New York State Department of Environmental Conservation - Region 3 Office
Brownfield Cleanup Program
Site Eligibility Worksheet

The information to be provided on this work sheet is intended to clarify and expand upon the information provided on the Brownfield Cleanup Program (BCP) application form. This information will be useful in identifying potential eligibility issues and in defining which portions of the property are eligible for acceptance in the BCP. Use of this work sheet is not mandatory, but is recommended to help ensure that potential eligibility issues are brought to light early in the application review process.

Applicant Name (from page 1 of BCP application):	Foot of Main, LLC
Site Name (from page 2 of BCP application):	Former Tidewater Terminal

Provide the following information for each parcel which is proposed to be included in the BCP. Use one copy of this form for each separate parcel. Attach additional sheets if needed:

1. Tax ID (Sheet/Block/Lot): 66.39-1-2

2. What is the size of parcel ? (indicate whether in acres or square feet) 2.6 acres (site is 1.1 acres)

3. What portion of the parcel is known or suspected to have been impacted by contamination ? (indicate whether in acres or square feet) 2.6 acres, 1.3 acres of which is upland (site is 1.1 acres)

4. Describe the current use of the parcel (e.g., open space, vacant lot, buildings abandoned or in-use, industrial, commercial, residential):

parking and vacant

5. Provide an estimate of the current value of the property and indicate the basis for the estimate (e.g., tax assessment, real estate appraisal):

assessed value - $168,600; assessed value after adjustment for equalization rate - $340,606

6. Describe past uses (e.g., undeveloped, commercial, industrial, residential):

most recently: marine off-loading terminal and distribution facility for petroleum products.

prior uses include machine shop, wood-working, boat manufacturing, and residential.

7. List known or suspected source(s) of contamination (e.g. leaking underground storage tank, spill of industrial waste, floor drain, septic system, landfill, storage of pesticides or hazardous substances, former manufactured gas plant, buried incinerator ash):

leaking UST, aboveground storage tanks and underground lines.

site is bordered by a former manufacturing gas plant, contamination from which is being cleaned by ORU.

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7. Type of contamination (check all which apply):
_X_ volatile organic compounds related to petroleum (BTEX);
_X_ volatile organic contaminants/chlorinated solvents;
_X_ polycyclic aromatic hydrocarbons;
_X_ PCBs; (river sediments - not part of the project)
____ pesticides;
_X_ toxic metals - specify: lead;
_X_ other - specify: semivolatiles

8. Impacted or potentially impacted media (check all that apply): _X_ soil; _X_ sediment;
_____ surface water; _X_ groundwater; _____ private water supply; ____ public water supply;
_X_ soil gas; _____ indoor air; ____ other - specify: _____

9. Provide DEC Spill Number(s), if applicable:
92-00781

10. Have environmental quality standards/guidance values been exceeded ? _X_ Yes ___ No
___Unknown. If yes, provide the following information (add additional lines/sheets, if needed):
see attached sheet

Sample Matrix	Sample Date	Parameter Concentration	Standard or Guidance Value	Data Sources (e.g. Phase II report, sampling by applicant, other)

New York State Department of Environmental Conservation - Region 3 Office
Brownfield Cleanup Program
Site Eligibility Worksheet

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11. Describe the nature and scope of the proposed re-development project. Include the types of uses (e.g., residential, office, retail, industrial, parking, open space, etc.) and the square footage in each use category. Provide an estimate of the value of the completed project. Provide an estimate of the jobs which will be created.

The project includes the construction of approximately 16 apartment-type residences, with parking for this site and parking for the Clermont Condominium complex adjoining the south of the site.

Pubic access to the water front will be constructed. There will be no permanent jobs created by the project. Approximately 80 temporary construction workers will be required for the project. The value of the completed project will be approximately $11,200,000, based on an estimated construction cost of $200/SF.

12. Estimate potential costs of investigation and remediation, providing as many details as possible (e.g., number of monitoring wells needed times cost per well, tons of contaminated soil requiring removal times cost per ton, etc.):

$3,892,000 (See attached sheet, for details.)

13. Explain why the presence or potential presence of contamination would complicate re-development or re-use of the site. Identify any other factors or circumstances which support acceptance of the site into the BCP. (Attach additional sheets if needed):

The site is bordered to the west and south by residentially used land. The Applicant intends to develop the site for residential use. Significant groundwater and soil contamination is present from on-site sources, and soil vapor contamination is also believed present. Such contamination, unless remediated, will prohibit the planned residential development of the site.

William F. Helmer, President — Name and Title of Person Completing Worksheet

William F Helmer — Signature

5/22/2006 — Date

ATTACHMENTS TO SITE ELIGIBILITY WORKSHEET

10. Have environmental quality standards/guidance values been exceeded? Yes. Attached are summary data tables from studies by Dames & Moore (D&M 1992), Clough, Harbour & Associates (CHA 1995), and RETEC (2001). Hand-written annotations have been made on these summaries where appropriate.

12. Estimate potential costs of investigation and remediation, providing as many details as possible...

Work plan preparation	$30,000
Monitoring well construction, assuming 15 wells at $10,000 per well for drilling, installation, supervision, logs, sampling, analysis, surveying	150,000
Additional field work	50,000
Additional surveying	10,000
Reporting	50,000
Remedial design	100,000
Additional engineering	50,000
Management, legal	50,000
Subtotal	$490,000
Contaminated material excavation beneath the residential structure. Assume complete excavation of upper terrace soil/bedrock to 2' below the water table, minimum 14' deep on western side of property to within 10 feet of property line. 2 tons/CY of in place soil. 21,000 tons at $80/ton for excavation, transportation and disposal.	$1,680,000
Shoring along property line to complete excavation	200,000
Additional remedial excavation in middle and lower terraces, if needed. Assume two areas 40' x 40' x 10' deep. 1,000 tons at $80/ton for excavation, transportation and disposal, plus $20/ton backfill	100,000
Vapor barrier and subsurface venting system. 56,000 ft^2 at $4.00/$ft^2$	224,000
Foundation drainage collection, treatment, and discharge to sanitary sewer. Construction - $100,000. 1st year operation $100,000. 2nd and 3rd year operation $50,000/yr. Assume treatment not required for sewer discharge after 3rd year operation, and nominal monitoring/pump maintenance costs.	300,000
Subtotal	$2,504,000
Contingencies (30%)	898,000
TOTAL	**$3,892,000**

D&M 1992 (WITH 2006 NOTES)

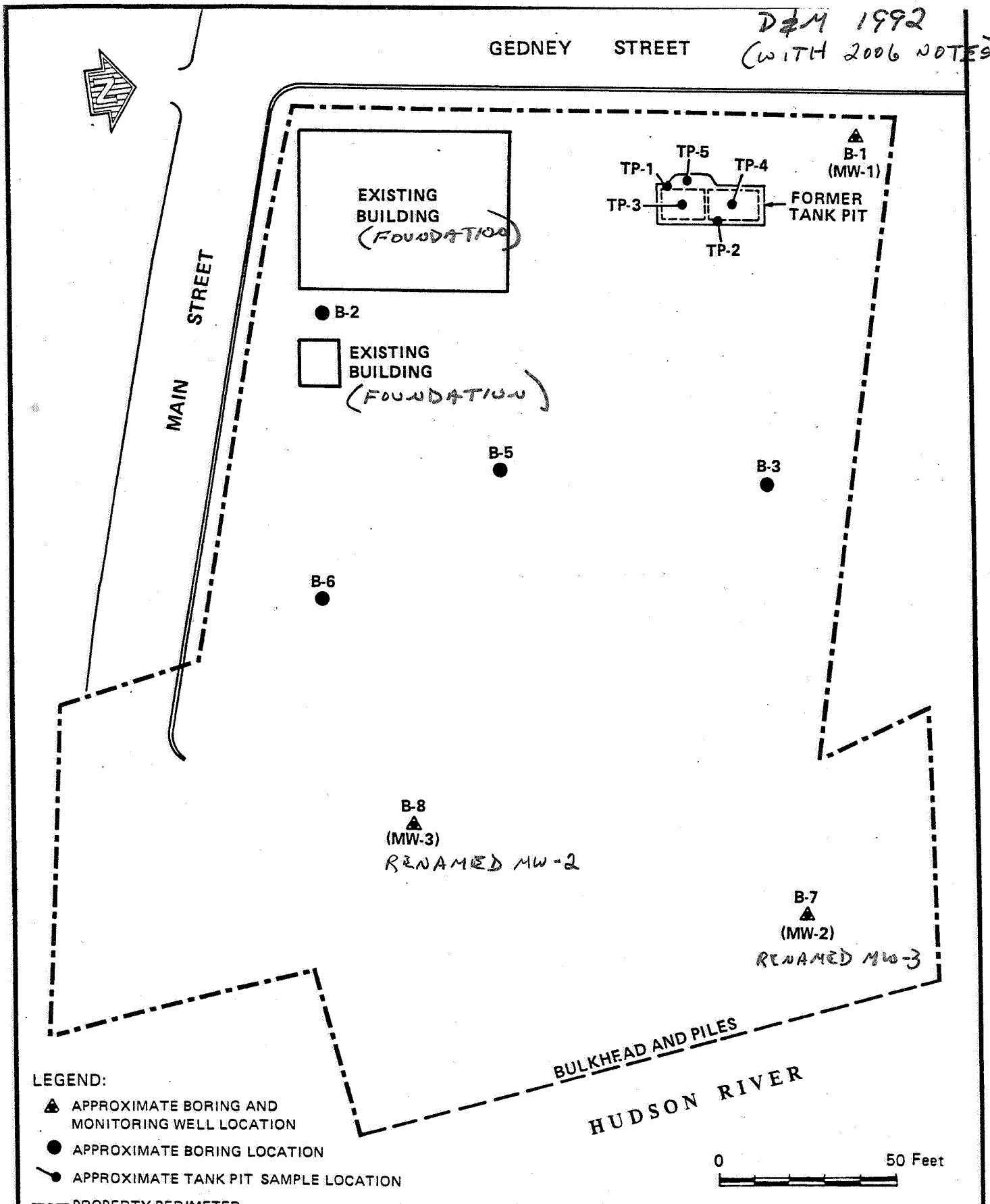

FIGURE 4
TANK PIT SAMPLE, SOIL BORING
AND MONITORING WELL LOCATIONS
CLERMONT CONDOMINIUMS
PARCEL III
NYACK, NEW YORK

Dames & Moore

D&M PHASE II A

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TABLE 3
SUMMARY OF SOIL BORING ANALYTICAL RESULTS
CLERMONT CONDOMINIUMS, PARCEL III
NYACK, NEW YORK

4/24/92

Analytical Results in ug/kg (unless indicated otherwise)

	B-1,7'-9'	B-2,2'-4'	B-3,10'-12'	B-5,4'-6'	B-5,9'-11'	B-6,10'-12'	B-8,4'-6'	B-8,6'-8'
TPHs (mg/kg) DL:	11	12	110	12	11	110	12	1200
Kerosene Range	ND	ND	ND	ND	ND	500	ND	ND
Jet Fuel Range	ND	ND	ND	ND	110	ND	ND	ND
Diesel/#2 Fuel Range	ND	ND	960	ND	ND	ND	ND	1,900
GASOLINE	<11	<12	<57	<12	<57	<56	<12	<60
VOCs Detected								
Methylene Chloride	ND	14	ND a	6.2	ND a	400	51	ND a
Ethylbenzene	5.1 J	ND	ND a	ND	ND a	2,000	ND	ND a
1,1,1-Trichloroethane	ND	ND	190 J	ND	ND a	ND	ND	ND
Toluene	ND	ND	ND	ND	ND a	ND	3.8 J	ND
Total VOCs	5.1 J	14	190 J	6.2	ND a	2,400	54.8 J	ND
SVOCs Detected								
Base-Neutrals	—	—	—	21 J	—	—	43 J	ND
Naphthalene	—	—	—	58 J	—	—	97 J	2,700
Acenaphthene	—	—	—	96 J	—	—	84 J	5,300
Fluorene	—	—	—	1,000	—	—	780	6,100
Phenanthrene	—	—	—	170 J	—	—	350 J	650
Anthracene	—	—	—	1,800	—	—	2,600	790
Fluoranthene	—	—	—	1,200	—	—	2,200	780
Pyrene	—	—	—	630	—	—	1,300	200 J
Benzo(a)anthracene	—	—	—	880	—	—	1,700	250 J
Chrysene	—	—	—	1,200	—	—	1,200	150 J
Benzo(b)fluoranthene	—	—	—	ND	—	—	2,500	110 J
Benzo(k)fluoranthene	—	—	—	680	—	—	1,500	ND
Benzo(a)pyrene	—	—	—	310 J	—	—	620	98 J
Indeno(1,2,3-cd)pyrene	—	—	—	300 J	—	—	730	ND
Benzo(g,h,i)perylene	—	—	—	ND	—	—	140 J	ND
Dibenz(a,h)anthracene	—	—	—	ND b	—	—	ND b	ND b
Acid Extractables	—	—	—	8,345	—	—	15,844	17,128
Total SVOCs	—	—	—	ND <390	—	—	ND <410	ND <400
PCBs	—	—	—	34	ND	ND	340	50
LEAD (Total) (mg/kg)	ND <11	140	ND <11		<10	<11		

NOTES:
mg/kg - milligrams per kilogram or parts per million
ug/kg - micrograms per kilogram or parts per billion
"ND" - compound not found at or above detection limit
"J" - estimated value, below sample quantitation limit
"—" - compound not analyzed for
"a" Sample analyzed with high detection limits due to matrix interference by non target copound(s); see text for details.
"b" SVOC Acid extractables were extracted and analyzed 12 to 13 days after allowable holding times; see text for details.

