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ENVIRONMENT

Mr. Steven M. Scharf, P.E.
Project Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Subject:
Discussion of Results of Soil Gas Interim Remedial Measure Trench Area Soil Pre-Characterization,
Operable Unit 3 (Former Grumman Settling Ponds),
Bethpage, New York.

Date:
November 9, 2007

Contact:
David E. Stern

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Our ref:
NY001464.1407.00007

Dear Mr. Scharf:

On behalf of Northrop Grumman Systems Corporation (Northrop Grumman), ARCADIS of New York, Inc. (ARCADIS) has prepared this report of findings of the pre-characterization of soils associated with the Operable Unit 3 (OU3) Soil Gas Interim Remedial Measure (IRM) construction project. The OU3 IRM is being implemented pursuant to an Administrative Order on Consent between Northrop Grumman and the New York State Department of Environmental Conservation (NYSDEC), dated July 2005. OU3 IRM soils will be managed in accordance with the NYSDEC-approved Soil Management Plan, contained in the 95 percent Design Report, dated September 7, 2007.

In general the proposed Soil Gas IRM trench will be installed along the former Grumman Plant 24 Access Road, located south and west of the Bethpage Community Park (Park) property. The analytical results of ARCADIS' pre-characterization sampling are provided in Tables 1 to 4. Previously existing analytical results (see below) from soil samples collected within or proximal to the proposed Soil Gas IRM trench that were utilized in this evaluation are provided in Attachment A. Figures 1A and 1B depict the proposed Soil Gas IRM area, the summarized results of new and previously existing samples collected within and proximal to the proposed Soil Gas IRM trench, as well as the management approach for soil (i.e., reuse/off-site disposal) within and near the proposed Soil Gas IRM

trench. Figure 2 depicts the soil management plan, as originally presented in the 95 percent Design Report. Previously existing data sources utilized in support of the soil pre-characterization for the proposed Soil Gas IRM trench are as follows:

- A six-phase soil characterization effort was conducted on the former Grumman Plant 24 Access Road, performed in 2001 by Dvirka & Bartilucci. The complete results were provided to the NYSDEC in the report entitled Plant 24 Access Road Site, Bethpage Facility PCB Investigation/Delineation Program Report of Findings, dated July 2001 (Dvirka & Bartilucci 2001). Soil samples were analyzed for polychlorinated biphenyls (PCBs).

- Soil samples were collected by Dvirka & Bartilucci along the former Grumman Plant 24 Access Road as part of the OU3 Remedial Investigation (RI). OU3 RI soil samples obtained were selectively submitted for laboratory analysis of PCBs, cadmium and chromium, semi-volatile organic compounds (SVOCs), and volatile organic compounds (VOCs).

Based on the previously existing data referenced above, it was determined that areas at the eastern (at and near the Boring B-14 and B-16 clusters) and western (at Boring B-49) ends of the portion of the proposed Soil Gas IRM trench south of the Park exhibited PCB concentrations above the 6 NYCRR Part 375 Industrial Soil Cleanup Objective (SCO) of 25 milligrams per kilogram (mg/kg) and that data gaps existed for PCBs as well as other analytes. A total of 43 additional soil samples were collected in September and October 2007 by ARCADIS in two phases with the objective to fill data gaps and complete the pre-characterization of soil quality within and adjacent to the proposed Soil Gas IRM trench, as accessible. Samples were collected via Geoprobe using approved NYSDEC-methods, as specified in the OU3 RI/FS Work Plan.

The first phase of soil pre-characterization sampling conducted in September 2007 included Locations PC-01 to PC-07 (total of 11 samples). Samples were analyzed selectively in the laboratory for VOCs, SVOCs, chromium, and PCBs, using NYSDEC-approved methods. Based on evaluation of the results of the first phase, PCBs at Location PC-03 and chromium at Location PC-05 were identified as requiring additional sampling. The remaining areas indicated minor to no exceedances of the Part 375 Industrial SCO, and no exceedances of the Toxic

Substance Control Act (TSCA) criterion or Resource Conservation and Recovery Act (RCRA) criteria for characteristically hazardous waste.

The data at Location PC-03 indicated that total PCB concentrations exceeded the TSCA criterion of 50 mg/kg within the proposed Soil Gas IRM trench area to a depth of 8 feet below land surface (ft bls). Therefore, an additional 32 soil samples were collected at and around Location PC-03 for analysis of PCBs. Specifically, soil samples were collected at Locations PC3-1 to PC3-8 from to land surface to 12 ft bls within the proposed trench and outside the trench, laterally beyond the northern and southern limits, as shown on Figures 1A and 1B. The objective of the second phase of sampling was to obtain data sufficient to conservatively estimate the volume of soil that would be transported and disposed of off-site as TSCA-regulated waste, to the extent required for Soil Gas IRM trench excavation and pipe installation. Soils within and below the proposed trench and near the trench, as defined on Figures 1A and 1B, would be excavated, as needed, and disposed of off-site. Based on the results, additional excavation will be conducted to 8 or 10 ft bls (i.e., below the bottom of the proposed trench) and to similar depths laterally beyond the northern and southern trench limits (Figures 1A and 1B) during construction. This additional excavation will ensure that no TSCA-regulated waste will remain within or beneath the Soil Gas IRM trench or at an unacceptably close distance to the trench margins. Further, although the existing data indicate that total PCB concentrations at Boring B-49 and at and near Boring B-14 and B-16 clusters were less than TSCA criterion but greater than the Part 375 Industrial SCO of 25 mg/kg (i.e., could be disposed of as non-TSCA-regulated waste), ARCADIS applied a conservative approach to management of these limited volumes of PCB-impacted soil and, for the purposes of the Soil Gas IRM pre-characterization effort, the soil at these locations will also be managed as TSCA-regulated waste.

The soil data also indicated that the chromium concentration at Location PC-05 did not exceed the Part 375 Industrial Use SCO of 6,800 mg/kg. However, the data indicated a potential exceedance of the RCRA hazardous waste criterion of 5 milligrams per liter (mg/L) using the "20 times rule" to calculate the theoretical Toxicity Characteristic Leaching Procedure (TCLP) concentration. The laboratory was therefore instructed to analyze the sample for chromium using TCLP. The TCLP result indicated no detectable concentrations of chromium (Table 3); therefore, no additional sampling was conducted and the soil at the PC-05 area was determined be suitable for reuse.

Based on the collective results of the pre-characterization soil sampling and data review discussed in this report, the goals of the proposed Soil Gas IRM trench area soil pre-characterization have been met.

Please contact us if you have questions or need additional information.

Sincerely,

ARCADIS of New York, Inc.

David E. Stern
Senior Hydrogeologist

Michael F. Wolfert
Project Director

Copies:
John Cofman, Northrop Grumman
Larry Leskovjan, Northrop Grumman

Table 1. Concentrations of Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-02 0-4 9/13/2007	PC-02 4-8 9/13/2007	PC-03 0-4 9/13/2007
1,1,1-Trichloroethane	1000		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
1,1,2,2-Tetrachloroethane	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
1,1,2-Trichloroethane	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
1,1-Dichloroethane	480		< 0.0055	< 0.0053	< 0.006	< 0.0053	**.0011 J**
1,1-Dichloroethene	1000		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
1,2-Dichloroethane	60		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
1,2-Dichloropropane	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
2-Butanone	1000		< 0.055	**.00082 J**	< 0.06	< 0.053	< 0.055
2-Hexanone	--		< 0.055	< 0.053	< 0.06	< 0.053	< 0.055
4-Methyl-2-Pentanone	--		< 0.055	< 0.053	< 0.06	< 0.053	< 0.055
Acetone	1000		< 0.055	< 0.053	< 0.06	< 0.053	< 0.055
Benzene	89		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Bromoform	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Bromomethane	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Carbon Disulfide	--		< 0.055	< 0.053	< 0.06	< 0.053	< 0.055
Carbon Tetrachloride	44		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Chlorobenzene	1000		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Chlorodibromomethane	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Chloroethane	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Chloroform	700		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Chloromethane	--		**.00033 J**	< 0.0053	< 0.006	< 0.0053	< 0.0055
cis-1,2-Dichloroethene	1000		< 0.0055	< 0.0053	< 0.006	< 0.0053	0.072
cis-1,3-Dichloropropene	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Ethylbenzene	780		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Freon 12	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Methylene Chloride	1000		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Styrene	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Tetrachloroethene	300		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Toluene	1000		**.00075 J**	**.0031 J**	**.0036 J**	< 0.0053	**.00099 J**
trans-1,2-Dichloroethene	1000		< 0.0055	< 0.0053	< 0.006	< 0.0053	0.013
trans-1,3-Dichloropropene	--		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
Trichloroethene	400		< 0.0055	< 0.0053	**.0018 J**	< 0.0053	**0.023**
Vinyl Chloride	27		< 0.0055	< 0.0053	< 0.006	< 0.0053	< 0.0055
TVOC			**0.00108**	**0.00392**	**0.0054**	0	**0.02399**

See last page for notes.

Table 1. Concentrations of Volatile Organic Compounds in Soil Samples from SVE IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: Sample Depth (ft bls): Sample Date:	PC-03 4-8 9/13/2007	PC-04 0-4 9/13/2007	PC-04 4-8 9/13/2007	PC-05 4-8 9/13/2007	PC-06 4-8 9/13/2007
1,1,1-Trichloroethane	1000		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
1,1,2,2-Tetrachloroethane	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
1,1,2-Trichloroethane	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
1,1-Dichloroethane	480		**.00051 J**	< 0.0056	< 0.0056	< 0.0055	< 0.0055
1,1-Dichloroethene	1000		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
1,2-Dichloroethane	60		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
1,2-Dichloropropane	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
2-Butanone	1000		**.0012 J**	< 0.056	**.0012 J**	**.001 J**	< 0.055
2-Hexanone	--		< 0.052	< 0.056	< 0.056	< 0.055	< 0.055
4-Methyl-2-Pentanone	--		< 0.052	< 0.056	< 0.056	< 0.055	< 0.055
Acetone	1000		< 0.052	< 0.056	< 0.056	< 0.055	< 0.055
Benzene	89		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Bromoform	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Bromomethane	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Carbon Disulfide	--		**.00033 J**	< 0.056	< 0.056	< 0.055	< 0.055
Carbon Tetrachloride	44		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Chlorobenzene	1000		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Chlorodibromomethane	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Chloroethane	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Chloroform	700		< 0.0052	< 0.0056	< 0.0056 J	< 0.0055	< 0.0055
Chloromethane	--		< 0.0052	**.00045 J**	< 0.0056	< 0.0055	< 0.0055
cis-1,2-Dichloroethene	1000		0.047	< 0.0056	< 0.0056	**.00063 J**	< 0.0055
cis-1,3-Dichloropropene	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Ethylbenzene	780		**.00079 J**	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Freon 12	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Methylene Chloride	1000		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Styrene	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Tetrachloroethene	300		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Toluene	1000		0.0054	.00035 J	< 0.0056	**0.0071**	**.0024 J**
trans-1,2-Dichloroethene	1000		0.0066	< 0.0056	< 0.0056	< 0.0055	< 0.0055
trans-1,3-Dichloropropene	--		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
Trichloroethene	400		**0.024**	**.00044 J**	< 0.0056	**.0024 J**	< 0.0055
Vinyl Chloride	27		< 0.0052	< 0.0056	< 0.0056	< 0.0055	< 0.0055
			0.02683	**0.00089**	**0.0012**	**0.01113**	**0.0024**

See last page for notes.

Table 1. Concentrations of Volatile Organic Compounds in Soil Samples from SVE IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: Sample Depth (ft bls): Sample Date:	PC-07 4-8 9/13/2007
1,1,1-Trichloroethane	1000		< 0.0053
1,1,2,2-Tetrachloroethane	--		< 0.0053
1,1,2-Trichloroethane	--		< 0.0053
1,1-Dichloroethane	480		< 0.0053
1,1-Dichloroethene	1000		< 0.0053
1,2-Dichloroethane	60		< 0.0053
1,2-Dichloropropane	--		< 0.0053
2-Butanone	1000		**.001 J**
2-Hexanone	--		< 0.053
4-Methyl-2-Pentanone	--		< 0.053
Acetone	1000		< 0.053
Benzene	89		< 0.0053
Bromoform	--		< 0.0053
Bromomethane	--		< 0.0053
Carbon Disulfide	--		< 0.053
Carbon Tetrachloride	44		< 0.0053
Chlorobenzene	1000		< 0.0053
Chlorodibromomethane	--		< 0.0053
Chloroethane	--		< 0.0053
Chloroform	700		< 0.0053
Chloromethane	--		< 0.0053
cis-1,2-Dichloroethene	1000		< 0.0053
cis-1,3-Dichloropropene	--		< 0.0053
Ethylbenzene	780		< 0.0053
Freon 12	--		< 0.0053
Methylene Chloride	1000		< 0.0053
Styrene	--		< 0.0053
Tetrachloroethene	300		< 0.0053
Toluene	1000		< 0.0053
trans-1,2-Dichloroethene	1000		< 0.0053
trans-1,3-Dichloropropene	--		< 0.0053
Trichloroethene	400		< 0.0053
Vinyl Chloride	27		< 0.0053
			0.001

Notes:

1. All samples analyzed on a dry weight basis.

ft bls	feet below land surface
IRM	Interim Remedial Mesure
mg/kg	milligrams per kilogram
TVOC	Total Volatile Organic Compounds
J	Value is estimated

