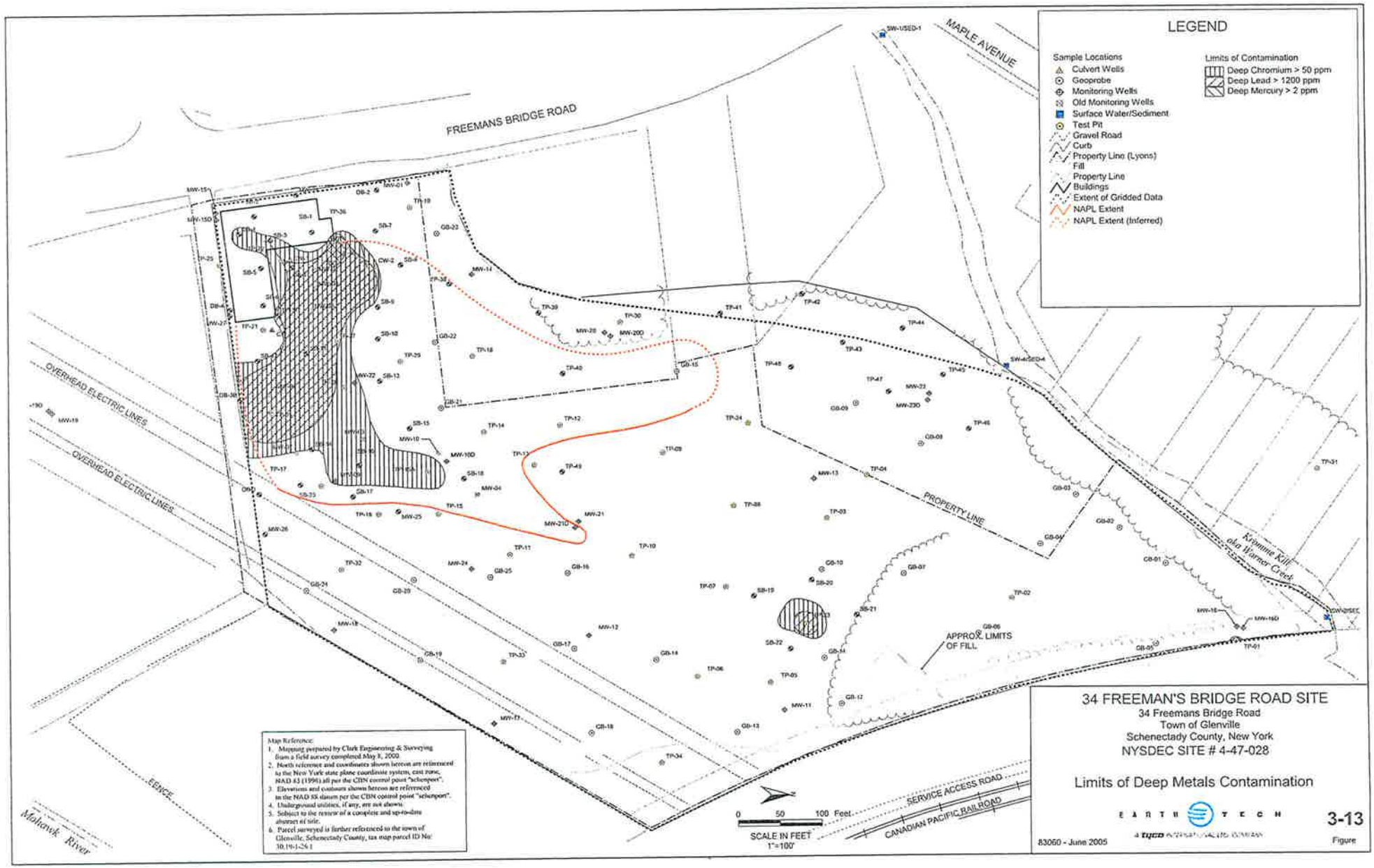

LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 1200 ppm Highlighted in Magenta.
Concentration Isopleth Ranges (mg/Kg)
1
500
1200 (Remediation Goal)
5000
10000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
0 50 100 Feet
SCALE IN FEET
1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 6, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CDN control point "schenpost".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CDN control point "schenpost".
4. Underground utilities, if new, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Lead in Deep Soil (>2' Below Grade)
EARTH TECH
63060 - June 2005
3-10
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 50 ppm Highlighted in Magenta.
Concentration Isopleth Ranges (mg/Kg)
1
50 (Remediation Goal)
100
500
1000
>1000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
PROPERTY LINE
Kromme Kill aka Warner Creek
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAIL ROAD
FENCE
Mohawk River
0 50 100 Feet
SCALE IN FEET
1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "schenport"
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "schenport"
4. Underground utilities, if any, are not shown
5. Subject to the review of a complete and up-to-date abstract of title
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Chromium in Deep Soil (>2' Below Grade)
EARTH TECH
3-9
83060 - June 2005
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 1200 ppm Highlighted in Magenta
Concentration Isopleth Ranges (mg/Kg)
1
500
1200 (Remediation Goal)
5000
10000
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAIL ROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
SCALE IN FEET
1"=100'
0
50
100 Feet
Map Reference:
1 Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000
2 North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CDN ground point "schenpost".
3 Elevation and contours shown hereon are referenced to the NAD 88 datum per the CDN control point "schenpost".
4 Underground utilities, if any, are not shown.
5 Subject to the review of a complete and up-to-date abstract of title.
6 Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 39.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Lead in Deep Soil (>2' Below Grade)
EARTH TECH
tyco
83060 - June 2005
3-10
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons) Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Analytical Data
Sample Depth Range
Soil Result (mg/Kg)
Exceedances of Remediation Goal of 2 ppm Highlighted in Magenta.
Concentration Isopleth Ranges (mg/Kg)
1
2 (Remediation Goal)
10
50
100
500
1000
>1000
MAPLE AVENUE
FREEMANS BRIDGE ROAD
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CDN control point "schenpost".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CDN control point "schenpost".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No: 30.19-1-26.1
0 50 100 Feet
SCALE IN FEET
1"=100'
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Mercury in Deep Soil (>2' Below Grade)
EARTH TECH
A tyco company
83060 - June 2005
3-11
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons) Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Limits of Contamination
Deep Chromium > 50 ppm
Deep Lead > 1200 ppm
Deep Mercury > 2 ppm
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAIL ROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
SW-1/SED-1
SW-4/SED-4
SW-5/SED
0 50 100 Feet
SCALE IN FEET
1"=100'
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 9, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No: 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Limits of Deep Metals Contamination
EARTH TECH
A tyco INTERNATIONAL COMPANY
3-12
Figure
36925 - 1/31/03



34 FREEMAN'S BRIDGE ROAD SITE

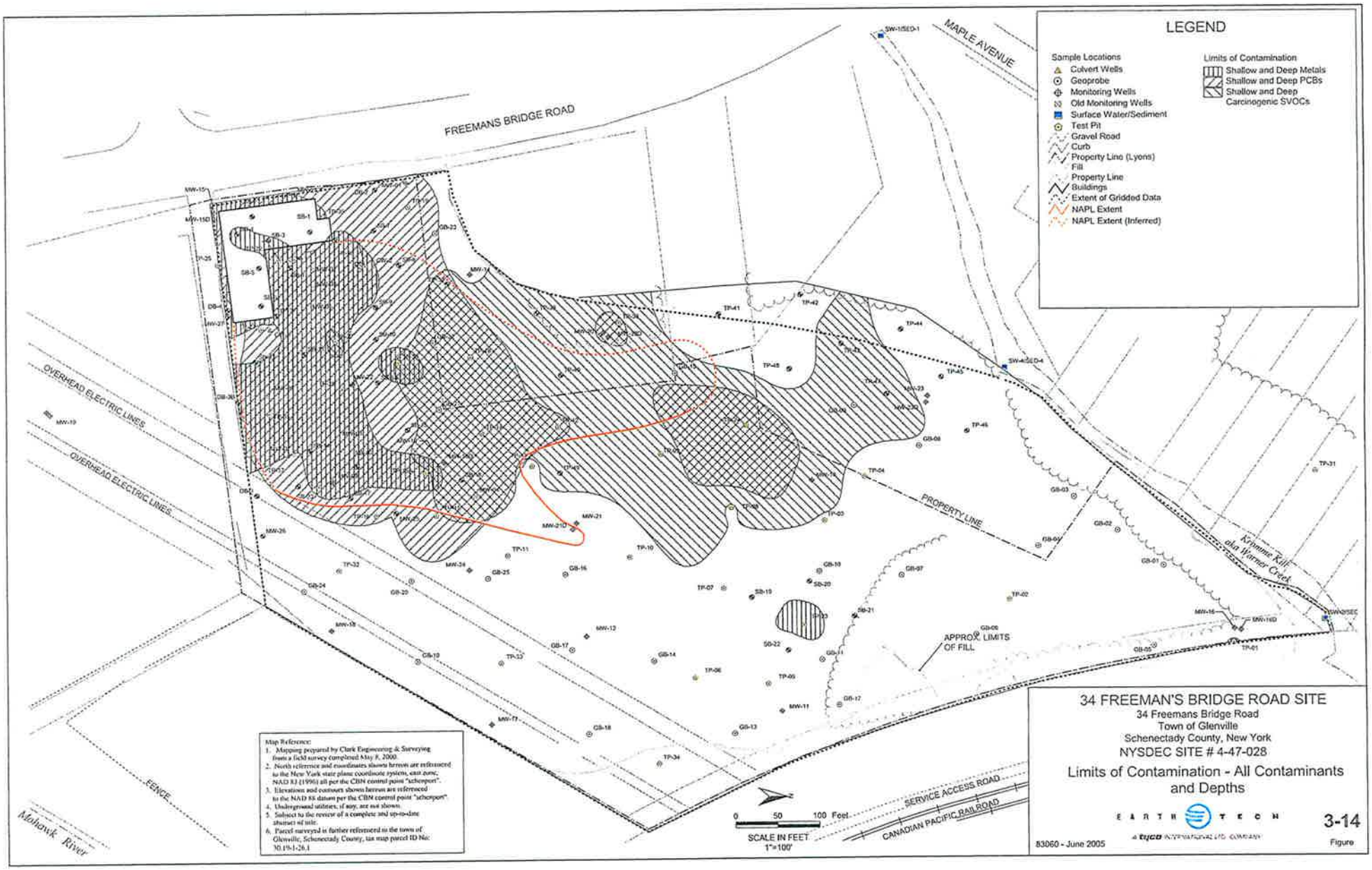
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028

