

Loeffel Landfill Site Update Meeting  
June 27<sup>th</sup>, 2007  
Schodack Town Hall

Agenda

- 2006 Fish Sampling results and interpretation - DF&W, DOH
- Five - year evaluation of Operable Unit 03 remedy - DER/DF&W
- Status of the on & off-site groundwater and landfill leachate collection and treatment remedial design and construction - DER
- Status of the construction of the Nassau Lake replacement dam - DER/Town of Schodack/Lake Association.
- semi - annual groundwater monitoring results - DER/DOH
- Plans for next Update Meeting

## 2006 Valatie Kill - Nassau Lake PCB Summary Table

Location	Species	# of Samples (# of Analyses)	Percent Lipid	Length (mm)	Weight (g)	Total PCB (ppm)	Lipid PCB (ppm)
Valatie Kill - at T-14	Blacknose dace	20 (2)	2.90 (2.18 - 3.61)	70 (64 - 80)	3 (2 - 5)	1.28 (0.90 - 1.66)	43.52 (41.19 - 45.84)
	Creekchub	11 (3)	2.52 (1.67 - 3.35)	113 (89 - 149)	17 (9 - 35)	0.36 (0.28 - 0.55)	16.68 (9.25 - 32.87)
	Common shiner	7 (2)	3.84 (3.05 - 4.43)	90 (78 - 104)	7 (6 - 12)	1.86 (1.74 - 1.95)	49.56 (43.97 - 57.02)
	Fallfish	6 (4)	4.75 (4.11 - 4.90)	152 (105 - 185)	38 (11 - 65)	2.25 (1.03 - 4.64)	49.21 (21.00 - 112.90)
	Brook trout	2 (2)	4.26 (4.21 - 4.32)	175 (170 - 180)	57 (54 - 60)	0.21 (0.07 - 0.35)	4.89 (1.73 - 8.06)
	White sucker	20 (7)	2.96 (2.00 - 4.85)	121 (61 - 267)	34 (3 - 160)	1.05 (0.07 - 6.59)	29.61 (2.70 - 135.88)
T-11A - above Former Mead Rd. Pond	Blacknose dace	7 (2)	5.92 (5.34 - 6.35)	62 (58 - 73)	2 (2 - 4)	25.33 (24.90 - 25.90)	431.94 (392.13 - 485.02)
	Creekchub	16 (8)	6.32 (5.00 - 8.51)	79 (58 - 88)	6 (4 - 8)	2.46 (1.91 - 3.85)	39.95 (22.44 - 59.78)
	Crayfish species	5 (1)	0.30	-	6	0.80	265.00
	Green frog	6 (6)	1.60 (1.04 - 2.36)	-	18 (11 - 24)	0.48 (0.04 - 1.54)	36.02 (2.89 - 147.69)
	Leopard Frog	4 (2)	1.25 (1.05 - 1.45)	-	14 (13 - 15)	1.28 (1.01 - 1.55)	101.78 (96.67 - 106.90)
Former Mead Rd. Pond	Blacknose dace	33 (6)	2.27 (1.46 - 3.44)	56 (37 - 80)	2 (1 - 6)	38.15 (19.70 - 63.50)	1741.41 (1000.00 - 3023.81)
	Creekchub	22 (7)	3.67 (0.53 - 5.32)	83 (40 - 144)	8 (2 - 31)	4.05 (1.94 - 5.93)	141.75 (62.59 - 365.66)
	Crayfish species	9 (3)	0.69 (0.41 - 2.70)	-	8 (7 - 11)	1.00 (0.86 - 1.33)	201.16 (46.11 - 256.54)
	Brook trout	1	0.58	76	4	4.37	753.45
	Tadpole	16 (3)	2.70 (1.12 - 4.62)	-	27 (20 - 36)	0.93 (0.87 - 1.02)	48.09 (18.96 - 77.32)
T-11A - Upper Third	Blacknose dace	8 (2)	8.09 (6.06 - 9.31)	61 (54 - 78)	2 (2 - 5)	31.94 (28.25 - 34.15)	404.07 (366.81 - 466.17)
	Creekchub	33 (9)	4.70 (2.52 - 6.54)	83 (66 - 111)	7 (5 - 16)	7.46 (3.74 - 12.48)	158.36 (105.76 - 263.63)
	Brook trout	21 (8)	3.19 (1.97 - 6.11)	83 (62 - 160)	8 (4 - 43)	7.33 (5.24 - 22.65)	231.23 (159.89 - 370.70)
T-11A - Middle Third	Blacknose dace	20 (2)	5.50 (5.24 - 5.75)	58 (51 - 70)	2 (2 - 4)	51.30 (48.70 - 53.90)	933.39 (929.39 - 937.39)
	Creekchub	10 (2)	4.56 (4.16 - 4.83)	78 (70 - 88)	6 (5 - 9)	5.36 (5.28 - 5.48)	118.39 (109.42 - 131.85)
	Brook trout	79 (14)	3.27 (2.24 - 5.91)	68 (48 - 145)	5 (2 - 36)	16.48 (9.60 - 42.00)	499.48 (371.02 - 767.99)
T-11A Lower Third	Blacknose dace	4 (1)	3.60	62	2	26.85	745.83
	Creekchub	5 (2)	4.95 (4.82 - 5.14)	85 (76 - 94)	7 (7 - 9)	7.41 (6.67 - 8.53)	149.41 (138.38 - 165.95)
	Longnose dace	6 (2)	9.12 (8.33 - 9.90)	75 (69 - 82)	4 (4 - 6)	29.38 (23.90 - 34.85)	329.89 (241.41 - 418.37)
	Brook trout	29 (9)	2.98 (2.32 - 4.02)	60 (46 - 74)	3 (2 - 5)	19.66 (13.55 - 26.90)	666.12 (474.03 - 975.38)
Valatie Kill - Just Below T-11A	Blacknose dace	20 (2)	3.64 (2.59 - 4.68)	63 (46 - 77)	2 (2 - 4)	16.84 (9.74 - 23.95)	566.36 (208.01 - 924.71)
	Bluegill	12 (2)	1.62 (1.28 - 1.96)	80 (76 - 88)	8 (7 - 10)	0.07 (0.06 - 0.09)	4.48 (4.38 - 4.59)
	Common shiner	12 (3)	2.09 (1.84 - 2.25)	90 (84 - 109)	7 (6 - 12)	3.76 (3.24 - 4.69)	179.89 (144.00 - 214.16)
	Fallfish	1	5.50	184	56	5.34	97.09
	Longnose dace	19 (3)	3.29 (1.76 - 6.08)	66 (47 - 101)	3 (2 - 11)	8.85 (3.32 - 12.48)	420.85 (91.53 - 708.81)
	Brook trout	7 (7)	5.65 (3.39 - 7.94)	236 (156 - 295)	169 (36 - 288)	9.51 (2.55 - 21.95)	187.25 (32.09 - 535.37)
	White sucker	2 (2)	4.65 (2.05 - 7.25)	212 (150 - 275)	133 (32 - 234)	6.74 (3.80 - 9.68)	159.35 (133.59 - 185.12)