Table 2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: Sample Depth (ft bls): Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-02 0-4 9/13/2007	PC-02 4-8 9/13/2007	PC-03 0-4 9/13/2007
1,2-Benzphenanthracene	--		**2.2**	**2**	**0.41**	< 0.35	< 7.3
2,4,5-Trichlorophenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18
2,4,6-Trichlorophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2,4-Dichlorophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2,4-Dimethylphenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2,4-Dinitrophenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18
2,4-Dinitrotoluene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2,6-Dinitrotoluene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2-Chloronaphthalene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2-Chlorophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2-Methylnaphthalene	--		**1.6 J**	**2.3**	< 0.4	< 0.35	< 7.3
2-Methylohenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
2-Nitiroaniline	--		< 4.5	< 4.4	< 1	< 0.87	< 18
2-Nitrophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
3,3'-Dichlorobenzidine	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
3,5,5-Trimethyl-2-Cyclohexene-1-One	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
3-Nitroaniline	--		< 4.5	< 4.4	< 1	< 0.87	< 18
4,6-Dinitro-2-Methylphenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18
4-Bromophenylphenylether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
4-Chloro-3-Methylphenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
4-Chlorophenylphenylether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
4-Methylphenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
4-Nitrophenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18
Acenaphthene	1000		**0.33 J**	**0.21 J**	**0.066 J**	< 0.35	< 7.3
Acenaphthylene	1000		**0.8 J**	**1.2 J**	< 0.4	< 0.35	< 7.3
Acetophenone	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Anthracene	1000		**1.7 J**	**2**	**0.1 J**	< 0.35	< 7.3
Benzo(a)anthracene	11		**2.2**	**2**	**0.36 J**	< 0.35	< 7.3
Benzo(a)pyrene	1.1		**1.7 J**	**1.7 J**	**0.35 J**	< 0.35 J	< 7.3
Benzo(b)fluoranthene	11		**0.83 J**	**0.7 J**	**0.35 J**	< 0.35	< 7.3
Benzo(g,h,i)perylene	1000		**0.99 J**	**1 J**	**0.24 J**	< 0.35	< 7.3
Benzo(k)fluoranthene	110		**1.2 J**	**1.1 J**	**0.33 J**	< 0.35	< 7.3
Benzyl butyl phthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Bis(2-chloroethoxy)methane	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Bis(2-chloroethyl)ether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Bis(2-chloroisopropyl)ether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Bis(2-ethylhexyl)phthalate	--		< 1.8	< 1.8	< 0.4	**0.13 J**	< 7.3
Dibezo(a,h)anthracene	1.1		**0.32 J**	**0.32 J**	**0.079 J**	< 0.35	< 7.3
Dibenzofuran	--		**0.21 J**	**0.19 J**	**0.023 J**	< 0.35	< 7.3
Diethylphthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Dimethylphthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Di-n-butylpthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3

See last page for notes.

Table 2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-02 0-4 9/13/2007	PC-02 4-8 9/13/2007	PC-03 0-4 9/13/2007
Di-n-Octylphthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Fluoranthene	1000		**3.6**	**3.1**	**1**	< 0.35	< 7.3
Fluorene	1000		**1.7 J**	**2.2**	**0.056 J**	< 0.35	< 7.3
Hexachloro-1,3-Butadiene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Hexachlorobenzene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Hexachlorocyclopentadiene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Hexachloroethane	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Indeno(1,2,3-CD)Pyrene	11		**0.86 J**	**0.85 J**	**0.23 J**	< 0.35	< 7.3
Naphthalene	1000		**1.3 J**	**2**	< 0.4	< 0.35	**0.17 J**
Nitrobenzene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
n-Nitrosodi-n-propylamine	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
n-Nitrosodiphenylamine	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
4-Chloroaniline	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
Pentachlorophenol	55		< 4.5	< 4.4	< 1	< 0.87	< 18
Phenanthrene	1000		**7.4**	**8.1**	**0.71**	< 0.35	**0.35 J**
Phenol	1000		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3
4-Nitroaniline	--		< 4.5	< 4.4	< 1	< 0.87	< 18
Pyrene	1000		**4.6**	**4.3**	**0.77**	< 0.35	< 7.3
TSVOC			**33.54**	**35.27**	**5.074**	**0.13**	**0.52**

See last page for notes.

Table 2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-03 4-8 9/13/2007	PC-04 0-4 9/13/2007	PC-04 4-8 9/13/2007	PC-05 4-8 9/13/2007	PC-06 4-8 9/13/2007	PC-07 4-8 9/13/2007
1,2-Benzphenanthracene	--		< 3.4	**0.049 J**	**0.033 J**	**0.034 J**	< 0.36	< 0.35
2,4,5-Trichlorophenol	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
2,4,6-Trichlorophenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,4-Dichlorophenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,4-Dimethylphenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,4-Dinitrophenol	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
2,4-Dinitrotoluene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,6-Dinitrotoluene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Chloronaphthalene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Chlorophenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Methylnaphthalene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Methylohenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Nitiroaniline	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
2-Nitrophenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
3,3'-Dichlorobenzidine	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
3,5,5-Trimethyl-2-Cyclohexene-1-One	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
3-Nitroaniline	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
4,6-Dinitro-2-Methylphenol	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
4-Bromophenylphenylether	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Chloro-3-Methylphenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Chlorophenylphenylether	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Methylphenol	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Nitrophenol	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
Acenaphthene	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Acenaphthylene	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Acetophenone	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Anthracene	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Benzo(a)anthracene	11		< 3.4	< 0.37 J	< 0.37 J	< 0.37 J	< 0.36	< 0.35
Benzo(a)pyrene	1.1		< 3.4	< 0.37 J	< 0.37 J	< 0.37 J	< 0.36	< 0.35
Benzo(b)fluoranthene	11		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Benzo(g,h,i)perylene	1000		< 3.4	**0.11 J**	**0.08 J**	**0.064 J**	< 0.36	< 0.35
Benzo(k)fluoranthene	110		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Benzyl butyl phthalate	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-chloroethoxy)methane	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-chloroethyl)ether	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-chloroisopropyl)ether	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-ethylhexyl)phthalate	--		< 3.4	**0.18 J**	**0.22 J**	**0.22 J**	**0.058 J**	< 0.35
Dibezo(a,h)anthracene	1.1		< 3.4	**0.073 J**	**0.062 J**	**0.047 J**	< 0.36	< 0.35
Dibenzofuran	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Diethylphthalate	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Dimethylphthalate	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Di-n-butylpthalate	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35

See last page for notes.

Table 2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: / ample Depth (ft bls): / Sample Date:	PC-03 4-8 9/13/2007	PC-04 0-4 9/13/2007	PC-04 4-8 9/13/2007	PC-05 4-8 9/13/2007	PC-06 4-8 9/13/2007	PC-07 4-8 9/13/2007
Di-n-Octylphthalate	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Fluoranthene	1000		< 3.4	**0.092 J**	< 0.37	< 0.37	< 0.36	< 0.35
Fluorene	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachloro-1,3-Butadiene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachlorobenzene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachlorocyclopentadiene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachloroethane	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Indeno(1,2,3-CD)Pyrene	11		< 3.4	**0.094 J**	**0.069 J**	**0.056 J**	< 0.36	< 0.35
Naphthalene	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Nitrobenzene	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
n-Nitrosodi-n-propylamine	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
n-Nitrosodiphenylamine	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Chloroaniline	--		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Pentachlorophenol	55		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
Phenanthrene	1000		**0.2 J**	**0.053 J**	**0.024 J**	**0.025 J**	**0.015 J**	< 0.35
Phenol	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Nitroaniline	--		< 8.6	< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
Pyrene	1000		< 3.4	< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
TSVOC			**0.2**	**0.651**	**0.488**	**0.446**	**0.073**	0

Notes:

1. All samples analyzed on a dry weight basis.

ft bls	feet below land surface
IRM	Interim Remedial Mesure
mg/kg	milligrams per kilogram
TSVOC	Total semi-volatile organic compound
J	Value is estimated

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Table 3. Concentrations of Total and TCLP Chromium in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents	Part 375 Industrial Use Soil Cleanup Objective	RCRA Haz. Waste Criterion	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-02 0-4 9/13/2007	PC-02 4-8 9/13/2007	PC-03 0-4 9/13/2007	PC-03 4-8 9/13/2007	PC-04 0-4 9/13/2007	PC-04 4-8 9/13/2007	PC-05 4-8 9/13/2007	PC-06 4-8 9/13/2007	PC-07 4-8 9/13/2007
Chromium, total, in mg/kg	6800	--		**12.9 J**	**6.9 J**	**20.1 J**	**4.4 J**	**22.1 J**	**6.1 J**	**27.3 J**	**25.4 J**	**249 J**	**9.5 J**	**12.7 J**
Chromium, TCLP, in mg/L	--	5		--	--	--	--	--	--	--	--	< 0.1	--	--

Notes:

1. All samples analyzed on a dry weight basis.

ft bls	feet below land surface
IRM	Interim Remedial Mesure
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
TCLP	Toxicity Characteristic Leaching Procedure
J	Value is estimated
--	Not Analyzed
RCRA	Resource Conservation and Recovery Act

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Table 4. Concentrations of Polychlorinated Biphenyls in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	TSCA Criterion (1)	Part 375 Industrial Use Soil Cleanup Objective (1)	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-03 0-4 9/13/2007	PC-03 4-8 9/13/2007	PC-03 8-10 10/24/2007	PC-03 10-12 10/24/2007	PC-3-1 0-4 10/24/2007	PC-3-1 4-8 10/24/2007	PC-3-1 8-10 10/24/2007	PC-3-1 10-12 10/24/2007
Aroclor-1016	50	25		< 0.36	< 0.035	< 360	< 34	<3.7	< 0.035	<0.75	< 0.35	< 0.35	< 0.034
Aroclor-1221	50	25		< 0.73	< 0.071	< 740	< 69	<7.5	< 0.070	<1.5	< 0.71	< 0.70	< 0.070
Aroclor-1232	50	25		< 0.36	< 0.035	< 360	< 34	<3.7	< 0.035	<0.75	< 0.35	< 0.35	< 0.034
Aroclor-1242	50	25		< 0.36	< 0.035	**1500**	**280**	**17**	**0.29**	<0.75	< 0.35	< 0.35	< 0.034
Aroclor-1248	50	25		**2**	< 0.035	< 360	< 34	<3.7	< 0.035	**5.4**	**3.3**	**2.1**	< 0.034
Aroclor-1254	50	25		< 0.36	< 0.035	< 360	< 34	<3.7	< 0.035	<0.75	< 0.35	< 0.35	< 0.034
Aroclor-1260	50	25		< 0.36	< 0.035	< 360	< 34	<3.7	< 0.035	<0.75	< 0.35	< 0.35	< 0.034

Constituents mg/kg	TSCA Criterion (1)	Part 375 Industrial Use Soil Cleanup Objective (1)	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-3-2 0-4 10/24/2007	PC-3-2 4-8 10/24/2007	PC-3-2 8-10 10/24/2007	PC-3-2 10-12 10/24/2007	PC-3-3 0-4 10/24/2007	PC-3-3 4-8 10/24/2007	PC-3-3 8-10 10/24/2007	PC-3-3 10-12 10/24/2007	PC-3-4 0-4 10/24/2007	PC-3-4 4-8 10/24/2007
Aroclor-1016	50	25		< 38	< 0.034	< 35	< 0.034	< 3.9	<0.033	<0.34	< 0.034	< 3.9	<0.17
Aroclor-1221	50	25		< 77	< 0.069	< 72	< 0.068	< 7.9	<0.068	<0.70	< 0.069	< 7.9	<0.35
Aroclor-1232	50	25		< 38	< 0.034	< 35	< 0.034	< 3.9	<0.033	<0.34	< 0.034	< 3.9	<0.17
Aroclor-1242	50	25		**200**	**120**	**220**	< 0.034	< 3.9	<0.033	<0.34	< 0.034	< 3.9	<0.17
Aroclor-1248	50	25		< 38	< 0.034	< 35	< 0.034	**23**	**0.065**	**3.3**	< 0.034	**17**	**0.78**
Aroclor-1254	50	25		< 38	< 0.034	< 35	< 0.034	< 3.9	<0.033	<0.34	< 0.034	< 3.9	<0.17
Aroclor-1260	50	25		< 38	< 0.034	< 35	< 0.034	< 3.9	<0.033	<0.34	< 0.034	< 3.9	<0.17

See last page for notes.