TOTAL TICs (NOT INCLUDING ACETONE OR FREON)

VOCs	ND	ND	2.21	ND	6.18	14.5	ND	147
BN	ND	ND	ND	7.15	ND	ND	7.23	638
AE	ND	ND	ND	3.72	ND	ND	4.03	148.6

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4/20/92

TABLE 2
Analytical Results of UST Pit Soil Sampling
Clermont Condominiums, Parcel III
Nyack, New York

Sample #	Location	Depth (in feet)	Analytical Results in mg/kg (unless indicated otherwise) TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead
TP-1	Excavation Wall (West)	6	630	ND<5.7	ND 0.0029	4.7	ND	ND<11
TP-2	Excavation Wall (East)	6	69	ND	ND	ND 0.0031 J	ND	ND
TP-3	Below 1,000g UST (South)	14	120	ND	ND 0.24 J	ND	ND	ND
TP-4	Below 1,000g UST (North)	13	44	ND	ND	ND	ND	ND
TP-5	Below Pump Island	4	240	ND	ND 0.0029 J	ND 0.0019 J	.03 [1]	53

Notes:

"ND" Not Detected or detected at or below Practical Quantitation Limits of the method and equipment

"mg/kg" Milligrams per kilogram or equivalent to parts per million (ppm).

AFTER COMPLETION OF REMEDIAL EXCAVATION

VOC D.L.: 0.0057 (TP-2, TP-4); 0.006 (TP-5); 0.38 (TP-1, TP-3)
Pb D.L.: 11 mg/kg

[1] m-XYLENE 0.013 mg/kg
o,p-XYLENE 0.01 mg/kg

D&M PHASE IIA

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TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
CLERMONT CONDOMINIUMS
NYACK, NEW YORK

9/28/92

[MW-2 IN COAL GAS REMEDIATION] [MW-4 OFF-SITE]

	SAMPLE NUMBER									
	MW-1 (a)	MW-2A	MW-2B (b)	MW-3	MW-4 (a)	FEDERAL DRINKING WATER STANDARD (c)	NEW YORK GROUNDWATER STANDARD (d)	NEW YORK GROUNDWATER GUIDANCE VALUE (e)	NEW YORK DOH STANDARD (f)	RCRA ACTION LEVEL (g)
TPHs (mg/L)										
Diesel/#2 Fuel (8015 Mod.)	0.98	22	—	2.3	ND	N/S	N/S	N/S	N/S	N/S
TPH (418.1)	ND	11	—	1	ND	N/S	N/S	N/S	N/S	N/S
VOCs Detected (ug/L)										
Benzene	ND	54	—	280 D	ND	5	BDL	N/S	5	N/S
Toluene	ND	23	—	ND	ND	1,000	5	N/S	5	10,000
Ethylbenzene	ND	74	—	ND	ND	700	5	N/S	5	4,000
Total VOCs	ND	151	—	280	ND	N/S	N/S	N/S	N/S	N/S
SVOCs Detected (ug/L)	//									
Phenol	ND	540	ND	ND	ND	N/S	1	N/S	5	20,000
Naphthalene	ND	5,700	360,000	ND	ND	N/S	N/S	10	50	N/S
Acenaphthylene	ND	110 J	19,000	ND	ND	N/S	N/S	N/S	50	N/S
Acenaphthene	ND	890	130,000	28	ND	N/S	N/S	20	50	N/S
Fluorene	ND	570	110,000	9 J	ND	N/S	N/S	50	50	N/S
Phenanthrene	ND	1,200	220,000	15 J	ND	N/S	N/S	50	50	N/S
Anthracene	ND	400	83,000	4 J	ND	N/S	N/S	50	50	N/S
Fluoranthene	ND	420	94,000	ND	ND	N/S	N/S	50	50	N/S
Pyrene	ND	680	120,000	ND	ND	N/S	N/S	50	50	N/S
Benzo(a)anthracene	ND	220	48,000	ND	ND	0.1	N/S	0.002	5	N/S
Chrysene	ND	220	47,000	ND	ND	0.2	N/S	0.002	5	N/S
Benzo(b)fluoranthene	ND	190 J	36,000	ND	ND	0.2	N/S	0.002	5	N/S
Benzo(k)fluoranthene	ND	39 J	14,000	ND	ND	0.2	N/S	0.002	5	N/S
Benzo(a)pyrene	ND	180 J	39,000	ND	ND	0.2	BDL	N/S	5	N/S
N-Nitrosodiphenylamine	ND	ND	ND	26	ND	N/S	N/S	50	50	7
2-Chloronaphthalene	ND	ND	6,000	ND	ND	N/S	N/S	10	50	N/S
2,6-Dinitrotoluene	ND	ND	2,300 J	ND	ND	N/S	5	N/S	5	0.5 (h)
2,4-Dinitrotoluene	ND	ND	9,700	ND	ND	N/S	N/S	5 (i)	5	N/S
Indeno(1,2,3-cd)pyrene	ND	ND	13,000 J	ND	ND	0.4	N/S	0.002	5	N/S
Dibenz(a,h)anthracene	ND	ND	8,200 J	ND	ND	0.3	N/S	N/S	50	N/S
Benzo(g,h,i)perylene	ND	ND	19,000 J	ND	ND	N/S	N/S	N/S	5	N/S
Total SVOCs	ND	11,359 J	1,378,200 J	82 J	ND	N/S	N/S	N/S	N/S	N/S
Metals (ug/L)										
No compounds detected	— FIELD-FILTERED SAMPLES FOR METALS									

nyackgw2.wk1

D&M PHASE IIC

Notes:

mg/L – milligrams per liter or parts per million
ug/L – micrograms per liter or parts per billion
"ND" – compound not found at or above detection limit
"J" – estimated value, below sample quantitation limit
"D" – compound detected in analysis at 1:2 dilution factor
"N/S" – Standard not set
"BDL" – Below detection limit using analytical determination in accordance with Section 703.4
"—" – compound not analyzed for
☐ Indicates compound exceeds at least one comparison standard

(a) SVOC results reflect re–extraction performed 4 days outside holding time
(b) SVOC results reflect 1:5 and 1:30 dilutions due to high levels of target compounds; reported concentrations likely represent "product" rather than groundwater
(c) Maximum Contaminant Levels (MCLs); National Primary Drinking Water Regulations; 40 CFR 141.61 and 141.11
(d) Ground Water Quality Standards; NYDEC Title 6, Chapter X, Part 703
(e) NYDEC Memorandum – Ambient Water Quality Standards and Guidance Values
(f) Dept. of Health Standards applicable only to existing and proposed sources of water supplies; values calculated as per MCL determination set forth in NYCRR 700.5, Table 3
(g) RCRA Action Level for cleanup of water at hazardous waste sites (55 FR 145, July 27, 1990
(h) Mixture of 2,6–Dinitrotoluene and other DNT compounds
(i) Principal Organic Contaminant (POC) as set by NYDEC

ADDITIONAL DATA FOR MW-1 AND MW-3

	MW-1	MW-3
METHYLENE CHLORIDE	2 J	
1,2-DICHLORO PROPANE	4 J	

NON-B-QUALIFIED TICs	#	TOTAL CONC.	#	TOTAL CONC.
VOCs	ND		14	293
SVOCs	7	1,552	25	1,669

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TABLE 3
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
CLERMONT CONDOMINIUMS
NYACK, NEW YORK

9/30/92

	SAMPLE NUMBER						NEW YORK SURFACE WATER STANDARD (a)
	SW-1A	SW-2A	SW-3A	SW-3B	SW-4A	SW-5A	
	UPSTREAM	SITE	DOWNSTREAM				
TPHs (mg/L)							
Diesel/#2 Fuel (8015 Mod.)	ND	ND	0.99	0.63	0.94	0.89	NS
TPH (418.1)	ND	ND	ND	ND	ND	ND	NS
VOCs (ug/L)							
No compounds detected							
SVOCs (ug/L)							
No target compounds detected							
Metals (ug/L)							
No compounds detected							