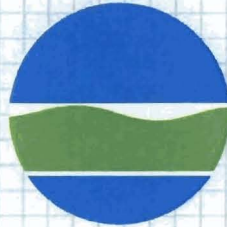
## 2006 Valatie Kill - Nassau Lake PCB Summary Table Continued

Location	Species	# of Samples (# of Analyses)	Percent Lipid	Length (mm)	Weight (g)	Total PCB (ppm)	Lipid PCB (ppm)
Valatie Kill - Above Area 28	Blacknose dace	6 (1)	2.59	71	3	13.33	514.67
	Bluegill	2 (1)	3.52	78	8	1.44	41.05
	Creekchub	7 (3)	4.46 (3.94 - 5.04)	126 (98 - 161)	26 (11 - 50)	2.24 (1.84 - 2.90)	50.11 (41.49 - 57.44)
	Longnose dace	8 (1)	6.41	70	4	4.46	69.58
	Pumpkinseed	1	2.08	193	169	4.64	223.08
	Brook trout	2 (2)	8.00 (6.32 - 9.68)	255 (217 - 293)	206 (109 - 304)	5.69 (3.70 - 7.69)	68.95 (58.46 - 79.44)
	White sucker	16 (11)	4.46 (1.08 - 6.94)	190 (77 - 385)	111 (6 - 484)	3.92 (0.18 - 10.28)	82.71 (16.67 - 168.33)
Valatie Kill - At Area 28	Blacknose dace	23 (3)	3.63 (3.24 - 3.91)	68 (52 - 86)	3 (2 - 7)	7.57 (6.22 - 9.48)	210.19 (159.08 - 253.61)
	Bluegill	1	2.98	93	14	0.64	21.38
	Creekchub	25 (6)	4.51 (2.47 - 6.04)	112 (96 - 149)	15 (10 - 35)	2.47 (1.04 - 4.14)	53.42 (42.02 - 68.54)
	Fantail darter	4 (1)	0.20	70	3	0.94	469.50
	Longnose dace	9 (1)	7.02	66	3	3.20	45.51
	Pumpkinseed	1	4.86	94	14	4.56	93.83
	Redbreast sunfish	1	5.45	107	24	4.53	83.03
	Brook trout	3 (3)	5.52 (4.89 - 6.00)	191 (180 - 206)	81 (66 - 97)	3.05 (1.43 - 4.94)	57.60 (25.20 - 101.02)
	Tessellated darter	6 (1)	5.26	63	2	4.86	92.40
	White sucker	10 (2)	3.66 (3.50 - 3.91)	80 (65 - 104)	6 (4 - 13)	2.91 (2.71 - 3.04)	79.84 (69.31 - 86.86)
Valatie Kill - Below Area 28	American eel	2 (2)	9.60 (4.30 - 14.90)	524 (265 - 783)	502 (32 - 972)	4.99 (3.20 - 6.79)	59.94 (45.57 - 74.30)
	Brown bullhead	13 (2)	3.32 (3.30 - 3.32)	90 (72 - 124)	11 (8 - 28)	2.26 (1.95 - 2.35)	68.02 (59.03 - 70.72)
	Bluegill	11 (6)	2.40 (2.20 - 2.96)	119 (80 - 196)	43 (11 - 168)	1.74 (1.23 - 3.94)	71.23 (52.97 - 137.76)
	Creekchub	3 (1)	3.86	142	33	0.96	24.84
	Longnose dace	7 (2)	6.38 (5.66 - 6.92)	90 (64 - 119)	9 (4 - 19)	4.59 (3.84 - 5.59)	74.04 (55.49 - 98.76)
	Pumpkinseed	8 (2)	2.62 (2.44 - 2.80)	85 (79 - 94)	10 (9 - 13)	2.70 (2.60 - 2.80)	103.61 (92.68 - 114.55)
	Brook trout	7 (2)	4.20 (3.30 - 5.40)	75 (64 - 88)	4 (4 - 8)	1.93 (1.64 - 2.15)	50.25 (30.37 - 65.15)
	White sucker	4 (2)	3.78 (2.86 - 4.70)	148 (121 - 172)	38 (25 - 60)	2.12 (1.54 - 2.70)	55.56 (53.78 - 57.34)
	Yellow perch	2 (1)	5.05	98	10	5.66	112.18
	Nassau Lake	American eel	3 (3)	11.67 (5.33 - 23.90)	597 (404 - 816)	492 (96 - 1014)	7.17 (1.05 - 15.48)
Brown bullhead		15 (15)	1.02 (0.28 - 2.00)	340 (239 - 559)	530 (186 - 748)	2.71 (0.35 - 6.79)	333.87 (47.30 - 951.79)
Largemouth bass		15 (15)	0.74 (0.21 - 2.74)	404 (327 - 477)	1044 (486 - 1824)	3.10 (0.53 - 11.38)	735.23 (115.00 - 5419.05)
White perch		4 (4)	2.01 (0.48 - 5.68)	298 (282 - 317)	398 (302 - 544)	14.83 (8.88 - 23.48)	1532.82 (237.24 - 2209.02)
Yellow perch		15 (15)	0.75 (0.33 - 2.32)	237 (192 - 286)	155 (89 - 226)	0.80 (0.31 - 2.28)	117.36 (28.84 - 236.06)
Valatie Kill - Below Nassau L. Dam	American eel	1	4.24	414	128	1.34	31.56
	Bluegill	3 (3)	3.02 (1.11 - 5.52)	195 (187 - 202)	147 (117 - 164)	2.04 (0.05 - 4.34)	51.65 (4.50 - 78.62)
	Cutlip minnow	15 (4)	3.06 (2.58 - 3.70)	82 (58 - 134)	9 (3 - 31)	1.22 (0.43 - 3.00)	37.12 (16.74 - 80.95)
	Longnose dace	15 (4)	7.44 (5.74 - 9.68)	78 (64 - 99)	6 (4 - 13)	1.26 (1.17 - 1.37)	17.69 (12.76 - 22.46)
	Rock bass	3 (3)	1.38 (0.96 - 2.06)	201 (198 - 204)	176 (167 - 181)	0.70 (0.57 - 0.93)	58.90 (29.56 - 96.77)
	Redbreast sunfish	5 (2)	3.93 (2.48 - 4.29)	76 (59 - 123)	12 (4 - 39)	1.09 (1.03 - 1.34)	30.00 (24.01 - 53.95)
	White sucker	1	2.61	159	43	0.52	19.92
Yellow bullhead	1	1.92	85	112	0.39	20.31	