Table 4. Concentrations of Polychlorinated Biphenyls in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	TSCA Criterion (1)	Part 375 Industrial Use Soil Cleanup Objective (1)	Sample ID: Sample Depth (ft bls): Sample Date:	PC-3-4 8-10 10/24/2007	PC-3-4 10-12 10/24/2007	PC-3-5 0-4 10/24/2007	PC-3-5 4-8 10/24/2007	PC-3-5 8-10 10/24/2007	PC-3-5 10-12 10/24/2007	PC-3-6 0-4 10/24/2007	PC-3-6 4-8 10/24/2007	PC-3-6 8-10 10/24/2007	PC-3-6 10-12 10/24/2007
Aroclor-1016	50	25		< 0.36	<0.034	<2	<0.034	<0.034	< 0.035	< 3.9	<0.038	< 0.035	<0.038
Aroclor-1221	50	25		< 0.73	<0.069	<4	<0.069	<0.069	< 0.071	< 7.9	<0.077	< 0.071	<0.077
Aroclor-1232	50	25		< 0.36	<0.034	<2	<0.034	<0.034	< 0.035	< 3.9	<0.038	< 0.035	<0.038
Aroclor-1242	50	25		< 0.36	<0.034	<2	<0.034	<0.034	< 0.035	< 3.9	<0.038	< 0.035	<0.038
Aroclor-1248	50	25		**3.4**	<0.034	**10**	**0.06**	<0.034	**0.2**	**19**	<0.038	**0.33**	<0.038
Aroclor-1254	50	25		< 0.36	<0.034	<2	<0.034	<0.034	< 0.035	< 3.9	<0.038	< 0.035	<0.038
Aroclor-1260	50	25		< 0.36	<0.034	<2	<0.034	<0.034	< 0.035	< 3.9	<0.038	< 0.035	<0.038

Constituents mg/kg	TSCA Criterion (1)	Part 375 Industrial Use Soil Cleanup Objective (1)	Sample ID: Sample Depth (ft bls): Sample Date:	PC-3-7 0-4 10/24/2007	PC-3-7 4-8 10/24/2007	PC-3-7 8-10 10/24/2007	PC-3-7 10-12 10/24/2007	PC-3-8 0-4 10/24/2007	PC-3-8 4-8 10/24/2007	PC-3-8 8-10 10/24/2007	PC-3-8 10-12 10/24/2007
Aroclor-1016	50	25		<0.039	< 0.036	<0.18	<0.034	<0.19	<0.076	<0.034	<0.034
Aroclor-1221	50	25		<0.079	< 0.074	<0.36	<0.069	<0.39	<0.15	<0.07	<0.07
Aroclor-1232	50	25		<0.039	< 0.036	<0.18	<0.034	<0.19	<0.076	<0.034	<0.034
Aroclor-1242	50	25		<0.039	< 0.036	<0.18	<0.034	<0.19	<0.076	<0.034	<0.034
Aroclor-1248	50	25		**0.33**	**0.21**	**0.71**	<0.034	**1.2**	**0.67**	**0.23**	<0.034
Aroclor-1254	50	25		<0.039	< 0.036	<0.18	<0.034	<0.19	<0.076	<0.034	<0.034
Aroclor-1260	50	25		<0.039	< 0.036	<0.18	<0.034	<0.19	<0.076	<0.034	<0.034

Notes:

1. Criterion/objective applies to total PCBs.
2. All samples analyzed on a dry weight basis.

ft bls	feet below land surface
IRM	Interim Remedial Mesure
mg/kg	milligrams per kilogram
PCB	polychlorinated biphenyls
TSCA	Toxic Substances Control Act

B-45

PCBs	0.2–2 FT	ND
CHROMIUM	2–4 FT	12.3
TSVOC	2–4 FT	0.13
TVOC	2–4 FT	ND

B-46

PCBs	0.2–2 FT	0.66
CHROMIUM	0.2–2 FT	44.6
TSVOC	2–4 FT	1.4
TVOC	2–4 FT	8.41

B-47

PCBs	0.2–2 FT	0.046
CHROMIUM	2–4 FT	38.6
TSVOC	NA	NA
TVOC	NA	NA

B-48

PCBs	0.2–2 FT	ND
CHROMIUM	0.2–2 FT	12.5
TSVOC	NA	NA
TVOC	NA	NA

B-52

PCBs	NA	NA
CHROMIUM	0–0.2 FT	87.4
CHROMIUM	2–4 FT	9.1
TSVOC	NA	NA
TVOC	NA	NA

B-1

PCBs	0–0.5 FT	0.14
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-2

PCBs	0–0.5 FT	0.3
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-10

PCBs	0–0.5 FT	.067
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-02

PCBs	NA	NA
CHROMIUM	0–4 FT	20.1
TSVOC	0–4 FT	5.16
TVOC	0–4 FT	0.0089

PC-01

PCBs	0–4 FT	2
CHROMIUM	0–4 FT	12.9
TSVOC	0–4 FT	33.73
TVOC	0–4 FT	1.84

B-7

PCBs	0–0.5 FT	0.15
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-9

PCBs	0–0.5 FT	1.13
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-54

PCBs	NA	NA
CHROMIUM	0–2 FT	116
TSVOC	NA	NA
TVOC	NA	NA

PC-3-3

PCBs	0–4 FT	23
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-2

PCBs	0–4 FT	200
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-5

PCBs	0–4 FT	10
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-1

PCBs	0–4 FT	5.4
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-04

PCBs	NA	NA
CHROMIUM	0–4 FT	27.3
TSVOC	0–4 FT	0.75
TVOC	0–4 FT	0.002

PC-07

PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E60

PCBs	0.5–1.5 FT	43
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-13

PCBs	0–0.5 FT	2
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E40

PCBs	1.5–2.5 FT	91.25
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-06

PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E

PCBs	0.5–1.5 FT	42
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16W

PCBs	0.5–1.5 FT	37
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-05

PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-49

PCBs	0.2–2 FT	29
CHROMIUM	0.2–2 FT	69.1
TSVOC	NA	NA
TVOC	NA	NA

B-50

PCBs	NA	NA
CHROMIUM	0–0.2 FT	10.1
CHROMIUM	2–4 FT	5.9
TSVOC	NA	NA
TVOC	NA	NA

B-51

PCBs	NA	NA
CHROMIUM	0–0.2 FT	36
CHROMIUM	2–4 FT	9.3
TSVOC	NA	NA
TVOC	NA	NA

B-53

PCBs	NA	NA
CHROMIUM	0–0.2 FT	34.3
CHROMIUM	2–4 FT	19.8
TSVOC	NA	NA
TVOC	NA	NA

B-55

PCBs	NA	NA
CHROMIUM	0–0.2 FT	29.7
CHROMIUM	2–4 FT	22.2
TSVOC	NA	NA
TVOC	NA	NA

PC-3-8

PCBs	0–4 FT	1.2
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-03

PCBs	0–4 FT	1,500
CHROMIUM	0–4 FT	22.1
TSVOC	0–4 FT	0.52
TVOC	0–4 FT	0.11

PC-3-7

PCBs	0–4 FT	0.33
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-6

PCBs	0–4 FT	19
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-4

PCBs	0–4 FT	17
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E20

PCBs	0.5–1.5 FT	23
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E20S

PCBs	0–0.5 FT	2.7
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16

PCBs	0.5–1.5 FT	31
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E40S

PCBs	0–0.5 FT	0.99
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16S

PCBs	0.5–1.5 FT	ND
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E60S

PCBs	0.5–1.5 FT	18
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16W20

PCBs	0.5–1.5 FT	20
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

EXPLANATION:

- NORTHROP GRUMMAN PROPERTY LINE
- FENCE
- APPROXIMATE LIMITS OF OU-3 SOIL GAS INTERIM REMEDIAL MEASURE TRENCH
- PHASE 1 SOIL BORING
- PHASE 2 SOIL BORING (ADVANCED TO A DEPTH OF 3.5 FT BLS)
- PHASE 2 SOIL BORING (ADVANCED TO A DEPTH OF 7.5 FT BLS)
- PHASE 3 SOIL BORING (ADVANCED TO A DEPTH OF 4.5 FT BLS)
- PHASE 3 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 4 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 5 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 6 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 6 SOIL BORING (ADVANCED TO A DEPTH OF 7.5 FT BLS)
- OU-3 RI SOIL BORING
- PC-02 COMPLETED OU-3 IRM PRE-CONSTRUCTION BORING (SEPTEMBER, 2007 BY ARCADIS)
- OFF-SITE DISPOSAL, TSCA
- OFF-SITE DISPOSAL, NON-TSCA

NOTES:

1. PHASE 1 TO 6 SOIL BORING LOCATIONS ARE APPROXIMATE (DVIRKA & BARTILUCCI PCB INVESTIGATION/DELINEATION PROGRAM, JULY 2001).
2. SAMPLE RESULTS DEEPER THEN 8 FEET FOR LOCATIONS PC-03 TO PC-3-8 SHOWN IN TABLE 4.
3. HIGHEST CONCENTRATION BETWEEN 0 TO 0.2 FT AND 0.2 TO 2 FT BLS IS SHOWN.
4. PHASE 1 TO 6 SOIL BORINGS PROVIDED IN JULY 2007 REPORT, PREPARED BY DVIRKA & BARTILUCCI.
5. SOILS IN REMAINDER OF TRENCH AREA WILL BE STOCKPILED AND RE-USED AS BACKFILL.

PC-03 ← BORING OR SAMPLE DESIGNATION

CONSTITUENT(s)	SAMPLE INTERVAL IN FT BLS	CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)
PCBs	0–4 FT	1,500
CHROMIUM	0–4 FT	22.1
TSVOC	0–4 FT	0.52
TVOC	0–4 FT	0.11

ND – NOT DETECTED
NA – NOT ANALYZED
PCBs – POLYCHLORINATED BIPHENYLS
TSVOC – TOTAL SEMI-VOLATILE ORGANIC COMPOUNDS
TVOC – TOTAL VOLATILE ORGANIC COMPOUNDS
TSCA – TOXIC SUBSTANCE CONTROL ACT
FT – FEET
BLS – BELOW LAND SURFACE

NO.	ISSUED DATE	REVISION DESCRIPTION	BY/CKD

KEYPLAN

SEAL

ARCADIS OF NEW YORK, INC.
Two Huntington Quadrangle
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Melville, NY 11747
Tel: 631-249-7600 Fax: 631-249-7610
www.arcadis-us.com

PROJECT TITLE
NORTHROP GRUMMAN SYSTEMS CORPORATION
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

PROJECT MANAGER: C. SAN GIOVANNI	DEPARTMENT MANAGER: M. WOLFERT	LEAD DESIGN PROF.	CHECKED BY: M. REINDL
SHEET TITLE: SOIL QUALITY DATA IN TRENCH AREA (0 – 4 FEET BELOW LAND SURFACE)		TASK/PHASE NUMBER: 00007	DRAWN BY: A. SANCHEZ
		PROJECT NUMBER: NY001464.1407	DRAWING NUMBER: 1A

B-45		
PCBs	4-6 FT	ND
CHROMIUM	4-6 FT	2.1
TSVOC	NA	NA
TVOC	NA	NA

B-46		
PCBs	6-8 FT	2.3
CHROMIUM	4-6 FT	68.7
TSVOC	4-6 FT	6.4
TVOC	4-6 FT	152.7

B-47		
PCBs	4-6 FT	ND
CHROMIUM	4-6 FT	36.3
TSVOC	NA	NA
TVOC	NA	NA

B-48		
PCBs	4-6 FT	ND
CHROMIUM	4-6 FT	5.1
TSVOC	NA	NA
TVOC	NA	NA

B-50		
PCBs	NA	NA
CHROMIUM	4-6 FT	5.8
TSVOC	NA	NA
TVOC	NA	NA

B-51		
PCBs	NA	NA
CHROMIUM	4-6 FT	13.4
TSVOC	NA	NA
TVOC	NA	NA

B-49		
PCBs	6-8 FT	0.04
CHROMIUM	4-6 FT	1.8
TSVOC	NA	NA
TVOC	NA	NA

B-1		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-2		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-52		
PCBs	NA	NA
CHROMIUM	6-8 FT	2.3
TSVOC	NA	NA
TVOC	NA	NA

B-53		
PCBs	NA	NA
CHROMIUM	4-6 FT	2.6
TSVOC	NA	NA
TVOC	NA	NA

B-55		
PCBs	NA	NA
CHROMIUM	4-6 FT	3.1
TSVOC	NA	NA
TVOC	NA	NA

B-7		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-9		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-54		
PCBs	NA	NA
CHROMIUM	6-8 FT	18.2
TSVOC	NA	NA
TVOC	NA	NA

B-10		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-02		
PCBs	4-8 FT	NA
CHROMIUM	4-8 FT	4.4
TSVOC	4-8 FT	0.13
TVOC	4-8 FT	ND

PC-01		
PCBs	4-8 FT	ND
CHROMIUM	4-8 FT	6.9
TSVOC	4-8 FT	35.27
TVOC	4-8 FT	0.004

PC-3-2		
PCBs	4-8 FT	120
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-3		
PCBs	4-8 FT	0.065
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-5		
PCBs	4-8 FT	0.06
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-4		
PCBs	4-8 FT	0.78
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-1		
PCBs	4-8 FT	3.3
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-6		
PCBs	4-8 FT	ND
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-04		
PCBs	4-8 FT	NA
CHROMIUM	4-8 FT	25.4
TSVOC	4-8 FT	0.49
TVOC	4-8 FT	0.012

B-13		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16W		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E40		
PCBs	3.5-4.5 FT	0.059
CHROMIUM	3.5-4.5 FT	NA
TSVOC	3.5-4.5 FT	NA
TVOC	3.5-4.5 FT	NA

PC-07		
PCBs	4-8 FT	NA
CHROMIUM	4-8 FT	12.7
TSVOC	4-8 FT	ND
TVOC	4-8 FT	0.001

PC-3-8		
PCBs	4-8 FT	0.67
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-7		
PCBs	4-8 FT	0.21
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-03		
PCBs	4-8 FT	280
CHROMIUM	4-8 FT	6.1
TSVOC	4-8 FT	0.2
TVOC	4-8 FT	0.027

PC-05		
PCBs	4-8 FT	NA
CHROMIUM	4-8 FT	249
TSVOC	4-8 FT	0.45
TVOC	4-8 FT	0.011

B-14E20S		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E40S		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B14E60S		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16W20		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-06		
PCBs	4-8 FT	NA
CHROMIUM	4-8 FT	9.5
TSVOC	4-8 FT	0.073
TVOC	4-8 FT	0.002

B-16E60		
PCBs	3.5-4.5 FT	ND
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E20		
PCBs	3.5-4.5 FT	0.054
CHROMIUM	3.5-4.5 FT	NA
TSVOC	3.5-4.5 FT	NA
TVOC	3.5-4.5 FT	NA

B-16E		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16S		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

EXPLANATION:

- NORTHROP GRUMMAN PROPERTY LINE
- FENCE
- APPROXIMATE LIMITS OF OU-3 SOIL GAS INTERIM REMEDIAL MEASURE TRENCH
- PHASE 1 SOIL BORING
- PHASE 2 SOIL BORING (ADVANCED TO A DEPTH OF 3.5 FT BLS)
- PHASE 2 SOIL BORING (ADVANCED TO A DEPTH OF 7.5 FT BLS)
- PHASE 3 SOIL BORING (ADVANCED TO A DEPTH OF 4.5 FT BLS)
- PHASE 3 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 4 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 5 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 6 SOIL BORING (ADVANCED TO A DEPTH OF 5.5 FT BLS)
- PHASE 6 SOIL BORING (ADVANCED TO A DEPTH OF 7.5 FT BLS)
- OU-3 RI SOIL BORING
- PC-02 COMPLETED OU-3 IRM PRE-CONSTRUCTION BORING (SEPTEMBER, 2007 BY ARCADIS)
- OFF-SITE DISPOSAL, TSCA

NOTES:

1. PHASE 1 TO 6 SOIL BORING LOCATIONS ARE APPROXIMATE (DVIRKA & BARTILUCCI PCB INVESTIGATION/DELINEATION PROGRAM, JULY 2001).
2. SAMPLE RESULTS DEEPER THEN 8 FEET FOR LOCATIONS PC-03 TO PC-3-8 SHOWN IN TABLE 4.
3. HIGHEST CONCENTRATION WITHIN ZONE SPECIFIED IS DEPICTED.
4. THE COMPLETE ANALYTICAL RESULTS FROM PHASE 1 TO 6 SOIL BORINGS PROVIDED IN JULY 2007 REPORT, PREPARED BY DVIRKA & BARTILUCCI.
5. SOILS IN REMAINDER OF TRENCH AREA WILL BE STOCKPILED AND RE-USED AS BACKFILL.

