1-30-003A

NORTHROP GRUMMAN
Integrated Systems

Northrop Grumman Corporation
Airborne Early Warning and Electronic Warfare Systems
South Oyster Bay Road
Bethpage, NY 11714-3581

November 20, 2002
ECTL02-217

File on eDOCs? X Yes ____ No
Site Name Northrop Grumman
Site # 1-30-003A
County Nassau
Town Oyster Bay
Foilable ✓ Yes ____ No
Please Write The eDOC File
Name Description SRB-RI

Steven M. Scharf, P.E., Project Engineer
New York State Department of
Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, NY 12233-7015

Re: Remedial Investigation
Northrop Grumman Corporation
South Receiving Basin
Bethpage, New York

Dear Mr. Scharf:

The purpose of this letter report is to document the field activities and present the preliminary analytical results associated with the remedial investigation (RI) conducted at the South Receiving Basin (SRB) located at the Northrop Grumman Corporation (NGC) site in Bethpage, New York. A site location map is presented on **Figure 1** in **Attachment 1**.

A description of the project site, discussion of the field activities and presentation of the preliminary analytical results are provided below. It should be noted that a Remedial Investigation report will be prepared for the SRB that summarizes the validated analytical results.

Introduction

The South Receiving Basin is located along the southern portion of the NGC Bethpage campus. The SRB property is owned and operated by NGC. The SRB is approximately 140 feet by 140 feet square and approximately 15 feet deep. A single story building, currently operated by the Long Island Rail Road, is located immediately north of the site. Surrounding property to the northwest, north and east is zoned industrial. Directly to the west and south along Route 107/Hicksville Road, is an area of strip commercial zoning. Farther west is high-density residential zoning. Directly south of the site is also

high density residential zoning. A site plan is provided in **Figure 2** in **Attachment 2**. The topography of the site is generally level. Ground elevation is approximately 110 feet above mean sea level, with the depth to groundwater approximately 50 feet below grade.

Historically, Plant 2 SPDES permitted treated wastewater, non-metal rinse water, storm water and treated groundwater was discharged to the SRB, which then conveyed flows to a series of recharge basins located to the east of the SRB. However, for the last 2 years, storm water discharges have bypassed the SRB and, instead have been conveyed to the adjacent recharge basins. At the current time, the SRB only receives storm water in the form of direct precipitation. However, because the SRB served as a solids settling basin for metal precipitates from Plant 2, we believe that it may be contributing to local groundwater contamination. As a result, NGC wishes to backfill and formally close the SRB following all applicable environmental regulations, by the installation of an asphalt cap to eliminate any infiltration to groundwater. Consequently, NGC has conducted a RI at this basin to determine if the media beneath the basin has been impacted in a manner that would preclude closure of the SRB in the manner suggested.

Field Activities

Subsurface Soil Samples

Based upon the NYSDEC approved Work Plan – Revision 1, dated September 2002, a total of five soil borings were advanced within the "floor" of the SRB. The four soil borings located in the corners of the basin were advanced to a depth of 20 feet below the bottom of the basin utilizing the Geoprobe technique. Continuous two-foot soil samples were collected for laboratory analysis. In addition, a soil boring was advanced in the center of the basin to a depth of approximately 42 feet below the bottom of the basin. Continuous two-foot soil samples were collected to a depth of 20 feet below the bottom of the basin. Soil samples were collected every 5 feet from 20 feet below the bottom of the SRB to 42 feet where the water table was encountered. The soil samples were analyzed for VOCs by Method 8260, SVOCs by Method 8270, RCRA metals by Methods 6010/7471 and PCBs by Method 8082. Soil boring locations are shown on **Figure 3** in **Attachment 3**.

The soil probes were advanced utilizing Geoprobe tooling and a track-mounted Simco 6600 Earthprobe. The Geoprobe tooling consisted of drill rods and either a 1.5-inch outside diameter by 2-foot long or a 2-inch outside diameter by 4-foot long soil probe

sampler. A clear polyethylene terephthalate-G (PETG) sample tube liner, dedicated to each soil probe sample, was used to contain the sample within the sampler. Each soil probe was advanced utilizing the Earthprobe to drive the soil probe sampler, sample tube liner and drill rods to the desired depth. The soil probe sampler was retrieved using the Earthprobe.

All soil samples collected were geologically characterized, inspected for staining, discoloration or odors, and screened for volatile organic compounds (VOCs) using an organic vapor analyzer equipped with a photoionization detector (PID). This information is included on the soil boring logs presented in **Attachment 4**.

Surface Soil Samples

Based upon the NYSDEC approved Work Plan, two surface soil samples (0 to 2 inches) were collected from the south side of the SRB adjacent to the fence line. Likewise, a surface soil sample was collected from the three remaining locations at the perimeter of the SRB outside of the berm area. In addition, a surface soil sample of the gray surface sediments was collected at each of the five Geoprobe soil boring locations and a surface soil sample from each of the SRB sidewalls were also collected. The surface soil samples were analyzed for VOCs by Method 8260, SVOCs by Method 8270, RCRA metals by Methods 6010/7471 and PCBs by Method 8082. Surface soil sample locations are shown on **Figure 3** in **Attachment 3**.

Sand Pile Samples

Based upon the NYSDEC approved Work Plan, a total of six grab soil samples were collected from six sand piles located immediately to the west of the SRB. The sand pile samples were analyzed for VOCs by Method 8260, SVOCs by Method 8270, RCRA metals by Methods 6010/7471 and PCBs by Method 8082.

Groundwater

As part of the SRB RI, shallow groundwater monitoring well SRMW-01 was installed utilizing a CME-55 rotary drill rig equipped with 4 1/4-inch hollow stem augers. All equipment, including the 4 1/4-inch hollow stem augers, was decontaminated utilizing a high-pressure steam cleaner. All decontamination water was contained in 55-gallon DOT drums for proper off-site disposal. The monitoring well was installed to a depth of 54.2 feet below grade. A well construction log is presented in **Attachment 5**. Fifteen feet of 2-inch diameter 0.010 slot schedule 40 flush joint threaded PVC screen and

2-inch diameter Schedule 40 flush joint thread PVC riser pipe was utilized for the well construction. All drill cuttings and well development water was contained in 55-gallon DOT drums for proper disposal. Number 1 Morie well gravel was utilized for the well screen annulus. The remainder of the annular void was filled with hydrated bentonite pellets and a cement and bentonite grout mix was applied as a seal. Subsequent well development activities reduced the turbidity of the well water to approximately 8 NTU's.

During the groundwater sampling activities, turbidity was greater than 50 NTU's. Therefore, both filtered and unfiltered groundwater samples were collected for metals laboratory analysis. The groundwater sample was analyzed for VOCs by Method 8260, SVOCs by Method 8270, RCRA metals by Methods 6010/7471 (filtered and unfiltered) and PCBs by Method 8082.

Quality Control/Quality Assurance

Based upon the NYSDEC approved Work Plan, a set of quality control/quality assurance (QA/QC) samples consisting of a matrix spike and a matrix spike duplicate were collected for analysis at the rate of one set for every 20 environmental samples collected in the field. Mitkem Corporation, a New York State ELAP-approved and CLP-certified laboratory, reported all analytical results following a Category B deliverable format.

Analytical Results

This section presents the preliminary analytical results of the RI conducted at the SRB. Soil sample results generated during this investigation were compared to the criteria included in Appendix A of the New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) No. 4046 (referred to in this document as the "NYSDEC TAGM criteria"). It should be noted that the TAGM 4046 criteria for PCBs of 1,000 and 10,000 ug/kg was utilized for surface and subsurface soil, respectively. Groundwater sample results were compared to the NYSDEC Division of Water Groundwater Guidance Value for GA Class Water as outlined in the TOGS 1.1.1.

A discussion of the field investigation findings for the SRB is presented below. In addition, tables summarizing the analytical results of samples collected at the SRB are included in **Attachment 6**.