## **Five – year Monitoring Plan Operable Unit 03**

- DER, with concurrence from DFW, has concluded that the appropriate start date for the 5-year fish monitoring plan is 2006. Fish collected in 2006 represent the start of baseline conditions as these fish should no longer exhibit short term adverse environmental impacts caused by the intrusive construction activities completed in the Valatie Kill - Area 28 in 2005.
- Added to DEC UIS system for tracking

# **BEDROCK AQUIFER INVESTIGATION OFF-SITE PUMPING SYSTEM**



## **DEWEY LOEFFEL SITE OPERABLE UNIT 02**

TOWN OF NASSAU  
RENSSELAER COUNTY, NEW YORK  
(SITE REGISTRY NO. 4-42-006)

WORK ASSIGNMENT NO. D004446-15

Prepared For

**New York State Department  
of Environmental Conservation**

JUNE 2007



DVIRKA AND BARTILUCCI  
CONSULTING ENGINEERS  
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

## TECHNICAL SPECIFICATIONS

<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>Division 1</b>	<b>Special Conditions</b>	
01010	Summary of Work	01010-1 thru 17
01392	Modifications to Minimum Requirements for Health and Safety	01392-1 thru 2
01650	Testing of Equipment and Starting of System	01650-1 thru 8
01651	System Operation, Maintenance and Monitoring	01651-1 thru 13
<b>Division 2</b>	<b>Sitework</b>	
02200	Earthwork	02200-1 thru 20
02540	Access Road and Parking Areas	02540-1 thru 7
02447	Fencing	02447-1 thru 9
<b>Division 3</b>	<b>Concrete</b>	
03200	Reinforcing Steel	03200-1 thru 4
03300	Cast-in-Place Concrete	03300-1 thru 21
03400	Pre-Cast Concrete Structures	03400-1 thru 4
<b>Division 15</b>	<b>Mechanical</b>	
15062	Stainless Steel Piping	15062-1 thru 6
15063	High Density Polyethylene (HDPE) Pipe	15063-1 thru 11
15064	Thermoplastic Pipe	15064-1 thru 6
15068	Small Diameter Piping, Valves and Specials	15068-1 thru 8
15441	Bedrock Extraction Well Installation and Development	15441-1 thru 10
<b>Division 16</b>	<b>Electrical</b>	
16100	General Provisions	16100-1 thru 6
16101	Electrical Service	16101-1 thru 3
16111	Conduit	16111-1 thru 9
16117	Sealing Fittings	16117-1 thru 2
16118	Flexible Conduits	16118-1 thru 3
16122	600-Volt Cable	16122-1 thru 4
16131	Pull and Junction Boxes	16131-1 thru 3
16134	Outlet Boxes	16134-1 thru 2
16140	Switches	16140-1 thru 2
16141	Receptacles	16141-1 thru 2
16160	Lighting and Distribution Panelboards	16160-1 thru 3
16321	Dry Type Transformers	16321-1 thru 3