PC-03		
PCBs	4-8 FT	280
CHROMIUM	4-8 FT	6.1
TSVOC	4-8 FT	0.2
TVOC	4-8 FT	10

BORING OR SAMPLE DESIGNATION
CONSTITUENT(s)
SAMPLE INTERVAL IN FT BLS
CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

ND - NOT DETECTED
NA - NOT ANALYZED
PCBs - POLYCHLORINATED BIPHENYLS
TSVOC - TOTAL SEMI-VOLATILE ORGANIC COMPOUNDS
TVOC - TOTAL VOLATILE ORGANIC COMPOUNDS
TSCA - TOXIC SUBSTANCE CONTROL ACT
FT - FEET
BLS - BELOW LAND SURFACE

NO. | ISSUED DATE | REVISION DESCRIPTION | BY/CKD

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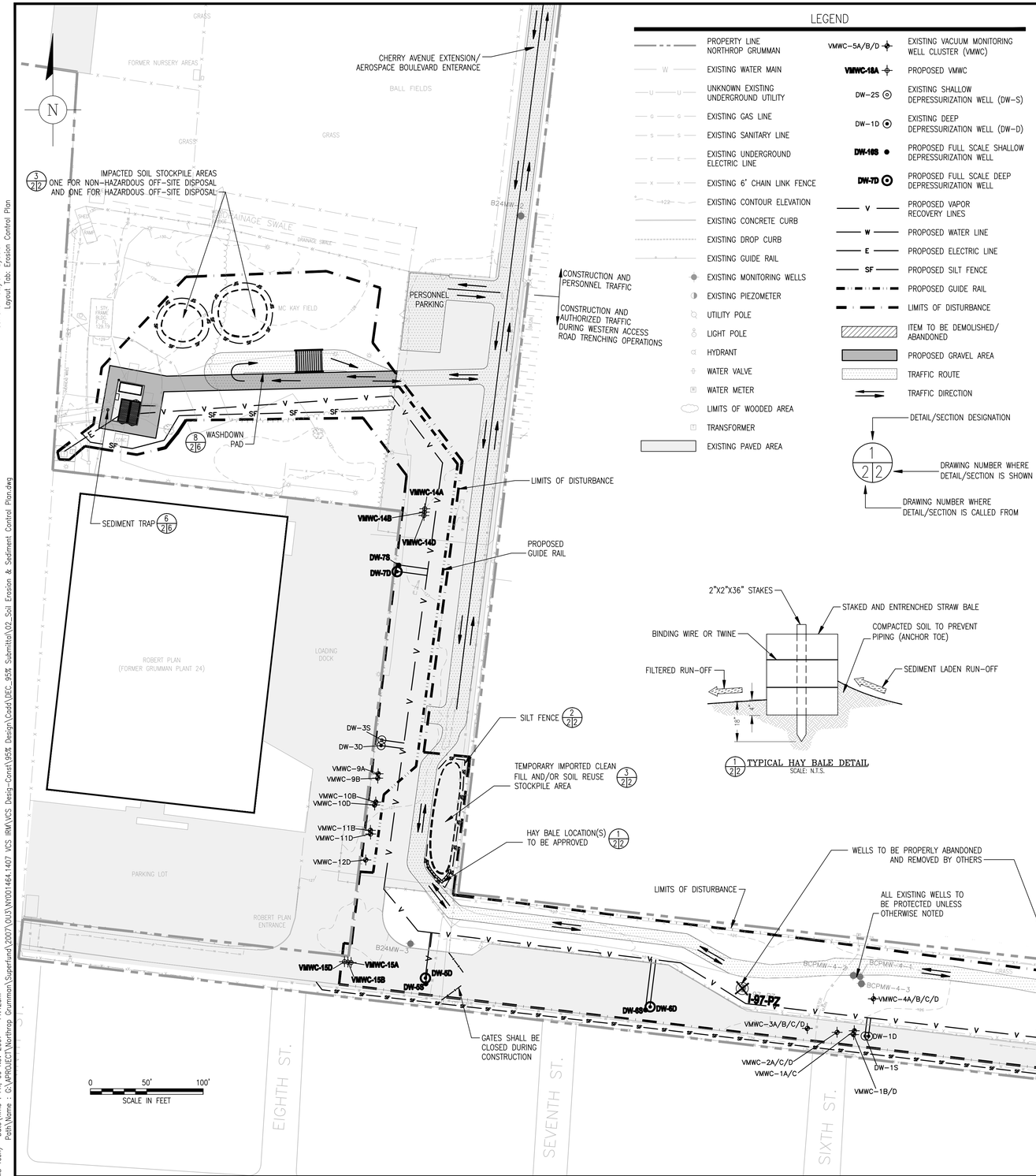
PROJECT TITLE
NORTHROP GRUMMAN SYSTEMS CORPORATION
OPERABLE UNIT 3
(FORMER GRUMMAN SETTLING PONDS)
BETHPAGE, NEW YORK

PROJECT MANAGER: C. SAN GIOVANNI
DEPARTMENT MANAGER: M. WOLFERT
LEAD DESIGN PROF.:
CHECKED BY: M. REINDL

SHEET TITLE
SOIL QUALITY DATA
IN TRENCH AREA
(3.5 - 8 FEET
BELOW LAND SURFACE)

TASK/PHASE NUMBER: 00007
DRAWN BY: A. SANCHEZ
PROJECT NUMBER: NY001464.1407
DRAWING NUMBER: 1B

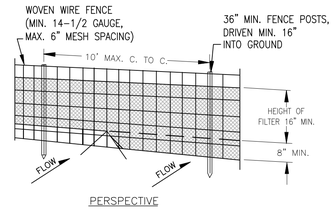
Acad Version : R17.0s (LMS Tech) Date\Time : Fri, 09 Nov 2007 - 11:43am
User Name : alsanchez Path\Name : G:\APROJECT\Northrop Grumman\Superfund\2007\OU3\NY001464.1407 VCS IRM\VCS Desig-Const\95% Design\Cadd\PCB Data\Soil Quality_Trench.dwg
Current Plotstyle : ByColor Layout Tab: soil quality deep



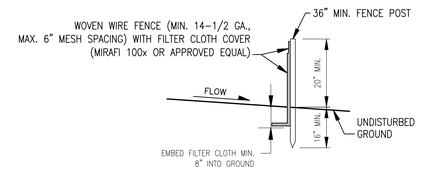
LEGEND

- PROPERTY LINE NORTHROP GRUMMAN
- W — EXISTING WATER MAIN
- U — U — UNKNOWN EXISTING UNDERGROUND UTILITY
- G — G — EXISTING GAS LINE
- S — S — EXISTING SANITARY LINE
- E — E — EXISTING UNDERGROUND ELECTRIC LINE
- X — X — EXISTING 6' CHAIN LINK FENCE
- 428 — EXISTING CONTOUR ELEVATION
- EXISTING CONCRETE CURB
- EXISTING DROP CURB
- EXISTING GUIDE RAIL
- EXISTING MONITORING WELLS
- EXISTING PIEZOMETER
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- WATER VALVE
- WATER METER
- LIMITS OF WOODED AREA
- TRANSFORMER
- EXISTING PAVED AREA
- VMWC-5A/B/D — EXISTING VACUUM MONITORING WELL CLUSTER (VMWC)
- VMWC-18A — PROPOSED VMWC
- DW-2S — EXISTING SHALLOW DEPRESSURIZATION WELL (DW-S)
- DW-1D — EXISTING DEEP DEPRESSURIZATION WELL (DW-D)
- DW-10S — PROPOSED FULL SCALE SHALLOW DEPRESSURIZATION WELL
- DW-7D — PROPOSED FULL SCALE DEEP DEPRESSURIZATION WELL
- V — PROPOSED VAPOR RECOVERY LINES
- W — PROPOSED WATER LINE
- E — PROPOSED ELECTRIC LINE
- SF — PROPOSED SILT FENCE
- PROPOSED GUIDE RAIL
- LIMITS OF DISTURBANCE
- ITEM TO BE DEMOLISHED/ ABANDONED
- PROPOSED GRAVEL AREA
- TRAFFIC ROUTE
- TRAFFIC DIRECTION
- 1/2|2 — DETAIL/SECTION DESIGNATION; DRAWING NUMBER WHERE DETAIL/SECTION IS SHOWN; DRAWING NUMBER WHERE DETAIL/SECTION IS CALLED FROM

1/2|2 TYPICAL HAY BALE DETAIL
SCALE: N.T.S.



PERSPECTIVE

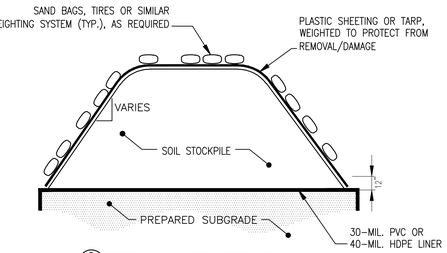


SECTION

2/2|2 TYPICAL SILT FENCE DETAIL
SCALE: N.T.S.

SEDIMENT AND EROSION CONTROL PLAN AND NOTES:

1. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE USED AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE IN ACCORDANCE WITH THE NEW YORK STANDARDS FOR EROSION AND SEDIMENT CONTROL.
2. ALL SOIL AND EROSION CONTROL MEASURES ARE TO BE INSPECTED AND, IF NECESSARY, REPAIRED AFTER EVERY MAJOR STORM EVENT, AND AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN AND KEEP FUNCTIONAL ALL DRAINAGE STRUCTURES IN THE VICINITY OF THE AREA OF DISTURBANCE OR DOWNGRADIENT OF THE AREA OF DISTURBANCE AND THOSE STRUCTURES WHERE CONTRACTOR HAS INSTALLED SEDIMENT & EROSION CONTROL MEASURES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN. ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
5. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED, AND MULCHED (IF SEASON AND CLIMATE LOGICAL CONDITIONS WARRANT MULCHING) WITHIN FIVE (5) DAYS IN ACCORDANCE WITH THE NEW YORK STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
6. DURING CONSTRUCTION, EXCAVATED MATERIAL SHALL BE PILED ON THE UPHILL SIDE OF THE EXCAVATIONS AND/OR NORTHERN-SIDE OF ACCESS ROAD AWAY FROM ANY DRAINAGE DITCHES AND RESIDENTIAL AREAS. UNLESS OTHERWISE SPECIFIED OR DIRECTED, ALL EXCAVATIONS SHALL BE BACKFILLED IMMEDIATELY AFTER THE CONSTRUCTION HAS BEEN COMPLETED. EXCAVATIONS IN EARTH SHALL THEN RECEIVE TEMPORARY SEEDING AND MULCH AS PER THE REQUIREMENTS SPECIFIED. EXCAVATIONS IN PAVED AREAS SHALL IMMEDIATELY RECEIVE A TEMPORARY SURFACING OF STONE TO PREVENT THE ERODING OF THE EARTH AND WASHING OF THE EARTH INTO ANY DRAINS OR DRAINAGE DITCHES. ALL TOPSOIL NOT TO BE USED FOR BACKFILL AND NOT REMOVED FROM THE SITE WITHIN FIVE (5) DAYS SHALL BE LIMED, FERTILIZED, SEEDED, AND MULCHED AS SPECIFIED.
7. CONTRACTOR PARKING AND TRAFFIC SHALL BE LIMITED TO THE ROADWAY AREAS. WHERE CONSTRUCTION VEHICLES LEAVE PAVED AREAS, STABILIZED CONSTRUCTION ENTRANCES ARE TO BE CONSTRUCTED. CARE SHALL BE TAKEN TO MINIMIZE SEDIMENT TRANSPORT RESULTING FROM VEHICLE TRAFFIC.
8. AFTER THE PROJECT HAS BEEN COMPLETED, THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR INSURING THAT ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE IN PROPER WORKING CONDITION AND THAT ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR REPLACED BY PERMANENT CONTROLS (REVEGETATION).
9. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON THE PROJECT SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL WORK UNDER THIS CONTRACT IS COMPLETE, THROUGH AND INCLUDING ALL GUARANTEE AND BOND PERIODS, AND HENCE FORTH THE RESPONSIBILITY OF THE OWNER.
10. PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. CONTRACTOR SHALL REPLACE AND MAINTAIN PERMANENT VEGETATION UNTIL SUCH TIME AS IT IS ACCEPTED BY THE ENGINEER. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT.
11. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON THE PROJECT SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL WORK UNDER THIS CONTRACT IS COMPLETE, THROUGH AND INCLUDING ALL GUARANTEE AND BOND PERIODS, AND HENCE FORTH THE RESPONSIBILITY OF THE OWNER.
12. WHEN TRENCH EXCAVATION IS LOCATED ADJACENT TO AN IMPOUNDMENT OR MANMADE CHANNEL, EXCAVATED MATERIAL SHALL BE STOCKPILED ON THE SIDE OF THE TRENCH OPPOSITE THE WATER COURSE, IN ORDER TO MINIMIZE SILTATION. IN ADDITION TO STOCKPILE LOCATION REQUIREMENTS FOR THESE AFOREMENTIONED WORK AREAS, A METHOD OF SILTATION CONTROL (SILT FENCING) SHALL ALSO BE EMPLOYED.
13. DITCHES WHICH ARE FILLED, OR PARTLY INOPERATIVE SHALL BE CLEANED AND MADE OPERATIVE BEFORE THE CONTRACTOR STOPS WORK FOR ANY DAY, AND SHALL BE MAINTAINED IN A CONDITION SATISFACTORY TO THE OWNER FOR THE DURATION OF THE CONTRACT.
14. WATER FROM AGGREGATE WASHINGS, DECONTAMINATION, OR OTHER OPERATIONS SHALL BE TESTED THEN DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.
15. POLLUTANTS SUCH AS FUELS, LUBRICANTS, BITUMENS, RAW SEWAGE, AND OTHER HARMFUL MATERIALS SHALL NOT BE DISCHARGED INTO OR NEAR IMPOUNDMENTS OR INTO NATURAL OR MANMADE CHANNELS. WASH WATER OR WASTE FROM CONCRETE MIXING OPERATIONS SHALL NOT BE ALLOWED TO ENTER ANY DRAINAGE STRUCTURES.
16. ALL APPLICABLE REGULATIONS OF FISH AND WILDLIFE AGENCIES AND STATUTES RELATING TO THE PREVENTION AND ABATEMENT OF POLLUTION SHALL BE COMPLIED WITH IN THE PERFORMANCE OF THE CONTRACT.
17. ANY MATERIAL GENERATED BY ANY ACTIVITY FOR THE DEVELOPMENT, MODIFICATION, AND CONSTRUCTION OF THE FACILITY SHALL NOT BE BURNED ON OR OFF THE CONTRACT SITE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LAND CLEARING MATERIAL AND DEMOLITION MATERIAL. SUCH MATERIAL SHALL HEREINAFTER BE REFERRED TO AS DISPOSABLE MATERIAL IN THE CLEARING AND GRUBBING OPERATION.
18. WHEN IT BECOMES NECESSARY, THE ENGINEER WILL INFORM THE CONTRACTOR OF UNSATISFACTORY CONSTRUCTION PROCEDURES AND OPERATIONS INSOFAR AS EROSION CONTROL, WATER, AND AIR POLLUTION ARE CONCERNED. IF THE UNSATISFACTORY CONSTRUCTION PROCEDURES AND OPERATIONS ARE NOT CORRECTED PROMPTLY, THE ENGINEER MAY SUSPEND THE PERFORMANCE OF ANY OR ALL OF OTHER CONSTRUCTION UNTIL THE UNSATISFACTORY CONDITION HAS BEEN CORRECTED.
19. PRE-CHARACTERIZATION AND HANDLING OF MATERIALS SHALL BE CONDUCTED IN ACCORDANCE WITH THE SOIL MANAGMENT PLAN.
20. ANY MATERIALS CHARACTERIZED ABOVE SOIL CLEAN UP OBJECTIVES FOR INDUSTRIAL SITES SHALL BE DISPOSED OF OFF-SITE, IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. MATERIALS SHALL BE REMOVED FROM THE SITE AS SOON AS POSSIBLE. TEMPORARY STAGING SHALL BE CONDUCTED IN DESIGNATED AREA ON McKAY FIELD.
21. ANY MATERIALS CHARACTERIZED BELOW SOIL CLEANUP OBJECTIVES SHALL BE REUSED AS FILL MATERIAL IN AREAS THAT WILL BE PAVED IN ACCORDANCE WITH SUBPART 375-6: REMEDIAL PROGRAM SOIL CLEANUP OBJECTIVES FOR INDUSTRIAL SITES. TEMPORARY STAGING SHALL BE CONDUCTED IN DESIGNATED AREA ON McKAY FIELD.
22. ANY TRENCHING AND/OR EARTHWORK ACTIVITIES SHALL BE LIMITED TO THE LIMITS OF DISTURBANCE.
23. CONTRACTOR SHALL PROTECT ALL TREES LOCATED IN OF NEAR LIMITS OF DISTURBANCE.
24. CONTRACTOR SHALL LOCATE AND PROTECT ALL MONITORING WELLS.
25. CONTRACTOR SHALL IMPLEMENT DUST SUPRESSION AND AIR MONITORING ACTIVITIES IN CONFORMANCE WITH THE COMMUNITY AIR MONITORING PLAN FOR THE SITE.
26. SEEDING SHALL BE APPLIED AS DIRECTED BY ENGINEER.
27. TRAFFIC SHALL BE LIMITED TO THE DESIGNATED ROUTES.
28. ALL CONSTRUCTION EQUIPMENT SHALL BE STORED WITHIN THE 6-FOOT FENCE AROUND MCKAY FIELD , WITH LOCKING GATES.



3/2|2 TYPICAL SOIL STOCKPILE DETAIL
SCALE: N.T.S.

NOTES:

1. THIS DETAIL APPLIES TO EXCAVATED SOIL MATERIAL FROM WITHIN THE LIMITS OF DISTURBANCE. THIS DETAIL IS NOT REQUIRED FOR IMPORTED FILL, AS APPROVED BY THE ENGINEER.
2. A 30-MIL PVC OR 40-MIL. HDPE LINER SHALL BE PLACED ON THE BOTTOM OF THE STOCKPILE AREA AND ANCHORED A MINIMUM 6 INCHES BELOW THE SURFACE. THE LINER SHALL BE PROPERLY SEAMED TO FORM A LEAK-PROOF LINER. THE MATERIALS AND INSTALLATION METHODS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
3. THE SURFACE OF THE STAGING AREA SHALL BE GRADED TO PROMOTE FLOW AWAY FROM THE STOCKPILE.
4. SILT FENCE SHALL BE CONSTRUCTED AROUND THE PERIMETER OF THE STOCKPILE AREA.
5. RAMPS SHALL BE CONSTRUCTED AS NECESSARY FOR ACCESS TO THE STOCKPILE AREA.
6. THE SUBGRADE SHALL BE SMOOTH WITHOUT STONES OR OTHER OBJECTS THAT COULD PUNCTURE THE GEOMEMBRANE. THE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED TANDEM, AND ANY SOFT, SPONGY OR PUMPING SOIL SHALL BE REMOVED, REPLACED AND RECOMPACTED.
7. THE SOIL MATERIALS SHALL BE PLACED ON THE LINER AND COVERED WITH THE SHEETING OR TARP DURING ALL NON-WORKING HOURS AND DURING PRECIPITATION EVENTS. NO RAINWATER SHALL CONTACT THE SOIL WHILE STAGED IN THE STOCKPILE AREA.
8. WASTE HAULER ACCESS WILL BE LIMITED TO THE ACCESS ROAD FROM THE PROPOSED OFFSITE DISPOSAL STOCKPILE AREA TO THE CHERRY AVENUE EXTENSION/AEROSPACE BOULEVARD. WASTE HAULERS WILL RECEIVE APPROPRIATE WASTE AND THEN BE DIRECTED TO THE WASHDOWN PAD PRIOR TO REENTRY ONTO PUBLIC ROADS.

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

NO.	ISSUED DATE	REVISION DESCRIPTION	BY/CKD
0	9/2007	95% DESIGN SUBMITTAL	AS/KZ

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NORTHROP GRUMMAN OPERABLE UNIT 3
SOIL GAS INTERIM REMEDIAL MEASURE
FORMER GRUMMAN SETTLING PONDS
BETHPAGE, NEW YORK

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED BY
C. SAN GIOVANNI	C. TUOHY	C. TUOHY	K. ZEGEL

SOIL EROSION AND SEDIMENT CONTROL PLAN, DETAILS AND NOTES

TASK/PHASE NUMBER	DRAWN BY
00004	A. SANCHEZ
PROJECT NUMBER	DRAWING NUMBER
NY001464.1407	2

Current Plotstyle : ByColor
Layout Tab: Erosion Control Plan
Date\Time : Fri, 09 Nov 2007 - 11:42am
Path\Name : G:\PROJECT\Northrop Grumman\Superfund\2007\Q03\NY001464.1407 VCS IRM\VCS Design-Const\95% Design\Cad\DEC_95% Submittal\02_Soil Erosion & Sediment Control Plan.dwg
Acad Version : R17.0s (LMS Tech)
User Name : dbonczek

ARCADIS

ATTACHMENT 1

TABLE B-1
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FIRST PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-01 S1	B-01 S2	B-02 S1	B-02 S2	B-03 S1	B-03 S2	B-03 S3	B-03 S4	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	
DATE OF COLLECTION	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	
DILUTION FACTOR	1	1	1	1	1	10	1	1	
PERCENT SOLIDS	93	97	96	95	95	94	96	90	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	U	U	0.160 P	0.055	0.067	U	0.092 P	0.280 P	0.033
Aroclor-1254	U	U	U	U	U	7.200	U	U	0.033
Aroclor-1260	0.140 P	U	0.140	0.150 P	0.160 P	U	U	0.410	0.033
TOTAL PCBs	0.140	0	0.300	0.205	0.227	7.200	0.092	0.690	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
☐: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-1 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FIRST PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-06 S1	B-06 S2	B-07 S1	B-07 S2	B-08 S1	B-08 S2	B-09 S1	B-09 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	
DILUTION FACTOR	1	1	1	1	1	1	1	1	
PERCENT SOLIDS	97	90	89	85	89	98	89	85	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	U	U	0.150	U	U	0.500 P	1.000	U	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	U	U	U	0.130	0.130		0.033
TOTAL PCBs	0	0	0.150	0	0	0.630	1.130	0	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-1 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FIRST PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-10 S1	B-10 S2	B-11 S1	B-11 S2	B-12 S1	B-12 S2	B-12 S3	B-12 S4	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	
DATE OF COLLECTION	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	
DILUTION FACTOR	1	1	1	1	20	1	10	50	
PERCENT SOLIDS	88	90	91	88	98	93	88	91	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	0.067	U	U	U	13.000	0.900 P	5.800	20.000	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	U	U	1.500	0.200	U	U	0.033
TOTAL PCBs	0.067	0	0	0	14.500	1.100	5.800	20.000	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-1 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FIRST PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-13 S1	B-13 S2	B-14 S1	B-14 S2	B-14 S3	B-14 S4	B-15 S1	B-15 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	
DILUTION FACTOR	1	1	10	5	1	50	10	30	
PERCENT SOLIDS	93	89	93	86	96	69	77	94	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	2.000 P	0.230	7.600	2.400	2.500	U	5.700	18.000	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	0.087	1.600	0.870	0.680	23.000 P	U	U	0.033
TOTAL PCBs	2.000	0.317	9.200	3.270	3.180	**23.000**	5.700	**18.000**	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
☐: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-4 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FOURTH PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-14E20S S1	B-14E20S S2	B-14E20S S3	B-14E20S S4	B-14E40N S1	B-14E40N S2	B-14E40N S3	B-14E40N S4	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	
DATE OF COLLECTION	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	
DILUTION FACTOR	5	1	1	1	10	10	1	5	
PERCENT SOLIDS	92	92	91	76	89	91	91	87	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	2.700	U	U	U	4.300	3.100	0.360	2.100	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	1.300	0.810 P	0.200	U	0.650	0.190	0.380	0.033
TOTAL PCBs	2.700	1.300	0.810	0.200	4.300	3.750	0.550	2.480	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
☐: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-4 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FOURTH PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-14E40S S1	B-14E40S S2	B-14E40S S3	B-14E40S S4	B-14E60N S1	B-14E60N S2	B-14E60N S3	B-14E60N S4	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	
DATE OF COLLECTION	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	
DILUTION FACTOR	10	1	1	1	10	100	100	100	
PERCENT SOLIDS	90	94	86	82	90	94	96	94	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	0.990 P	U	U	U	3.200	11.000	25.000	30.000	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	0.440 P	U	U	U	U	U	U	0.033
TOTAL PCBs	0.990	0.440	0	0	3.200	11.000	25.000	30.000	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-1 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FIRST PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-15 S3	B-15 S4	B-16 S1	B-16 S2	B-16 S3	B-16 S4	B-17 S1	B-17 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5 - 1.5'	
DATE OF COLLECTION	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/02/99	6/03/99	6/03/99	
DILUTION FACTOR	1	50	5	50	1	1	1	1	
PERCENT SOLIDS	87	93	94	93	85	82	95	84	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	2.200	31.000	2.000	31.000	0.061 P	U	0.370	1.000	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	0.180	U	U	U	U	U	0.033
TOTAL PCBs	2.200	**31.000**	2.180	**31.000**	0.061	0	0.370	1.000	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-2 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - SECOND PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-16N S3	B-16N S4	B-16S S1	B-16S S2	B-16E S1	B-16E S2	B-16E S3	B-16E S4	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	
DATE OF COLLECTION	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	
DILUTION FACTOR	20	10	10	1	10	100	20	1	
PERCENT SOLIDS	94	88	88	90	89	86	95	83	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	2.900	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	22.000	13.000	2.600 P	U	5.800	42.000	20.000	0.048 P	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	U	U	U	U	U	U	0.033
TOTAL PCBs	**22.000**	**13.000**	2.600	0	8.700	**42.000**	**20.000**	0.048	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
☐: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-2 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - SECOND PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-16W S1	B-16W S2	B-16W S3	B-16W S4	B-23 S1	B-23 S2	B-24 S1	B-24 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	10/21/99	10/21/99	10/21/99	10/21/99	10/22/99	10/22/99	10/22/99	10/22/99	
DILUTION FACTOR	1	100	50	1	10	1	1	1	
PERCENT SOLIDS	89	92	95	96	93	92	93	90	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	0.680	37.000	30.000	0.170 P	4.900	U	U	U	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	0.160 P	U	U	0.250	U	U	U	U	0.033
TOTAL PCBs	0.840	37.000	30.000	0.420	4.900	0	0	0	

67.