Limits of Deep Metals Contamination

EARTH TECH

83060 - June 2005

3-13
Figure



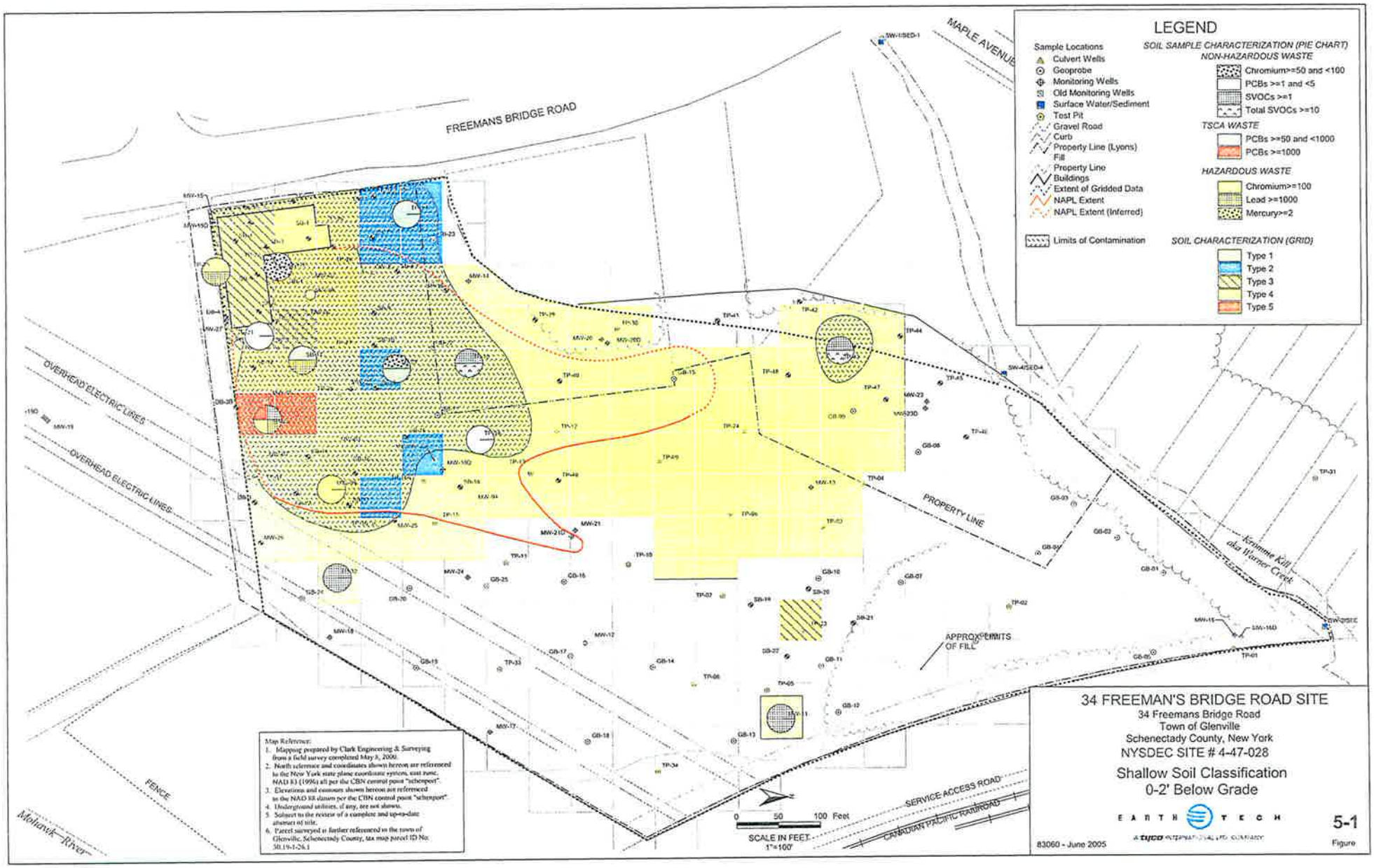
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028

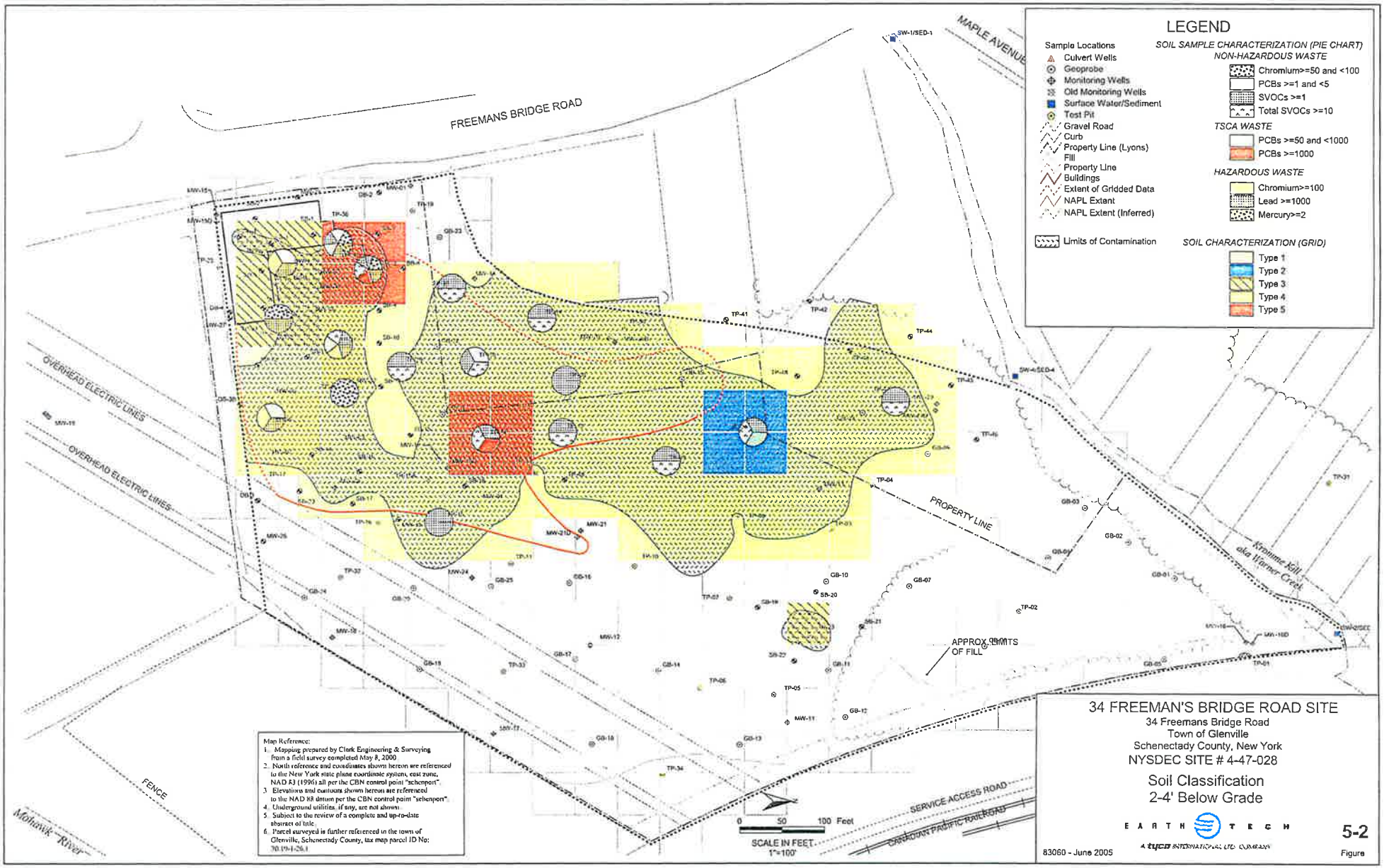
Limits of Contamination - All Contaminants and Depths

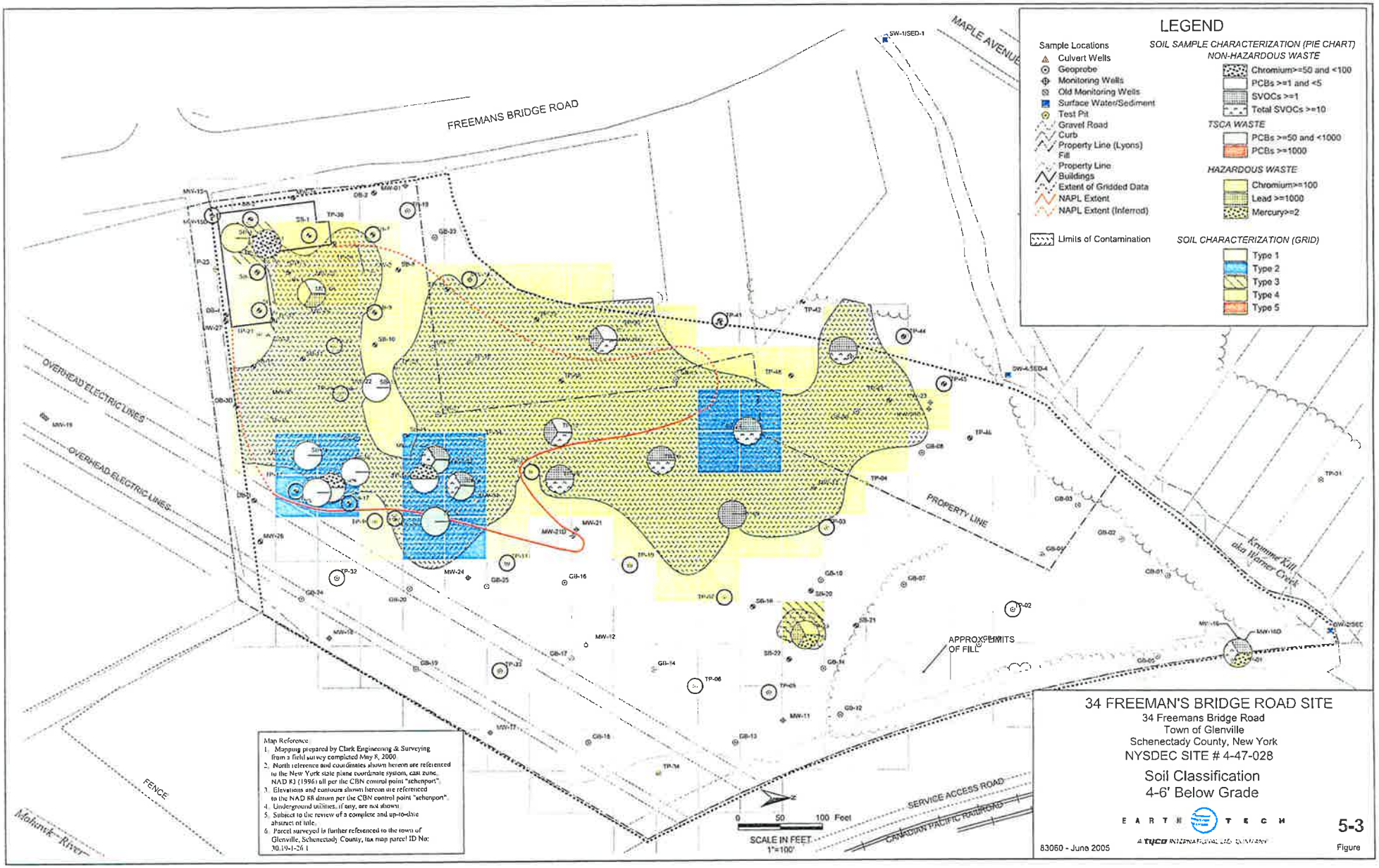
EARTH TECH
a tyco INTERNATIONAL LTD. COMPANY