**TECHNICAL SPECIFICATIONS** (continued)

<b><u>Section</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
16402	Underground Duct Banks	16402-1 thru 4
16404	Manholes and Handholes	16404-1 thru 3
16450	Grounding System	16450-1 thru 3
16855	Heat Tracing System	16855-1 thru 2



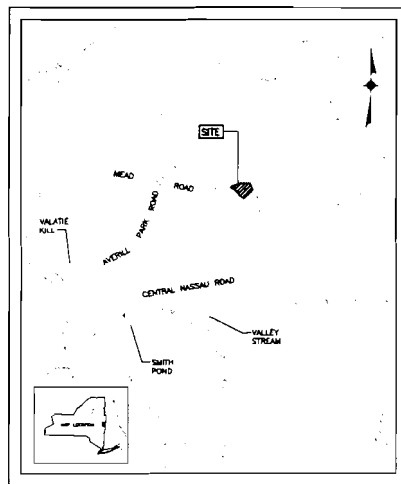
**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**DEWEY-LOEFFEL SITE OPERABLE UNIT No. 2  
NASSAU, NEW YORK**

SITE NO. 4-42-008

**BEDROCK AQUIFIER INVESTIGATION OFF-SITE PUMPING SYSTEM**

**CONTRACT NO. 2592 - GENERAL CONSTRUCTION**



**LOCATION MAP**

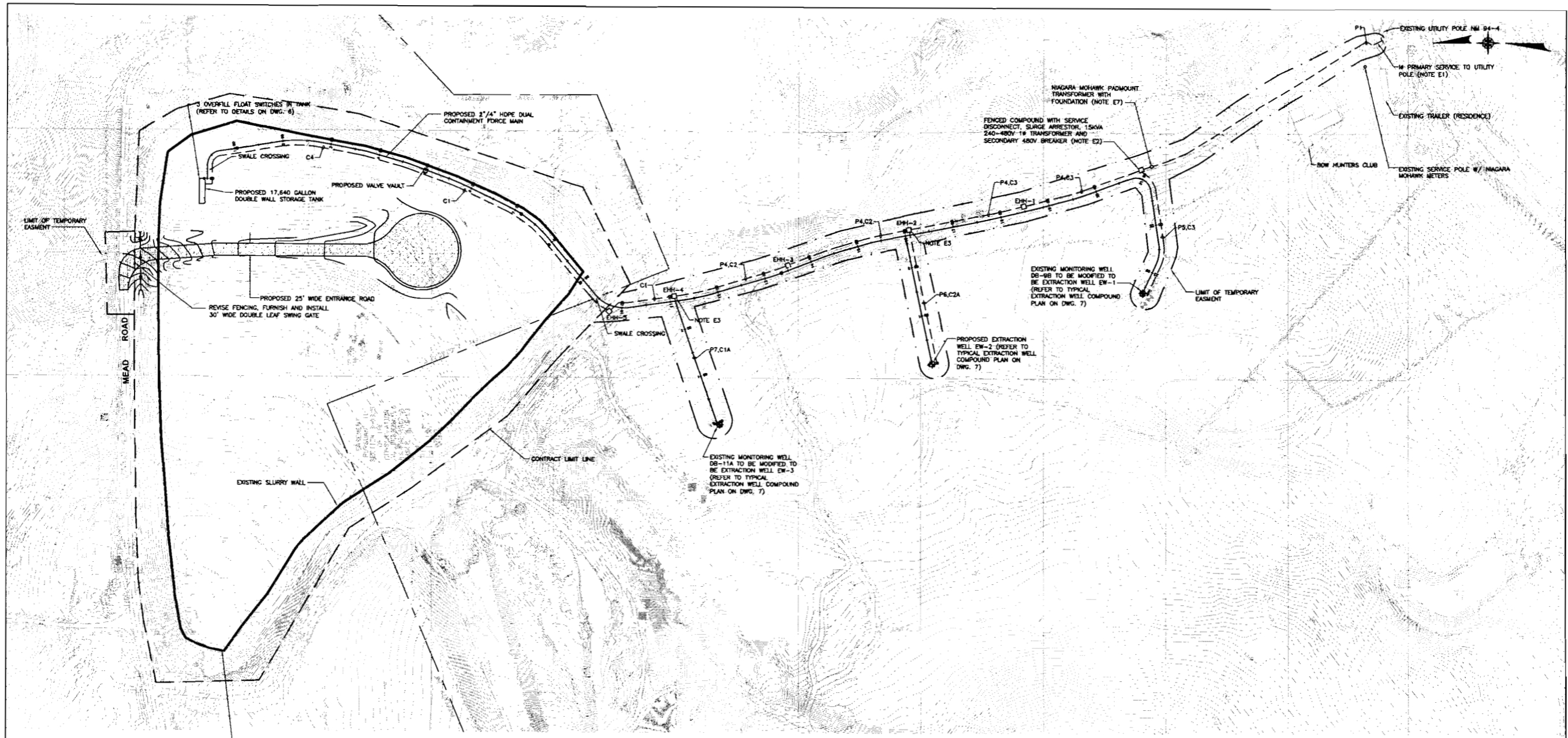
LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
-	TITLE SHEET
1	OVERALL SITE PLAN
2	SITE PLAN
3	FORCE MAIN PROFILES I
4	FORCE MAIN PROFILES II
5	WELL DETAILS
6	DETAILS I
7	DETAILS II
8	DETAILS III
9	ELECTRICAL DETAILS I
10	ELECTRICAL DETAILS II

APRIL 2007

**db** Dvirka  
and  
Bartilucci  
CONSULTING ENGINEERS  
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.





THE LANDFILL AREA, AS BOUNDED BY SLURRY WALL IS AN EXPLOSION HAZARD AREA. ALL AREAS BELOW GRADE ARE CLASS 1, DIVISION 1 AND ALL AREAS FROM GRADE TO 1'-6" ABOVE GRADE ARE CLASS 1, DIVISION 2.