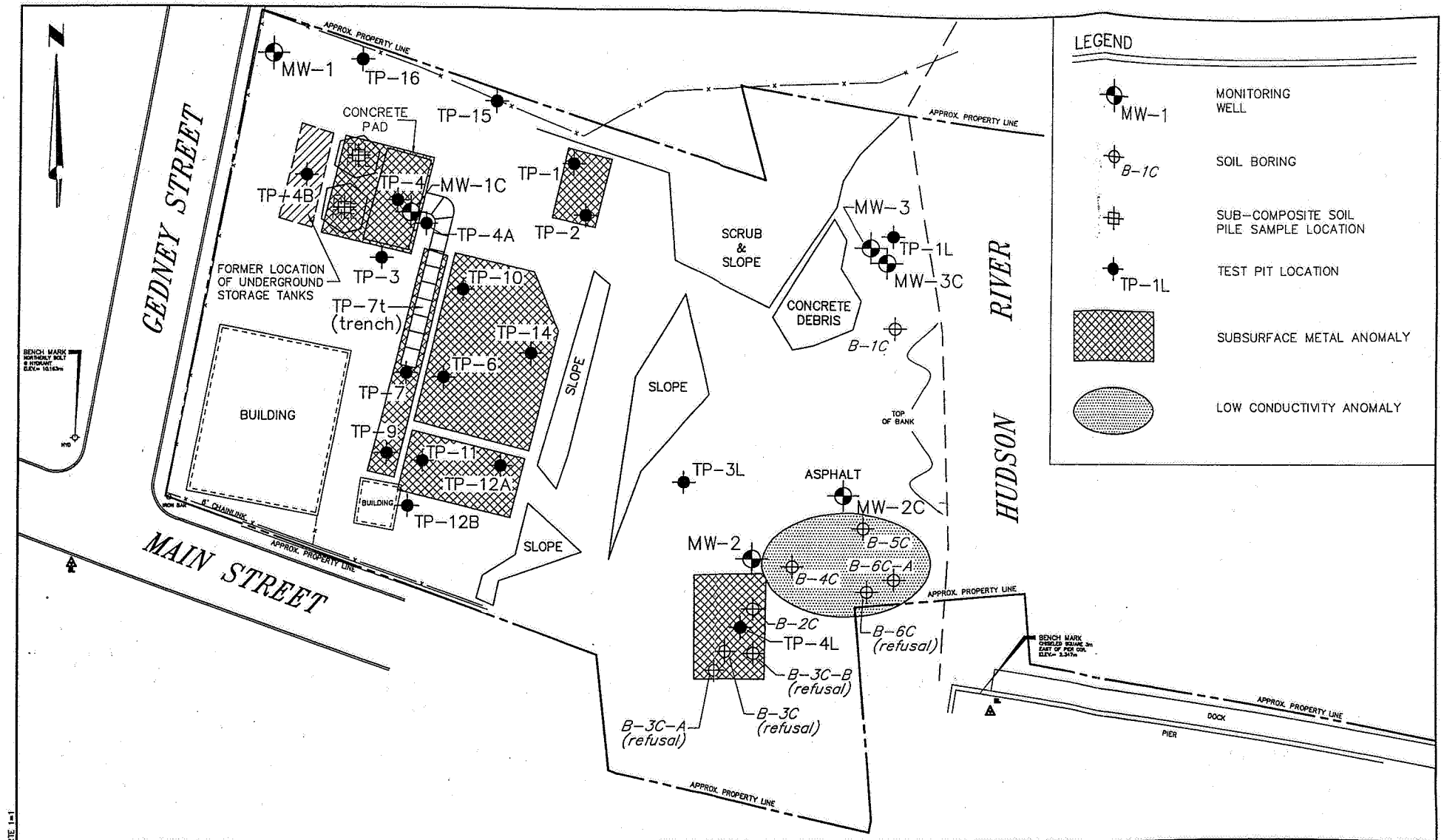
FIELD-FILTERED SAMPLES FOR METALS

Notes:
Samples with "A" designations collected from 0 to 2 feet below water surface; "B" designation collected from 2 to 4 feet below water surface
mg/L – milligrams per liter or parts per million
ug/L – micrograms per liter or parts per billion
"ND" – compound not found at or above detection limit of 0.4 mg/L
"N/S" – Standard not set

(a) Ambient Water Qaulity Standards (6 NYCRR Parts 700–705)

nyacksw.wk1

D&M PHASE II C



CLOUGH, HARBOUR & ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE ALBANY, NEW YORK, 12205

DWG. NO. 4709.14.00 DATE JULY, 1995

FIGURE 7
TEST PIT AND SOIL BORING LOCATION MAP
PROPOSED FERRY SITE
MAIN and GEDNEY STREETS
NYACK, NEW YORK

CHA 1995

cHA 1995

TABLE 5
Ground Water Sample Laboratory Results Summary
Proposed Ferry Site
Gedney and Main Streets
Nyack, New York

(Detected Parameters Only)

Parameter	Action Level/ Standard	MW-1 9/28/92	MW-1 4/11/94	MW-1 6/14/95	MW-1C 6/14/95	MW-2[3] 9/28/92	MW-2 4/11/94	MW-2 6/14/95
Cadmium (mg/l)	0.010[1]	ND	NA	<0.005	<0.005	ND	NA	<0.005
Chromium (mg/l)	0.05[1]	ND	NA	<0.005	<0.005	ND	NA	<0.005
Lead (mg/l)	0.025[1]	ND	NA	0.012	0.010	ND	NA	0.021
Mercury (mg/l)	0.002[1]	ND	NA	<0.0004	<0.0004	ND	NA	<0.0004
Benzene (ug/l)	0.7[1]	ND	1.3	<5	180	280	62	44
Toluene (ug/l)	5[2]	ND	<0.5	<5	<25	ND	69	<5
Ethylbenzene (ug/l)	5[2]	ND	<0.5	<5	560	ND	18	<5
Acenapthene (ug/l)	20[1]	ND	NA	<10	<10	28	NA	33
Anthracene (ug/l)	50[2]	ND	NA	<10	<10	4	NA	<10
Fluoranthene (ug/l)	50[2]	ND	NA	<10	<10	ND	NA	<10
Fluorene (ug/l)	50[2]	ND	NA	<10	<10	ND	NA	<10
Naphthalene (ug/l)	50[2]	ND	<0.5	<10	<10	9	33	<10
Phenanthrene (ug/l)	50[2]	ND	NA	<10	<10	15	NA	<10
Pyrene (ug/l)	50[2]	ND	NA	<10	<10	ND	NA	<10
2-Methylnapthalene (ug/l)	50[2]	ND	NA	<10	<10	ND	NA	37

mg/l: Milligrams/liter = parts per million
ug/l: Micrograms/liter = parts per billion
[1] New York State Groundwater Standard per 6NYCRR Part 703.5
[2] New York State Drinking Water Standard per 10NYCRR Part 5
[3] Dames & Moore originally designated MW-2 as MW-3
NA: Not an analyte during the given monitoring event
ND: Not detected

METALS - ANALYSES CONDUCTED FOR Cd, Cr, & Pb ONLY

VOCs - METHOD 624

SVOCs METHOD 625

TABLE 5 (Continued)
Ground Water Sample Laboratory Results Summary
Proposed Ferry Site
Gedney & Main Streets
Nyack, New York

(Detected Parameters Only)

Parameter	Action Level/ Standard	MW-2C 6/14/95	MW-3[3] 9/28/92	MW-3 6/14/95	MW-3C 6/14/95
Cadmium (mg/l)	0.01[1]	<0.005	ND	<0.005	<0.005
Chromium (mg/l)	0.05[1]	<0.005	ND	<0.005	0.057
Lead (mg/l)	0.025[1]	2.37	ND	<0.005	0.630
Mercury (mg/l)	0.002[1]	0.0035	ND	<0.0004	0.0008
Benzene (ug/l)	0.7[1]	<5	54	350	<5
Toluene (ug/l)	5[2]	<5	23	120	<5
Ethylbenzene (ug/l)	5[2]	<5	74	1100	25
Acenapthene (ug/l)	20[2]	<10	890	220	24
Anthracene (ug/l)	50[2]	<10	400	75	<10
Fluoranthene (ug/l)	50[2]	<10	420	80	13
Fluorene (ug/l)	50[2]	<10	570	90	<10
Naphthalene (ug/l)	50[2]	<10	5700	2700	<10
Phenanthrene (ug/l)	50[2]	<10	1200	240	<10
Pyrene (ug/l)	50[2]	<10	680	150	27
2-Methylnapthalene (ug/l)	50[2]	<10	ND	540	<10

mg/l: Milligrams/liter = parts per million
ug/l: Micrograms/liter = parts per billion
[1] New York State Groundwater Standard per 6NYCRR Part 703.5
[2] New York State Drinking Water Standard per 10NYCRR Part 5
[3] Dames & Moore originally designated MW-2 as MW-3
NA: Not an analyte during the given monitoring event
ND: Not detected

TABLE 3
Test Pit and Boring Soil Sample Laboratory Results Summary
Proposed Ferry Site
Gedney and Main Streets
Nyack, New York
(Detected Parameters Only)

TEST PITS 5/30/95
BORINGS 6/8/95

ANALYSES CONDUCTED ON TCLP EXTRACTS (NO MASS ANALYSES CONDUCTED)

Parameter	Action Level/ Standard	TP-3L (2' - 4')	TP-4 (4' - 6')	TP-4B (8')	TP-3 (9')	TP-14 (6'-8')	TP-2 (4')
Maximum PID Reading (ppm)	-----	140	250	350	300	300	40
Benzene (ug/l)	0.7[1]	<0.5	30	<5	<5	<0.5	<0.5
Toluene (ug/l)	5[1]	<1	35	18	16	<1	<1
Ethylbenzene (ug/l)	5[1]	<1	330	<10	41	<1	<1
m,p-Xylene (ug/l)	5[1]	<1	1100	<10	28	<1	<1
o-Xylene (ug/l)	5[1]	<1	<10	20	<10	2	<1
Isopropyl Benzene (ug/l)	5[1]	<1	62	23	24	3	2
Styrene (ug/l)	5[1]	<1	80	<10	<10	<1	<1
n-Propylbenzene (ug/l)	5[1]	<1	120	46	34	3	2
sec-Butylbenzene (ug/l)	5[1]	<1	22	25	15	3	2
1,3,5-Trimethylbenzene (ug/l)	5[1]	<1	380	<10	27	<1	<1
p-Cymene (ug/l)	NS	<1	31	<10	17	2	<1
1,2,4-Trimethylbenzene (ug/l)	5[1]	<1	1200	<10	260	1	3
n-Butylbenzene (ug/l)	5[1]	<1	290	37	34	6	6
Naphthalene (ug/l)	10[1]	17	330	27	27	8	7
Cadmium (mg/l)	1[2]	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Lead (mg/l)	5[2]	<0.5	<0.5	<0.5	<0.5	<0.5	0.5

TABLE 3 (Continued)
Test Pit and Boring Soil Sample Laboratory Results Summary
Proposed Ferry Site
Gedney and Main Streets
Nyack, New York
(Detected Parameters Only)

Parameter TCLP Extract	Action Level/ Standard	TP-6 (8' - 9')	Pile	TP-9 (8')	B-5C (8' - 10')	B-2C (2' - 8')
Maximum PID Reading (ppm)	-----	80	-----	6	500	800
Benzene (ug/l)	5[1]	<5	<0.5	<0.5	<1	<0.5
Toluene (ug/l)	5[1]	<10	<1	<1	11	2
Ethylbenzene (ug/l)	5[1]	<10	<1	<1	<1	<1
m,p-Xylene (ug/l)	5[1]	<10	<1	<1	<1	<1
o-Xylene (ug/l)	5[1]	<10	<1	<1	<1	<1
Isopropyl Benzene (ug/l)	5[1]	<10	<1	<1	11	4
Styrene (ug/l)	5[1]	<10	<1	<1	3	<1
n-Propylbenzene (ug/l)	5[1]	<10	<1	<1	14	5
t-Butylbenzene (ug/l)	5[1]	<10	<1	<1	2	<1
sec-Butylbenzene (ug/l)	5[1]	<10	<1	<1	5	2
1,3,5-Trimethylbenzene (ug/l)	5[1]	<10	<1	<1	<1	<1
p-Cymene (ug/l)	5[1]	<10	<1	<1	<1	<1
1,2,4-Trimethylbenzene (ug/l)	5[1]	<10	2	<1	<1	2
n-Butylbenzene (ug/l)	5[1]	20	<1	<1	5	3
Naphthalene (ug/l)	10[1]	17	<1	<1	3	<1
Cadmium (mg/l)	1[2]	<0.01	<0.01	<0.01	<0.01	<0.01
Lead (mg/l)	5[2]	<0.5	<0.5	<0.5	<0.5	1.8

Note: All analyses were performed on the TCLP extract of the samples
ug/l: micrograms/liter = parts per billion
mg/l: milligrams/liter = parts per million
[1] TCLP Extraction Guidance Value for Fuel Oil Contaminated Soils, Petroleum-Contaminated Soil Guidance Policy, State of New York Department of Environmental Conservation, August 1992
[2] Maximum concentration for toxicity characteristic per 40 CFR Part 261
NS: No standard currently exists for this parameter.