83060 - June 2005

3-14
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Limits of Contamination
SOIL SAMPLE CHARACTERIZATION (PIE CHART)
NON-HAZARDOUS WASTE
Chromium>=50 and <100
PCBs >=1 and <5
SVOCs >=1
Total SVOCs >=10
TSCA WASTE
PCBs >=50 and <1000
PCBs >=1000
HAZARDOUS WASTE
Chromium>=100
Lead >=1000
Mercury>=2
SOIL CHARACTERIZATION (GRID)
Type 1
Type 2
Type 3
Type 4
Type 5
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
PROPERTY LINE
Kromme Kill
aka Warner Creek
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No. 30.19-1-26.1
0 50 100 Feet
SCALE IN FEET
1"=100'
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Shallow Soil Classification
0-2' Below Grade
EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY
83060 - June 2005
5-1
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Limits of Contamination
SOIL SAMPLE CHARACTERIZATION (PIE CHART)
NON-HAZARDOUS WASTE
Chromium>=50 and <100
PCBs >=1 and <5
SVOCs >=1
Total SVOCs >=10
TSCA WASTE
PCBs >=50 and <1000
PCBs >=1000
HAZARDOUS WASTE
Chromium>=100
Lead >=1000
Mercury>=2
SOIL CHARACTERIZATION (GRID)
Type 1
Type 2
Type 3
Type 4
Type 5
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced in the town of Glenville, Schenectady County, tax map parcel ID No: 30.19-1-26.1
0 50 100 Feet
SCALE IN FEET
1"=100'
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Soil Classification
2-4' Below Grade
EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY
83060 - June 2005
5-2
Figure



34 FREEMAN'S BRIDGE ROAD SITE

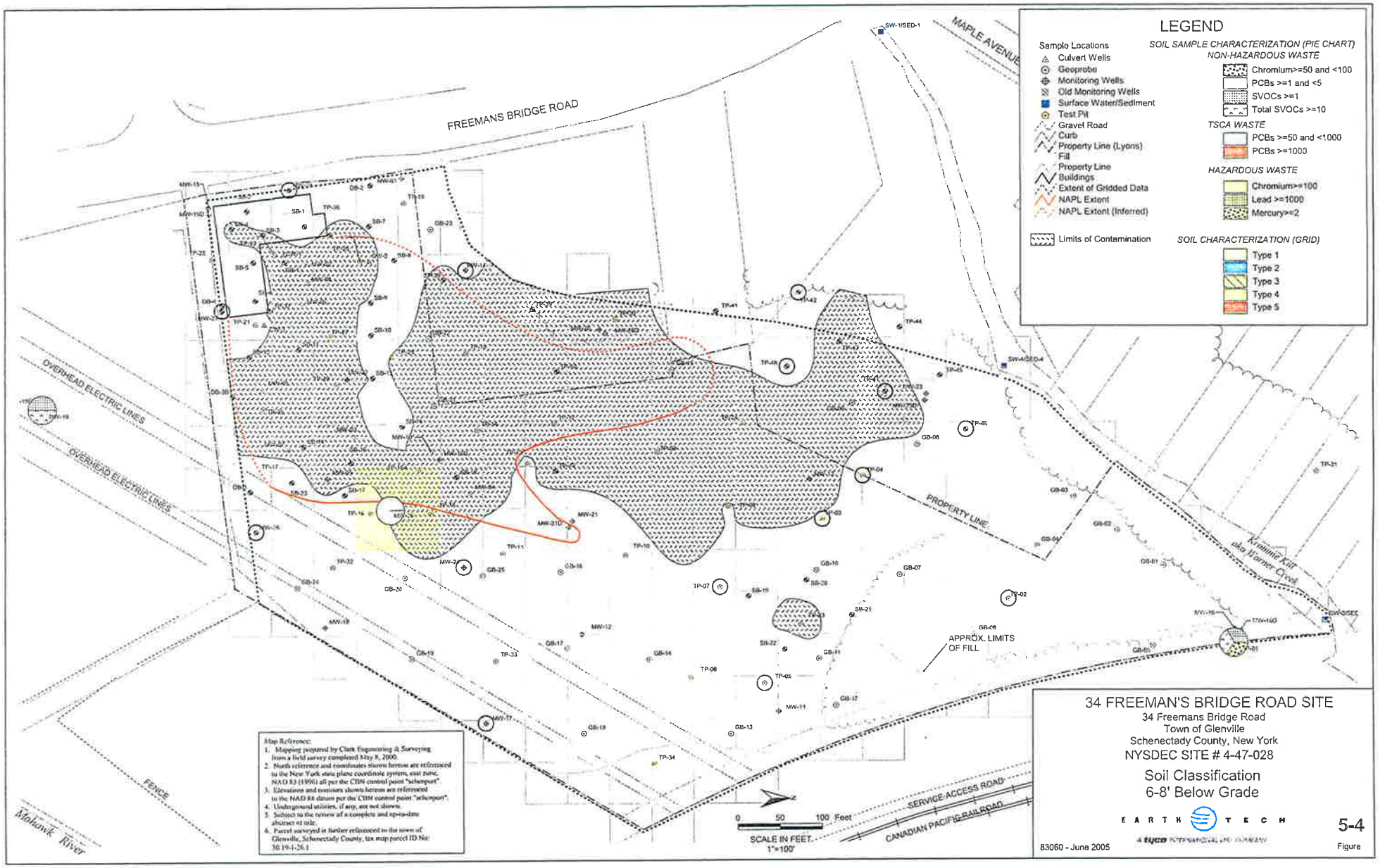
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028

Soil Classification
4-6' Below Grade

EARTH TECH
A TYCO INTERNATIONAL LTD. COMPANY

83060 - June 2005

5-3
Figure


LEGEND
Sample Locations
Culvert Wells
Geoprobe
Monitoring Wells
Old Monitoring Wells
Surface Water/Sediment
Test Pit
Gravel Road
Curb
Property Line (Lyons)
Fill
Property Line
Buildings
Extent of Gridded Data
NAPL Extent
NAPL Extent (Inferred)
Limits of Contamination
SOIL SAMPLE CHARACTERIZATION (PIE CHART)
NON-HAZARDOUS WASTE
Chromium>=50 and <100
PCBs >=1 and <5
SVOCs >=1
Total SVOCs >=10
TSCA WASTE
PCBs >=50 and <1000
PCBs >=1000
HAZARDOUS WASTE
Chromium>=100
Lead >=1000
Mercury>=2
SOIL CHARACTERIZATION (GRID)
Type 1
Type 2
Type 3
Type 4
Type 5
FREEMANS BRIDGE ROAD
MAPLE AVENUE
OVERHEAD ELECTRIC LINES
OVERHEAD ELECTRIC LINES
PROPERTY LINE
APPROX. LIMITS OF FILL
SERVICE ACCESS ROAD
CANADIAN PACIFIC RAILROAD
FENCE
Mohawk River
Kromme Kill aka Warner Creek
SCALE IN FEET
1"=100'
0 50 100 Feet
Map Reference:
1. Mapping prepared by Clark Engineering & Surveying from a field survey completed May 8, 2000.
2. North reference and coordinates shown hereon are referenced to the New York state plane coordinate system, east zone, NAD 83 (1996) all per the CBN control point "schenport".
3. Elevations and contours shown hereon are referenced to the NAD 88 datum per the CBN control point "schenport".
4. Underground utilities, if any, are not shown.
5. Subject to the review of a complete and up-to-date abstract of title.
6. Parcel surveyed is further referenced to the town of Glenville, Schenectady County, tax map parcel ID No: 30.19-1-26.1
34 FREEMAN'S BRIDGE ROAD SITE
34 Freemans Bridge Road
Town of Glenville
Schenectady County, New York
NYSDEC SITE # 4-47-028
Soil Classification
6-8' Below Grade
EARTH TECH
A tyco INTERNATIONAL LTD COMPANY
83060 - June 2005
5-4
Figure

LIMITED SITE DATA
ATTACHMENT H
TCLP METALS ANALYTICAL DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Earth Tech, Inc.**	**Date Collected:**	**05/17/05**
Project ID:	**34 Freemans Bridge Road**	**Date Received:**	**05/18/05**
Customer Sample No.:	**TP-36(3-4)**	**Lab Sample ID:**	**T2874-01**
Test:	**TCLP ICP Metals**	**SDG ID:**	**T2874**
Analytical Method:	**EPA SW-846 6010 - ICP1**	**% Moisture:**	**100.00**
Result Type:		**Datafile:**	**P105265**

CAS Number	Parameter	Results	Qualifier	Units	DL	Retention Time	DF	DIL/RE
7440-38-2	Arsenic	ND	U	ug/L	33.2	100	1	
7440-39-3	Barium	1990	J	ug/L	7.230	2000	1	
7440-43-9	Cadmium	19.1	J	ug/L	3.270	50.0	1	
7440-47-3	Chromium	ND	U	ug/L	3.430	100	1	
7439-92-1	Lead	2370		ug/L	21.8	50.0	1	
7782-49-2	Selenium	ND	U	ug/L	30.4	100	1	
7440-22-4	Silver	ND	U	ug/L	16.4	100	1	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Earth Tech, Inc.**	**Date Collected:**	**05/17/05**
Project ID:	**34 Freemans Bridge Road**	**Date Received:**	**05/18/05**
Customer Sample No.:	**TP-36(3-4)**	**Lab Sample ID:**	**T2874-01**
Test:	**TCLP Mercury**	**SDG ID:**	**T2874**
Analytical Method:	**EPA SW-846 7471 - HG**	**% Moisture:**	**100.00**
Result Type:		**Datafile:**	**052005A**