Subsurface Soil Samples

At the SRB, a total of 52 soil samples were collected at 5 soil boring locations during the RI field investigation program. Soil samples were analyzed as described above. The analytical results are presented in **Tables 1A** through **1D** in **Attachment 6** and are summarized as follows:

- Volatile Organic Compounds
  - Several Volatile Organic Compounds (VOCs) were detected in all 52 soil samples but at concentrations that were below the NYSDEC TAGM criteria.
- Semivolatile Organic Compounds
  - Several individual Semivolatile Organic Compounds (SVOCs) were detected in 11 soil samples at concentrations that exceeded the NYSDEC TAGM criteria. However, total carcinogenic polycyclic aromatic hydrocarbons (CaPAHs) were not detected at concentrations exceeding the NYSDEC TAGM criterion of 10,000 ug/kg for total CaPAHs.
- RCRA Metals
  - Cadmium was detected at concentrations of 17.6 mg/kg, 15.3 mg/kg, 29.8 mg/kg, 44 mg/kg, 17.2 mg/kg, 11.7 mg/kg, 35.6 mg/kg in soil samples SRSB-02 (8-10), SRSB-02 (12-14), SRSB-02 (16-18), SRSB-03 (18-20), SRSB-04 (0-2), SRSB-04 (12-14) and SRSB-04 (14-16), respectively, that exceeded the NYSDEC TAGM criterion of 10 mg/kg.
  - Chromium was detected at concentrations of 60.2 mg/kg, 63.8 mg/kg, 66.1 mg/kg, 53.4 mg/kg, 1,290 mg/kg, 72.5 mg/kg, 505 mg/kg, 72.6 mg/kg, 240 mg/kg, 613 mg/kg, 145 mg/kg, 71 mg/kg, 79.4 mg/kg, 75 mg/kg, 203 mg/kg, 85.2 mg/kg, 309 mg/kg, 377 mg/kg, 120 mg/kg, 106 mg/kg and 57 mg/kg in soil samples SRSB-02 (2-4), SRSB-02 (4-6), SRSB-02 (8-10), SRSB-02 (10-12), SRSB-02 (12-14), SRSB-02 (14-16), SRSB-02 (16-18), SRSB-03 (2-4), SRSB-03 (18-20), SRSB-04 (0-2), SRSB-04 (2-4), SRSB-04 (6-8), SRSB-04 (8-10), SRSB-04 (12-14) SRSB-04 (14-16), SRSB-04 (16-18), SRSB-04 (18-20), SRSB-05 (0-2), SRSB-05

(2-4), SRSB-05 (14-16) and SRSB-05 (18-20), respectively, that exceeded the NYSDEC TAGM criterion of 50 mg/kg.

- Mercury was detected at a concentration of 0.58 mg/kg that exceeded the NYSDEC TAGM criterion of 0.2 mg/kg in soil sample SRSB-05 (0-2).

- Polychlorinated Biphenyls

  - Soil samples SRSB-03 (0-2) and SRSB-04 (0-2) exhibited total PCBs concentrations of 1,600 ug/kg and 3,000 ug/kg, respectively, that exceeded the NYSDEC TAGM criteria of 1,000 ug/kg respectively.

Surface Soil Samples

At the SRB, a total of 14 surface soil samples were collected during the RI field investigation program. Surface soil samples were analyzed as described above. The analytical results are presented in **Tables 2A** through **2D** in **Attachment 6** and are summarized as follows:

- Volatile Organic Compounds

  - Several VOCs were detected in all 14 soil samples but at concentrations that were below the NYSDEC TAGM criteria.

- Semivolatile Organic Compounds

  - Several individual SVOCs were detected in 13 soil samples at concentrations that exceeded the NYSDEC TAGM criteria. However, total CaPAHs were detected at concentrations of 26,990 ug/kg, 11,980 ug/kg, 13,060 ug/kg and 250,700 ug/kg which exceeded the NYSDEC TAGM criterion of 10,000 ug/kg for total CaPAHs in soil samples SRSS-09, SRSB-01SS, SRSB-04SS and SRSB-05SS, respectively.

- RCRA Metals

  - Arsenic was detected at a concentration of 37.1 mg/kg that exceeded the NYSDEC TAGM criterion of 12 mg/kg in soil sample SRSS-04.

- Chromium was detected at concentrations of 75.5 mg/kg, 352 mg/kg, 292 mg/kg, 389 mg/kg, 54.9 mg/kg and 587 mg/kg in soil samples SRSS-04, SRSS-05, SRSS-09, SRSB-01SS, SRSB-02SS and SRSB-05SS, respectively, that exceeded the NYSDEC TAGM criterion of 50 mg/kg.

- Lead was detected at a concentration of 789 mg/kg that exceeded the NYSDEC TAGM criterion of 500 mg/kg in soil sample SRSB-05SS.

- Mercury was detected at concentrations of 0.4 mg/kg, 0.37 mg/kg and 1.2 mg/kg in soil samples SRSS-09, SRSB-01SS and SRSB-05SS, respectively, that exceeded the NYSDEC TAGM criterion of 0.2 mg/kg.

- Polychlorinated Biphenyls

  - Soil sample SRSS-02 exhibited a total PCBs concentration of 1,300 ug/kg that exceeded the NYSDEC TAGM criterion of 1,000 ug/kg.

Sand Pile Samples

At the SRB, a total of 6 grab soil samples were collected during the RI field investigation program. Soil samples were analyzed as described above. The analytical results are presented in **Tables 3A** through **3D** in **Attachment 6** and are summarized as follows:

- Volatile Organic Compounds

  - Soil samples did not exhibit VOC concentrations that exceeded the NYSDEC TAGM criteria.

- Semivolatile Organic Compounds

  - Several individual SVOCs were detected in all 6 grab soil samples at concentrations that exceeded the NYSDEC TAGM criteria. However, total CaPAHs were detected at concentrations of 17,750 ug/kg, 24,640 ug/kg and 29,680 ug/kg which exceeded the NYSDEC TAGM criterion of 10,000 ug/kg for total CaPAHs in soil samples SRSP-02, SRSP-03 and SRSP-04, respectively.

- RCRA Metals

  - Soil samples did not exhibit RCRA metals concentrations that exceeded the NYSDEC TAGM criteria.

- Polychlorinated Biphenyls

  - Soil samples did not exhibit total PCBs concentrations that exceeded the NYSDEC TAGM criteria of 1,000/10,000 ug/kg.

Groundwater

One groundwater sample was collected from the monitoring well installed immediately downgradient of the SRB during the RI field investigation program. The groundwater sample was analyzed as described above. The analytical results are presented in **Tables 4A** through **4D** in **Attachment 6** and are summarized as follows:

- Volatile Organic Compounds

  - VOCs were detected in the groundwater sample but at concentrations that were below the NYSDEC groundwater standards.

- Semivolatile Organic Compounds

  - Groundwater sample SRMW-01 did not exhibit any SVOC exceedances of the NYSDEC groundwater standards.

- RCRA Metals

  - Arsenic was detected at a concentration of 104 ug/l in the unfiltered groundwater sample that exceeded the NYSDEC groundwater standard of 25 ug/l. Arsenic was not detected above the detection limit in the filtered groundwater sample.

  - Cadmium was detected at concentrations of 1,950 ug/l and 42.2 ug/l in the unfiltered and filtered groundwater samples that exceeded the NYSDEC groundwater standard of 5 ug/l, respectively.

- Chromium was detected at a concentration of 284 ug/l in the unfiltered groundwater sample that exceeded the NYSDEC groundwater standard of 50 ug/l. Chromium was detected at a concentration of 8.3 ug/l in the filtered groundwater sample.

- Lead was detected at a concentration of 138 ug/l in the unfiltered groundwater sample that exceeded the NYSDEC groundwater standard of 25 ug/l. Lead was not detected above the detection limit in the filtered groundwater sample.

• Polychlorinated Biphenyls

- Groundwater sample SRMW-01 did not exhibit total PCB exceedances of the NYSDEC groundwater standard.

TCLP Chromium Analysis

At the SRB, the soil samples that exhibited the five highest total chromium concentrations were analyzed for TCLP chromium. The analytical results are presented in **Tables 5** in **Attachment 6** and are summarized as follows:

• Chromium was not detected at concentrations exceeding the toxicity characteristic regulatory limit for chromium.