TABLE 1
Sediment Sample Laboratory Results Summary 4/19/95
Proposed Ferry Site
Gedney & Main Streets
Nyack, New York
(Detected Parameters Only)

NO PCBs DETECTED AT DL = 1 mg/kg

Parameter	Action Level/ Standard	S1A 0'-0.5'	S1B 2.2'	S2A 0'-0.5'	S2B 3'
Lead (mg/kg)	250[1]	95	85	35	70
Chromium (mg/kg)	111[1]	30.4	25.9	8.00	19.0
Mercury (mg/kg)	2[1]	0.05	0.06	0.03	0.14
p-Xylene (ug/kg)	100[2]	39	<20	<20	<20
m-Xylene (ug/kg)	100[2]	39	<20	<20	<20
o-Xylene (ug/kg)	100[2]	56	<20	<20	110
Isopropyl Benzene (ug/kg)	100[2]	76	<20	<20	<20
Styrene (ug/kg)	100[2]	35	<20	<20	<20
sec-Butylbenzene (ug/kg)	100[2]	62	<20	<20	<20
1,3,5-Trimethyl-benzene (ug/kg)	100[2]	65	<20	<20	<20
p-Cymene (ug/kg)	NS	36	<20	<20	<20
1,2,4-Trimethyl benzene (ug/kg)	100[2]	60	<20	<20	<20
n-Butylbenzene (ug/kg)	100[2]	63	<20	<20	<20
Acenapthene (ug/kg)	400[2]	<160	<160	790	<660
Anthracene (ug/kg)	1,000[2]	230	<160	1800	730
Benzo(a) anthracene (ug/kg)	18[3]	790	360	5100	2300
Benzo(a)pyrene (ug/kg)	18[3]	870	400	4300	2400
Benzo(b) flouranthene (ug/kg)	18[3]	860	330	4500	1800
Benzo(k) fluoranthene (ug/kg)	18[3]	840	330	3400	1900
Chrysene (ug/kg)	18[3]	840	330	5000	2400
Dibenzo(a,h) anthracene (ug/kg)	1,000[2]	<160	<160	1300	<660
Fluoranthene (ug/kg)	1,000[2]	1900	760	10,000	4400
Fluorene (ug/kg)	1,000[2]	<160	<160	790	<660

TABLE 1 (Continued)
Sediment Sample Laboratory Results Summary
Proposed Ferry Site
Gedney & Main Streets
Nyack, New York
(Detected Parameters Only)

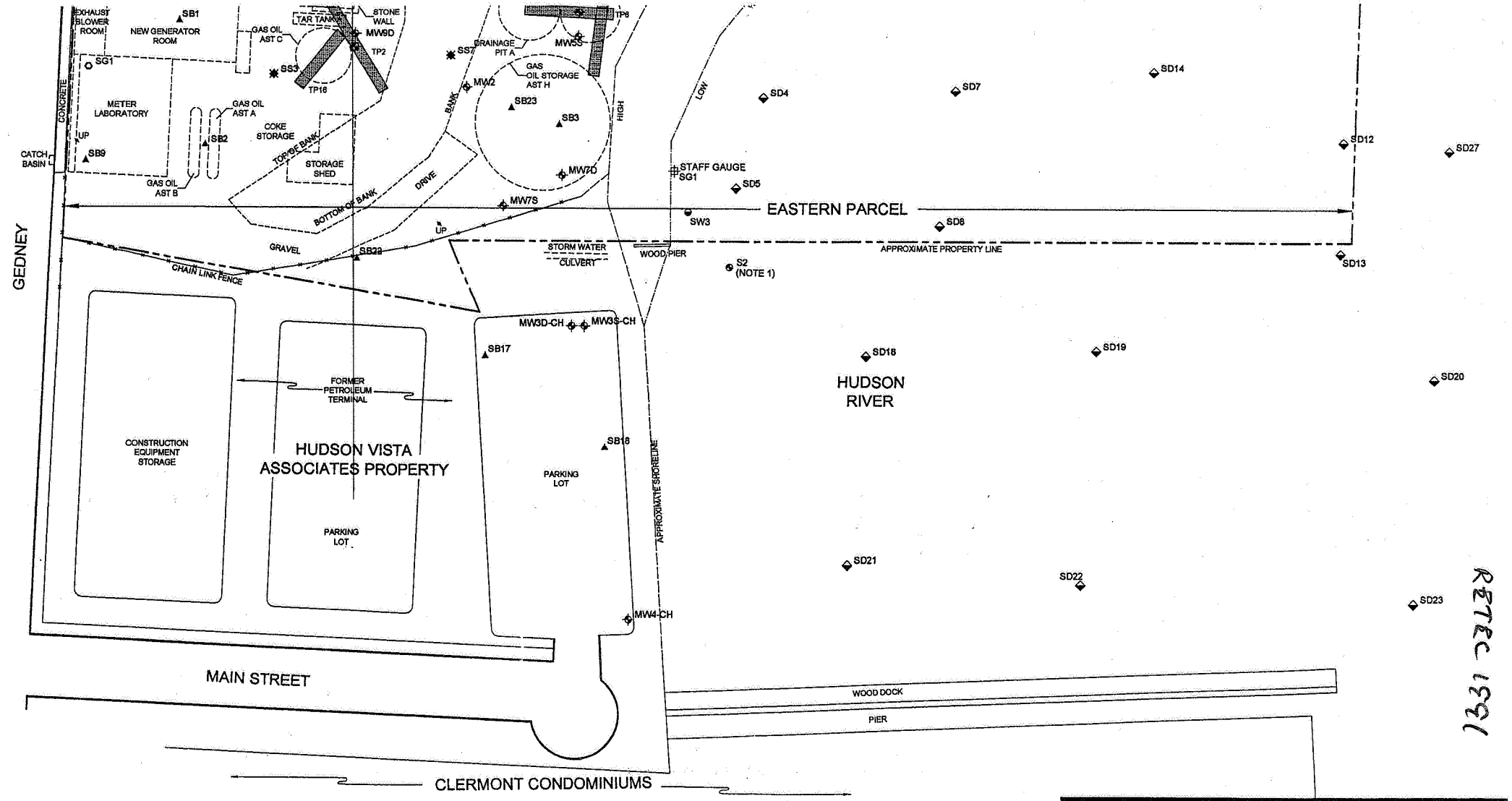
Parameter	Action Level/ Standard	S1A 0'-0.5'	S1B 2.2'	S2A 0'-0.5'	S2B 3'
Phenanthrene (ug/kg)	1,000[2]	1000	360	7100	2400
Pyrene (ug/kg)	1,000[2]	1700	760	9200	5100
Benzo(g,h,i) perylene (ug/kg)	0.04[2]	300	180	2900	1400
Indeno(1,2,3-cd)pyrene (ug/kg)	0.04[2]	300	180	2500	1300

mg/kg: milligrams/kilogram = parts per million
ug/kg: micrograms/kilogram = parts per billion
[1] Sediment Criteria Limit of Tolerance, New York State Department of Environmental Conservation, Division of Fish and Wildlife, December, 1989
[2] TCLP Alternative Soil Guidance Value, Petroleum-Contaminated Soil Guidance Policy, State of New York Department of Environmental Conservation, August 1992
[3] Marine Sediment Guidance Value, Petroleum-Contaminated Soil Guidance Policy, State of New York Department of Environmental Conservation, August 1992
NS: No applicable standard currently exists for this parameter

4.0 GEOPHYSICAL SURVEY

In an attempt to locate on-site sources of contamination, buried metal objects, and contaminant plumes, CHA retained the services of Adamas Environmental, Inc., of Toronto, Ontario, Canada, to perform a geophysical survey of the proposed ferry site. The results of the geophysical survey enabled CHA to better design the subsurface soil sampling and analysis, and ground water monitoring programs by allowing CHA to concentrate these investigations in areas where the geophysical survey indicated that buried objects and/or contaminant plumes might be present.

Based upon the data generated as a result of the geophysical survey, Adamas completed an Electromagnetic Survey report, a copy of which is included as Appendix B of this submission. A discussion



1331 RETEC

ORANGE & ROCKLAND UTILITIES
NYACK, NEW YORK

ORAN2-04301-800

DATE: 1/07/02	DRWN: RLL/BIL	FILE: FI

Table 5-9 (Cont'd.)
Soil Boring Subsurface Soil VOC Results
Nyack MGP Site
(ug/Kg)

REMEDIATED SITE — SITE

Sample Designation Lab ID Number Sample Date Description	NYSDEC Recommended Soil Cleanup Objective (Note 1)	SB13(8-10) C1E190109002 05/18/2001 Onsite	SB130(8-10) C1E190109003 05/18/2001 Duplicate	SB14(8-12) C1E180181009 05/18/2001 Onsite	SB15(12-15.2) C1E180181006 05/15/2001 Onsite	SB16(8-10) C1E190109004 05/18/2001 Onsite	SB17(10-12) C1E230237003 05/21/2001 Hudson Vista	SB18(11-11.5) C1E230237002 05/21/2001 Hudson Vista	SB19(6.0-6.2) C1E180181012 05/16/2001 Onsite	SB20(7.3-7.4) C1E180181001 05/15/2001 Onsite
Volatile Organic Compounds (ug/Kg)										
1,1,1-Trichloroethane	800	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
1,1,2,2-Tetrachloroethane	600	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
1,1,2-Trichloroethane	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
1,1-Dichloroethane	100	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
1,1-Dichloroethene	400	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
1,2-Dichloroethane	200	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
1,2-Dichloroethene (total)	300	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	**6 J**
1,2-Dichloropropane	300	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
2-Butanone	300	1600 UJ	1500 UJ	1700 UJ	7100 U	21 U	**34 J**	12 U	12 U	11 U
2-Hexanone	NL	1600 UJ	1500 UJ	1700 UJ	7100 U	21 U	58 U	12 U	12 U	11 U
4-Methyl-2-pentanone	1,000	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Acetone	200	1600 UJ	1500 UJ	1700 UJ	7100 U	12 U	58 U	13 U	12 U	11 U
Benzene	60	1600 U	1500 U	1700 U	7100 U	**4.7 J**	**3000 J**	**2.4 J**	12 U	**1.4 J**
Bromodichloromethane	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Bromoform	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Bromomethane	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Carbon disulfide	2,700	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Carbon tetrachloride	600	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Chlorobenzene	1,700	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Chloroethane	1,900	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 UJ
Chloroform	300	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Chloromethane	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
cis-1,3-Dichloropropene	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Dibromochloromethane	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Ethylbenzene	5,500	1600 U	1500 U	1700 U	**120000**	**6.2 J**	**930**	12 U	12 U	**140**
Methylene chloride	100	1600 U	1500 U	1700 U	7100 U	21 U	**9.3 J**	12 U	12 U	11 U
Styrene	NL	1600 U	1500 U	1700 U	7100 U	21 U	**630**	12 U	12 U	**39**
Tetrachloroethene	1,400	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Toluene	1,500	1600 U	1500 U	**55 J**	**420 J**	21 U	**4500 J**	12 U	12 U	**5 J**
trans-1,3-Dichloropropene	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Trichloroethene	NL	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	**4.5 J**
Vinyl chloride	200	1600 U	1500 U	1700 U	7100 U	21 U	58 U	12 U	12 U	11 U
Xylenes (total)	1,200	1600 U	1500 U	1700 U	**77000**	**6.1 J**	**6100 J**	**2.4 J**	12 U	**200**
Total BTEX	NL	- U	- U	**55**	**197420**	**17**	**14530**	**4.8**	- U	**346.4**
Total VOCs	< 10,000	- U	- U	**55**	**197420**	**17**	**15203**	**4.8**	- U	**359.9**

Notes:
NA = Not Analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
B = For organic data, the analyte is present in the associated method blank as well as in the sample.
Note(1) - NYSDEC TAGM HWR-94-4046 - Determination of Soil Cleanup Objectives and Cleanup Levels [NYSDEC, Jan. 1994].
Note(2) - Total includes all PAH and SVOC compounds.