CAS Number	Parameter	Results	Qualifier	Units	DL	Retention Time	DF	DIL/RE
7439-97-6	Mercury	ND	U	ug/L	0.330	2.0	1	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Earth Tech, Inc.**	**Date Collected:**	**05/17/05**
Project ID:	**34 Freemans Bridge Road**	**Date Received:**	**05/18/05**
Customer Sample No.:	**TP-37(2-3)**	**Lab Sample ID:**	**T2874-02**
Test:	**TCLP ICP Metals**	**SDG ID:**	**T2874**
Analytical Method:	**EPA SW-846 6010 - ICP1**	**% Moisture:**	**100.00**
Result Type:		**Datafile:**	**P105265**

CAS Number	Parameter	Results	Qualifier	Units	DL	Retention Time	DF	DIL/RE
7440-38-2	Arsenic	ND	U	ug/L	33.2	100	1	
7440-39-3	Barium	973	J	ug/L	7.230	2000	1	
7440-43-9	Cadmium	ND	U	ug/L	3.270	50.0	1	
7440-47-3	Chromium	ND	U	ug/L	3.430	100	1	
7439-92-1	Lead	2680		ug/L	21.8	50.0	1	
7782-49-2	Selenium	ND	U	ug/L	30.4	100	1	
7440-22-4	Silver	ND	U	ug/L	16.4	100	1	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Earth Tech, Inc.**	**Date Collected:**	**05/17/05**
Project ID:	**34 Freemans Bridge Road**	**Date Received:**	**05/18/05**
Customer Sample No.:	**TP-37(2-3)**	**Lab Sample ID:**	**T2874-02**
Test:	**TCLP Mercury**	**SDG ID:**	**T2874**
Analytical Method:	**EPA SW-846 7471 - HG**	**% Moisture:**	**100.00**
Result Type:		**Datafile:**	**052005A**

CAS Number	Parameter	Results	Qualifier	Units	DL	Retention Time	DF	DIL/RE
7439-97-6	**Mercury**	**ND**	**U**	**ug/L**	**0.330**	**2.0**	**1**	

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

Project #: T2874
6/2/2005 3:08:03 PM
End of Report

LIMITED SITE DATA
ATTACHMENT I
DEBRIS SURVEY REPORT

34 Freeman's Bridge Road Site
NYSDEC Site #4-47-028
Surface Debris to be included with Building Demolition Lump Sum

Quantity	Units and Material
1	Ford Box Truck
2	53' box trailers
1	20 lbs Propane Tank
69	Tires, car small truck tires
1	Fork Truck Battery
1	55 gal. Steel Drum with Soil and Water (Non Haz sticker on it)
1	5 gal. Kerosene can almost empty
1	3 gal. pan of Used Motor Oil and Water
3	55 gal plastic drums
1	Concrete dry well
3	Yards of Wood Debris*
1	Yards of scrap metal*
5	Yards of general C&D garbage*
25	Yards of Old Junky Office Furniture (in trailers mostly)*

*estimated based on visual inspection.

LIMITED SITE DATA
ATTACHMENT J
ASBESTOS SURVEY REPORT

SECTION XIV

Asbestos Survey

ASBESTOS SURVEY REPORT

34 Freeman's Bridge Road Site

Prepared for:

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by:

Earth Tech Northeast, Inc.
40 British American Blvd.
Latham, New York 12110

October, 2005

Table of Contents

Page

Appendices

1.0 INTRODUCTION

On September 9, 2005, Earth Tech Northeast, Inc. (Earth Tech) conducted a demolition project survey for the presence of asbestos containing building materials in the building structure located at the 34 Freeman's Bridge Road Site in Glenville, New York. Ms. Patrice Poole (Asbestos Inspector #05-05628) conducted this inspection generally following the procedures and guidelines commonly used and accepted by federal and state regulations. The objective of the survey was to identify the presence and approximate the locations and quantities of suspect asbestos containing building materials (ACBM) that may be disturbed during the planned demolition of this building.

The inspector proceeded by assessing all areas of the building, including the roof sections, with the potential to contain asbestos that will be disturbed during the demolition project. The inspector selected materials from the building for inclusion in the inspection through professional experience and an understanding of the historical uses of asbestos. Generally speaking, if the building material within the building structure could contain asbestos, the material was included in the inspection.

Material included in the survey were identified and recorded with respect to grouped homogeneous sampling areas. Representative bulk samples were collected from locations within each homogeneous sampling area. Sampling information was recorded on chain of custody forms for documentation. Samples were individually preserved within a container and transported to an independent laboratory for asbestos analysis.

EMSL Analytical, Inc. of Westmont, New Jersey, (ELAP #10872, and NVLAP Code 101048-0) conducted laboratory analysis of asbestos samples via polarized light microscopy (PLM) and or transmission electron microscopy (TEM). Friable asbestos samples were analyzed by the method of PLM only. Non-friable organically bound (NOB) samples were initially analyzed by PLM, and, if initially negative for asbestos (i.e., <1% by weight), the negative result was confirmed by TEM. Samples were also analyzed by positive-stop methodology. Once a sample collected from a homogeneous group was analyzed and a positive (greater than 1%) was identified the remaining samples were not analyzed.

2.0 LIMITATIONS

The information provided in this report was compiled from field and laboratory data obtained during the site visit. Observations noted and recorded are intended to represent the conditions that existed at the subject site at the time and date that the observations were made.

Determinations of suspect asbestos containing material within the building were subject to the accessibility of individual areas or spaces. Earth Tech accepts no responsibility for the content of the building materials within areas or spaces that were unknown to us or not reasonably accessible. Earth Tech assumes no liability for any buildings that were not identified by the client that may fall under state or federal regulations.

Conclusions and recommendations provided in this report are based on the assumption that materials identified are homogeneous throughout their application.

The following limitations/conditions were noted as part of the survey:

- The asbestos survey was not conducted according to established USEPA AHERA (Asbestos Hazard Emergency Response Act) protocols, as required for public schools. This survey was conducted following general industry practices to identify those asbestos containing materials present in the building within the area described as the demolition project area. All inspection activities were, however, conducted by an AHERA certified asbestos inspector (NYSDOL Licenses No. 05-05628).

- The inspection was limited to only those materials within the described demolition project area that have the potential to be disturbed during the demolition.

3.0 ASBESTOS SAMPLING SUMMARY

The results of the asbestos sampling are provided in Table 1, sample locations are shown on Figure 1 and the laboratory results are presented in Appendix A. Based on this asbestos survey none of the building materials that will be disturbed during the planned demolition project have been identified as asbestos containing.

Table 1 - Summary of Asbestos Sampling Results
34 Freeman's Bridge Road Site
Glenville, New York
9/9/2005

Sample	Description	Location /Area	PLM Results (%, type)	TEM Results (%, type)
MSP-1B	Wallboard Paper	Metal Storage Portion	NAD	Not applicable
MSP-1C	Wallboard Paper	Metal Storage Portion	NAD	Not applicable
MSP-2B	Wallboard	Metal Storage Portion	NAD	Not applicable
MSP-2C	Wallboard	Metal Storage Portion	NAD	Not applicable
MSA-1A	Brown Wallboard Paper	Main Storage Area	NAD	Not applicable
MSA-1B	Brown Wallboard Paper	Main Storage Area	NAD	Not applicable
MSA-1C	Brown Wallboard Paper	Main Storage Area	NAD	Not applicable
MSA-2A	White Wallboard	Main Storage Area	NAD	Not applicable
MSA-2B	White Wallboard	Main Storage Area	NAD	Not applicable
MSA-2C	White Wallboard	Main Storage Area	NAD	Not applicable
MSA-3A	White Ceiling Tile Type 4	Main Storage Area	NAD	Not applicable
MSA-3B	White Ceiling Tile Type 4	Main Storage Area	NAD	Not applicable
MSA-3C	White Ceiling Tile Type 4	Main Storage Area	NAD	Not applicable
DUP-1	White Ceiling Tile Type 4	Main Storage Area	NAD	Not applicable
MSA-4A	White Ceiling Tile Type 1	Main Storage Area	NAD	Not applicable
MSA-4B	White Ceiling Tile Type 1	Main Storage Area	NAD	Not applicable
MSA-4C	White Ceiling Tile Type 1	Main Storage Area	NAD	Not applicable
MSA-5A	White Ceiling Tile Type 2	Main Storage Area	NAD	Not applicable
MSA-5B	White Ceiling Tile Type 2	Main Storage Area	NAD	Not applicable
MSA-5C	White Ceiling Tile Type 2	Main Storage Area	NAD	Not applicable
OPA-1A	Tan Blown In Insulation	Open Ofice Area	NAD	Not applicable
OPA-1B	Tan Blown In Insulation	Open Ofice Area	NAD	Not applicable
OPA-1C	Tan Blown In Insulation	Open Ofice Area	NAD	Not applicable
OPA-2A	Brown Ceiling Tile	Open Ofice Area	NAD	Not applicable
OPA-2B	Brown Ceiling Tile	Open Ofice Area	NAD	Not applicable
OPA-2C	Brown Ceiling Tile	Open Ofice Area	NAD	Not applicable
OPA-3A	Brown Wallboard Paper	Open Ofice Area	NAD	Not applicable
OPA-3B	Brown Wallboard Paper	Open Ofice Area	NAD	Not applicable
OPA-3C	Brown Wallboard Paper	Open Ofice Area	NAD	Not applicable

PLM Test Method : NYS ELAP 198.1, TEM Test Method: NYS ELAP 198.41
ANR: Only the first sample in each Homogenous sample group was analyzed.
CNR: Confirmation analyis was not required due to positive PLM Result (i.e., >1% by weight)
NAD: No Asbestos Detected in the sample above the method detection limit.
NAC: Non-Asbestos Containing, sample may have trace of asbestos below the definative concentration of 1% for Asbestos Containing Building Material

Table 1 - Summary of Asbestos Sampling Results
34 Freeman's Bridge Road Site
Glenville, New York
9/9/2005