LEGEND:  
 ——— CONTRACT LIMIT  
 - - - - - LIMIT OF TEMPORARY EASEMENT

- ELECTRICAL NOTES:**
- E1. FURNISH AND INSTALL 14 DIRECT BURIED UNDERGROUND ELECTRICAL SERVICE TO NIAGARA MOHAWK RISER POLE. COORDINATE WITH NIAGARA MOHAWK AS REQUIRED.
  - E2. FURNISH AND INSTALL SUPPORT STRUCTURE FOR UTILITY METER, SERVICE DISCONNECTS, SURGE ARRESTOR, TRANSFORMER AND SECONDARY CIRCUIT BREAKER. TRANSFORMER, SERVICE DISCONNECTS, AND SECONDARY CIRCUIT BREAKER SHALL BE FURNISHED WITH NEMA 4X STAINLESS STEEL ENCLOSURES. SURGE ARRESTOR SHALL BE WECO MODEL 120M (120,000 AIC, NEMA 4 ENCLOSURE) OR APPROVED EQUAL.
  - E3. TAP 480V, 1Ø FEEDER P4 IN HANDHOLES FOR BRANCH FEEDERS TO EXTRACTION WELLS EW-2 (CONDUIT P6) AND EW-3 (CONDUIT P7).
  - E4. FOR ELECTRICAL HANDHOLE DETAIL AND BELOW GRADE CONDUIT DETAILS, REFER TO DWG. 10.
  - E5. THE SPARE CABLES IN THE VALVE VAULT SHALL BE COILED (2' SLACK), TAGGED AS SPARE (CONTROLS FOR FUTURE TREATMENT PLANT) AND ENCLOSED IN A PULLBOX. THE VALVE VAULT IS A CLASS 1, DIVISION 1 EXPLOSION HAZARD AREA.
  - E6. REFER TO DWG. 8 FOR SINGLE LINE DIAGRAM.
  - E7. INSTALL PADMOUNT TRANSFORMER (FOUNDATION, ETC.) PER NIAGARA MOHAWK REQUIREMENTS.

NO.	DATE	REVISION	BY

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

PROJECT ENGINEER TJF	DRAWN BY DGC
IN CHARGE BY EJR	CHECKED BY MRD



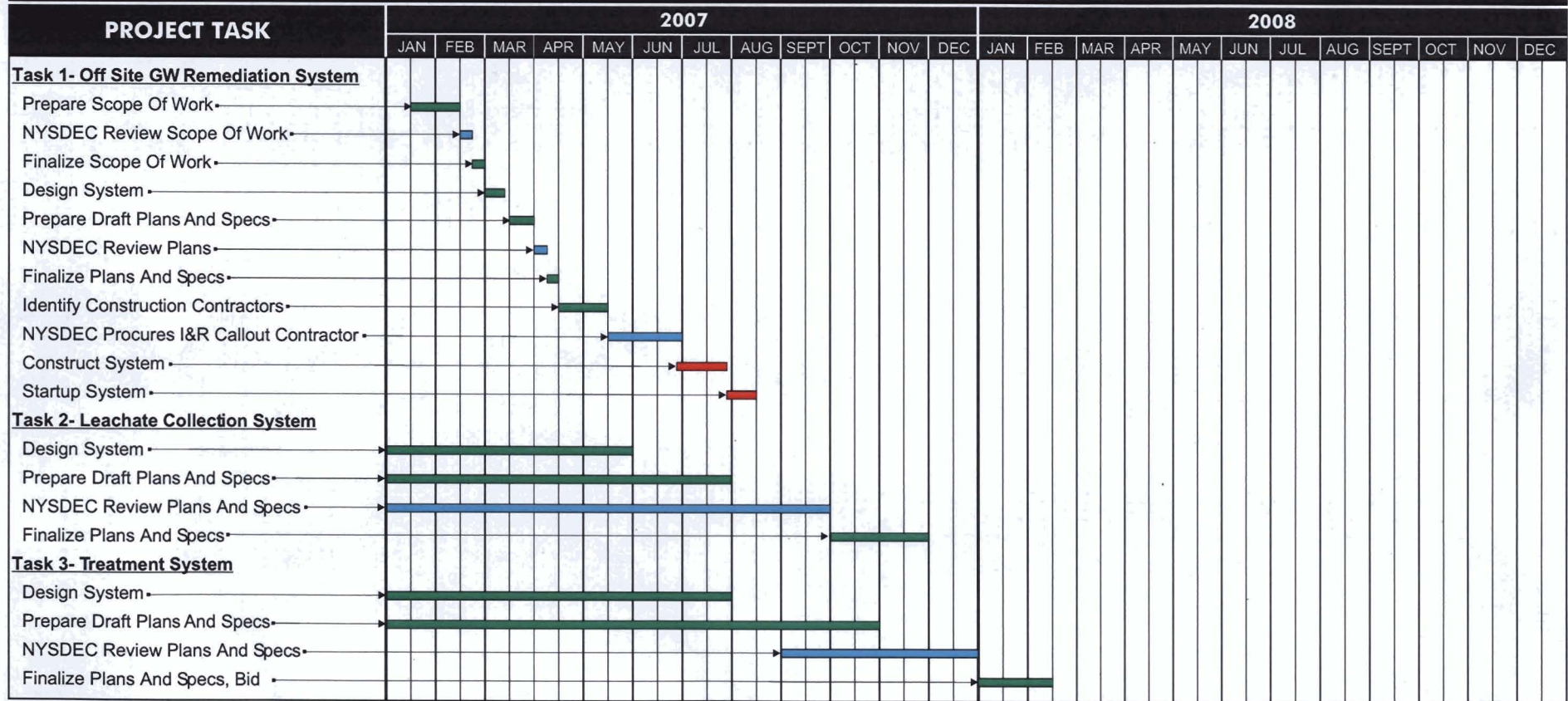
NEW YORK STATE  
 DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 RENSSELAER COUNTY NEW YORK  
 DEWEY-LOEFFEL SITE - OPERABLE UNIT 2  
 SITE NO. 4-42-006  
 BEDROCK AQUIFER INVESTIGATION OFF-SITE PUMPING SYSTEM