Table 5-10 (Cont'd.)
Addendum Soil Boring Subsurface Soil SVOC Results
Nyack MGP Site

REMEDIATED SITE

Sample Designation / Lab ID Number / Sample Date / Description	NYSDEC Recommended Soil Cleanup Objective (Note 1)	SB13(8-10) C1E190109002 05/18/2001 Onsite	SB130(8-10) C1E190109003 05/18/2001 Duplicate	SB14(8-12) C1E180181009 05/18/2001 Onsite	SB15(12-15.2) C1E180181006 05/15/2001 Onsite	SB16(8-10) C1E190109004 05/18/2001 Onsite	SB17(10-12) C1E230237003 05/21/2001 Hudson Vista	SB18(11-11.5) C1E230237002 05/21/2001 Hudson Vista	SB19(6.0-6.2) C1E180181012 05/16/2001 Onsite	SB20(7.3-7.4) C1E180181001 05/15/2001 Onsite
PAH Compounds (ug/Kg)										
2-Methylnaphthalene	36,400	6000	540 J	48000 U	6300	1800 J	990000	4100 U	410 U	2000
Acenaphthene	50,000	23000	12000	74000	5300	170000	380000	5900	410 U	860
Acenaphthylene	41,000	13000	5800	76000	400 J	48000	210000	2900 J	410 U	980
Anthracene	50,000	25000	10000	340000	2900	170000	630000	21000	410 U	1100
Benzo(a)anthracene	224/MDL	73000	19000	290000	2300	180000	450000	26000	410 U	810
Benzo(a)pyrene	61/MDL	63000	20000	210000	1700 J	160000	240000	19000	410 U	1000
Benzo(b)fluoranthene	1,100	33000	12000	130000	900 J	68000 J	280000	20000	410 U	570
Benzo(ghi)perylene	50,000	13000	6500	98000	900 J	28000	51000 J	5800	410 U	890
Benzo(k)fluoranthene	1,100	22000	9100	95000	980 J	32000	140000	9200	410 U	430 J
Chrysene	400	72000	20000	290000	2200	170000	390000	23000	410 U	870
Dibenz(a,h)anthracene	14/MDL	5000	2400	33000 J	240 J	13000	37000 J	3400 J	410 U	170 J
Fluoranthene	50,000	94000	25000	440000	3900	290000	820000	47000	410 U	1400
Fluorene	50,000	17000	11000	250000	2700	62000	710000	11000	410 U	910
Indeno(1,2,3-cd)pyrene	3,200	15000	6700	94000	780 J	30000	78000	8400	410 U	660
Naphthalene	13,000	10000	1300 J	5600 J	12000	4400 J	1100000	720 J	410 U	2200
Phenanthrene	50,000	63000	16000	630000	12000	470000	1700000	52000	410 U	4500
Pyrene	50,000	140000	50000	710000	6000	540000	620000	41000	410 U	2400
Total PAHs	< 500,000	687000	227340	3813600	61500	2437200	8826000	296320	- U	21750
SVOC Compounds (ug/Kg)										
1,2,4-Trichlorobenzene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
1,2-Dichlorobenzene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
1,3-Dichlorobenzene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
1,4-Dichlorobenzene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2,2'-oxybis(1-Chloropropane)	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2,4,5-Trichlorophenol	100	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
2,4,6-Trichlorophenol	100	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2,4-Dichlorophenol	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2,4-Dimethylphenol	NL	4300 U	2100 U	48000 U	2000 U	6900 U	21000 J	4100 U	410 U	370 U
2,4-Dinitrophenol	200	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
2,4-Dinitrotoluene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2,6-Dinitrotoluene	1,000	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2-Chloronaphthalene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2-Chlorophenol	800	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2-Methylphenol	100/MDL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
2-Nitroaniline	430/MDL	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
2-Nitrophenol	330	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
3,3'-Dichlorobenzidine	NL	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
3-Nitroaniline	430	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
4,6-Dinitro-2-methylphenol	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
4-Bromophenyl phenyl ether	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
4-Chloro-3-methylphenol	240/MDL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
4-Chloroaniline	220/MDL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
4-Chlorophenyl phenyl ether	NL	4300 U	2100 U	48000 U	2000 U	6900 U	21000 J	4100 U	410 U	370 U
4-Methylphenol	900	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
4-Nitroaniline	NL	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
4-Nitrophenol	100	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
bis(2-Chloroethoxy)methane	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
bis(2-Chloroethyl) ether	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
bis(2-Ethylhexyl) phthalate	50,000	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Butyl benzyl phthalate	50,000	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Carbazole	NL	1800 J	2100 U	8900 J	320 J	14000	180000	860 J	410 U	150 J
Dibenzofuran	6,200	8500	3500	36000 J	530 J	6900 U	440000	4500	410 U	370 U
Diethyl phthalate	2,000	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Dimethyl phthalate	7,100	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Di-n-butyl phthalate	8,100	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Di-n-octyl phthalate	50,000	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Hexachlorobenzene	410	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Hexachlorobutadiene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Hexachlorocyclopentadiene	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Hexachloroethane	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Isophorone	4,400	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Nitrobenzene	200/MDL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
N-Nitrosodi-n-propylamine	NL	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
N-Nitrosodiphenylamine	NL	11000 U	5200 U	120000 U	4900 U	17000 U	150000 U	10000 U	1000 U	940 U
Pentachlorophenol	1,000	4300 U	2100 U	48000 U	2000 U	6900 U	61000 U	4100 U	410 U	370 U
Phenol	30/MDL									
Total SVOCs (Note 2)	< 500000	697300	230840	3858500	62350	2451200	9488000	301680	- U	21900

Notes:
NA = Not Analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
B = For organic data, the analyte is present in the associated method blank as well as in the sample.
Note(1) - NYSDEC TAGM HWR-94-4046 - Determination of Soil Cleanup Objectives and Cleanup Levels [NYSDEC, Jan. 1994].
Note(2) - Total includes all PAH and SVOC compounds.

Table 5-11 (Cont'd.)
Soil Boring Subsurface Soil Inorganic Results
Nyack MGP Site

SITE

Sample ID Lab ID Date Sampled Description	NYSDEC Recommended Soil Cleanup Objective (Note 1)	SB13(8-10) C1E190109002 05/18/2001 Onsite	SB130(8-10) C1E190109003 05/18/2001 Duplicate	SB14(8-12) C1E180181009 05/18/2001 Onsite	SB15(12-15.2) C1E180181006 05/15/2001 Onsite	SB16(8-10) C1E190109004 05/18/2001 Onsite	SB17(10-12) C1E230237003 05/21/2001 Hudson Vista	SB18(11-11.5) C1E230237002 05/21/2001 Hudson Vista	SB19(6.0-6.2) C1E180181012 05/16/2001 Onsite
Metals (mg/Kg)									
Aluminum	SB	1170	1880	4210	4360	5620	1780	3300	5340
Antimony	SB	15.6 UJ	15.1 UJ	17.3 UJ	14.3 UJ	2.9 J	13.9 UJ	0.8 J	14.8 J
Arsenic	7.5/SB	2 J	3	15.3	0.99 J	11.4	5.1	3.2	2.5 U
Barium	300/SB	10.9 J	15.9 J	32.7 J	65.3	35.5 J	39.4 J	42.1 J	28.5 J
Beryllium	0.16/SB	0.15 U	0.14 U	0.4 J	0.32 U	0.51 J	0.15 U	0.22 U	0.64 U
Cadmium	1/SB	1.3 U	1.3 U	1.4 U	1.2 U	2.1 U	1.2 U	1.2 U	1.2 U
Calcium	SB	619 J	996 J	1410 J	2300 J	1600 J	6510 J	4460 J	1550 J
Chromium	10/SB	5.1	5.4	16.5	10	17.6	6.4	10.6	8.6
Cobalt	30/SB	4.8 J	4 J	12.5 J	3.8 J	12.3 J	3 J	5.5 J	4.2 J
Copper	25/SB	15.4 J	21.9 J	154 J	2.3 J	69 J	31.6 J	103 J	2.8 U
Iron	2,000/SB	5480	7240	46500	9140	33000	5800	13300	7920
Lead	SB	68.5	53	283	4.7	321	113	158	9.3
Magnesium	SB	791 J	1060 J	1170 J	1940	2260	1390	2470	1960
Manganese	SB	50 J	58.6 J	77.4 J	103 J	225 J	80.8 J	185 J	543 J
Mercury	0.1	0.13 U	0.15	0.28	0.12 U	0.63	0.45	2	0.12 U
Nickel	13/SB	9.7 J	6.3 J	18.7	6.6 J	20.1	4.5 J	7 J	7 J
Potassium	SB	256 U	346 U	840 J	927 J	1220 J	562 J	534 U	1660
Selenium	2/SB	1.3 UJ	1.3 UJ	3.9 J	1.2 UJ	2 J	1.2 UJ	1.2 UJ	1.2 UJ
Silver	SB	2.6 U	0.77 U	1.1 U	2.4 U	1.3 U	2.3 U	0.72 U	0.69 U
Sodium	SB	339 U	439 J	360 U	129 U	552 J	199 U	242 U	90.8 U
Thallium	SB	2.6 U	2.5 U	2.9 U	2.4 U	4.2 U	2.3 U	2.5 U	2.5 U
Vanadium	150/SB	9.9 J	10.2 J	33.3	13.1	22	9.9 J	20.3	10.6 J
Zinc	20/SB	19.1	48.4	209	18.5	195	46.1	138	21.3
Percent Solids %	NA	77.1	79.7	69.3	84.2	47.6	86.7	80.9	80.9
Cyanide Total (mg/Kg)	NL	0.67	0.99	12.9	0.59 U	1.2	1.4	0.62 U	0.62 U

Notes:
NA = Not Analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
NL = Not Listed
J = The associated numerical value is an estimated quantity.
R = Unreliable result. The analyte may or may not be present in the sample. Supporting data is necessary to confirm result.
SB = Site Background

Note(1) - NYSDEC TAGM HWR-94-4046 - Determination of Soil Cleanup Objectives and Cleanup Levels [NYSDEC, Jan. 1994].

Table 5-16 (Cont'd.)
Groundwater VOC Results
Nyack MGP Sites
(ug/L)

SITE

Sample ID	NYSDEC	MW7S	MW7S	MW7D	MW7D	MW8D	MW9D	MW10S	MW110S	MW10D	MW3S-CH	MW3D-CH	MW4-CH	MW11-BC
Lab Sample ID	Groundwater Guidance or	993191A-02	C1F130212004	993191A-05	C1F140172002	993191A-06	993192A-01	C1F130212008	C1F130212009	C1F140172006	C1F130212006	C1F130212007	C1F130212001	C1H090227001
Date Sampled	Standard Value	11/29/1999	06/13/2001	11/30/1999	06/13/2001	11/30/1999	11/30/1999	06/13/2001	06/13/2001	06/13/2001	06/13/2001	06/13/2001	06/13/2001	08/08/2001
Sample Designation	(Note 1)	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Duplicate	Onsite	Offsite	Offsite	Offsite	Offsite
VOC (ug/L)														
Chloromethane	NL	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	2 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5 s	10 U	10 U	10 U	10 U	220 J	460 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	60 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7 s	10 U	10 U	1 J	1.2 J	2000 U	5000 U	10 U	10 U	1.5 J	10 U	1.7 J	10 U	10 U
1,2-Dichloroethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone (MEK)	50 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	5 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	50 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1.0 s	3 J	10 U	130	26	18000	47000	58	63	10 U	2.5 J	12	10 U	10 U
trans-1,3-Dichloropropene	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	NL	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50 g	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5 s	2 J	10 U	3 J	10 U	830 J	4500 J	1.6 J	1.7 J	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5 s	10 U	10 U	10 U	10 U	2000 U	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5 s	0.9 J	10 U	10 U	2.2 J	10000	62000	62	63	10 U	74	10 U	10 U	10 U
Styrene	5 s	10 U	10 U	0.5 J	10 U	140 J	5000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	5 s	4 J	10 U	23	10 U	16000	86000	99	100	10 U	35	10 U	10 U	10 U
Total BTEX	NL	9.9	- U	156.5	28.2	44,830	199,500	220.6	227.7	- U	111.5	12	- U	- U
Total VOCs	NL	9.9	- U	157.5	29.4	45,190	199,960	220.6	227.7	1.5	111.5	13.7	- U	- U

Notes:
NA = Not Analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
NL = Not Listed
J = The associated numerical value is an estimated quantity.
S = Standard Value
G = Guidance Value
Note(1) - Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998].