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
☐: Value for Total PCBs exceeds 10 parts per million (ppm).

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TABLE B-3 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - THIRD PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-15SW20 S4	B-16E20 S1	B-16E20 S2	B-16E20 S3	B-16E20 S4	B-16E20 S5	B-16W20 S1	B-16W20 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	3.5' - 4.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00	
DILUTION FACTOR	1	10	20	20	1	1	1	20	
PERCENT SOLIDS	81	82	86	86	80	95	90	94	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	0.590	6.600 P	23.000	21.000	U	0.054	0.470 P	20.000	0.033
Aroclor-1254	U	U	U	U	0.270	U	U	U	0.033
Aroclor-1260	0.460 P	U	U	U	U	U	U	U	0.033
TOTAL PCBs	1.050	6.600	23.000	21.000	0.270	0.054	0.470	20.000	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-3 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - THIRD PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-16W20 S3	B-16W20 S4							CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	1.5' - 2.5'	2.5' - 3.5'							
DATE OF COLLECTION	02/08/00	02/08/00							
DILUTION FACTOR	10	1							
PERCENT SOLIDS	96	90							
UNITS	(mg/kg)	(mg/kg)							(mg/kg)
Aroclor-1016	U	U							0.033
Aroclor-1221	U	U							0.067
Aroclor-1232	U	U							0.033
Aroclor-1242	U	U							0.033
Aroclor-1248	8.600	U							0.033
Aroclor-1254	U	U							0.033
Aroclor-1260	U	U							0.033
TOTAL PCBs	8.600	0							

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-4 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FOURTH PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-14E60N S5	B-14E60N S6	B-14E60S S1	B-14E60S S2	B-14E60S S3	B-14E60S S4	B-15W20N S1	B-15W20N S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	3.5' - 4.5'	4.5' - 5.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	
DILUTION FACTOR	1	1	5	50	1	1	1	50	
PERCENT SOLIDS	88	97	92	92	93	88	85	96	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	0.840	U	2.100	18.000	0.170 P	U	1.400	15.000	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	U	U	0.180	0.059	0.440	U	0.033
TOTAL PCBs	0.840	0	2.100	**18.000**	0.350	0.059	1.840	**15.000**	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-4 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FOURTH PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-15SE60 S5	B-15SE60 S6	B-15SE80 S1	B-15SE80 S2	B-15SE80 S3	B-15SE80 S4	B-16E40 S1	B-16E40 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	3.5' - 4.5'	4.5' - 5.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	
DILUTION FACTOR	1	1	1	1	1	10	10	50	
PERCENT SOLIDS	93	95	90	91	94	93	89	90	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	0.570	0.850	0.700	0.760	0.880	5.600	13.000	36.000	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	0.170	0.200	0.300	1.400	U	U	0.033
TOTAL PCBs	0.570	0.850	0.870	0.960	1.180	7.000	**13.000**	**36.000**	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-4 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FOURTH PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-16E40 S3	B-16E40 S4	B-16E40 S5	B-16E40 S6	B-16E60 S1	B-16E60 S2	B-16E60 S3	B-16E60 S4	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	1.5' - 2.5'	2.5' - 3.5'	3.5' - 4.5'	4.5' - 5.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	
DATE OF COLLECTION	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	
DILUTION FACTOR	50	1	1	1	10	50	50	1	
PERCENT SOLIDS	84	92	94	93	95	88	86	79	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	42.000	0.250	0.059	U	2.400	43.000	32.000	U	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	U	U	U	U	U	U	0.033
TOTAL PCBs	**42.000**	0.250	0.059	0	2.400	**43.000**	**32.000**	0	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE B-4 (continued)
NORTHROP GRUMMAN CORPORATION
PLANT 24 ACCESS ROAD SITE
PCB INVESTIGATION/DELINEATION PROGRAM - FOURTH PHASE
SOIL SAMPLING RESULTS
POLYCHLORINATED BIPHENYLS

SAMPLE IDENTIFICATION	B-16E60 S5	B-16E60 S6	B-16E80 S1	B-16E80 S2	B-16E80 S3	B-16E80 S4	B-28 S1	B-28 S2	CONTRACT REQUIRED DETECTION LIMIT
SAMPLE DEPTH	3.5' - 4.5'	4.5' - 5.5'	0 - 0.5'	0.5' - 1.5'	1.5' - 2.5'	2.5' - 3.5'	0 - 0.5'	0.5' - 1.5'	
DATE OF COLLECTION	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	11/16/00	
DILUTION FACTOR	1	1	1	1	1	1	1	1	
PERCENT SOLIDS	94	98	95	90	90	88	91	94	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aroclor-1016	U	U	U	U	U	U	U	U	0.033
Aroclor-1221	U	U	U	U	U	U	U	U	0.067
Aroclor-1232	U	U	U	U	U	U	U	U	0.033
Aroclor-1242	U	U	U	U	U	U	U	U	0.033
Aroclor-1248	U	U	0.500	0.160	0.300	U	U	U	0.033
Aroclor-1254	U	U	U	U	U	U	U	U	0.033
Aroclor-1260	U	U	0.180	0.076	0.092	0.052	U	U	0.033
TOTAL PCBs	0	0	0.680	0.236	0.392	0.052	0	0	

Qualifiers:
U: Compound analyzed for but not detected.
P: Concentration estimated, possibly biased low since primary and confirmation column concentrations had a percent difference >25%; lower value reported.

Notes:
[ ]: Value for Total PCBs exceeds 10 parts per million (ppm).

TABLE 2
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00	B-46 B-46 8-10' 06/16/2006 10.00
1,1,1,2-Tetrachloroethane	(ug/kg)		0.55U	0.60U	0.57U	0.76U	0.55U
1,1,1-Trichloroethane	(ug/kg)	800	0.36U	0.39U	0.38U	0.50U	0.36U
1,1,2,2-Tetrachloroethane	(ug/kg)	600	0.97U	1.0U	1.0U	1.3U	0.97U
1,1,2-Trichloroethane	(ug/kg)		0.71U	0.76U	0.73U	0.97U	0.71U
1,1-Dichloroethane	(ug/kg)	200	0.31U	0.34U	0.32U	0.43U	0.31U
1,1-Dichloroethylene	(ug/kg)	400	1.6U	1.7U	21	18	1.6U
1,1-Dichloropropene	(ug/kg)		0.59U	0.64U	0.61U	0.81U	0.59U
1,2,3-Trichlorobenzene	(ug/kg)		0.92U	0.99U	0.95U	1.3U	0.92U
1,2,3-Trichloropropane	(ug/kg)	400	1.1U	1.2U	1.2U	1.6U	1.1U
1,2,4-Trichlorobenzene	(ug/kg)	3400	0.74U	0.80U	0.76U	1.0U	0.74U
1,2-Dichloroethane	(ug/kg)	100	0.76U	0.82U	3.7J	1.0U	0.76U
1,2-Dichloropropane	(ug/kg)		0.63U	0.67U	0.65U	0.86U	0.63U
1,3-Dichloropropane	(ug/kg)	300	0.48U	0.52U	0.49U	0.66U	0.48U
2,2-Dichloropropane	(ug/kg)		0.54U	0.58U	0.56U	0.74U	0.54U
2-Hexanone	(ug/kg)		0.53U	0.57U	0.55U	0.73U	0.53U
4-Isopropyltoluene	(ug/kg)		0.28U	0.30U	3600D	240	0.28U
Acetone	(ug/kg)	200	1.8U	1.9U	130	120	1.8U
Benzene	(ug/kg)	60	0.35U	0.38U	1.8J	0.49U	0.35U
Benzene, 1,2,4-trimethyl	(ug/kg)		2.7J	0.36U	20000D	30000D	4.0J
Benzene, 1,3,5-trimethyl-	(ug/kg)		1.1J	0.29U	670D	10000D	0.27U
Benzene, 1-methylethyl-	(ug/kg)		0.31U	0.34U	0.32U	220	0.31U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 2
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00	B-46 B-46 8-10' 06/16/2006 10.00
Bromobenzene	(ug/kg)		0.69U	0.74U	0.71U	0.94U	0.69U
Bromodichloromethane	(ug/kg)		0.70U	0.75U	0.72U	0.96U	0.70U
Bromoform	(ug/kg)		2.5U	2.7U	2.6U	3.4U	2.5U
Carbon disulfide	(ug/kg)	2700	2.2U	2.4U	3.0J	5.8J	2.2U
Carbon tetrachloride	(ug/kg)	600	0.75U	0.81U	0.77U	1.0U	0.75U
Chlorobenzene	(ug/kg)	1700	0.39U	0.42U	0.40U	0.53U	0.39U
Chlorobromomethane	(ug/kg)		1.1U	1.2U	1.2U	1.6U	1.1U
Chloroethane	(ug/kg)	1900	2.6U	2.8U	2.7U	3.6U	2.6U
Chloroform	(ug/kg)	300	0.42U	0.45U	0.43U	0.57U	0.42U
cis-1,2-Dichloroethylene	(ug/kg)		4.2J	0.53U	12000D	38000D	17
cis-1,3-Dichloropropene	(ug/kg)		0.41U	0.44U	0.42U	0.56U	0.41U
1,2-Dibromo-3-chloropropane	(ug/kg)		1.8U	1.9U	1.8U	2.4U	1.8U
Dibromochloromethane	(ug/kg)		0.67U	0.72U	0.69U	0.91U	0.67U
Dichlorodifluoromethane	(ug/kg)		1.7U	1.8U	1.7U	2.3U	1.7U
1,2-Dibromoethane	(ug/kg)		0.44U	0.47U	0.45U	0.60U	0.44U
Ethene, 1,2-dichloro-, (E)-	(ug/kg)	300	0.69U	0.74U	61	27	0.69U
Ethylbenzene	(ug/kg)	5500	0.70U	0.75U	2200D	4000D	0.70U
Hexachlorobutadiene	(ug/kg)		0.75U	0.81U	0.77U	1.0U	0.75U
1,3-Dichlorobenzene	(ug/kg)	1600	0.20U	0.21U	0.20U	0.27U	0.20U
Methyl bromide	(ug/kg)		1.4U	1.5U	1.4U	1.9U	1.4U
Methyl chloride	(ug/kg)		0.80U	0.87U	0.83U	1.1U	0.80U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 2
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00	B-46 B-46 8-10' 06/16/2006 10.00
Methyl ethyl ketone	(ug/kg)	300	1.6U	1.7U	1.6U	2.1U	1.6U
Methyl iodide	(ug/kg)		1.0U	1.1U	1.1U	1.4U	1.0U
Methyl isobutylketone (MIBK)	(ug/kg)	1000	0.89U	0.96U	0.91U	1.2U	0.89U
Methylene bromide	(ug/kg)		0.54U	0.58U	0.56U	0.74U	0.54U
Methylene chloride	(ug/kg)	100	1.4BJ	0.92U	4.4J	3.2J	0.85U
Methyltert-butylether	(ug/kg)		0.45U	0.48U	0.46U	0.61U	0.45U
Naphthalene	(ug/kg)	13000	1.4BJ	0.48U	150B	190B	6.7B
n-Butylbenzene	(ug/kg)		0.56U	0.61U	9800D	13000D	0.56U
n-Propylbenzene	(ug/kg)		0.66U	0.71U	4900D	7700D	0.66U
2-Chlorotoluene	(ug/kg)		0.69U	0.74U	0.71U	0.94U	0.69U
1,2-Dichlorobenzene	(ug/kg)	7900	0.41U	0.44U	0.42U	0.56U	0.41U
o-Xylene	(ug/kg)		0.46U	0.49U	4700D	7500D	0.46U
4-Chlorotoluene	(ug/kg)		0.49U	0.53U	0.51U	0.67U	0.49U
1,4-Dichlorobenzene	(ug/kg)	8500	0.38U	0.40U	0.39U	0.51U	0.38U
p-Xylene	(ug/kg)		0.69U	0.74U	7500D	13000D	0.69U
sec-Butylbenzene	(ug/kg)		0.46U	0.49U	5300D	7400D	0.46U
Styrene	(ug/kg)		0.52U	0.56U	0.54U	0.71U	0.52U
tert-Butylbenzene	(ug/kg)		0.43U	0.46U	0.44U	0.59U	0.43U
Tetrachloroethylene	(ug/kg)	1400	0.67U	0.72U	29	34	0.67U
Toluene	(ug/kg)	1500	0.33U	0.36U	930D	230	0.33U
Trans-1,3-Dichloropropene	(ug/kg)		0.29U	0.31U	0.30U	0.40U	0.29U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 2
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		SITE	NYSDEC	B-43	B-45	B-46	B-46	B-46
		SAMPLE ID		B-43 20-22'	B-45 2-4'	B-46 2-4'	B-46 4-6'	B-46 8-10'
		DATE	SCG	06/05/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
		DEPTH (ft)		22.00	4.00	4.00	6.00	10.00
Trichloroethylene	(ug/kg)		700	0.38U	0.40U	64	12	0.38U
Trichlorofluoromethane	(ug/kg)			1.4U	1.5U	1.4U	1.9U	1.4U
Vinyl Acetate	(ug/kg)			0.34U	0.37U	0.35U	0.47U	0.34U
Vinyl chloride	(ug/kg)		200	0.90U	0.97U	0.92U	1.2U	0.90U
Xylene (total)	(ug/kg)		1200	0.99U	1.1U	[12000]D	[21000]D	0.99U
TOTAL VOLATILE ORGANICS	(ug/kg)		10000	10.8	0	[84067.9]	[152700]	27.7