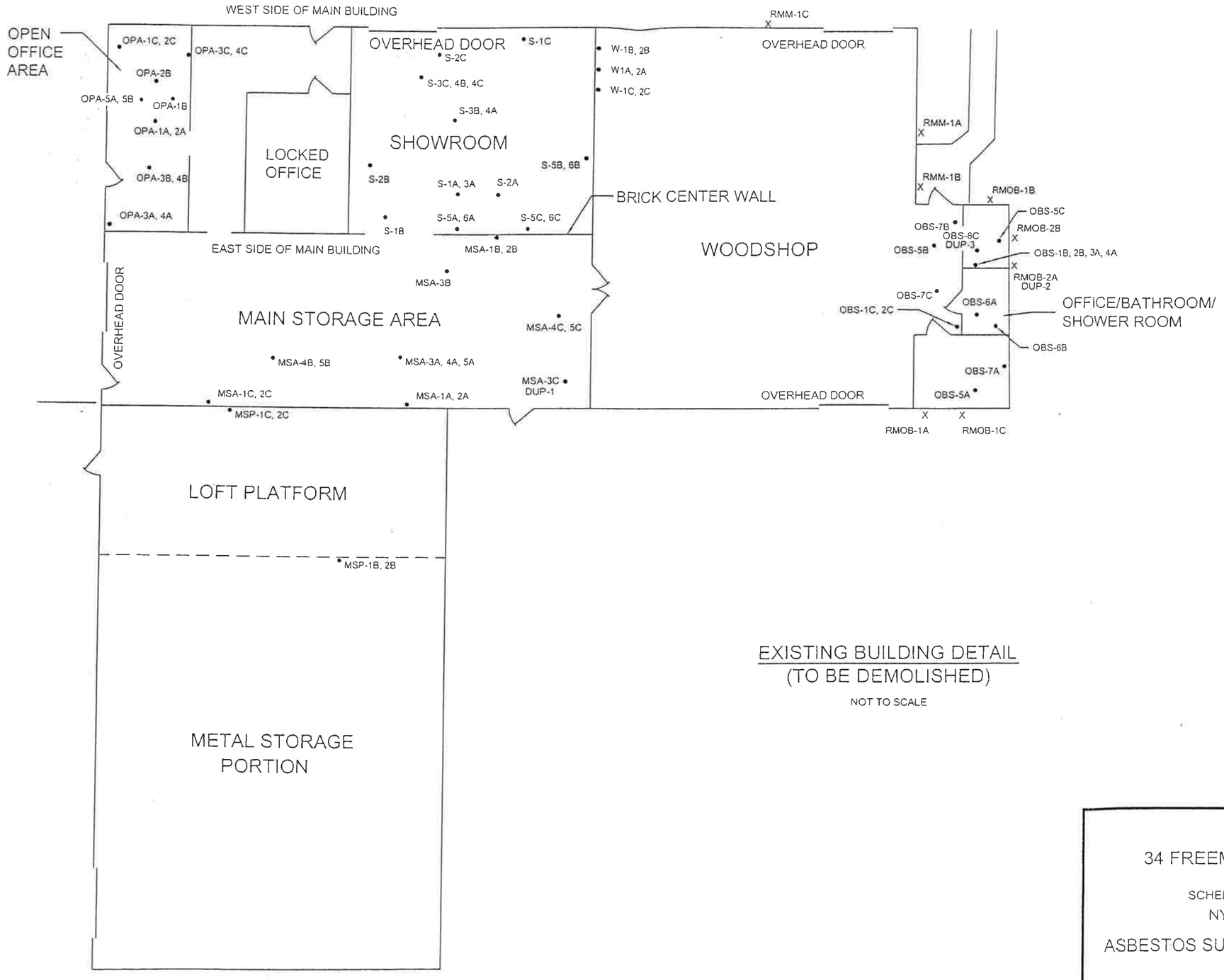
Sample	Description	Location /Area	PLM Results (%, type)	TEM Results (%, type)
OPA-4A	White Wallboard	Open Office Area	NAD	Not applicable
OPA-4B	White Wallboard	Open Office Area	NAD	Not applicable
OPA-4C	White Wallboard	Open Office Area	NAD	Not applicable
OPA-5A	Cloth Wire Wrap	Open Office Area	NAD	NAD
OPA-5B	Cloth Wire Wrap	Open Office Area	NAD	NAD
S-1A	White Ceiling Tile Type 1	Showroom	NAD	Not applicable
S-1B	White Ceiling Tile Type 1	Showroom	NAD	Not applicable
S-1C	White Ceiling Tile Type 1	Showroom	NAD	Not applicable
S-2A	White Ceiling Tile Type 2	Showroom	NAD	Not applicable
S-2B	White Ceiling Tile Type 2	Showroom	NAD	Not applicable
S-2C	White Ceiling Tile Type 2	Showroom	NAD	Not applicable
S-3A	White Ceiling Tile Type 3	Showroom	NAD	Not applicable
S-3B	White Ceiling Tile Type 3	Showroom	NAD	Not applicable
S-4A	Brown Mastic (ceiling tile type 3)	Showroom	< 1% Anthophyllite	NAD
S-4B	Brown Mastic (ceiling tile type 3)	Showroom	< 1% Anthophyllite	NAD
S-4C	Brown Mastic (ceiling tile type 3)	Showroom	< 1% Anthophyllite	NAD
S-5A	Brown Wallboard Paper	Showroom	NAD	Not applicable
S-5B	Brown Wallboard Paper	Showroom	NAD	Not applicable
S-5C	Brown Wallboard Paper	Showroom	NAD	Not applicable
S-6A	White Wallboard	Showroom	NAD	Not applicable
S-6B	White Wallboard	Showroom	NAD	Not applicable
S-6C	White Wallboard	Showroom	NAD	Not applicable
W-1A	Brown Wallboard Paper	Woodshop	NAD	Not applicable
W-1B	Brown Wallboard Paper	Woodshop	NAD	Not applicable
W-1C	Brown Wallboard Paper	Woodshop	NAD	Not applicable
W-2A	White Wallboard	Woodshop	NAD	Not applicable
W-2B	White Wallboard	Woodshop	NAD	Not applicable
W-2C	White Wallboard	Woodshop	NAD	Not applicable

PLM Test Method : NYS ELAP 198.1, TEM Test Method: NYS ELAP 198.41
ANR: Only the first sample in each Homogenous sample group was analyzed.
CNR: Confirmation analyis was not required due to positive PLM Result (i.e., >1% by weight)
NAD: No Asbestos Detected in the sample above the method detection limit.
NAC: Non-Asbestos Containing, sample may have trace of asbestos below the definative concentration of 1% for Asbestos Containing Building Material

Table 1 - Summary of Asbestos Sampling Results
34 Freeman's Bridge Road Site
Glenville, New York
9/9/2005

Sample	Description	Location /Area	PLM Results (%, type)	TEM Results (%, type)
OBS-1A	Brown Wallboard Paper	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-1B	Brown Wallboard Paper	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-1C	Brown Wallboard Paper	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-2A	White Wallboard	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-2B	White Wallboard	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-2C	White Wallboard	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-3A	Brown Wallboard Paper 2nd lyr	Office/Bathroom/Shower Room (shower room)	NAD	Not applicable
OBS-4A	White Wallboard 2nd lyr	Office/Bathroom/Shower Room (shower room)	NAD	Not applicable
OBS-5A	White Ceiling Tile Type A	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-5B	White Ceiling Tile Type A	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-5C	White Ceiling Tile Type A	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-6A	White Ceiling Tile Type B	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-6B	White Ceiling Tile Type B	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-6C	White Ceiling Tile Type B	Office/Bathroom/Shower Room	NAD	Not applicable
DUP-3	White Ceiling Tile Type B	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-7A	Black Carpet Under Layment	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-7B	Black Carpet Under Layment	Office/Bathroom/Shower Room	NAD	Not applicable
OBS-7C	Black Carpet Under Layment	Office/Bathroom/Shower Room	NAD	Not applicable
RMOB-1A	Black Tar Paper	Roof over Office/Bathroom/Shower Room	NAD	NAD
RMOB-1B	Black Tar Paper	Roof over Office/Bathroom/Shower Room	NAD	< 1% Chrysotile
RMOB-1C	Black Tar Paper	Roof over Office/Bathroom/Shower Room	NAD	NAD
RMOB-2A	Black Shingle	Roof over Office/Bathroom/Shower Room	NAD	< 1% Chrysotile
DUP-2	Black Shingle	Roof over Office/Bathroom/Shower Room	NAD	< 1% Chrysotile
RMOB-2B	Black Shingle	Roof over Office/Bathroom/Shower Room	NAD	NAD
RMM-1A	Black Tar Paper	Main Roof	NAD	NAD
RMM-1B	Black Tar Paper	Main Roof	NAD	NAD
RMM-1C	Black Tar Paper	Main Roof	NAD	NAD

PLM Test Method : NYS ELAP 198.1, TEM Test Method: NYS ELAP 198.41
ANR: Only the first sample in each Homogenous sample group was analyzed.
CNR: Confirmation analyis was not required due to positive PLM Result (i.e., >1% by weight)
NAD: No Asbestos Detected in the sample above the method detection limit.
NAC: Non-Asbestos Containing, sample may have trace of asbestos below the definative concentration of 1% for Asbestos Containing Building Material



EXISTING BUILDING DETAIL
(TO BE DEMOLISHED)

NOT TO SCALE

FIGURE 1

34 FREEMAN'S BRIDGE ROAD SITE

TOWN OF GLENVILLE
SCHENECTADY COUNTY, NEW YORK

NYSDEC SITE # 4-47-028

ASBESTOS SURVEY SAMPLE LOCATION PLAN

EarthTech
A tyco International Ltd. Company

OCTOBER, 2005

83060

CAD FILE NAM. . \WORK\83060\CADD\100%FINAL\ABESTOS-SURVEY-FIG-1.DWG

APPENDIX A

Laboratory Reports

EMSL Analytical, Inc.
[illegible]