Recommendations

Based upon the preliminary SRB RI results presented above, additional sampling and analysis activities at the SRB do not appear to be warranted. As a result, NGC intends to backfill and formally close the South Receiving Basin in a manner consistent with the closure of the adjacent receiving basing located to the west of the SRB. In support of closure, NGC is proposing to remove the two ladders and concrete cap the influent and effluent pipes located within the SRB. NGC is also proposing to transfer the six sand piles to the SRB and backfill the SRB with clean bank-run sand. In addition, an engineered asphalt cap consisting of six inches of recycled concrete aggregate (RCA) and two inches of asphalt will be installed over the entire South Receiving Basin to eliminate the infiltration of water and the migration of any chemical constituents.

As part of formal closure of the SRB, a property deed restriction will be filed with the Nassau County Clerk's office that indicates the locations and concentrations of

constituents that exceed the NYSDEC TAGM criteria. The deed restriction will also stipulate that the engineered asphalt cap shall be maintained and that the State agencies must be notified prior to future soil removal activities. In addition, the deed restriction will limit future land use at the SRB to industrial/commercial and will prohibit residential land uses that may involve: persons other than employees staying over night; a hotel, nursing home or assisted living facility; or facilities involving children including a school, day care facility or outdoor recreation.

If you have any questions and/or comments, please do not hesitate to contact me at (516) 575-2333

Very truly yours,

Larry L. Leskovjan
Manager
Environmental, Safety, Health &
Medical Services
M/S: Z18-025

cc: B. Gilday (NYSDOH)
J. Cofman (NGC)
F. Weber (NGC)
R. Walka (D&B)
A. Postyn (D&B)
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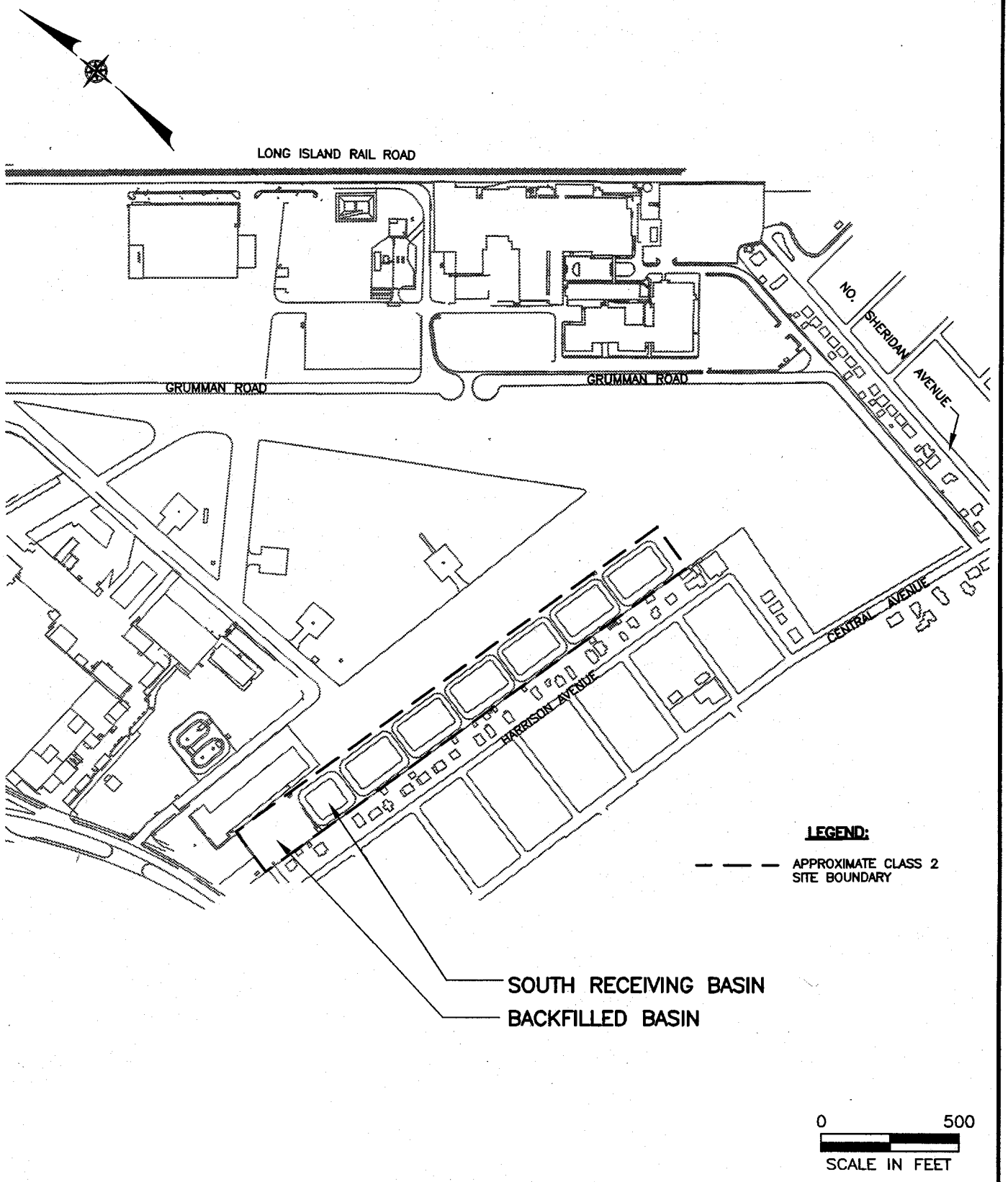
ATTACHMENT 1



NORTHROP GRUMMAN CORPORATION
BETHPAGE FACILITY
SOUTH RECEIVING BASIN

SITE LOCATION MAP

FIGURE 1

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

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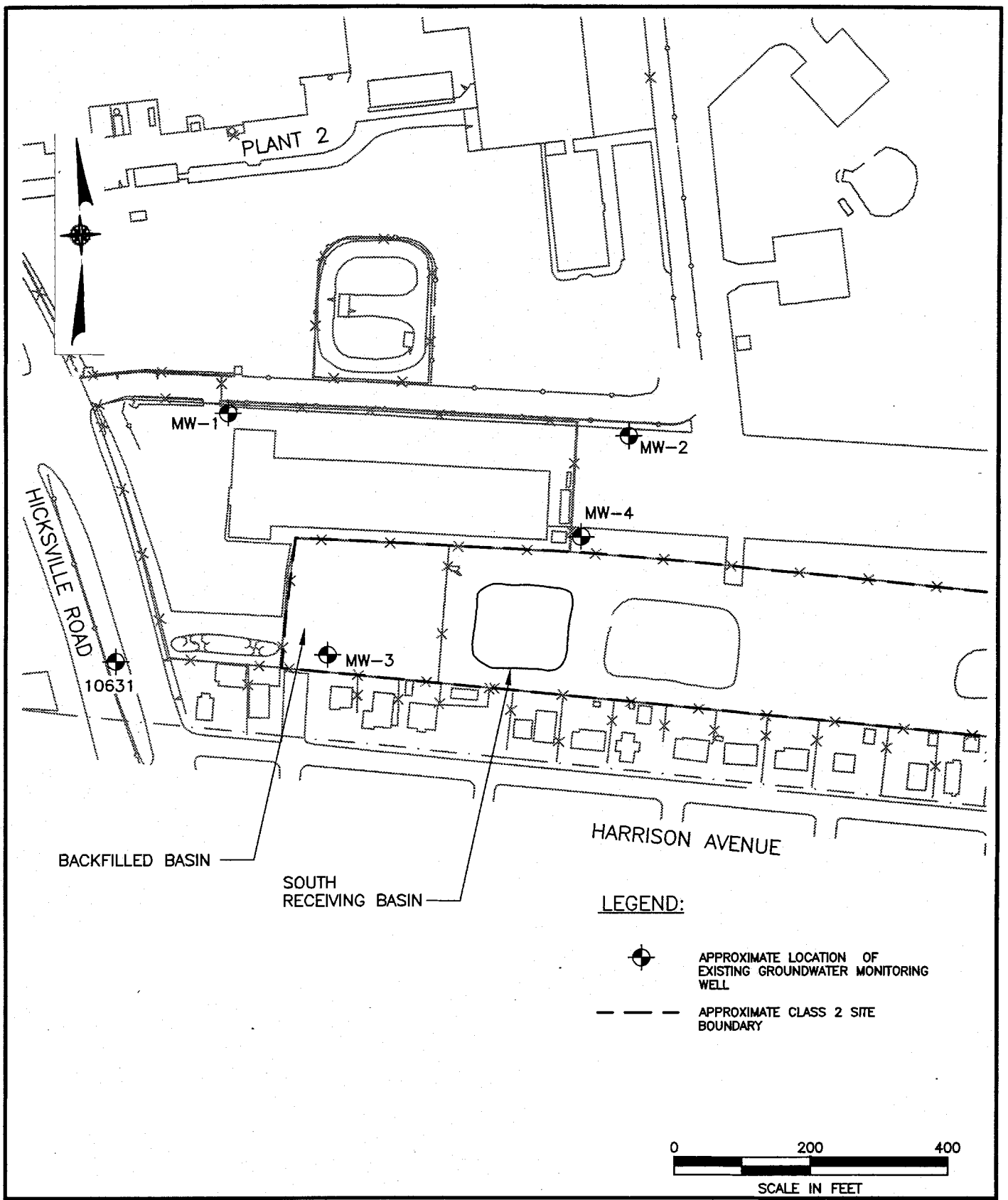
ATTACHMENT 2