Table 5-17 (Cont'd.)
Groundwater SVOC Results
Nyack MGP Site
(ug/L)

SITE

Sample ID	NYSDEC	MW7S	MW7S	MW7D	MW7D	MW8D	MW9D	MW10S	MW110S	MW10D	MW3S-CH	MW3D-CH	MW4-CH	MW11-BC
Lab ID	Groundwater Guidance or	993191A-02	C1F130212004	993191A-05	C1F140172002	993191A-06	993192A-01	C1F130212008	C1F130212009	C1F140172006	C1F130212006	C1F130212007	C1F130212001	C1H090227001
Date Sampled	Standard Value	11/29/1999	06/12/2001	11/30/1999	06/12/2001	11/30/1999	11/30/1999	06/13/2001	06/13/2001	06/13/2001	06/13/2001	06/13/2001	06/13/2001	08/08/2001
Description	(Note 1)	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Duplicate	Onsite	Offsite	Offsite	Offsite	Offsite
PAH Compounds (ug/L)														
Naphthalene	10 g	14	10 U	71	10 U	9,000	40 J	6.1 J	11	10 U	3.4 J	10 U	10 U	10 U
2-Methylnaphthalene	NL	5 J	10 U	12	10 U	1,300 J	1,000	4.5 J	7.6 J	10 U	2.2 J	10 U	10 U	10 U
Acenaphthylene	NL	2 J	10 U	0.8 J	10 U	2,000 U	100 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20 g	8 J	1.3 J	14	10 U	250 J	710	32	21	10 U	15	4.8 J	10 U	2.8 J
Fluorene	50 g	6 J	10 U	6 J	10 U	170 J	350	14	10	10 U	3.4 J	2.1 J	10 U	1.3 J
Phenanthrene	50 g	0.7 J	10 U	6 J	10 U	390 J	1,300	43	30	10 U	10 U	2.8 J	10 U	4.3 J
Anthracene	50 g	2 J	10 U	2 J	10 U	110 J	320	10 U	5.6 J	10 U	10 U	1 J	10 U	10 U
Fluoranthene	50 g	3 J	10 U	1 J	10 U	110 J	360	6.7 J	4.3 J	10 U	10 U	1 J	10 U	10 U
Pyrene	50 g	2 J	10 U	1 J	10 U	120 J	630	8.9 J	6.4 J	10 U	1.2 J	1.6 J	10 U	1.3 J
Benzo(a)anthracene	0.002 g	10 U	10 U	10 U	10 U	2,000 U	190 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002 g	10 U	10 U	10 U	10 U	2,000 U	170 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002 g	10 U	10 U	10 U	10 U	2,000 U	69 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	0.002 g	10 U	10 U	10 U	10 U	2,000 U	62 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ND	10 U	10 U	10 U	10 U	2,000 U	150 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.002 g	10 U	10 U	10 U	10 U	2,000 U	42 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	NL	10 U	10 U	10 U	10 U	2,000 U	14 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	NL	10 U	10 U	10 U	10 U	2,000 U	62 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAHs (ug/L)	NL	42.7	1.3	113.8	- U	11,450	6,589	116.2	95.9	- U	25.2	13.3	- U	9.7
SVOCs (ug/L)														
Phenol	1 s	NA	10 U	NA	10 U	NA	440	2.9 J	1.8 J	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	1 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	NL	NA	10 U	NA	10 U	NA	24 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	50 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	0.4	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	50 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	NL	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5 s	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	50 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	5 s	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrophenol	10 g	NA	10 U	NA	10 U	NA	660 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NL	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	NL	NA	10 U	NA	10 U	NA	57 J	2 J	1.4 J	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50 g	NA	10 U	NA	10 U	NA	260 U	1.1 J	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5 s	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	NL	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)	50 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.4 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1 s	NA	25 U	NA	25 U	NA	660 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Carbazole	NL	NA	10 U	NA	10 U	NA	38 J	1.6 J	1.1 J	10 U	2 J	10 U	10 U	10 U
Di-n-butylphthalate	50 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50 g	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	5 s	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	NL	NA	10 U	NA	10 U	NA	260 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total SVOCs (Note 2)	NL	NA	1.3	113.8	- U	11,450	6,318	124.1	110.2	- U	25.2	13.3	- U	9.7

Notes:

NA = Not Analyzed

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

NL = Not Listed

J = The associated numerical value is an estimated quantity.

S = Standard Value

G = Guidance Value

Note(1) - Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998].

Note(2) - Total for SVOC compounds include PAHs.

Table 5-19 (Cont'd.)
Groundwater Metals and Cyanide Results
Nyack MGP Site
(ug/L)

SITE WELLS

Sample ID	NYSDEC	MW7S	MW7S	MW7D	MW7D	MW8D	MW9D	MW10S	MW110S	MW10D	MW3S-CH	MW3D-CH	MW4-CH	MW11-BC
Lab ID	Groundwater Guidance or	993191A-02	C1F130212004	993191A-05	C1F140172002	993191A-06	993192A-01	C1F130212008	C1F130212009	C1F140172006	C1F130212006	C1F130212007	C1F130212001	C1H090227001
Date Sampled	Standard Value	11/29/99	06/12/2001	11/30/99	06/12/2001	11/30/99	11/30/99	06/13/2001	06/13/2001	06/13/2001	06/13/2001	06/13/2001	06/13/2001	08/08/2001
Description	(Note 1)	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Duplicate	Onsite	Offsite	Offsite	Offsite	Offsite
Metals (ug/L)														
Aluminum	NL	200 U	200 U	200 U	200 U	1,180	212 U	39.1 J	39.6 J	279	200 U	200 U	1300	200 U
Antimony	3 g	60 U	60 U	6.0 U	12.9 U	6.0 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic	25 s	4.0 U	10 U	4.0 U	10 U	36.5	5.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	1,000 s	83.2 J	121 J	228	230	695	941	72.1 J	64.1 J	80.3 J	318	330	93.5 J	180 J
Beryllium	3 g	1.0 U	5 U	1.0 U	5 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	10 s	1.0 U	5 U	1.0 U	5 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	NL	107,000	97000	93100	101000	143,000	112,000	89500	81000	73000	36000	103000	88900	146000
Chromium	50 s	2.0 U	10 U	2.0 U	10 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	NL	2.2 J	50 U	2.0 U	50 U	2.4 J	3.5 J	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	200 s	2.8 J	25 U	1.0 U	25 U	9.4 J	1.7 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	300 s	4,880	1800	173	59.5 J	6,210	7,430	471	413	326	438	33.1 J	9530	34.5 U
Lead	25 s	4.8	4.8	3.0 U	1.9 J	13.6	3.0 U	5.6	3.1	3 U	3 U	2.4 J	158	3 U
Magnesium	35,000 s	16,900	15000	21,000	22100	22,700	12,700	22200	20000	25500	13700	21400	43200	35500
Manganese	300 s	723	245	570	526	7,960	9,870	521	457	12.2 J	757	306	2960	402
Mercury	2 s	0.10 U	0.2 U	0.2 U	0.2 U	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	NL	4.4 J	40 U	3.2 J	40 U	6.6 J	5.0 J	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	NL	918 J	976 J	1,500 J	1370 J	9,360	5,160 J	4240 J	3850 J	2470 J	3220 J	1670 J	13000	5560
Selenium	10 s	5.0 U	5 U	5.0 U	5 U	5.0 U	5.0 U	5 U	6.3 U	5.3 U	5 U	5 U	5 U	5 U
Silver	50 s	1.0 U	10 U	1.0 U	10 U	1.0 U	1.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	20,000 s	39,300	72500	30,400	37600	29,000	25,000 J	89300	79800	21600	65500	38400	276000	167000
Thallium	4 g	10.0 U	10 U	10.0 U	10 U	10.0 U	10.0 U	10 U	10 U	10 U	10 U	10 U	9.2 U	10 U
Vanadium	NL	2.0 U	50 U	2.2 J	3 J	4.4 J	2.0 U	3.8 J	4 J	7.2 J	50 U	6.3 J	5.4 J	3.1 U
Zinc	300 s	102	22.4	52.1	20 U	32.2	20 U	23.8	18.7 J	7.9 J	20 U	20 U	49.6	43.3
Total Cyanide (ug/L)	200s	21	14	10 U	10 U	95	59	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Free Cyanide (ug/L)	NL	5 U	NA	5 U	NA	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:
NA = Not Analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
NL = Not Listed
J = The associated numerical value is an estimated quantity.
R = Unreliable result. The analyte may or may not be present in the sample. Supporting data is necessary to confirm result.
S = Standard Value
G = Guidance Value

Table 5-22 (Cont'd.)
Sediment VOC Results
Nyack MGP Site
(ug/Kg)

SITE

Sample ID	NYSDEC	SD11(0.0-0.2)	SD11(0.5-2.0)	SD12(0.0-0.7)	SD12(4.4-4.7)	SD13(0.0-0.2)	SD13(0.5-2.1)	SD14(0.0-0.2)	SD14(0.7-2.1)	SD14(5.0-5.4)
Lab ID	Level of Protection	993309A-01	993309A-02	993309A-19	993309A-20	993309B-06	993309B-07	993309B-08	993309B-09	993309B-10
Date Sampled	ug/gOC (Note 1)	12/14/1999	12/14/1999	12/17/1999	12/17/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
VOC (ug/Kg)										
Chloromethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Bromomethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Vinyl Chloride	15.4(H)	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Chloroethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Methylene Chloride	NL	**8 J**	**3 J**	**3 J**	**460 J**	25 U	23 UJ	21 U	18 U	16 U
Acetone	NL	**120**	**72**	**250**	2,800 U	**53**	**67 J**	21 U	**92**	**60**
Carbon Disulfide	NL	**3 J**	**2 J**	**5 J**	2,200 U	25 U	23 UJ	**23**	18 U	16 U
1,1-Dichloroethene	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
1,1-Dichloroethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
1,2-Dichloroethene (total)	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Chloroform	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
1,2-Dichloroethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
2-Butanone	NL	**24 J**	19 U	**47**	3,300 U	25 U	**9 J**	21 U	**13 J**	**7 J**
1,1,1-Trichloroethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Carbon Tetrachloride	13.2(H)	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Bromodichloromethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
1,2-Dichloropropane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
cis-1,3-Dichloropropene	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Trichloroethene	48.4(H)	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Dibromochloromethane	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
1,1,2-Trichloroethane	13.2(H)	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Benzene	572(B)	27 U	17 U	26 U	**36 J**	25 U	23 UJ	21 U	18 U	16 U
trans-1,3-Dichloropropene	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Bromoform	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
4-Methyl-2-Pentanone	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
2-Hexanone	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Tetrachloroethene	NL	**2 J**	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
1,1,2,2-Tetrachloroethane	6.6(H)	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Toluene	990(B)	27 U	17 U	**0.6 J**	**63 J**	25 U	23 UJ	21 U	18 U	16 U
Chlorobenzene	77(B)	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Ethylbenzene	140.8(B)	27 U	17 U	26 U	**2,800**	25 U	23 UJ	21 U	18 U	16 U
Styrene	NL	27 U	17 U	26 U	2,200 U	25 U	23 UJ	21 U	18 U	16 U
Xylene (total)	594(B)	27 U	17 U	**5 J**	**1,200 J**	25 U	23 UJ	21 U	18 U	16 U
Total VOCs	NL	**157**	**77**	**310**	**10,659**	**53**	**76**	**23**	**105**	**67**
Total Organic Carbon (%)	NL	**3.1**	**1.8**	**3.2**	**4**	**3.2**	**3.5**	**3.6**	**2.8**	**1.7**

Notes:
NA = Not analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
Note 1 -NYSDEC Technical Guidance for Screening Contaminated Sediments, Division of Fish, Wildlife and Marine Resources [NYSDEC, Jan. 1999].
(H) - NYSDEC Level of Protection - Human Health Bioaccumulation - Sediment Criteria - Salt Water - ug/gOC. Site specific TOC - 2.2%.
(B) - NYSDEC Level of Protection - Benthic Aquatic Life Chronic Toxicity - Sediment Criteria - Salt Water - ug/gOC. Site specific TOC - 2.2%.