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 9/15/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
OPA-2A 040517543-0001		Brown/Gray/White Fibrous Heterogeneous	60.00% Cellulose 10.00% Min. Wool	30.00% Non-fibrous (other)	None Detected
OPA-2B 040517543-0002		Brown/Gray/White Fibrous Heterogeneous	60.00% Cellulose 10.00% Min. Wool	30.00% Non-fibrous (other)	None Detected
OPA-2C 040517543-0003		Brown/Gray/White Fibrous Heterogeneous	60.00% Cellulose 10.00% Min. Wool	30.00% Non-fibrous (other)	None Detected
`A-3A ..0517543-0004		Brown/White Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
OPA-3B 040517543-0005		Brown/White Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
OPA-3C 040517543-0006		Brown/White Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
OPA-4A 040517543-0007		Brown/Gray Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
OPA-4B 040517543-0008		Brown/Gray Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
OPA-4C 040517543-0009		Brown/Gray/White Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
MSP-1A 040517543-0010					Not Submitted

Analyst(s)
Will DiBella (16)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLMPointCount-1

EMSL Analytical, Inc.
[illegible]

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 9/15/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
MSP-2A 040517543-0011					Not Submitted
OBS-1A 040517543-0012		Brown/White Fibrous Heterogeneous	20.00% Cellulose	80.00% Non-fibrous (other)	None Detected
OBS-1B 040517543-0013		Brown/White Fibrous Heterogeneous	50.00% Cellulose	50.00% Non-fibrous (other)	None Detected
S-1C 040517543-0014		Brown/White Fibrous Heterogeneous	30.00% Cellulose	70.00% Non-fibrous (other)	None Detected
OBS-3A 040517543-0015		Brown/White Fibrous Heterogeneous	60.00% Cellulose	40.00% Non-fibrous (other)	None Detected
OBS-4A 040517543-0016		Brown/Gray Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected

Analyst(s)
Will DiBella (16)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmort (NVLAP #101048-0), NY ELAP 10872

PLMPointCount-1

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
[illegible]

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 9/15/2005

Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via the NY State ELAP 198.6 Method

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
OPA-5A *040517543-0017*		Brown Non-Fibrous Homogeneous	100.0	None	Inconclusive No Asbestos Detected
OPA-5B *040517543-0018*		Brown Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected

Analyst(s)
Will DiBella (2)

Stephen Siegel, CIH
or other approved signatory

*Polarized Light Microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. The test results contained within this report meet the requirements of NELAC unless otherwise noted.EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. The above test report relates only to the items tested. EMSL bears no responsibility for sample collection activities or analytical method limitations.

ACCREDITATIONS: AIHA #100192, NVLAP #101048-0 and NY STATE ELAP #10872

NYS198-2

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543

EMSL Proj:
Analysis Date: 9/16/2005
Report Date: 9/29/2005

Asbestos Analysis of Non-Friable Organically Bound materials by Transmission Electron Microscopy via NYS ELAP Method 198.4

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
OPA-5A *040517543-0017*		Brown Non-Fibrous Homogeneous	100.0	None		No Asbestos Detected
OPA-5B *040517543-0018*		Brown Non-Fibrous Homogeneous	100.0	None		No Asbestos Detected

Analyst(s)
Steve Siegel (2)

Stephen Siegel, CIH
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
ACCREDITATIONS: AIHA #100194, NVLAP #101048-0 and NY STATE ELAP #10872

.Y\TNOB-2

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
(856) 858-4800

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83080.02 FREEMAN'S BRIDGE

Customer ID: REI...
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543
EMSL Proj:
Report Date: 9/16/2005

Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos	Comments
QPA-2A	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray/ White	60.00% Cellulose 10.00% Min. Wool	30%	None Detected	
040517543-0001	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
QPA-2B	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray/ White	60.00% Cellulose 10.00% Min. Wool	30%	None Detected	
040517543-0002	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
QPA-2C	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray/ White	60.00% Cellulose 10.00% Min. Wool	30%	None Detected	
040517543-0003	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
QPA-3A	PLM NYS 198.1 Friable	9/15/2005	Brown/White	10.00% Cellulose	90%	None Detected	
040517543-0004	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
QPA-3B	PLM NYS 198.1 Friable	9/15/2005	Brown/White	10.00% Cellulose	90%	None Detected	
040517543-0005	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
QPA-3C	PLM NYS 198.1 Friable	9/15/2005	Brown/White	10.00% Cellulose	90%	None Detected	
040517543-0006	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
QPA-4A	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray	10.00% Cellulose	90%	None Detected	
040517543-0007	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A

9/16/2005 12:08 8568584960

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
(856) 858-4800

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543
EMSL Proj:
Report Date: 9/16/2005

Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
OPA-4B 040517543-0008	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray	10.00% Cellulose	90%	None Detected	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
OPA-4C 040517543-0009	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray/ White	10.00% Cellulose	90%	None Detected	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
MSP-1A 040517543-0010	PLM NYS 198.1 Friable	9/15/2005				Not Submitted	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
MSP-2A 040517543-0011	PLM NYS 198.1 Friable	9/15/2005				Not Submitted	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
OBS-1A 040517543-0012	PLM NYS 198.1 Friable	9/15/2005	Brown/White	20.00% Cellulose	80%	None Detected	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
OBS-1B 040517543-0013	PLM NYS 198.1 Friable	9/15/2005	Brown/White	50.00% Cellulose	50%	None Detected	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
OBS-1C 040517543-0014	PLM NYS 198.1 Friable	9/15/2005	Brown/White	30.00% Cellulose	70%	None Detected	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
OBS-3A 040517543-0015	PLM NYS 198.1 Friable	9/15/2005	Brown/White	60.00% Cellulose	40%	None Detected	
	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A

/16/2005 12:08 8568584960

PAGE 03/03
EMSL ANALYTICAL
8568584960
3/16/2005 12:08

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
(856) 858-4800

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: 150
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517543
EMSL Proj:
Report Date: 9/16/2005

Asbestos Analysis of Bulk Material

Sample Description	Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos	Comments
OBS-4A	PLM NYS 198.1 Friable	9/15/2005	Brown/Gray	10.00% Cellulose	90%	None Detected	
040517543-0016	PLM NYS 198.6 NOB				N/A		N/A
	TEM NYS 198.4 NOB				N/A		N/A
OPA-5A	PLM NYS 198.1 Friable						N/A
040517543-0017	PLM NYS 198.6 NOB	9/15/2005	Brown		N/A	Inconclusive: None Detected	
	TEM NYS 198.4 NOB	9/16/2005	Brown		N/A	None Detected	
OPA-5B	PLM NYS 198.1 Friable						N/A
040517543-0018	PLM NYS 198.6 NOB	9/15/2005	Brown		N/A	Inconclusive: None Detected	
	TEM NYS 198.4 NOB	9/16/2005	Brown		N/A	None Detected	

NOB = Non Friable Organically Bound
N/A = Not Applicable

Stephen Siegel, CIH
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. The above test report relates only to the items tested. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The results in this report meet all requirements of the NELAC Standards unless otherwise noted. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB's. Quantitative TEM is currently the only method that can be used to determine if a NOB material can be considered or treated as non-asbestos containing.

ACCREDITATIONS: AIHA #100194, NVLAP #101048-0 and NY STATE ELAP #10872

NYS198-V2

THIS IS THE LAST PAGE OF THE REPORT.

04051 7543

EARTH TECH
A Tyco Infrastructure Services Company

Chain of Custody Record

REI 50

Project Number	Project Name/Client
93060.02	FREEMAN'S BRIDGE

Sample Custodian: (Signature)

Custody Seal #

Earth Tech Cooler #

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	PLM	FRIABLE	Group #	Sample Type	Sample Container
1	OPA-2A	9/9/05		X				↓	Y			
2	OPA-2B	↓		↓					Y	8		
3	OPA-2C								Y	8		
4	OPA-3A								Y	8		
5	OPA-3B								Y	9		
6	OPA-3C								Y	9		
7	OPA-4A								Y	9		
8	OPA-4B								Y	10		
9	OPA-4C								Y	10		
10	OPA-5A								Y	10		
11	OPA-5B								N	11		
12	MSP-1A								N	11		
13	MSP-2A								Y	12		
14	OBS-1A								Y	13		
15	OBS-1B								Y	14		
16	OBS-1C								Y	14		
17	OBS-3A								Y	14		
18	OBS-4A								Y	15		
										16		

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
	9/12/05 1400	FX			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To:
Chris Hunsicker
EARTH TECH

Remarks: [redacted]

Federal Express Airbill No.:

Lab:

Check Delivery Method:
- Samples delivered in person
- Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

Rev. 10/98

White Copy - Lab   Yellow Copy - File   Pink Copy - Client

F514/Earth.Sci

RECEIVED EMSL WESTMONT, N.J. 05 SEP 13 AM

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517559

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
S-1A *040517559-0001*		Tan/White Fibrous Heterogeneous	35.00% Cellulose 35.00% Min. Wool	30.00% Non-fibrous (other)	None Detected
S-2A *040517559-0002*		Brown/White Fibrous Heterogeneous	40.00% Cellulose 20.00% Min. Wool	40.00% Non-fibrous (other)	None Detected
S-3A *040517559-0003*		Tan/White Fibrous Heterogeneous	65.00% Cellulose	35.00% Non-fibrous (other)	None Detected
4A *040517559-0004*		Brown Non-Fibrous Homogeneous	Suggest TEM	100.00% Non-fibrous (other)	<1% Anthophyllite
S-4B *040517559-0005*		Brown Non-Fibrous Homogeneous	Suggest TEM	100.00% Non-fibrous (other)	<1% Anthophyllite
S-4C *040517559-0006*		Brown Non-Fibrous Homogeneous	Suggest TEM	100.00% Non-fibrous (other)	<1% Anthophyllite
S-5A *040517559-0007*		Brown/White Fibrous Heterogeneous	65.00% Cellulose	35.00% Non-fibrous (other)	None Detected
S-5B *040517559-0008*		Brown/White Fibrous Heterogeneous	65.00% Cellulose	35.00% Non-fibrous (other)	None Detected
S-5C *040517559-0009*		Brown/White Fibrous Heterogeneous	60.00% Cellulose	40.00% Non-fibrous (other)	None Detected
S-6A *040517559-0010*		White/Brown Fibrous Heterogeneous	5.00% Cellulose	95.00% Non-fibrous (other)	None Detected

Analyst(s)

Nancy Stalter (15)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517559

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
S-6B *040517559-0011*		White/Brown Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
S-6C *040517559-0012*		White/Brown Fibrous Heterogeneous	5.00% Cellulose	95.00% Non-fibrous (other)	None Detected
OPA-1A *040517559-0013*		Tan Fibrous Heterogeneous	85.00% Cellulose	15.00% Non-fibrous (other)	None Detected
PA-1B *040517559-0014*		Tan Fibrous Heterogeneous	80.00% Cellulose 5.00% Min. Wool	15.00% Non-fibrous (other)	None Detected
OPA-1C *040517559-0015*		Tan Fibrous Heterogeneous	85.00% Cellulose	15.00% Non-fibrous (other)	None Detected

Analyst(s)
Nancy Stalter (15)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssicacl@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax (518) 951-2300 Phone: (518) 951-2200
Project: ORG. ID#040517559/83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/29/05 10:47 AM
EMSL Order: 040518662

EMSL Proj:
Analysis Date: 9/30/2005
Report Date: 9/30/2005

Asbestos Analysis of Non-Friable Organically Bound materials by Transmission Electron Microscopy via NYS ELAP Method 198.4

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
S-4A 040518662-0001		Brown Non-Fibrous Homogeneous	100.0	None		No Asbestos Detected
S-4B 040518662-0002		Brown Non-Fibrous Homogeneous	100.0	None		No Asbestos Detected
S-4C 040518662-0003		Brown Non-Fibrous Homogeneous	100.0	None		No Asbestos Detected

uminum Silicate fibers observed on all three samples.