NORTHROP GRUMMAN CORPORATION
BETHPAGE FACILITY
SOUTH RECEIVING BASIN

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

SITE PLAN

FIGURE 2

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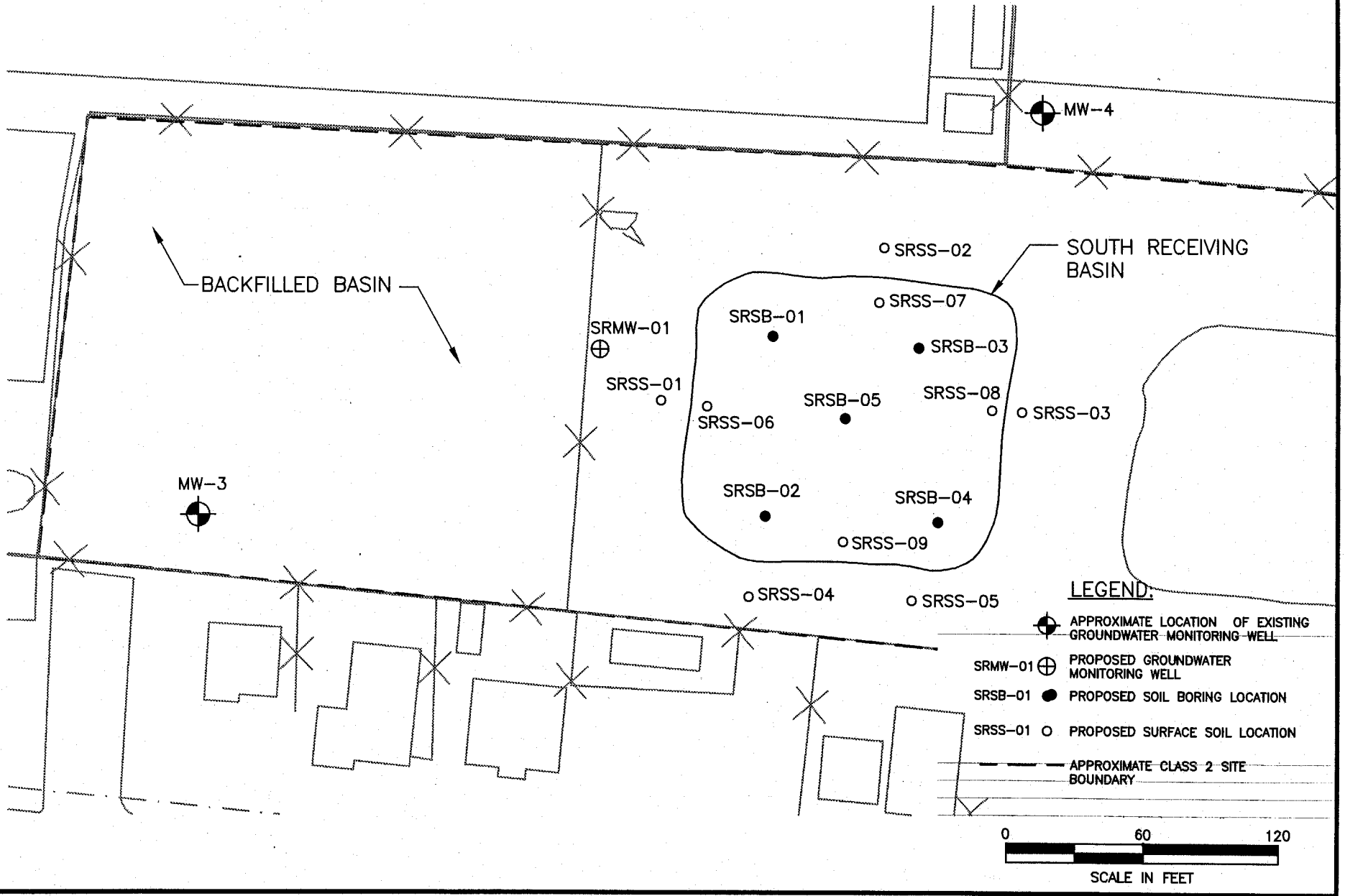
ATTACHMENT 3



NORTHROP GRUMMAN CORPORATION
BETHPAGE FACILITY
SOUTH RECEIVING BASIN

SAMPLE LOCATION MAP

FIGURE 3

Dvirka and Bartilucci CONSULTING ENGINEERS
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ATTACHMENT 4

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

Project No.: 1965-04 **Boring No.:** SRMW-01
Project Location: Hicksville, NY **Sheet** 1 **of** 1
Project Name: South Receiving Basin **By:** WF

Drilling Contractor: Clearwater
Driller: Bruce and Dennis Viglitta
Drill Rig: Hollow Stem Auger
Date Started: November 1, 2002

Geologist: Kristen Panella
Drilling Method: Hollow Stem Auger
Drive Hammer Weight: N/A
Date Finished: November 1, 2002

Boring Completion Depth: 54.7 ft
Ground Surface Elevation: -- ft.
Boring Diameter: 6 in.

Depth (ft.)	Soil Sample: Sample No.	Sample Type	Blows (Per 6")	Rec. (inches)	PID/ OVA (ppm)	Lithology Description
3-5	1	SS	--	12	0.0	brown, medium sand, trace pebbles, dry, no odor
9-11	2	SS	--	2	0.0	dark brown, medium sand, moist, no odor
14-16	3	SS	--	20	0.0	light brown, medium sand, moist, no odor
21-23	4	SS	--	20	0.0	light brown, coarse sand, trace pebbles, saturated, no odor
26-28	5	SS	--	2	0.0	light brown, coarse sand, trace pebbles, supersaturated, no odor
31-33	6	SS	--	12	0.0	light to dark brown sand, trace pebbles, some organic material, supersaturated, no odor
36-38	7	SS	--	2	0.0	dark brown, coarse sand, supersaturated, no odor, trace organic material
41-43	8	SS	--	12	0.0	dark to light brown, medium sand, trace pebbles, saturated, no odor
46-48	9	SS	--	12	0.0	light brown, fine sand, trace pebbles,supersaturated, no odor
51-53	10	SS		18	0.0	light brown, fine sand to silt, supersaturated, no odor

Sample Type:
SS = Split Spoon HA = Hand Auger GP = Geoprobe
CC = Concrete Core HP = Hydropunch

Notes:

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

Project No.: 1965-04 **Boring No.:** SRSB-01
Project Location: Hicksville, NY **Sheet** 1 **of** 1
Project Name: South Receiving Basin **By:** WF

Drilling Contractor: Zebra
Driller:
Drill Rig: 6600 tracked rig and ATV mounted
Date Started: October 28, 2002

Geologist: Warren Ferdinandsen
Drilling Method: Geoprobe
Drive Hammer Weight: N/A
Date Finished: October 31, 2002

Boring Completion Depth: 20 ft.
Ground Surface Elevation: -- ft.
Boring Diameter: .75 and 2 in.