Table 5-23 (Cont'd.)
Sediment SVOC Results
Nyack MGP Site
(ug/Kg)

SITE

Sample ID	SD10(0.0-0.4)	SD10(0.2-2.0)	SD11(0.0-0.2)	SD11(0.5-2.0)	SD12(0.0-0.7)	SD12(4.4-4.7)	SD13(0.0-0.2)	SD13(0.5-2.1)	SD14(0.0-0.2)	SD14(0.7-2.1)	SD14(5.0-5.4)	ERL	ERM
Lab ID	993309B-14	993309B-04	993309A-01	993309A-02	993309A-19	993309A-20	993309B-06	993309B-07	993309B-08	993309B-09	993309B-10	(Note 1)	(Note 1)
Date Sampled	12/16/1999	12/16/1999	12/14/1999	12/14/1999	12/17/1999	12/17/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999		
PAH Compounds (ug/Kg)													
Naphthalene	74 J	160 J	35 J	610 J	28 J	160,000	34 J	44 J	66 J	340 J	580 U	160	2,100
2-Methylnaphthalene	65 J	160 J	32 J	420 J	24 J	180,000	32 J	40 J	64 J	250 J	580 U	70	670
Acenaphthylene	460 J	1,300 J	180 J	400 J	140 J	9,200 J	110 J	180 J	500 J	1,600 J	5 J	44	640
Acenaphthene	350 J	710 J	88 J	1,000	92 J	170,000	69 J	110 J	190 J	2,800 J	580 U	16	500
Fluorene	350 J	450 J	100 J	180 J	100 J	80,000	63 J	96 J	110 J	410 J	8 J	19	540
Phenanthrene	4,000	5,800	1,100	1,300	1,000	230,000	860	1,200	1,600	3,600	35 J	240	1,500
Anthracene	940 J	2,000 J	300 J	600 J	250 J	44,000	210 J	300 J	590 J	2,000 J	8 J	85.3	1,100
Fluoranthene	8,200	11,000	2,300	2,400	2,200	78,000	1,500	2,200	3,300	7,500	30 J	600	5,100
Pyrene	7,300	18,000	2,400	3,900	2,000	120,000	1,700	2,700	4,900	14,000	42 J	665	2,600
Benzo(a)anthracene	3,500	7,500	1,000	1,700	980	41,000	840	1,200	2,200	7,200	15 J	261	1,600
Chrysene	3,800	7,600	1,200	1,400	1,100	38,000	990	1,200	2,400	7,300	19 J	384	2,800
Benzo(b)fluoranthene	3,500	3,700 J	900	1,300	800	15,000 J	560 J	1,100	1,600	3,400	14 J	NL	NL
Benzo(k)fluoranthene	2,400	4,800	980	1,200	740 J	19,000 J	940	830 J	2,000	4,600	11 J	NL	NL
Benzo(a)pyrene	3,700	7,600	1,100	2,000	1,000	34,000	910	1,200	2,500	7,800	12 J	430	1,600
Indeno(1,2,3-cd)pyrene	2,200	3,300 J	920	1,200	500 J	8,800 J	200 J	490 J	550 J	2,800 J	11 J	NL	NL
Dibenzo(a,h)anthracene	690 J	1,100 J	280 J	420 J	170 J	3,200 J	58 J	150 J	180 J	960 J	580 U	63.4	260
Benzo(g,h,i)perylene	2,500	3,000 J	1,400	1,600	420 J	7,900 J	170 J	390 J	400 J	2,500 J	46 J	NL	NL
Total PAHs	44,029	78,180	14,315	21,630	11,544	1,238,100	9,246	13,430	23,150	69,060	256	4,022	44,792

Notes:

NA = Not analyzed

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

Note 1 -NYSDEC Technical Guidance for Screening Contaminated Sediments, Division of Fish, Wildlife and Marine Resources [NYSDEC, Jan. 1999].

ERL- Effect Range Low [NYSDEC, 1999]

ERM- Effect Range Moderate [NYSDEC, 1999].

Table 5-25 (Cont'd.)
Sediment Inorganic Results
Nyack MGP Site
(mg/Kg) SITE

Sample ID	SD10(0.2-2.0)		SD11(0.0-0.2)		SD11(0.5-2.0)		SD12(0.0-0.7)		SD12(4.4-4.7)		SD13(0.0-0.2)		SD13(0.5-2.1)		SD14(0.0-0.2)		SD14(0.7-2.1)		SD14(5.0-5.4)		ERL	ERM
Lab ID	993309B-04		993309A-01		993309A-02		993309A-19		993309A-20		993309B-06		993309B-07		993309B-08		993309B-09		993309B-10		(Note 1)	(Note 1)
Date Sampled	12/16/1999		12/14/1999		12/14/1999		12/17/1999		12/17/1999		12/16/1999		12/16/1999		12/16/1999		12/16/1999		12/16/1999			
Metals(mg/Kg)																						
Aluminum	19,600		15,400		13,100		15,500		14,600		22,500		17,400		17,600		17,800		16,400		NL	NL
Antimony	3.8	UJ	3.8	U	2.7	U	4.1	U	2.7	U	3.3	UJ	4.3	UJ	3.6	UJ	3.5	J	2	UJ	NL	NL
Arsenic	12.4		8.2		12.4		7.4		12.3		7.9		8.4		11.9		18.6		4.5		8.2	70
Barium	88.7		56.4	J	50.7	J	55.3	J	57.2	J	89.4		70.7	J	80.8		79.8		49.4		NL	NL
Beryllium	0.8	J	0.82	J	0.65	J	0.91	J	0.78	J	0.92	J	0.82	J	0.76	J	0.71	J	0.68	J	NL	NL
Cadmium	1.6	J	0.42	U	0.3	U	0.45	U	0.3	U	0.37	U	0.8	J	1.9	J	0.3	U	0.23	U	1.2	9.6
Calcium	5,860		4,180		2,260		3,600		2,610		3,590		3,890		3,640		4,030		1,880		NL	NL
Chromium	86.3		66.9		29.9		71.7		25.2		69.1		97.5		104		41.4		24.5		81	370
Cobalt	14.2	J	14.7	J	12.1	J	14	J	12.1	J	14.2	J	14.1	J	13.2	J	13.4	J	9.2	J	NL	NL
Copper	97.6		82.9	J	32.2	J	81.9	J	26.9	J	75.9		111		126		83.4		13.2		34	270
Iron	38,100		38,300		32,200		37,300		34,000		38,000		38,200		35,700		35,400		25,500		NL	NL
Lead	146	J	98.5		96.8		99.4		67.1		86.6	J	128	J	154	J	175	J	15.7	J	46.7	218
Magnesium	7,930		7,860		6,060		7,780		6,630		8,240		7,950		7,590		7,760		5,700		NL	NL
Manganese	693		997	J	508	J	695	J	882	J	917		803		563		488		469		NL	NL
Mercury	2.7		0.91		1.6		0.91		0.077		0.8		1.9		2.5		2.7		0.069		0.15	0.71
Nickel	37.5		34.1		25.9		34.5		27.3		34.2		37.8		37.3		32.5		21.3		20.9	51.6
Potassium	3,160	J	2,100	J	1,770	J	2,120	J	2,160	J	4,240	J	2,300	J	2,770	J	2,470	J	3,280	J	NL	NL
Selenium	2.1	UJ	2.1	U	1.5	U	2.3	U	1.5	U	1.8	UJ	2.4	UJ	2	UJ	1.5	UJ	1.1	UJ	NL	NL
Silver	1.8	J	2.1	J	0.61	UJ	1.9	J	0.59	UJ	1.8	J	2.6	J	3.2	J	0.6	U	0.46	U	1	3.7
Sodium	2,850		3,330	J	2,040	J	3,120	J	2,150	J	3,020		3,190		2,840		2,240		1,590		NL	NL
Thallium	4.2	U	4.2	U	3	U	4.5	U	3	U	3.7	U	4.8	U	4	U	3	U	2.3	U	NL	NL
Vanadium	42.6		33.1		27.6		32.4		27.6		43.7		38.9		41.1		34.3		30.7		NL	NL
Zinc	228		224	J	111	J	226	J	92.3	J	212		255		279		259		72.9		150	410
Cyanide (mg/Kg)	1.2	R	1.3	UJ	0.98	UJ	1.24	UJ	0.94	UJ	1.22	R	1.18	R	1.11	R	0.9	R	0.82	R	NL	NL

Notes:

NA = Not Analyzed

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

NL = Not Listed

J = The associated numerical value is an estimated quantity.

R = Unreliable result. The analyte may or may not be present in the sample. Supporting data is necessary to confirm result.

Note 1 -NYSDEC Technical Guidance for Screening Contaminated Sediments, Division of Fish, Wildlife and Marine Resources [NYSDEC, Jan. 1999].

ERL- Effect Range Low [NYSDEC, 1999]

ERM- Effect Range Moderate [NYSDEC, 1999].

Table 5-26
Addendum Sediment Results
Nyack MGP Site
(ug/Kg)