PROJECT NO. 2592  
 DATE APRIL 2007  
 SCALE 1"=80'

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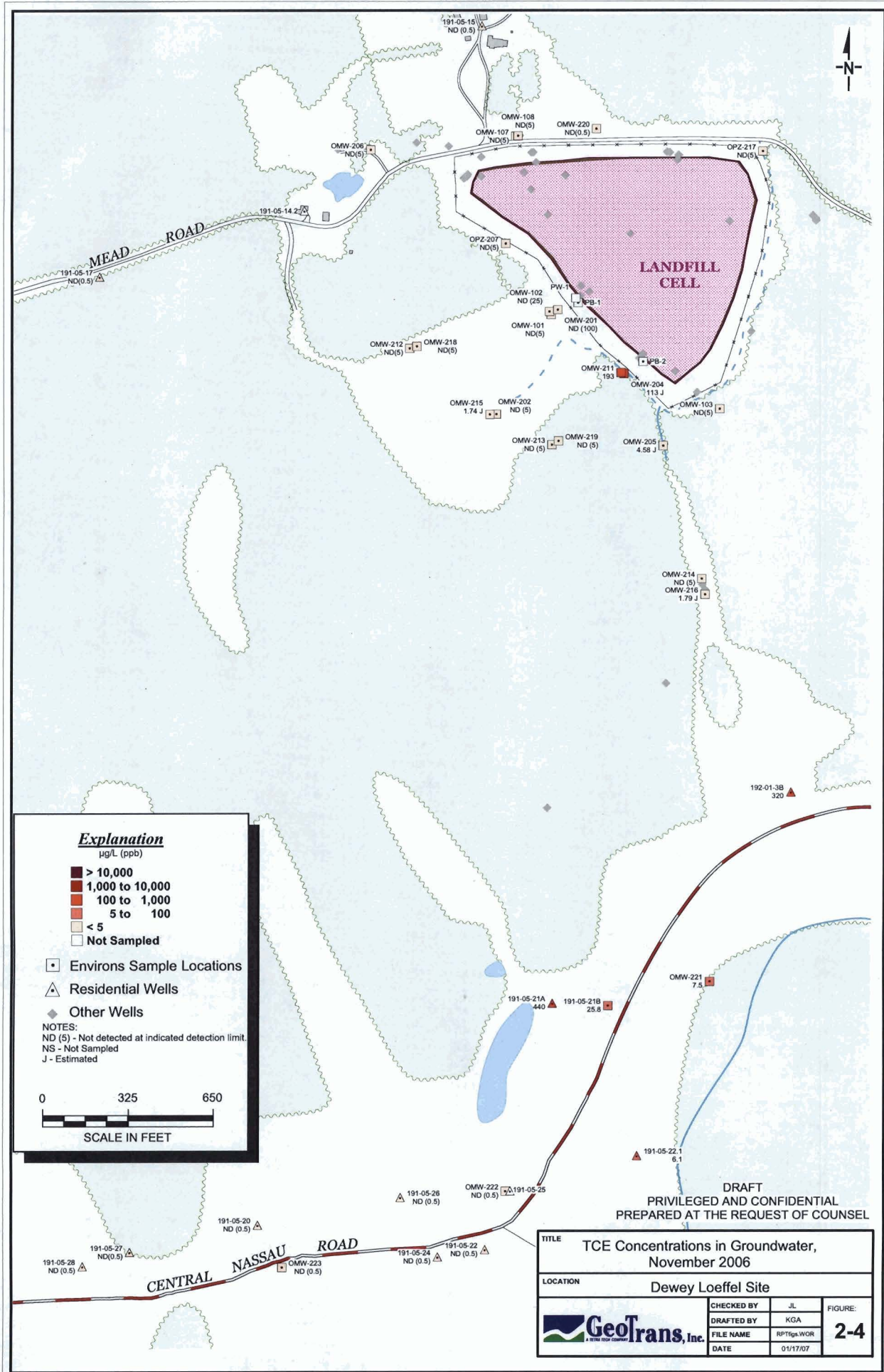


# Dewey Loeffel Remedial Design



█ D&B Activity  
█ NYSDEC Activity  
█ I&R Contractor Construction

## Project Schedule



**Explanation**  
µg/L (ppb)

- > 10,000
- 1,000 to 10,000
- 100 to 1,000
- 5 to 100
- < 5
- Not Sampled

- Environs Sample Locations
- Residential Wells
- Other Wells

NOTES:  
 ND (5) - Not detected at indicated detection limit  
 NS - Not Sampled  
 J - Estimated