Depth (ft.)	Soil Sample: Sample No.	Sample Type	Blows (Per 6")	Rec. (inches)	PID/ OVA (ppm)	Lithology Description
0-2	1	GP	--	24	0.0	topsoil in first 6" then orange sand with gravel, no odor
2-4	2	GP	--	18	0.0	orange sand and gravel, no odor
4-6	3	GP	--	24	0.0	orange brown sand, some gravel, no odor
6-8	4	GP	--	8	0.0	SAA
8-10	5	GP	--	24	0.0	orange brown sand with gravel, wet from recent rains, no odor
10-12	6	GP	--	24	0.0	SAA
12-14	7	GP	--	24	0.0	sandy, gravel, damp, orange brown in color, no odor
14-16	8	GP	--	10	0.0	dark brown silt with some sand/gravel, damp, no odor
16-18	9	GP	--	15/32	0.0	orange brown sand, some gravel, small diameter sampler used, resample on 10/31/2002 for SVOA and PCBs, no odor
18-20	10	GP	--	15/32	0.0	SAA

Sample Type:
SS = Split Spoon HA = Hand Auger GP = Geoprobe
CC = Concrete Core HP = Hydropunch

Notes:

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Project No.: 1965-04 **Boring No.:** SRSB-02
Project Location: Hicksville, NY **Sheet** 1 **of** 1
Project Name: South Receiving Basin **By:** WF

Drilling Contractor: Zebra
Driller:
Drill Rig: 6600 tracked rig and ATV mounted
Date Started: October 28, 2002

Geologist: Warren Ferdinandsen
Drilling Method: Geoprobe
Drive Hammer Weight: N/A
Date Finished: October 31, 2002

Boring Completion Depth: 20 ft.
Ground Surface Elevation: -- ft.
Boring Diameter: .75 and 2 in.

Depth (ft.)	Soil Sample No.	Soil Sample Type	Blows (Per 6")	Rec. (inches)	PID/ OVA (ppm)	Lithology Description
0-2	1	GP	--	24	0.0	orange to brown sand, some gravel, no odor
2-4	2	GP	--	6	0.0	orange to brown sand, some gravel, no odor
4-6	3	GP	--	24	0.0	orange/brown sand/gravel mix, no odor
6-8	4	GP	--	8	0.0	orange/brown sand/gravel mix, no odor
8-10	5	GP	--	24	0.0	brown/orange sand, some gravel, no odor
10-12	6	GP	--	4	0.0	brown/orange sand, some gravel, silt at bottom of recovered material, wet, no odor
12-14	7	GP	--	18	0.0	dark brown, plastic silt/sand with some gravel, no odor
14-16	8	GP	--	15	0.0	brown, sand with some gravel
16-18	9	GP	--	24	0.0	clean damp sands/gravel at bottom, brown silty, sand at top
18-20	10	GP	--	12	0.0	wet, brown silt/brown sand, refusal at 19', no odor

Sample Type:
SS = Split Spoon HA = Hand Auger GP = Geoprobe
CC = Concrete Core HP = Hydropunch

Notes:

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Project No.: 1965-04 **Boring No.:** SRSB-03
Project Location: Hicksville, NY **Sheet** 1 **of** 1
Project Name: South Receiving Basin **By:** WF

Drilling Contractor: Zebra
Driller:
Drill Rig: ATV mounted geoprobe
Date Started: October 29, 2002

Geologist: Warren Ferdinandsen
Drilling Method: Geoprobe
Drive Hammer Weight: N/A
Date Finished: October 29, 2002

Boring Completion Depth: 20 ft.
Ground Surface Elevation: -- ft.
Boring Diameter: .75 and 2 in.

Depth (ft.)	Soil Sample No.	Soil Sample Type	Blows (Per 6")	Rec. (inches)	PID/ OVA (ppm)	Lithology Description
0-2	1	GP	--	24	0.0	dark brown sandy soil, some gravel in first 13", then dark brown sand with some gravel, no odor
2-4	2	GP	--	9	0.0	orange sand, some gravel, no odor
4-6	3	GP	--	24	0.0	brown to orange sand with gravel, no odor
6-8	4	GP	--	15	0.0	SAA
8-10	5	GP	--	24	0.0	sand/gravel, orange, no odor
10-12	6	GP	--	11	0.0	brown sand/silt with some gravel, no odor
12-14	7	GP	--		0.0	liner shredded in sampler tube but good recovery, orange brown sand/gravel mix some silt, no odor, recovery amount cannot be estimated due to shredding of sample tube by gravel/rock pieces
14-16	8	GP	--		0.0	liner shredded in sampler tube but good recovery, orange brown sand/gravel mix some silt, no odor, recovery amount cannot be estimated due to shredding of sample tube by gravel/rock pieces
16-18	9	GP	--	24	0.0	orange sand/gravel (16'-17' 5") then gravel (17' 5" - 17' 7) then brown silt/sand (17' 7" - 18'), no odor
18-20	10	GP	--	24	0.0	wet, brown silt grading to brown sand in the bottom 6", no odor

Sample Type:
SS = Split Spoon HA = Hand Auger GP = Geoprobe
CC = Concrete Core HP = Hydropunch

Notes:

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CONSULTING ENGINEERS
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Project No.: 1965-04 **Boring No.:** SRSB-04
Project Location: Hicksville, NY **Sheet** 1 **of** 1
Project Name: South Receiving Basin **By:** WF

Drilling Contractor: Zebra
Driller:
Drill Rig: ATV mounted geoprobe
Date Started: October 29, 2002

Geologist: Warren Ferdinandsen
Drilling Method: Geoprobe
Drive Hammer Weight: N/A
Date Finished: October 31, 2002

Boring Completion Depth: 20 ft.
Ground Surface Elevation: -- ft.
Boring Diameter: .75 and 2 in.

Depth (ft.)	Soil Sample: Sample No.	Soil Sample: Sample Type	Soil Sample: Blows (Per 6")	Soil Sample: Rec. (inches)	PID/ OVA (ppm)	Lithology Description
0-2	1	GP	--	20	0.0	brown, wet silty soil with sand and gravel, no odor
2-4	2	GP	--	17	0.0	brown, wet silty soil with sand and gravel, no odor
4-6	3	GP	--	24	0.0	orange sand/gravel mix, liner jammed up, no odor
6-8	4	GP	--	4	0.0	liner jammed up, brown sand, no odor
8-10	5	GP	--	24	0.0	sand/gravel mix, well graded, no odor
10-12	6	GP	--	4	0.0	sand/gravel mix, well graded, no odor
12-14	7	GP	--	24	0.0	brown sand/silt/gravel mix, saturated due to inflow from pipe, no odor
14-16	8	GP	--	4	0.0	brown sand/silt/gravel mix, saturated due to inflow from pipe, no odor
16-18	9	GP	--	24	0.0	sand, yellow to orange to brown, some gravel, no odor
18-20	10	GP	--	2	0.0	sand, yellow to orange to brown, some gravel, no odor

Sample Type:
SS = Split Spoon HA = Hand Auger GP = Geoprobe
CC = Concrete Core HP = Hydropunch

Notes:

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

Project No.: 1965-04 **Boring No.:** SRSB-05
Project Location: Hicksville, NY **Sheet** 1 **of** 1
Project Name: South Receiving Basin **By:** WF

Drilling Contractor: Zebra
Driller:
Drill Rig: ATV mounted probe/6600 tracked rig
Date Started: October 28, 2002

Geologist: Warren Ferdinandsen
Drilling Method: Geoprobe
Drive Hammer Weight: N/A
Date Finished: October 31, 2002

Boring Completion Depth: 42 ft.
Ground Surface Elevation: -- ft.
Boring Diameter: .75 and 2 in.