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-43 B-43 10-12' 06/05/2006 12.00	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00
	SITE		B-43	B-43	B-45	B-46	B-46
	SAMPLE ID		B-43 10-12'	B-43 20-22'	B-45 2-4'	B-46 2-4'	B-46 4-6'
	DATE		06/05/2006	06/05/2006	06/16/2006	06/16/2006	06/16/2006
	DEPTH (ft)		12.00	22.00	4.00	4.00	6.00
1,2,4-Trichlorobenzene	(ug/kg)	3400	130U	56U	60U	57U	76U
1,3-Isobenzofurandione	(ug/kg)		NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	(ug/kg)	100	130U	58U	63U	60U	79U
2,4,6-Trichlorophenol	(ug/kg)		60U	27U	29U	28U	37U
2,4-Dichlorophenol	(ug/kg)	400	84U	38U	40U	38U	51U
2,4-Dimethylphenol	(ug/kg)		130U	56U	60U	57U	76U
2,4-Dinitrophenol	(ug/kg)	200	260U	110U	120U	120U	160U
2,4-Dinitrotoluene	(ug/kg)		100U	46U	49U	47U	62U
2,6-Dinitrotoluene	(ug/kg)	1000	67U	30U	32U	31U	41U
2-Chloronaphthalene	(ug/kg)		95U	43U	46U	44U	58U
2-Chlorophenol	(ug/kg)	800	93U	42U	45U	43U	57U
2-Methylnaphthalene	(ug/kg)	36400	5900	47U	50U	48U	870
3,3-Dichlorobenzidine	(ug/kg)		120U	55U	59U	56U	75U
4,6-Dinitro-o-cresol	(ug/kg)		67U	30U	32U	31U	41U
4-Bromofluorobenzene	(ug/kg)		93U	42U	45U	43U	57U
4-Chlorophenyl phenyl ether	(ug/kg)		74U	33U	36U	34U	45U
Acenaphthene	(ug/kg)	50000	5300	36U	39U	37U	50U
Acenaphthylene	(ug/kg)	41000	81U	36U	39U	37U	50U
Anthracene	(ug/kg)	50000	8900	58U	63U	60U	110J
Benzo(a)anthracene	(ug/kg)	224	[30000]D	90J	67U	130J	85U
Benzo(a)pyrene	(ug/kg)	61	[23000]D	[65]J	54U	[110]J	68U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	B-43 B-43 10-12' 06/05/2006 12.00	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00
Benzo(b)fluoranthene	(ug/kg)	1100	[32000]D	110J	71U	170J	91U
Benzo(ghi)perylene	(ug/kg)	50000	9500D	160J	93U	88U	120U
Benzo(k)fluoranthene	(ug/kg)	1100	[15000]D	47U	50U	83J	64U
Bis(2-chloro-1-methylethyl)ether	(ug/kg)		84U	38U	40U	38U	51U
Bis(2-chloroethoxy)methane	(ug/kg)		110U	48U	51U	49U	65U
Bis(2-chloroethyl)ether	(ug/kg)		110U	49U	52U	50U	66U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)	50000	8700	130J	130BJ	260BJ	3100B
Butyl benzyl phthalate	(ug/kg)	50000	120U	52U	56U	53U	71U
Carbazole	(ug/kg)		3900	59U	64U	61U	81U
Chrysene	(ug/kg)	400	[35000]D	130J	66U	170J	130J
Dibenzo(a,h)anthracene	(ug/kg)	14	[6200]	70U	75U	71U	95U
Dibenzofuran	(ug/kg)	6200	3700	34U	37U	35U	47U
Diethyl phthalate	(ug/kg)	7100	110U	50U	54U	51U	68U
Dimethyl phthalate	(ug/kg)	2000	88U	40U	42U	40U	54U
Di-n-butyl phthalate	(ug/kg)	8100	940	50U	54U	51U	68U
Di-n-octyl phthalate	(ug/kg)	50000	93U	42U	45U	43U	57U
Fluoranthene	(ug/kg)	50000	[54000]D	160J	52U	180J	66U
Fluorene	(ug/kg)	50000	6200	38U	40U	38U	97J
Hexachlorobenzene	(ug/kg)	410	100U	45U	48U	46U	61U
Hexachlorobutadiene	(ug/kg)		130U	58U	63U	60U	79U
Hexachlorocyclopentadiene	(ug/kg)		190U	86U	93U	88U	120U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-43 B-43 10-12' 06/05/2006 12.00	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00
	SITE						
	SAMPLE ID						
	DATE						
	DEPTH (ft)						
Hexachloroethane	(ug/kg)		120U	55U	59U	56U	75U
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	[9500]D	72U	77U	73U	98U
Isophorone	(ug/kg)	4400	81U	36U	39U	37U	50U
1,3-Dichlorobenzene	(ug/kg)	1600	95U	43U	46U	44U	58U
3-Nitroaniline	(ug/kg)	500	91U	41U	44U	42U	55U
Naphthalene	(ug/kg)	13000	5600	44U	47U	45U	1300
Nitrobenzene	(ug/kg)	200	110U	48U	51U	49U	65U
N-Nitrosodiphenylamine	(ug/kg)		130U	58U	63U	60U	79U
N-Nitrosodipropylamine	(ug/kg)		130U	57U	61U	59U	78U
2-Methylphenol	(ug/kg)	100	140U	65U	69U	66U	88U
1,2-Dichlorobenzene	(ug/kg)	7900	160J	48U	51U	49U	65U
2-Nitroaniline	(ug/kg)	430	95U	43U	46U	44U	58U
2-Nitrophenol	(ug/kg)	330	110U	49U	52U	50U	66U
4-Chloroaniline	(ug/kg)	220	67U	30U	32U	31U	41U
4-Chloro-3-methylphenol	(ug/kg)	240	88U	40U	42U	40U	54U
Pentachlorophenol	(ug/kg)	1000	150U	67U	71U	68U	91U
4-Methylphenol	(ug/kg)	900	780	56U	60U	57U	76U
1,4-Dichlorobenzene	(ug/kg)	8500	390J	50U	54U	51U	68U
Perylene	(ug/kg)		NA	NA	NA	NA	NA
Phenanthrene	(ug/kg)	50000	49000D	120J	49U	63J	530
Phenol	(ug/kg)	30	[870]	49U	52U	50U	66U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-43 B-43 10-12' 06/05/2006 12.00	B-43 B-43 20-22' 06/05/2006 22.00	B-45 B-45 2-4' 06/16/2006 4.00	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00
	SITE						
	SAMPLE ID						
	DATE						
	DEPTH (ft)						
4-Nitroaniline	(ug/kg)		100U	46U	49U	47U	62U
4-Nitrophenol	(ug/kg)	100	120U	53U	57U	54U	72U
Pyrene	(ug/kg)	50000	48000D	160J	55U	170J	260J
Total CAPAHs	(ug/kg)	10000	[150700]	395	0	663	130
Total PAHs	(ug/kg)	500000	343100	995	0	1076	3297
Total Semivolatile Organics	(ug/kg)	500000	362540	1125	130	1336	6397

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-46 B-46 8-10' 06/16/2006 10.00
	SITE		B-46
	SAMPLE ID	NYSDEC	B-46 8-10'
	DATE	SCG	06/16/2006
	DEPTH (ft)		10.00
1,2,4-Trichlorobenzene	(ug/kg)	3400	56U
1,3-Isobenzofurandione	(ug/kg)		NA
2,4,5-Trichlorophenol	(ug/kg)	100	58U
2,4,6-Trichlorophenol	(ug/kg)		27U
2,4-Dichlorophenol	(ug/kg)	400	37U
2,4-Dimethylphenol	(ug/kg)		56U
2,4-Dinitrophenol	(ug/kg)	200	110U
2,4-Dinitrotoluene	(ug/kg)		46U
2,6-Dinitrotoluene	(ug/kg)	1000	30U
2-Chloronaphthalene	(ug/kg)		43U
2-Chlorophenol	(ug/kg)	800	42U
2-Methylnaphthalene	(ug/kg)	36400	47U
3,3-Dichlorobenzidine	(ug/kg)		55U
4,6-Dinitro-o-cresol	(ug/kg)		30U
4-Bromofluorobenzene	(ug/kg)		42U
4-Chlorophenyl phenyl ether	(ug/kg)		33U
Acenaphthene	(ug/kg)	50000	36U
Acenaphthylene	(ug/kg)	41000	36U
Anthracene	(ug/kg)	50000	58U
Benzo(a)anthracene	(ug/kg)	224	62U
Benzo(a)pyrene	(ug/kg)	61	50U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	B-46 B-46 8-10' 06/16/2006 10.00
Benzo(b)fluoranthene	(ug/kg)	1100	66U
Benzo(ghi)perylene	(ug/kg)	50000	86U
Benzo(k)fluoranthene	(ug/kg)	1100	47U
Bis(2-chloro-1-methylethyl)ether	(ug/kg)		37U
Bis(2-chloroethoxy)methane	(ug/kg)		48U
Bis(2-chloroethyl)ether	(ug/kg)		49U
Bis(2-ethylhexyl)phthalate (BEHP)	(ug/kg)	50000	200BJ
Butyl benzyl phthalate	(ug/kg)	50000	52U
Carbazole	(ug/kg)		59U
Chrysene	(ug/kg)	400	61U
Dibenzo(a,h)anthracene	(ug/kg)	14	70U
Dibenzofuran	(ug/kg)	6200	34U
Diethyl phthalate	(ug/kg)	7100	50U
Dimethyl phthalate	(ug/kg)	2000	39U
Di-n-butyl phthalate	(ug/kg)	8100	50U
Di-n-octyl phthalate	(ug/kg)	50000	42U
Fluoranthene	(ug/kg)	50000	49U
Fluorene	(ug/kg)	50000	37U
Hexachlorobenzene	(ug/kg)	410	45U
Hexachlorobutadiene	(ug/kg)		58U
Hexachlorocyclopentadiene	(ug/kg)		86U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	NYSDEC SCG	B-46 B-46 8-10' 06/16/2006 10.00
Hexachloroethane	(ug/kg)		55U
Indeno(1,2,3-cd)pyrene	(ug/kg)	3200	72U
Isophorone	(ug/kg)	4400	36U
1,3-Dichlorobenzene	(ug/kg)	1600	43U
3-Nitroaniline	(ug/kg)	500	40U
Naphthalene	(ug/kg)	13000	44U
Nitrobenzene	(ug/kg)	200	48U
N-Nitrosodiphenylamine	(ug/kg)		58U
N-Nitrosodipropylamine	(ug/kg)		57U
2-Methylphenol	(ug/kg)	100	64U
1,2-Dichlorobenzene	(ug/kg)	7900	48U
2-Nitroaniline	(ug/kg)	430	43U
2-Nitrophenol	(ug/kg)	330	49U
4-Chloroaniline	(ug/kg)	220	30U
4-Chloro-3-methylphenol	(ug/kg)	240	39U
Pentachlorophenol	(ug/kg)	1000	66U
4-Methylphenol	(ug/kg)	900	56U
1,4-Dichlorobenzene	(ug/kg)	8500	50U
Perylene	(ug/kg)		NA
Phenanthrene	(ug/kg)	50000	46U
Phenol	(ug/kg)	30	49U

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 3
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-46 B-46 8-10' 06/16/2006 10.00
	SITE		B-46
	SAMPLE ID	NYSDEC	B-46 8-10'
	DATE	SCG	06/16/2006
	DEPTH (ft)		10.00
4-Nitroaniline	(ug/kg)		46U
4-Nitrophenol	(ug/kg)	100	53U
Pyrene	(ug/kg)	50000	51U
Total CAPAHs	(ug/kg)	10000	0
Total PAHs	(ug/kg)	500000	0
Total Semivolatile Organics	(ug/kg)	500000	200

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 4
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-45 B-45 2"-2' 06/16/2006 2.00	B-45 B-45 2-4' 06/16/2006 4.00	B-45 B-45 4-6 06/16/2006 6.00	B-45 B-45 6-8' 06/16/2006 8.00	B-46 B-46 2"-2' 06/16/2006 2.00
	SITE						
	SAMPLE ID						
	DATE						
	DEPTH (ft)						
Aroclor 1016	(ug/kg)		3.9U	4.1U	4.1U	3.8U	11U
Aroclor 1221	(ug/kg)		2.9U	3.0U	3.0U	2.8U	8.3U
Aroclor 1232	(ug/kg)		1.7U	1.8U	1.8U	1.6U	4.9U
Aroclor 1242	(ug/kg)		2.8U	2.9U	2.9U	2.7U	8.0U
Aroclor 1248	(ug/kg)		1.4U	1.5U	1.4U	1.3U	660
Aroclor 1254	(ug/kg)		2.8U	2.9U	2.9U	2.7U	8.0U
Aroclor 1260	(ug/kg)		3.7U	3.9U	3.8U	3.6U	11U
Total PCBs (subsurface soil)	(ug/kg)	10000	NA	0	0	0	NA
Total PCBs (surface soil)	(ug/kg)	1000	0	NA	NA	NA	660