Analyst(s)

Steve Siegel (3)

Stephen Siegel, CIH
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not reproduced, except in full, without written approval by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
CREDITATIONS: AIHA #100184, NVLAP #101048-0 and NY STATE ELAP #10872

NYTNOB-2

THIS IS THE LAST PAGE OF THE REPORT.

04051755 9

EARTH TECH
A Tyco Infrastructure Services Company

Chain of Custody Record

Project Number	Project Name/Client	Custody Seal #	Earth Tech Cooler #
83060.07	FREEMAN'S BRIDGE		

Sample Custodian: (Signature) [signature]

Analysis Required: [redacted]

Matrix: Sample Type / Sample Container

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	PLM-[redacted]	Group #
1	S-1A-~~C~~	9/9/08		X				✓	17
2	S-2A-~~C~~ CH	↓		↓				✓	31
3	S-3A-~~C~~ CH							✓	~~17~~ ~~19~~ 32
4	S-4A							✓	18
5	S-4B							✓	18
6	S-4C							✓	15
7	~~S-5A-C~~							✓	19 CH
8	~~S-6A-C~~							✓	~~20~~ CH
9	S-5A							✓	21
10	S-5B							✓	21
11	S-5C							✓	21
12	S-6A							✓	22
13	S-6B							✓	22
14	S-6C							✓	22
15	OPA-1A							✓	23
16	OPA 1B							✓	23
17	OPA 1C	↓		↓				✓	23
~~18~~									

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
[signature]	9/12/08 1400	[signature]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To:
Chris Hunsicker
EARTH TECH

Remarks: [redacted]

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [ ] Samples delivered in person
- [ ] Common carrier

Laboratory Receiving Notes:
Custody Seal Intact:
Temp. of Shipping Container:
Sample Condition:

RECEIVED EMSL WESTMONT 3 AM 11:22

Rev. 10/98 White Copy - Lab Yellow Copy - File Pink Copy - Client F514/Earth.Sci

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (866) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517555

EMSL Proj:
Analysis Date: 9/19/2005
Report Date: 9/19/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
MSA-4A 040517555-0001		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
MSA-4B 040517555-0002		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
MSA-4C 040517555-0003		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
MSA-5A 040517555-0004		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
5A-5B 040517555-0005		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
MSA-5C 040517555-0006		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
DUP 1 040517555-0007		White/Brown/Pink Fibrous Heterogeneous	10.00% Cellulose 40.00% Min. Wool	50.00% Non-fibrous (other)	None Detected
DUP 3 040517555-0008		White/Brown/Pink Fibrous Heterogeneous	10.00% Cellulose 40.00% Min. Wool	50.00% Non-fibrous (other)	None Detected
MSP 2B 040517555-0009		Brown/White Fibrous Heterogeneous	40.00% Cellulose	60.00% Non-fibrous (other)	None Detected
MSP 2C 040517555-0010		Brown/White Fibrous Heterogeneous	40.00% Cellulose	60.00% Non-fibrous (other)	None Detected

Analyst(s)
Delores Beard (16)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained in this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872
PLMPointCount-1

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: sslegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517555

EMSL Proj:
Analysis Date: 9/19/2005
Report Date: 9/19/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
MSP 1B 040517555-0011		Black/Brown/White Fibrous Heterogeneous	80.00% Cellulose	20.00% Non-fibrous (other)	None Detected
MSP 1C 040517555-0012		Brown/White Fibrous Heterogeneous	80.00% Cellulose	20.00% Non-fibrous (other)	None Detected
S-1B 040517555-0013		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
S-1C 0517555-0014		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
S-2B 040517555-0015		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
S-2C 040517555-0016		White/Brown Fibrous Heterogeneous	45.00% Cellulose 35.00% Min. Wool	20.00% Non-fibrous (other)	None Detected

Analyst(s)
Delores Beard (16)

Stephen Siegel, CIH
or other approved signatory

has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none ...ted should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL ...nalytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLMPointCount-1

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: sslegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83080.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517555

EMSL Proj:
Analysis Date: 9/19/2005
Report Date: 9/19/2005

Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via the NY State ELAP 198.6 Method

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
DUP 2 040517555-0017		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected

Analyst(s)

Delores Beard (1)

Stephen Siegel, CIH
or other approved signatory

*Polarized Light Microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. The test results contained within this report meet the requirements of NELAC unless otherwise noted.EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. The above test report relates only to the items tested. EMSL bears no responsibility for sample collection activities or analytical method limitations.

ACCREDITATIONS: AIHA #100192, NVLAP #101048-0 and NY STATE ELAP #10872

NYS198-2

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517555

EMSL Proj:
Analysis Date: 9/20/2005
Report Date: 9/29/2005

Asbestos Analysis of Non-Friable Organically Bound materials by Transmission Electron Microscopy via NYS ELAP Method 198.4

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES		% TOTAL ASBESTOS
DUP 2 *040517555-0017*		Black Non-Fibrous Homogeneous	99.7	None	<1	Chrysotile	<1

Analyst(s)

Anant Samudra (1)

Stephen Siegel, CIH
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
ACCREDITATIONS: AIHA #100194, NVLAP #101048-0 and NY STATE ELAP #10872

THIS IS THE LAST PAGE OF THE REPORT.

0405175555

EARTH TECH
A Tyco Infrastructure Services Company

Chain of Custody Record

Project Number: 88060.02
Project Name/Client: FREEMANL BRIDGE
Sample Custodian: (Signature)

Custody Seal #
Earth Tech Cooler #

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	PLM-	FRIABLE	Analysis Required								Group #		Matrix: Sample Type	Sample Container
1	MSA 4A	7/5/05		X				X	Y									6			
2	4B	↓		X				X	Y									6			
3	4C	↓		X				X	Y									6			
4	5A	↓		X				X	Y									7			
5	5B	↓		X				X	Y									7			
6	5C	↓		X				X	Y									7			
7	DUP 1	X		X				X	Y									—			
8	[illegible]	X		X				[illegible]	[illegible]									—			
9	DUP 3	X		X				X	Y									—			
10	MSP 2B	X		X				X	Y									12			
11	MSP 2C	X		X				X	Y									12			
12	MSP 1B	X		X				X	Y									13			
13	MSP 1C	X		X				X	Y									13			
14	SA 1B							X	Y									17			
15	S 1C																	17			
16	S 2B																	31			
17	S 2C																	31			
18																					

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC

Relinquished by: (Signature)	Date / Time 9/14/05 / 1400	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To:
EARTH TECH
Chris Hunsicker

Remarks: [redacted]
Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [ ] Samples delivered in person
- [ ] Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp of Shipping Container:
Sample Condition:

RECEIVED
EMSL
WESTMONT
SEP 13 AM 11:22

Rev. 10/98 White Copy - Lab Yellow Copy - File Pink Copy - Client F514/Earth.Sci

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517577

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
W-1A *040517577-0001*		Brown/White Fibrous Heterogeneous	70.00% Cellulose	30.00% Non-fibrous (other)	None Detected
W-1B *040517577-0002*		Brown/White Fibrous Heterogeneous	60.00% Cellulose	40.00% Non-fibrous (other)	None Detected
W-1C *040517577-0003*		Brown/White Fibrous Heterogeneous	70.00% Cellulose	30.00% Non-fibrous (other)	None Detected
-2A *040517577-0004*		White Fibrous Heterogeneous	10.00% Cellulose 5.00% Glass	85.00% Non-fibrous (other)	None Detected
W-2B *040517577-0005*		White Fibrous Heterogeneous	10.00% Cellulose 5.00% Glass	85.00% Non-fibrous (other)	None Detected
W-2C *040517577-0006*		White Fibrous Heterogeneous	10.00% Cellulose 5.00% Glass	85.00% Non-fibrous (other)	None Detected
MSA-1A *040517577-0007*		Brown/White Fibrous Heterogeneous	90.00% Cellulose	10.00% Non-fibrous (other)	None Detected
MSA-1B *040517577-0008*		Brown/Gray Fibrous Heterogeneous	80.00% Cellulose	20.00% Non-fibrous (other)	None Detected
MSA-1C *040517577-0009*		Brown/White/Gray Fibrous Heterogeneous	80.00% Cellulose	20.00% Non-fibrous (other)	None Detected
MSA-2A *040517577-0010*		Brown/Gray Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected

Analyst(s)
Will DiBella (15)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517577

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
MSA-2B 040517577-0011		Brown/White Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
MSA-2C 040517577-0012		Brown/Gray Fibrous Heterogeneous	10.00% Cellulose	90.00% Non-fibrous (other)	None Detected
MSA-3A 040517577-0013		Gray/White Fibrous Heterogeneous	40.00% Cellulose 20.00% Min. Wool	40.00% Non-fibrous (other)	None Detected
SA-3B 040517577-0014		Gray/White Fibrous Heterogeneous	40.00% Cellulose 20.00% Min. Wool	40.00% Non-fibrous (other)	None Detected
MSA-3C 040517577-0015		Gray/White Fibrous Heterogeneous	40.00% Cellulose 20.00% Min. Wool	40.00% Non-fibrous (other)	None Detected

Analyst(s)
Will DiBella (15)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

THIS IS THE LAST PAGE OF THE REPORT.