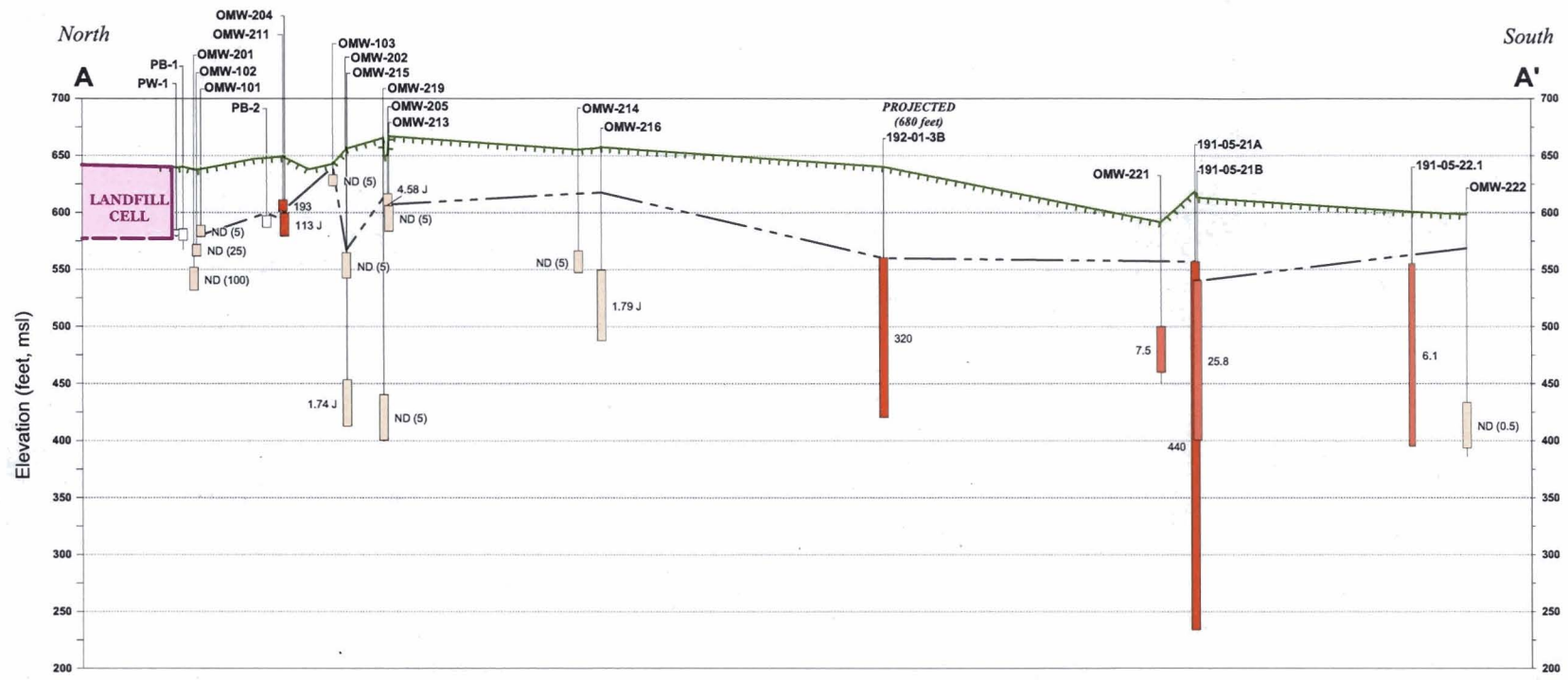
0      325      650  
 SCALE IN FEET

DRAFT  
 PRIVILEGED AND CONFIDENTIAL  
 PREPARED AT THE REQUEST OF COUNSEL

TITLE TCE Concentrations in Groundwater, November 2006		
LOCATION Dewey Loeffel Site		
CHECKED BY JL	FILE NAME RPTfigs.WOR	FIGURE: <b>2-4</b>
DRAFTED BY KGA	DATE 01/17/07	



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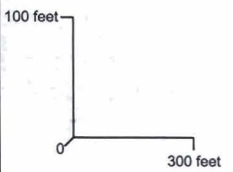


**Explanation**

- µg/L (ppb)
- > 10,000
- 1,000 to 10,000
- 100 to 1,000
- 5 to 100
- < 5
- Not Sampled