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 4
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-46 B-46 2-4' 06/16/2006 4.00	B-46 B-46 4-6' 06/16/2006 6.00	B-46 B-46 6-8' 06/16/2006 8.00	B-46 B-46 8-10' 06/16/2006 10.00	B-47 B-47 2"-2' 06/16/2006 2.00
	SITE		B-46	B-46	B-46	B-46	B-47
	SAMPLE ID		B-46 2-4'	B-46 4-6'	B-46 6-8'	B-46 8-10'	B-47 2"-2'
	DATE		06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
	DEPTH (ft)		4.00	6.00	8.00	10.00	2.00
Aroclor 1016	(ug/kg)		4.0U	26U	38U	76U	3.9U
Aroclor 1221	(ug/kg)		2.9U	19U	28U	55U	2.9U
Aroclor 1232	(ug/kg)		1.7U	11U	16U	33U	1.7U
Aroclor 1242	(ug/kg)		2.8U	18U	27U	53U	2.7U
Aroclor 1248	(ug/kg)		54	1700	2300	4400	1.4U
Aroclor 1254	(ug/kg)		2.8U	18U	27U	53U	46
Aroclor 1260	(ug/kg)		3.8U	25U	36U	72U	3.7U
Total PCBs (subsurface soil)	(ug/kg)	10000	54	1700	2300	4400	NA
Total PCBs (surface soil)	(ug/kg)	1000	NA	NA	NA	NA	46

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 4
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			SITE	B-47	B-47	B-47	B-47	B-47
			SAMPLE ID	B-47 2-4'	B-47 4-6'	B-47 6-8'	B-47 8-10'	B-47 10-12'
			DATE	06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
			DEPTH (ft)	4.00	6.00	8.00	10.00	12.00
Aroclor 1016	(ug/kg)			4.0U	4.0U	4.0U	4.0U	4.2U
Aroclor 1221	(ug/kg)			2.9U	2.9U	2.9U	3.0U	3.0U
Aroclor 1232	(ug/kg)			1.7U	1.7U	1.7U	1.7U	1.8U
Aroclor 1242	(ug/kg)			2.8U	2.8U	2.8U	2.8U	2.9U
Aroclor 1248	(ug/kg)			1.4U	1.4U	1.4U	1.4U	1.5U
Aroclor 1254	(ug/kg)			2.8U	2.8U	2.8U	2.8U	2.9U
Aroclor 1260	(ug/kg)			3.8U	3.8U	3.8U	3.8U	3.9U
Total PCBs (subsurface soil)	(ug/kg)	10000		0	0	0	0	0
Total PCBs (surface soil)	(ug/kg)	1000		NA	NA	NA	NA	NA

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 4
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			SITE	B-47	B-47	B-48	B-48	B-48
			SAMPLE ID	B-47 12-14'	B-47 14-16'	B-48 2"-2'	B-48 2-4'	B-48 4-6'
			DATE	06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
			DEPTH (ft)	14.00	16.00	2.00	4.00	6.00
Aroclor 1016	(ug/kg)			4.1U	3.7U	4.0U	3.8U	3.9U
Aroclor 1221	(ug/kg)			3.0U	2.7U	2.9U	2.8U	2.8U
Aroclor 1232	(ug/kg)			1.8U	1.6U	1.7U	1.7U	1.7U
Aroclor 1242	(ug/kg)			2.8U	2.6U	2.8U	2.7U	2.7U
Aroclor 1248	(ug/kg)			1.5U	1.3U	1.4U	1.3U	1.4U
Aroclor 1254	(ug/kg)			2.9U	2.6U	2.8U	2.7U	2.7U
Aroclor 1260	(ug/kg)			3.9U	3.5U	3.8U	3.6U	3.7U
Total PCBs (subsurface soil)	(ug/kg)	10000		0	0	NA	0	0
Total PCBs (surface soil)	(ug/kg)	1000		NA	NA	0	NA	NA

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 4
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-48 B-48 6-8' 06/16/2006 8.00	B-49 B-49 0-2" 06/15/2006 0.17	B-49 B-49 2"-2' 06/15/2006 2.00	B-49 B-49 2-4' 06/15/2006 4.00	B-49 B-49 4-6' 06/15/2006 6.00
	SITE						
	SAMPLE ID						
	DATE						
	DEPTH (ft)						
Aroclor 1016	(ug/kg)		3.8U	43U	4.0U	4.0U	3.8U
Aroclor 1221	(ug/kg)		2.8U	31U	2.9U	2.9U	2.7U
Aroclor 1232	(ug/kg)		1.7U	19U	1.7U	1.7U	1.6U
Aroclor 1242	(ug/kg)		2.7U	30U	2.8U	2.8U	2.6U
Aroclor 1248	(ug/kg)		1.3U	2000	29000D	1.4U	1.3U
Aroclor 1254	(ug/kg)		2.7U	30U	2.8U	2.8U	2.6U
Aroclor 1260	(ug/kg)		3.6U	41U	3.8U	3.8U	3.6U
Total PCBs (subsurface soil)	(ug/kg)	10000	0	NA	NA	0	0
Total PCBs (surface soil)	(ug/kg)	1000	NA	[2000]	[29000]	NA	NA

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 4
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	SITE: B-49 SAMPLE ID: B-49 6-8 DATE: 06/15/2006 DEPTH (ft): 8.00
Aroclor 1016	(ug/kg)		3.7U
Aroclor 1221	(ug/kg)		2.7U
Aroclor 1232	(ug/kg)		1.6U
Aroclor 1242	(ug/kg)		2.6U
Aroclor 1248	(ug/kg)		39
Aroclor 1254	(ug/kg)		2.6U
Aroclor 1260	(ug/kg)		3.5U
Total PCBs (subsurface soil)	(ug/kg)	10000	39
Total PCBs (surface soil)	(ug/kg)	1000	NA

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-44 B-44 2"-2' 06/16/2006 2.00	B-44 B-44 2-4' 06/16/2006 4.00	B-44 B-44 6-8' 06/16/2006 8.00	B-44 B-44 4-6' 06/16/2006 6.00	B-45 B-45 2"-2' 06/16/2006 2.00
	SITE		B-44	B-44	B-44	B-44	B-45
	SAMPLE ID	NYSDEC	B-44 2"-2'	B-44 2-4'	B-44 6-8'	B-44 4-6'	B-45 2"-2'
	DATE	SCG	06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
	DEPTH (ft)		2.00	4.00	8.00	6.00	2.00
Cadmium	**(mg/kg)**	**10**	NA	NA	NA	NA	NA
Chromium	(mg/kg)	50	11.4	5.5	1.9	22.4	11.8

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-45 B-45 2-4' 06/16/2006 4.00	B-45 B-45 4-6 06/16/2006 6.00	B-45 B-45 6-8' 06/16/2006 8.00	B-46 B-46 2"-2' 06/16/2006 2.00	B-46 B-46 2-4' 06/16/2006 4.00
	SITE		B-45	B-45	B-45	B-46	B-46
	SAMPLE ID	NYSDEC	B-45 2-4'	B-45 4-6	B-45 6-8'	B-46 2"-2'	B-46 2-4'
	DATE	SCG	06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
	DEPTH (ft)		4.00	6.00	8.00	2.00	4.00
Cadmium	(mg/kg)	10	NA	NA	NA	NA	NA
Chromium	(mg/kg)	50	12.3	2.1	2.1	44.6	19.9

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			NYSDEC SCG	B-46 B-46 4-6' 06/16/2006 6.00	B-46 B-46 6-8' 06/16/2006 8.00	B-46 B-46 8-10' 06/16/2006 10.00	B-47 B-47 2"-2' 06/16/2006 2.00	B-47 B-47 2-4' 06/16/2006 4.00
	SITE			B-46	B-46	B-46	B-47	B-47
	SAMPLE ID		NYSDEC	B-46 4-6'	B-46 6-8'	B-46 8-10'	B-47 2"-2'	B-47 2-4'
	DATE		SCG	06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
	DEPTH (ft)			6.00	8.00	10.00	2.00	4.00
Cadmium	(mg/kg)		10	NA	NA	NA	NA	NA
Chromium	(mg/kg)		50	[68.7]	3.9	3.1	15.8	38.6

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			NYSDEC SCG	B-47 B-47 4-6' 06/16/2006 6.00	B-47 B-47 6-8' 06/16/2006 8.00	B-47 B-47 8-10' 06/16/2006 10.00	B-47 B-47 10-12' 06/16/2006 12.00	B-47 B-47 12-14' 06/16/2006 14.00
	SITE							
	SAMPLE ID							
	DATE							
	DEPTH (ft)							
Cadmium	(mg/kg)		10	NA	NA	NA	NA	NA
Chromium	(mg/kg)		50	36.3	31.1	[62.0]	17.5	16.4

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			NYSDEC SCG					
	SITE			B-47	B-48	B-48	B-48	B-48
	SAMPLE ID			B-47 14-16'	B-48 2"-2'	B-48 2-4'	B-48 4-6'	B-48 6-8'
	DATE			06/16/2006	06/16/2006	06/16/2006	06/16/2006	06/16/2006
	DEPTH (ft)			16.00	2.00	4.00	6.00	8.00
Cadmium	(mg/kg)		10	NA	NA	NA	NA	NA
Chromium	(mg/kg)		50	1.8	12.5	6.4	5.1	3.8

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			SITE	B-49	B-49	B-49	B-49	B-49
			SAMPLE ID	B-49 0-2"	B-49 2"-2'	B-49 2-4'	B-49 4-6'	B-49 6-8
			DATE	06/15/2006	06/15/2006	06/15/2006	06/15/2006	06/15/2006
			DEPTH (ft)	0.17	2.00	4.00	6.00	8.00
Cadmium	**(mg/kg)**	**10**		NA	NA	NA	NA	NA
Chromium	(mg/kg)	50		30.4	[69.1]	7.8	1.8	1.8

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			SITE	B-50	B-50	B-50	B-50	B-50
			SAMPLE ID	B-50 0-2"	B-50 2"-2'	B-50 2-4'	B-50 4-6'	B-50 6-8'
			DATE	06/15/2006	06/15/2006	06/15/2006	06/15/2006	06/15/2006
			DEPTH (ft)	0.17	2.00	4.00	6.00	8.00
Cadmium	(mg/kg)	10		NA	NA	NA	NA	NA
Chromium	(mg/kg)	50		10.1	7.1	5.9	5.8	2.2

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-51 B-51 0-2" 06/15/2006 0.17	B-51 B-51 2"-2' 06/15/2006 2.00	B-51 B-51 2-4' 06/15/2006 4.00	B-51 B-51 4-6' 06/15/2006 6.00	B-51 B-51 6-8' 06/15/2006 8.00
	SITE						
	SAMPLE ID						
	DATE						
	DEPTH (ft)						
Cadmium	(mg/kg)	10	NA	NA	NA	NA	NA
Chromium	(mg/kg)	50	36	4.4	9.3	13.4	2.5

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-52 B-52 0-2" 06/15/2006 0.17	B-52 B-52 2"-2' 06/15/2006 2.00	B-52 B-52 2-4' 06/15/2006 4.00	B-52 B-52 4-6' 06/15/2006 6.00	B-52 B-52 6-8' 06/15/2006 8.00
	SITE		B-52	B-52	B-52	B-52	B-52
	SAMPLE ID	NYSDEC	B-52 0-2"	B-52 2"-2'	B-52 2-4'	B-52 4-6'	B-52 6-8'
	DATE	SCG	06/15/2006	06/15/2006	06/15/2006	06/15/2006	06/15/2006
	DEPTH (ft)		0.17	2.00	4.00	6.00	8.00
Cadmium	**(mg/kg)**	**10**	NA	NA	NA	NA	NA
Chromium	(mg/kg)	50	[87.4]	4.9	9.1	1.2	2.3

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT			SITE		B-53	B-53	B-53	B-53	B-53
			SAMPLE ID	NYSDEC	B-53 0-2"	B-53 2"-2'	B-53 2-4'	B-53 4-6'	B-53 6-8'
			DATE	SCG	06/15/2006	06/15/2006	06/15/2006	06/15/2006	06/15/2006
			DEPTH (ft)		0.17	2.00	4.00	6.00	8.00
Cadmium	**(mg/kg)**		**10**		NA	NA	NA	NA	NA
Chromium	(mg/kg)		50		34.3	12.5	19.8	2.6	1.8

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-53 B-53 8-10' 06/15/2006 10.00	B-54 B-54 0-2" 06/09/2006 0.17	B-54 B-54 2"-2' 06/09/2006 2.00	B-54 B-54 2-4' 06/09/2006 4.00	B-54 B-54 4-6' 06/09/2006 6.00
	SITE						
	SAMPLE ID						
	DATE						
	DEPTH (ft)						
Cadmium	(mg/kg)	10	NA	NA	NA	NA	NA
Chromium	(mg/kg)	50	1.6	[116]	9.2	18.6	10.8

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		SITE	NYSDEC	B-54	B-55	B-55	B-55	B-55
		SAMPLE ID		B-54 6-8'	B-55 0-2"	B-55 2"-2'	B-55 2-4'	B-55 4-6'
		DATE	SCG	06/09/2006	06/15/2006	06/15/2006	06/15/2006	06/15/2006
		DEPTH (ft)		8.00	0.17	2.00	4.00	6.00
Cadmium	**(mg/kg)**		**10**	NA	NA	NA	NA	NA
Chromium	(mg/kg)		50	18.2	29.7	11.7	22.3	3.1

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG

TABLE 5
BETHPAGE COMMUNITY PARK
SUPPLEMENTAL INVESTIGATION
SOIL SAMPLE RESULTS
CADMIUM AND CHROMIUM

PERIOD: From 06/05/2006 thru 06/21/2006 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT		NYSDEC SCG	B-55 B-55 6-8' 06/15/2006 8.00	B-55 B-55 8-10' 06/15/2006 10.00
	SITE		B-55	B-55
	SAMPLE ID	NYSDEC	B-55 6-8'	B-55 8-10'
	DATE	SCG	06/15/2006	06/15/2006
	DEPTH (ft)		8.00	10.00
Cadmium	(mg/kg)	10	NA	NA
Chromium	(mg/kg)	50	3.0	3.5

U: Compound analyzed for but not detected.

[ ]: Result exceeds NYSDEC SCG