Depth (ft.)	Soil Sample: Sample No.	Sample Type	Blows (Per 6")	Rec. (inches)	PID/ OVA (ppm)	Lithology Description
0-2	1	GP	--	24	0.0	black, silty organics, then gravelly sand, orange to brown in color, no odor
2-4	2	GP	--	8	0.0	gravelly sand, orange to brown in color, no odor
4-6	3	GP	--	24	0.0	orange sand with gravel, no odor
6-8	4	GP	--	16	0.0	SAA
8-10	5	GP	--	24	0.0	SAA
10-12	6	GP	--	20	0.0	SAA
12-14	7	GP	--	20	0.0	6" silt, dark brown, then orange sand, no odor
14-16	8	GP	--	16	0.0	orange sand, no odor
16-18	9	GP	--	24	0.0	orange/brown sand with gravel, no odor
18-20	10	GP	--	18	0.0	SAA
25-27	11	GP		18	0.0	fine, yellow sand, damp, w/intermixed gravel, no odor
30-32	12	GP		24	0.0	light brown, fine sand to silt, supersaturated, no odor
35-37	13	GP		24	0.0	SAA
40-42	14	GP		24	0.0	SAA

Sample Type:
SS = Split Spoon HA = Hand Auger GP = Geoprobe
CC = Concrete Core HP = Hydropunch

Notes: Macro and Micro cores used for sampling as Macro sampler broke off on first day of sampling

ATTACHMENT 5

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN RI

WELL CONSTRUCTION LOG

WELL No.: SR MW-01

SITE: NGC-SRB

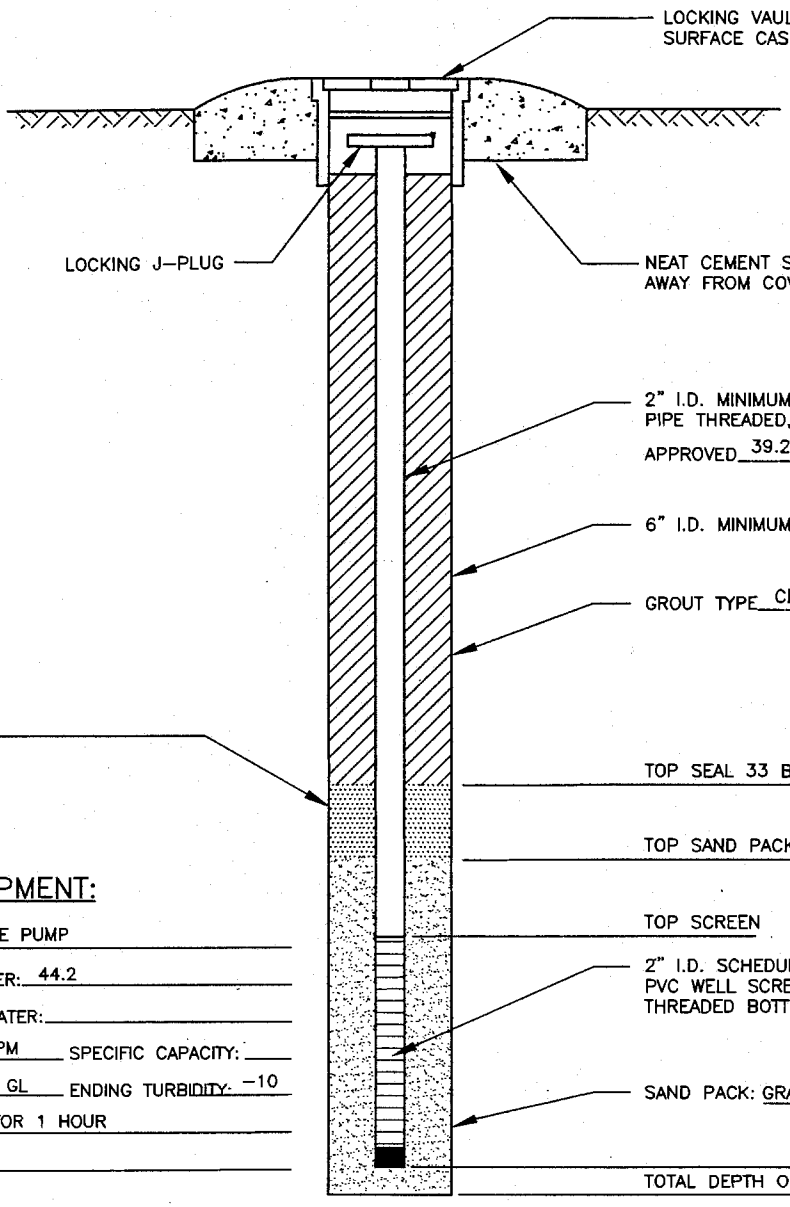
DRILLING COMPANY: CLEAR WATER

DATE STARTED: 11/01/02 DATE COMPLETED: 11/01/02

DRILLING METHOD: HOLLOW STEM AUGER

BOREHOLE DIAMETER: 6 IN TOTAL BOREHOLE DEPTH: 54.7 FT.

TOTAL WELL DEPTH: 54.2 FT. DEPTH TO WATER: 44.2 FT. BELOW TOC.



WELL DEVELOPMENT:

METHOD: SUBMERSIBLE PUMP

STATIC DEPTH TO WATER: 44.2

PUMPING DEPTH TO WATER:

PUMPING RATE: 1.8 GPM SPECIFIC CAPACITY:

VOLUME PUMPED: 110 GL ENDING TURBIDITY: -10

COMMENTS: PUMPED FOR 1 HOUR

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

PLAN FOR CONSTRUCTION OF MONITORING WELLS WITH FLUSH MOUNT LOCKING VAULT

\\N4\CADwork\1965\1965-08.dwg, 11/19/02 02:28:10 PM, APostyn

ATTACHMENT 6

TABLE 1A

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-01 (0-2)	SRSB-01 (4-6)	SRSB-01 (6-8)	SRSB-01 (8-10)	SRSB-01 (10-12)	SRSB-01 (12-14)	SRSB-01 (14-16)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	0-2	4-6	6-8	8-10	10-12	12-14	14-16	
Sampling Date	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	
% Solids	95	89	89	89	89	90	84	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	U	400
Acetone	10	10	21	14	14	11	18	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	3 J	5 J	2,700
Methylene Chloride	2 J	3 J	5 J	3 J	2 J	2 J	6	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	4 J	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	1 J	U	U	68	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	U	4 J	4 J	10	3 J	2 J	1 J	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	U	3 J	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	1 J	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-01 (0-2)	SRSB-01 (4-6)	SRSB-01 (6-8)	SRSB-01 (8-10)	SRSB-01 (10-12)	SRSB-01 (12-14)	SRSB-01 (14-16)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	0-2	4-6	6-8	8-10	10-12	12-14	14-16	
Sampling Date	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	
% Solids	95	89	89	89	89	90	84	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	4 J	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	1 J	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	2 J	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	4 J	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	12	17	30	29	19	18	116	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-01 (16-18)	SRSB-01 (18-20)	SRSB-02 (0-2)	SRSB-02 (2-4)	SRSB-02 (4-6)	SRSB-02 (6-8)	SRSB-02 (8-10)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	16-18	18-20	0-2	2-4	4-6	6-8	8-10	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	98	98	96	85	89	93	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U		U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	1 J	U	U	U	---
Chloroethane	U	U	U	1 J	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	U	400
Acetone	11	11	U	U	11	22	10	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	U	U	2,700
Methylene Chloride	1 J	2 J	4 J	4 J	5 J	3 J	4 J	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	2 J	3 J	1 J	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	U	5 J	U	6	13	6	7	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	1 J	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	2 J	U	2 J	2 J	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-01 (16-18)	SRSB-01 (18-20)	SRSB-02 (0-2)	SRSB-02 (2-4)	SRSB-02 (4-6)	SRSB-02 (6-8)	SRSB-02 (8-10)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	16-18	18-20	0-2	2-4	4-6	6-8	8-10	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	98	98	96	85	89	93	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	1 J	U	U	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	1 J	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	1 J	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	12	20	4	20	34	32	21	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-02 (10-12)	SRSB-02 (12-14)	SRSB-02 (14-16)	SRSB-02 (16-18)	SRSB-02 (18-20)	SRSB-03 (0-2)	SRSB-03 (2-4)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	10-12	12-14	14-16	16-18	18-20	0-2	2-4	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/29/02	10/29/02	
% Solids	88	89	91	86	97	93	90	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	U	400
Acetone	15	U	U	8	U	U	U	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	U	U	2,700
Methylene Chloride	2 J	4 J	5 J	4 J	4 J	2 JB	2 JB	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	7	5 J	U	3 J	U	U	U	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	2 J	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-02 (10-12)	SRSB-02 (12-14)	SRSB-02 (14-16)	SRSB-02 (16-18)	SRSB-02 (18-20)	SRSB-03 (0-2)	SRSB-03 (2-4)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	10-12	12-14	14-16	16-18	18-20	0-2	2-4	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/29/02	10/29/02	
% Solids	88	89	91	86	97	93	90	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	1 J	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	24	9	5	17	4	3	2	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-03 (4-6)	SRSB-03 (6-8)	SRSB-03 (8-10)	SRSB-03 (10-12)	SRSB-03 (12-14)	SRSB-03 (14-16)	SRSB-03 (16-18)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	4-6	6-8	8-10	10-12	12-14	14-16	16-18	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	91	93	86	86	89	89	91	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	U	400
Acetone	6	10	35	14	27	U	10	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	1 J	U	2 J	2 J	2,700
Methylene Chloride	2 JB	2 JB	4 J	2 JB	2 J	3 JB	3 J	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	1 J	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	U	U	U	U	2 J	U	U	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	2 J	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	U	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-03 (4-6)	SRSB-03 (6-8)	SRSB-03 (8-10)	SRSB-03 (10-12)	SRSB-03 (12-14)	SRSB-03 (14-16)	SRSB-03 (16-18)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	4-6	6-8	8-10	10-12	12-14	14-16	16-18	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	91	93	86	86	89	89	91	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	1 J	U	U	U	U	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	2 J	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	2 J	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	8	13	39	20	31	5	19	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-03 (18-20)	SRSB-04 (0-2)	SRSB-04 (2-4)	SRSB-04 (4-6)	SRSB-04 (6-8)	SRSB-04 (8-10)	SRSB-04 (10-12)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	18-20	0-2	2-4	4-6	6-8	8-10	10-12	
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	82	89	89	92	91	88	88	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	2 J	U	U	U	400
Acetone	U	9	110	35	U	U	U	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	2 J	U	3 J	2 J	U	U	U	2,700
Methylene Chloride	4 JB	2 JB	2 JB	2 JB	2 JB	2 JB	2 JB	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	25	8	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	1 J	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	13	U	U	1 J	U	U	U	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	2 J	U	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	3 J	U	U	U	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-03 (18-20)	SRSB-04 (0-2)	SRSB-04 (2-4)	SRSB-04 (4-6)	SRSB-04 (6-8)	SRSB-04 (8-10)	SRSB-04 (10-12)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	18-20	0-2	2-4	4-6	6-8	8-10	10-12	
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	82	89	89	92	91	88	88	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	1 J	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	2 J	2 J	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	11	15	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	3 J	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	22	11	155	72	2	2	2	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-04 (12-14)	SRSB-04 (14-16)	SRSB-04 (16-18)	SRSB-04 (18-20)	SRSB-05 (0-2)	SRSB-05 (2-4)	SRSB-05 (4-6)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	12-14	14-16	16-18	18-20	0-2	2-4	4-6	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	82	83	93	95	92	95	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	2 J	U	U	U	U	U	400
Acetone	U	33	13	10	17	12	21	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	2 J	U	U	U	U	U	2,700
Methylene Chloride	3 JB	3 JB	3 J	3 J	5 J	2 J	3 J	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	1 J	6	U	U	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	8	140	16	U	U	U	U	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	2 J	38	6	U	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-04 (12-14)	SRSB-04 (14-16)	SRSB-04 (16-18)	SRSB-04 (18-20)	SRSB-05 (0-2)	SRSB-05 (2-4)	SRSB-05 (4-6)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	12-14	14-16	16-18	18-20	0-2	2-4	4-6	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	82	83	93	95	92	95	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	2 J	2 J	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	10	9	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	3 J	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	26	235	41	13	22	14	24	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-05 (6-8)	SRSB-05 (8-10)	SRSB-05 (12-14)	SRSB-05 (14-16)	SRSB-05 (16-18)	SRSB-05 (18-20)	SRSB-05 (25-27)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	6-8	8-10	12-14	14-16	16-18	18-20	25-27	
Sampling Date	10/28/02	10/28/02	10/28/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	90	86	85	72	97	96	86	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	2 J	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	U	400
Acetone	11	24	23	U	13	62	U	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	2 J	U	2,700
Methylene Chloride	6	6	6	2 J	3 J	3 J	2 J	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	14	U	300
cis-1,2-Dichloroethene	U	U	U	U	U	9	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	U	2 J	U	U	U	2 J	U	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	3 J	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	U	U	1 J	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-05 (6-8)	SRSB-05 (8-10)	SRSB-05 (12-14)	SRSB-05 (14-16)	SRSB-05 (16-18)	SRSB-05 (18-20)	SRSB-05 (25-27)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	6-8	8-10	12-14	14-16	16-18	18-20	25-27	
Sampling Date	10/28/02	10/28/02	10/28/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	90	86	85	72	97	96	86	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	17	32	29	2	16	98	2	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-05 (30-32)	SRSB-05 (35-37)	SRSB-05 (40-42)					NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	30-32	35-37	40-42					
Sampling Date	11/1/02	11/1/02	11/1/02					
% Solids	84	85	85					
Dilution Factor	1.0	1.0	1.0					
Units	ug/kg	ug/kg	ug/kg					ug/kg
Dichlorodifluoromethane	U	U	U					---
Chloromethane	U	U	U					---
Vinyl Chloride	U	U	U					200
Bromomethane	U	U	U					---
Chloroethane	U	U	U					1,900
Trichlorofluoromethane	U	U	U					---
1,1-Dichloroethene	U	U	U					400
Acetone	14	7	7					200
Iodomethane	U	U	U					---
Carbon Disulfide	U	U	U					2,700
Methylene Chloride	4 J	4 J	4 J					100
trans-1,2-Dichloroethene	U	U	U					---
Methyl tert-butyl ether	U	U	U					
1,1-Dichloroethane	U	U	U					200
Vinyl Acetate	U	U	U					---
2-Butanone	U	U	U					300
cis-1,2-Dichloroethene	U	U	U					---
2,2-Dichloropropane	U	U	U					---
Bromochloromethane	U	U	U					---
Chloroform	U	U	U					300
1,1,1-Trichloroethane	U	U	U					800
1,1-Dichloropropene	U	U	U					---
Carbon Tetrachloride	U	U	U					600
1,2-Dichloroethane	U	U	U					100
Benzene	U	U	U					60
Trichloroethene	U	U	U					700
1,2-Dichloropropane	U	U	U					---
Dibromomethane	U	U	U					---
Bromodichloromethane	U	U	U					---
cis-1,3-Dichloropropene	U	U	U					---
4-Methyl-2-pentanone	U	U	U					1,000
Toluene	U	U	U					1,500
trans-1,3-Dichloropropene	U	U	U					---
1,1,2-Trichloroethane	U	U	U					---
1,3-Dichloropropane	U	U	U					300
Tetrachloroethene	U	U	U					1,400
2-Hexanone	U	U	U					---

TABLE 1A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSB-05 (30-32)	SRSB-05 (35-37)	SRSB-05 (40-42)					NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	30-32	35-37	40-42					
Sampling Date	11/1/02	11/1/02	11/1/02					
% Solids	84	85	85					
Dilution Factor	1.0	1.0	1.0					
Units	ug/kg	ug/kg	ug/kg					ug/kg
Dibromochloromethane	U	U	U					---
1,2-Dibromoethane	U	U	U					---
Chlorobenzene	U	U	U					1,700
1,1,2,2-Tetrachloroethane	U	U	U					600
Ethylbenzene	U	U	U					5,500
Xylene (total)	U	U	U					1,200
Styrene	U	U	U					---
Bromoform	U	U	U					---
Isopropylbenzene	U	U	U					---
1, 1, 2, 2-Tetrachloroethene	U	U	U					600
Bromobenzene	U	U	U					---
1, 2, 3 -Trichloropropane	U	U	U					400
n-Propylbenzene	U	U	U					---
2-Chlorotoluene	U	U	U					---
1,3,5-Trimethylbenzene	U	U	U					---
4-Chlorotoluene	U	U	U					---
tert-Butylbenzene	U	U	U					---
1,2,4-Trimethylbenzene	U	U	U					---
sec-Butylbenzene	U	U	U					---
4-Isopropyltoluene	U	U	U					---
1,3-Dichlorobenzene	U	U	U					1,600
1,4-Dichlorobenzene	U	U	U					8,500
n-Butylbenzene	U	U	U					---
1,2-Dichlorobenzene	U	U	U					7,900
1,2-Dibromo-3-chloropropane	U	U	U					---
1,2,4-Trichlorobenzene	U	U	U					3,400
Hexachlorobutadiene	U	U	U					---
Naphthalene	U	U	U					13,000
1,2,3-Trichlorobenzene	U	U	U					---
Total VOCs	18	11	11					10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 1B