- ▲ Ground Surface at Well Location
- ▲ Top of Bedrock at Well Location

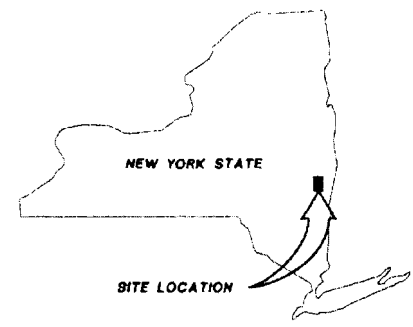
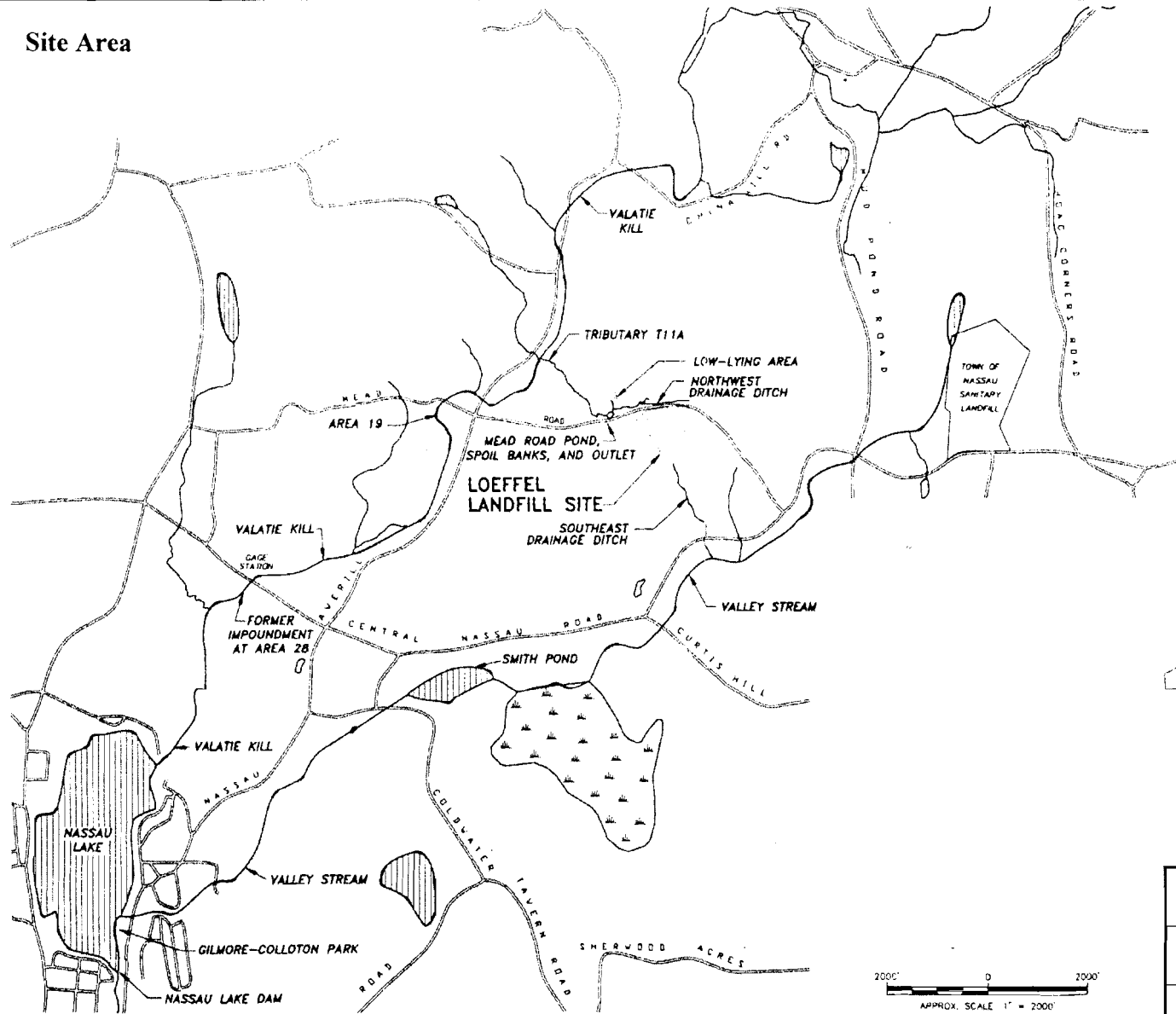
NOTES: Wells projected 500 feet or less, except 192-01-3B  
 ND (5) - Not detected at indicated detection limit  
 J - Estimated



DRAFT  
 PRIVILEGED AND CONFIDENTIAL  
 PREPARED AT THE REQUEST OF COUNSEL

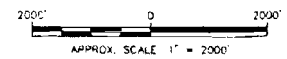
TITLE		TCE Concentrations in Groundwater, Cross-Section A-A', November 2006	
LOCATION		Dewey Loeffel Site	
CHECKED BY	JL	FIGURE:	2-5
DRAFTED BY	KGA		
FILE NAME	RPT\Figs_WOR		
DATE	01/17/07		

Site Area



LOEFFEL SITE ENVIRONS  
FEASIBILITY STUDY REPORT

SITE LOCATION PLAN



**BBL** BLASLAND, BOUCK & LEE, INC.  
engineers & scientists

FIGURE  
1-1

L. DWYER, OPT-1067  
P. STO-ACD/BL  
8/2/78-34-578-WFS, PGL, AK  
1507300/1007300 DWG

# Loeffel Meeting

June 27, 2007  
Schodack Town Hall

Mike Komoroske	NYS DEC	518 402-9818
Jim Ludlam	NYS DEC	402-9818
DAN SPILMAN	UNCAGED metsexpos@earthlink.net	477-7665
Beth Secor	Town of Schodack, Supervisor	477-7918
Steve Karpinski	MYS DOH	402-2778
TOM TOBIA	NASSAU COUNTY DEC.	766-2287
Pam Leves	UNCAGED	766-4176 pamLev5@AOL.com
Kelly Travers-Main	UNCAGED	Ktm@bax.com
Ed Swartz	Renss. Co	270 2881
Frank Ferraro	Renss. Co	766 0208
Ann Shughnessy	Renss. Co. EMC	270-2888
Joe Anniello	NLP IA	766-0024/
JUDIE BRINDLE	NLP IA	766 4636
Flora Fasoldt	Renss. Co. Legislature	674-0223
DON CARPENTIER	TOWN of NASSAU Board	766-2422
TONY FORTI	NYS DOH	402-7815
MIKE KANE	NYS DEC	402-8973
Martin Reid	Renss. Co. Legislature	674-8301
Larry Skinner	NYS DEC / DFAW	402-8969