EARTH TECH

A Tyco Infrastructure Services Company

Chain of Custody Record

Custody Seal #	Earth Tech Cooler #

Project Number: 43206.02

Project Name/Client: FAIRBANKS BRIDGE

Sample Custodian: (Signature) [signature] CHRIS TIMUSCHER

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: PCM - TEM	FRIABLE	Column #	Matrix: Sample Type	Sample Container
1	W-1A	9/9/05		X					Y	1		
2	W-1B								Y	1		
3	W-1C								Y	1		
4	W-2A								Y	2		
5	W-2B								Y	2		
6	W-2C								Y	2		
7	MSA-1A								Y	3		
8	MSA-1B								Y	3		
9	MSA-1C								Y	3		
10	MSA 2A								Y	4		
11	MSA-2B								Y	4		
12	MSA-2C								Y	4		
13	MSA-3A								Y	5		
14	MSA-3B								Y	5		
15	MSA-3C								Y	5		
16	~~MSA-4A-C~~								Y	6		
17	~~MSA-5A-C~~								Y	7		
18												

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
[signature]	9/12/05 1410				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To:

Remarks: ANALYZE BY POSITIVE STOP BY GROUP

Federal Express Airbill No.:

Lab:

Check Delivery Method:

☐ Samples delivered in person

☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517574

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
0BS-2A *040517574-0001*		Brown/White Fibrous Heterogeneous	10.00% Cellulose 5.00% Glass	85.00% Non-fibrous (other)	None Detected
0BS-2B *040517574-0002*		Brown/White Fibrous Heterogeneous	10.00% Cellulose 5.00% Glass	85.00% Non-fibrous (other)	None Detected
0BS-2C *040517574-0003*		Brown/White Fibrous Heterogeneous	10.00% Cellulose 5.00% Glass	85.00% Non-fibrous (other)	None Detected
)S-5A *040517574-0004*		Brown/Gray/White Fibrous Heterogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
0BS-5B *040517574-0005*		Brown/Gray/White Fibrous Heterogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
0BS-5C *040517574-0006*		Brown/Gray/White Fibrous Heterogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
0BS-6A *040517574-0007*		Brown/Gray/White Fibrous Heterogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
0BS-6B *040517574-0008*		Brown/Gray/White Fibrous Heterogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
0BS-6C *040517574-0009*		Brown/Gray/White Fibrous Heterogeneous	40.00% Cellulose 40.00% Min. Wool	20.00% Non-fibrous (other)	None Detected
0BS-7A *040517574-0010*		Black/Tan Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Will DiBella (12)

Stephen Siegel, CIH
or other approved signatory

LM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: RE150
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517574

EMSL Proj:
Analysis Date: 9/15/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
0BS-7B *040517574-0011*		Black/Tan/White Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	None Detected
0BS-7C *040517574-0012*		Black/Tan/White Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)
Will DiBella (12)

Stephen Siegel, CIH
or other approved signatory

LM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

THIS IS THE LAST PAGE OF THE REPORT.

04051757-4

EARTH TECH
A Tyco Infrastructure Services Company

Chain of Custody Record

Project Number	Project Name/Client	Custody Seal #	Earth Tech Cooler #
83060.02	FREEMAN'S BRIDGE		

Sample Custodian: (Signature)

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	[redacted] PLM	FESTABC	Group #
1	OBS - 2A	9/9/03		X				↓	Y	
2	OBS - 2B	↓		↓				↓	Y	24
3	OBS - 2C	↓		↓				↓	Y	24
4	OBS - 5A	↓		↓				↓	Y	24
5	OBS 5B	↓		↓				↓	Y	25
6	OBS 5C	↓		↓				↓	Y	25
7	OBS 6A	↓		↓				↓	Y	25
8	OBS 6B	↓		↓				↓	Y	26
9	OBS 6C	↓		↓				↓	Y	26
10	OBS 7A	↓		↓				↓	Y	26
11	OBS 7B	↓		↓				↓	Y	27
12	OBS 7C	↓		↓				↓	Y	27
13										27
14										
15										
16										
17										
18										

Analysis Required | Matrix: Sample Type | Sample Container

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
[signature]	9/12/03 1400	DW FX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To:
CHRIS HARSTAKER
EARTH TECH

Remarks: [redacted]

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [ ] Samples delivered in person
- [ ] Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

SAMPLES ACCEPTED BY ANALYTICAL TIME

RECEIVED EMSL WESTMONT 05 SEP 13 AM 11:22

Rev. 10/98 | White Copy - Lab | Yellow Copy - File | Pink Copy - Client | F514/Earth.Sci

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02/FREEMAN'S BRIDGE

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:22 AM
EMSL Order: 040517568

EMSL Proj:
Analysis Date: 9/19/2005
Report Date: 10/4/2005

Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
S-3B *040517568-0001*		White/Brown Fibrous Heterogeneous	90.00% Cellulose	10.00% Non-fibrous (other)	None Detected

Analyst(s)

Delores Beard (1)

Stephen Siegel, CIH
or other approved signatory

LM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLMPointCount-1

THIS IS THE LAST PAGE OF THE REPORT.

04051756 8

E A R T H T E C H

A Tyco Infrastructure Services Company

Chain of Custody Record

Project Number	Project Name/Client	Custody Seal #	Earth Tech Cooler #
83060.02	FREEMAN'S BRIDGE		

Sample Custodian: (Signature) [signature]

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	ALM-	FEDORUC	Analysis Required: GROUP H	Matrix: Sample Type	Sample Container
1	S-3B	9/9/05		X				X	X	32		
2	S-3C	↓		X				X	X	32		CH
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
[signature]	9/12/05 1400	Bill - FX			9/13/05 11:22pm
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: CHRIS HUNSBERGER, EARTH TECH

Remarks: ANALYZE BY POSITIVE STOP BY GROUP H

Federal Express Airbill No.:

Lab:

Check Delivery Method:
- [ ] Samples delivered in person
- [ ] Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

EMSL Analytical, Inc.
[illegible]

Attn: Chris Hunsicker
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: 83060.02 FREEMAN'S BRIDGE

Customer ID: RE150
Customer PO:
Received: 09/13/05 11:24 AM
EMSL Order: 040517544

EMSL Proj:
Analysis Date: 9/19/2005
Report Date: 9/19/2005

Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via the NY State ELAP 198.6 Method

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
RMOB-1A *040517544-0001*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
RMOB-1B *040517544-0002*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
RMOB-1C *040517544-0003*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
1OB-2A *J517544-0004*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
RMOB-2B *040517544-0005*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
RMM-1A *040517544-0006*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
RMM-1B *040517544-0007*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected
RMM-1C *040517544-0008*		Black Non-Fibrous Homogeneous	100.0	None	Inconclusive: No Asbestos Detected

Analyst(s)

Delores Beard (8)

Stephen Siegel, CIH
or other approved signatory

*Polarized Light Microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. The test results contained within this report meet the requirements of NELAC unless otherwise noted. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. The above test report relates only to the items tested. EMSL bears no responsibility for sample collection activities or analytical method limitations.

ACCREDITATIONS: AIHA #100192, NVLAP #101048-0 and NY STATE ELAP #10872

NYS198-2

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: ssiegel@EMSL.com

Attn: **Chris Hunsicker**
Earth Tech
40 British American Boulevard
Latham, NY 12110

Fax: (518) 951-2300 Phone: (518) 951-2200
Project: **83060.02 FREEMAN'S BRIDGE**

Customer ID: REI50
Customer PO:
Received: 09/13/05 11:24 AM
EMSL Order: 040517544

EMSL Proj:
Analysis Date: 9/20/2005
Report Date: 9/29/2005

Asbestos Analysis of Non-Friable Organically Bound materials by Transmission Electron Microscopy via NYS ELAP Method 198.4

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
RMOB-1A *040517544-0001*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected	
RMOB-1B *040517544-0002*		Black Non-Fibrous Homogeneous	99.4	None	<1 Chrysotile	<1
RMOB-1C *040517544-0003*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected	
.MOB-2A *040517544-0004*		Black Non-Fibrous Homogeneous	99.3	None	<1 Chrysotile	<1
RMOB-2B *040517544-0005*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected	
RMM-1A *040517544-0006*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected	
RMM-1B *040517544-0007*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected	
RMM-1C *040517544-0008*		Black Non-Fibrous Homogeneous	100.0	None	No Asbestos Detected	

Analyst(s)
Anant Samudra (8)

Stephen Siegel, CIH
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted.
ACCREDITATIONS: AIHA #100194, NVLAP #101048-0 and NY STATE ELAP #10872

NY\TNOB-2

THIS IS THE LAST PAGE OF THE REPORT.

0405517544

EARTH TECH

A Tyco Infrastructure Services Company

Chain of Custody Record

REI 50

Project Number	Project Name/Client	Custody Seal #	Earth Tech Cooler #
B3060.02	FREEMANS BRIDGE		

Sample Custodian: (Signature)

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	PLM-Friable	Analysis Required	Grasp #	Matrix: Sample Type	Matrix: Sample Container
1	RMOB- 2A	9/9/05		X				N		28		
2	2B							N		28		
3	2C							N		28		
4	RMOB - 2A							N		29		
5	RMOB 2B							N		29		
6	RMM- 2A							N		30		
7	2B							N		30		
8	2C							N		30		
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

Relinquished By: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
	9/12/05 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To:
CHRIS HUNERLICH
EARTH TECH

Rem: [redacted]

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [ ] Samples delivered in person
- [ ] Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

RECEIVED
WESTBORO, MA
2005 SEP 13 AM 11:24

Rev. 10/98

White Copy - Lab Yellow Copy - File Pink Copy - Client F514/Earth.Sci

APPENDIX B

Credentials

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

PATRICE M POOLE

CLASS
D INSPECTOR

CERT# 06-05628
EXPIRES 04/06

MUST BE CARRIED ON ASBESTOS PROJECTS

DMV# 590990642
EYES BRO
HAIR BLK
HGT 5' 05"

IF FOUND RETURN TO:
NYSDOL -- L&C UNIT
ROOM 161 BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

RESTRICTED LICENSE
Asbestos Removal Not Permitted

Contractor: **EARTH TECH, INC. DBA EARTH TECH NORTHEAST, INC.**

40 BRITISH AMERICAN BLVD.
LATHAM, NY 12110

LICENSE NUMBER: **04-0306**

DATE OF ISSUE: **6 /1 /2005**

EXPIRATION DATE: **6/30/2006**

Duly Authorized Representative: **Thomas J. Cascino, P.E.**

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (6-03)

Anthony Germano, Director
FOR THE COMMISSIONER OF LABOR