SITE

SITE

Sample ID Lab ID Date Sampled	NYSDEC Level of Protection ug/gOC (Note 1)	ERL (Note 1)	ERM (Note 1)	SD15(0-2) C1F070175003 06/06/2001	SD15(2.8-3.5) C1F070175004 06/06/2001	SD16(0-2) C1F070175008 06/06/2001	SD16(3.5-4.5) C1F070175005 06/06/2001	SD17(0-2) C1F070175009 06/06/2001	SD17(2-4) C1F070175006 06/06/2001	SD18(0-2) C1F070175007 06/06/2001	SD18(4.3-4.5) C1F070175002 06/06/2001	SD19(0-2) C1F070175001 06/06/2001	SD19(6.3-7.0) C1F070175010 06/06/2001	SD20(0-2) C1F070175011 06/06/2001	SD20(5.2-6.3) C1F070175012 06/06/2001	SD21(0-2) C1F070229011 06/06/2001	SD21(6-7) C1F070229010 06/06/2001
VOC (ug/Kg)																	
Benzene	572(B)	NA	NA	15 U	17 U	17 U	17 U	12 U	15 U	24 U	16 U	25 U	18 U	35 U	20 U	23 U	18 U
Toluene	990(B)	NA	NA	15 U	17 U	17 U	17 U	12 U	15 U	24 U	16 U	25 U	18 U	35 U	20 U	23 U	18 U
Ethylbenzene	140.8(B)	NA	NA	15 U	17 U	17 U	17 U	12 U	15 U	24 U	16 U	25 U	18 U	35 U	20 U	23 U	18 U
Xylene (total)	594(B)	NA	NA	15 U	17 U	17 U	17 U	12 U	15 U	24 U	16 U	25 U	18 U	35 U	20 U	23 U	18 U
Total BTEX	NL	NA	NA	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U
PAH Compounds (ug/Kg)																	
2-Methylnaphthalene	NA	70	670	10000 U	560 U	11000 U	560 U	770 U	2500 U	1600 U	530 U	820 U	590 U	2300 U	660 U	3000 U	130 J
Acenaphthene	NA	16	500	9600 J	560 U	20000	560 U	90 J	280 J	1600 U	530 U	110 J	590 U	350 J	660 U	3000 U	380 J
Acenaphthylene	NA	44	640	4000 J	560 U	7200 J	560 U	340 J	740 J	230 J	530 U	160 J	590 U	390 J	660 U	310 J	390 J
Anthracene	NA	85.3	1100	20000	560 U	15000	560 U	290 J	630 J	330 J	530 U	220 J	590 U	800 J	660 U	440 J	540 J
Benzo(a)anthracene	NA	261	1600	24000	560 U	38000	560 U	1600	3500	2100	530 U	1700	590 U	4300	69 J	3200	2400
Benzo(a)pyrene	NA	430	1600	21000	560 U	32000	560 U	1600	3200	2300	530 U	1900	590 U	4800	73 J	3400	2400
Benzo(b)fluoranthene	NA	NL	NL	10000	560 U	25000	560 U	1500	2400 J	2400	530 U	2100	590 U	4700	660 U	3000	1900
Benzo(ghi)perylene	NA	NL	NL	10000	560 U	17000	560 U	890	2200 J	1600	530 U	1700	590 U	2600	660 U	3100	1600
Benzo(k)fluoranthene	NA	NL	NL	12000	560 U	17000	560 U	1100	2400 J	1600	530 U	1200	590 U	3100	660 U	2700 J	1400
Chrysene	NA	384	2800	23000	560 U	41000	560 U	1800	3800	2700	530 U	2200	590 U	5200	660 U	3700	2800
Dibenz(a,h)anthracene	NA	63.4	260	2700 J	560 U	5300 J	560 U	310 J	590 J	390 J	530 U	520 J	590 U	690 J	660 U	640 J	520 J
Fluoranthene	NA	600	5100	39000	560 U	26000	560 U	2800	4700	5400	69 J	4500	590 U	11000	660 U	7100	4800
Fluorene	NA	19	540	1400 J	560 U	5500 J	560 U	160 J	280 J	160 J	530 U	110 J	590 U	390 J	660 U	3000 U	280 J
Indeno(1,2,3-cd)pyrene	NA	NL	NL	9200 J	560 U	17000	560 U	920	2100 J	1800	530 U	1700	590 U	2900	660 U	3000	1700
Naphthalene	NA	160	2100	10000 U	560 U	11000 U	560 U	770 U	2500 U	1600 U	530 U	820 U	590 U	2300 U	79 J	3000 U	130 J
Phenanthrene	NA	240	1500	57000	560 U	55000	560 U	1700	2500	2200	530 U	1900	590 U	5300	660 U	3000	2500
Pyrene	NA	665	2600	69000	560 U	120000	560 U	2900 J	10000	5200	83 J	4300	590 U	10000	95 J	8000	5000
Total PAHs	NA	4022	44792	321900	- U	441000	- U	18000	39320	28410	152	24320	- U	56520	316	41590	28870
PCB Compounds (ug/Kg)																	
Aroclor 1016	NL	NL	NL	51 U	56 R	55 U	56 U	39 U	50 U	78 U	53 U	82 U	59 U	110 U	66 U	74 U	60 U
Aroclor 1221	NL	NL	NL	51 U	56 R	55 U	56 U	39 U	50 U	78 U	53 U	82 U	59 U	110 U	66 U	74 U	60 U
Aroclor 1232	NL	NL	NL	51 U	56 R	55 U	56 U	39 U	50 U	78 U	53 U	82 U	59 U	110 U	66 U	74 U	60 U
Aroclor 1242	NL	NL	NL	59	56 R	55 U	56 U	39 U	50 U	78 U	53 U	3200 J	59 U	110 U	66 U	74 U	60 U
Aroclor 1248	NL	NL	NL	51 U	56 R	120 J	56 U	39 U	50 U	320 J	53 U	82 U	59 U	1600 J	66 U	74 U	60 U
Aroclor 1254	NL	NL	NL	51 U	56 R	91 J	56 U	39 U	50 U	180 J	53 U	870 J	59 U	640 J	66 U	200	96
Aroclor 1260	NL	NL	NL	51 U	56 R	55 U	56 U	39 U	50 U	78 U	53 U	82 U	59 U	110 U	66 U	74 U	60 U
Total PCBs	910.8(B)	22.7	180	59	- U	211	- U	- U	- U	500	- U	4070	- U	2240	- U	200	96
% Solids	NL	NL	NL	65	58.6	60	58.9	85.4	65.6	42.2	61.8	40.1	55.9	28.8	50.2	44.4	54.7
Total Organic Carbon (mg/Kg) (Walkley Black)	NL	NL	NL	18200	17700	27600	28000	1200	16200	28800	18800	26900	22500	45500	28100	26700	29200
Total Organic Carbon (mg/Kg) (Dry Combustion)	NL	NL	NL	33300	16600	26000	16600	11800	24600	24200	17100	27100	20900	25000	16800	27800	25500

Notes:
NA = Not analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
B = For organic data, the analyte is present in the associated method blank as well as in the sample.
Note 1 - NYSDEC Technical Guidance for Screening Contaminated Sediments, Division of Fish, Wildlife and Marine Resources [NYSDEC, Jan. 1999].
(H) - NYSDEC Level of Protection - Human Health Bioaccumulation - Sediment Criteria - Salt Water - ug/gOC. Site specific TOC - 2.2%.
(B) - NYSDEC Level of Protection - Benthic Aquatic Life Chronic Toxicity - Sediment Criteria - Salt Water - ug/gOC. Site specific TOC - 2.2%.
ERL- Effect Range Low [NYSDEC, 1999]
ERM- Effect Range Moderate [NYSDEC, 1999].

Table 5-26 (Cont'd.)
Addendum Sediment Results
Nyack MGP Site
(ug/Kg)

SITE

Sample ID Lab ID Date Sampled	NYSDEC Level of Protection ug/gOC (Note 1)	ERL (Note 1)	ERM (Note 1)	SD22(0-2) C1F070229012 06/06/2001	SD22(4.9-6.0) C1F070229013 06/06/2001	SD23(0-2) C1F070229014 06/06/2001	SD23(3-4) C1F070229015 06/06/2001	SD24(0-2) C1F070229016 06/06/2001	SD24(5.2-6.0) C1F070229017 06/06/2001	SD25(0-2) C1F070229018 06/06/2001	SD25(5.3-6) C1F070229019 06/06/2001	SD26(0-2) C1F070229020 06/06/2001	SD26(3.5-4.5) C1F070248001 06/06/2001	SD27(0-2) C1F070248002 06/06/2001	SD27(5.1-5.8) C1F070211001 06/06/2001	SD27(6.4-6.9) C1F070211002 06/06/2001	SD28(0-2) C1F070211003 06/06/2001	SD28(3-4.5) C1F070211005 06/06/2001
VOC (ug/Kg)																		
Benzene	572(B)	NA	NA	21 U	17 U	23 U	21 U	19 U	18 U	22 U	18 U	20 U	19 U	23 U	16 U	17 U	21 U	21 U
Toluene	990(B)	NA	NA	21 U	17 U	23 U	21 U	19 U	18 U	22 U	18 U	20 U	19 U	23 U	16 U	17 U	21 U	21 U
Ethylbenzene	140.8(B)	NA	NA	21 U	17 U	23 U	21 U	19 U	18 U	22 U	18 U	20 U	19 U	23 U	16 U	17 U	21 U	21 U
Xylene (total)	594(B)	NA	NA	21 U	17 U	23 U	21 U	19 U	18 U	22 U	18 U	20 U	19 U	23 U	5 J	17 U	21 U	21 U
Total BTEX	NL	NA	NA	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U	- U
PAH Compounds (ug/Kg)																		
2-Methylnaphthalene	NA	70	670	710 U	520 J	760 U	1400 U	630 U	590 U	1500 U	590 U	680 U	640 U	760 U	2300 J	87 J	3500 U	690 U
Acenaphthene	NA	16	500	710 U	1500	87 J	250 J	110 J	590 U	180 J	590 U	680 U	640 U	120 J	24000	450 J	3500 U	690 U
Acenaphthylene	NA	44	640	210 J	390 J	120 J	200 J	230 J	590 U	670 J	590 U	680 U	640 U	68 J	2900 J	550 U	1700 J	690 U
Anthracene	NA	85.3	1100	180 J	1400	220 J	520 J	180 J	590 U	530 J	590 U	680 U	640 U	200 J	15000	310 J	1200 J	690 U
Benzo(a)anthracene	NA	261	1600	1300	2800	1300	2900	1400	590 U	3500	590 U	680 U	640 U	690	16000	190 J	9200	180 J
Benzo(a)pyrene	NA	430	1600	1400	3000	1400	3000	1600	590 U	3900	590 U	680 U	640 U	820	14000	150 J	9200	180 J
Benzo(b)fluoranthene	NA	NL	NL	1400	1700	1200	2800	910	590 U	2100	590 U	680 U	640 U	730 J	6700 J	71 J	5000	95 J
Benzo(ghi)perylene	NA	NL	NL	1300	2000	990	2300	970	590 U	2100	590 U	680 U	640 U	590 J	4600 J	84 J	3100 J	180 J
Benzo(k)fluoranthene	NA	NL	NL	1000	1500	1000	2200	810	590 U	2000	590 U	680 U	640 U	660 J	7400 J	91 J	5000	96 J
Chrysene	NA	384	2800	1500	3100	1700	3500	1500	590 U	3600	590 U	680 U	640 U	1100	14000	200 J	8900	170 J
Dibenz(a,h)anthracene	NA	63.4	260	420 J	520 J	260 J	730 J	260 J	590 U	550 J	590 U	680 U	640 U	150 J	1300 J	550 U	940 J	690 U
Fluoranthene	NA	600	5100	2200	4600	3000	7700	1500	590 U	4400	590 U	87 J	640 U	2100	26000	350 J	12000	210 J
Fluorene	NA	19	540	76 J	960 J	120 J	320 J	70 J	590 U	1500 U	590 U	680 U	640 U	120 J	14000	240 J	3500 U	690 U
Indeno(1,2,3-cd)pyrene	NA	NL	NL	1200	1700	1100	2500	870	590 U	2000	590 U	680 U	640 U	620 J	4800 J	550 U	3300 J	690 U
Naphthalene	NA	160	2100	74 J	270 J	760 U	1400 U	630 U	590 U	1500 U	590 U	680 U	640 U	760 U	11000 U	550 U	3500 U	690 U
Phenanthrene	NA	240	1500	780	7100	1400	4100	340 J	590 U	1400 J	590 U	680 U	640 U	1300	69000	1000	1600 J	150 J
Pyrene	NA	665	2600	2700	8600	3000	7900	2500	590 U	6200	590 U	73 J	640 U	1900	42000	580	18000	340 J
Total PAHs	NA	4022	44792	15740	41660	15907	40620	13250	- U	33130	- U	160	- U	11388	264000	3803	79140	1601
PCB Compounds (ug/Kg)																		
Aroclor 1016	NL	NL	NL	71 U	56 U	76 U	69 U	63 U	59 U	73 U	59 U	68 U	64 U	76 U	53 U	55 U	70 U	69 U
Aroclor 1221	NL	NL	NL	71 U	56 U	76 U	69 U	63 U	59 U	73 U	59 U	68 U	64 U	76 U	53 U	55 U	70 U	69 U
Aroclor 1232	NL	NL	NL	71 U	56 U	76 U	69 U	63 U	59 U	73 U	59 U	68 U	64 U	76 U	53 U	55 U	70 U	69 U
Aroclor 1242	NL	NL	NL	71 U	56 U	76 U	69 U	63 U	59 U	73 U	59 U	68 U	64 U	76 U	53 U	55 U	70 U	69 U
Aroclor 1248	NL	NL	NL	150 J	56 U	240 J	730 J	63 U	59 U	460	59 U	68 U	64 U	94	53 U	55 U	180 J	69 U
Aroclor 1254	NL	NL	NL	79 J	56 U	130 J	320 J	63 U	59 U	310	59 U	68 U	64 U	76 U	53 U	55 U	88 J	69 U
Aroclor 1260	NL	NL	NL	71 U	56 U	76 U	85 J	63 U	59 U	130	59 U	68 U	64 U	76 U	53 U	55 U	70 U	69 U
Total PCBs	910.8(B)	22.7	180	229	- U	370	1135	- U	- U	900	- U	- U	- U	94	- U	- U	268	- U
% Solids	NL	NL	NL	46.8	58.8	43.5	47.7	52	56.1	45.1	56.2	48.8	51.8	43.4	62	59.8	47.4	47.5
Total Organic Carbon (mg/Kg) (Walkley Black)	NL	NL	NL	33100	26100	32800	26900	25800	25700	30700	26300	25600	24400	27100	23500	25400	23600	30200
Total Organic Carbon (mg/Kg) (Dry Combustion)	NL	NL	NL	25900	25800	23700	27000	22800	16700	26500	15800	13700	13900	25200	28800	14300	21600	15900

Notes:
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