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-01 (0-2)	SRSB-01 (4-6)	SRSB-01 (6-8)	SRSB-01 (8-10)	SRSB-01 (10-12)	SRSB-01 (12-14)	SRSB-01 (14-16)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	0-2	4-6	6-8	8-10	10-12	12-14	14-16	
Sampling Date	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	
% Solids	95	89	89	89	89	90	84	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	---
1,4-Dichlorobenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	---
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	---
Naphthalene	U	88 J	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	53 J	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	98 J	240 J	U	U	U	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	40 J	100 J	U	U	U	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-01 (0-2)	SRSB-01 (4-6)	SRSB-01 (6-8)	SRSB-01 (8-10)	SRSB-01 (10-12)	SRSB-01 (12-14)	SRSB-01 (14-16)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	0-2	4-6	6-8	8-10	10-12	12-14	14-16	
Sampling Date	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	
% Solids	95	89	89	89	89	90	84	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	71 J	180 J	U	U	U	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	640	1,300	U	U	U	U	U	50,000
Anthracene	130 J	380	U	U	U	U	U	50,000
Carbazole	100 J	230 J	U	U	U	U	U	---
Di-n-butylphthalate	U	U	U	U	U	U	U	8,100
Fluoranthene	1,000	1,500	U	U	U	U	U	50,000
Pyrene	1,000	1,600	U	U	U	37 J	U	50,000
Butylbenzylphthalate	110 J	63 J	U	U	U	U	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	**500**	**920**	U	U	U	U	U	224
Chrysene	**640**	**930**	U	U	U	U	U	400
bis(2-Ethylhexyl)phthalate	370	1,100	55 J	280 J	53 J	930	620	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	**860**	**1,200**	U	U	U	U	U	224
Benzo(k)fluoranthene	**380**	**540**	U	U	U	U	U	224
Benzo(a)pyrene	**560**	**870**	U	U	U	U	U	61
Indeno(1,2,3-cd)pyrene	310 J	400	U	U	U	U	U	3,200
Dibenzo(a,h)anthracene	**94 J**	**130 J**	U	U	U	U	U	14
Benzo(g,h,i)perylene	290 J	370	U	U	U	U	U	50,000
Total Carcinogenic PAHs	3,344	4,990	0	0	0	0	0	10,000
Total PAHs	6,613	10,801	0	0	0	37	0	100,000
Total SVOCs	7,193	12,194	55	280	53	967	620	500,000

Qualifiers
U: The compound was analyzed for, but not detected
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes
Bold: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-01 (16-18)	SRSB-01 (18-20)	SRSB-02 (0-2)	SRSB-02 (2-4)	SRSB-02 (4-6)	SRSB-02 (6-8)	SRSB-02 (8-10)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	16-18	18-20	0-2	2-4	4-6	6-8	8-10	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	98	98	96	85	89	93	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	---
1,4-Dichlorobenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	---
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	350 J	U	---
Hexachloroethane	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	490	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	U	U	U	U	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	U	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-01 (16-18)	SRSB-01 (18-20)	SRSB-02 (0-2)	SRSB-02 (2-4)	SRSB-02 (4-6)	SRSB-02 (6-8)	SRSB-02 (8-10)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	16-18	18-20	0-2	2-4	4-6	6-8	8-10	
Sampling Date	10/28/02	10/28/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	98	98	96	85	89	93	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	450	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	U	U	U	U	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	53 J	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	U	U	U	U	U	U	U	50,000
Anthracene	U	U	U	U	U	U	U	50,000
Carbazole	U	U	U	U	U	U	U	---
Di-n-butylphthalate	U	U	U	U	U	U	U	8,100
Fluoranthene	U	U	U	U	U	U	U	50,000
Pyrene	U	U	U	U	U	U	U	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	U	U	U	U	U	U	U	224
Chrysene	U	U	U	U	U	U	U	400
bis(2-Ethylhexyl)phthalate	47 J	56 J	U	U	U	U	46 J	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	U	U	U	U	U	U	224
Benzo(k)fluoranthene	U	U	U	U	U	U	U	224
Benzo(a)pyrene	U	U	U	U	U	U	U	61
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	3,200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	14
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	50,000
Total Carcinogenic PAHs	0	0	0	0	0	0	0	10,000
Total PAHs	0	0	0	0	0	0	0	100,000
Total SVOCs	47	56	0	0	0	1,343	46	500,000

Qualifiers

U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes

: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-02 (10-12)	SRSB-02 (12-14)	SRSB-02 (14-16)	SRSB-02 (16-18)	SRSB-02 (18-20)	SRSB-03 (0-2)	SRSB-03 (2-4)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	10-12	12-14	14-16	16-18	18-20	0-2	2-4	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/29/02	10/29/02	
% Solids	88	89	91	86	97	93	90	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	---
1,4-Dichlorobenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	---
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	U	U	U	U	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	U	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-02 (10-12)	SRSB-02 (12-14)	SRSB-02 (14-16)	SRSB-02 (16-18)	SRSB-02 (18-20)	SRSB-03 (0-2)	SRSB-03 (2-4)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	10-12	12-14	14-16	16-18	18-20	0-2	2-4	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/29/02	10/29/02	
% Solids	88	89	91	86	97	93	90	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	U	U	U	U	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	U	42 J	U	U	U	160 J	150 J	50,000
Anthracene	U	U	U	U	U	U	U	50,000
Carbazole	U	U	U	U	U	U	U	---
Di-n-butylphthalate	U	U	U	U	U	U	U	8,100
Fluoranthene	U	56 J	U	U	U	250 J	330 J	50,000
Pyrene	U	49 J	U	U	U	200 J	270 J	50,000
Butylbenzylphthalate	U	U	U	U	U	38 J	190 J	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	U	U	U	U	U	97 J	130 J	224
Chrysene	U	U	U	U	U	120 J	170 J	400
bis(2-Ethylhexyl)phthalate	71 J	37 J	42 J	46 J	40 J	69 J	360 J	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	60 J	U	U	U	120 J	210 J	224
Benzo(k)fluoranthene	U	U	U	U	U	71 J	110 J	224
Benzo(a)pyrene	U	U	U	U	U	**87 J**	**140 J**	61
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	53 J	91 J	3,200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	14
Benzo(g,h,i)perylene	U	U	U	U	U	60 J	100 J	50,000
Total Carcinogenic PAHs	0	60	0	0	0	548	851	10,000
Total PAHs	0	207	0	0	0	1,218	1,701	100,000
Total SVOCs	71	244	42	46	40	1,325	2,251	500,000

Qualifiers
U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes
Bold: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-03 (4-6)	SRSB-03 (6-8)	SRSB-03 (8-10)	SRSB-03 (10-12)	SRSB-03 (12-14)	SRSB-03 (14-16)	SRSB-03 (16-18)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	4-6	6-8	8-10	10-12	12-14	14-16	16-18	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	91	93	86	86	89	89	91	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	--
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	--
1,4-Dichlorobenzene	U	U	U	U	U	U	U	--
1,2-Dichlorobenzene	U	U	U	U	U	U	U	--
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	--
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	--
Hexachloroethane	U	U	U	U	U	U	U	--
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	--
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	--
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	--
Naphthalene	U	U	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	--
Hexachlorobutadiene	U	U	U	U	U	U	U	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	--
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	--
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	--
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	U	U	U	U	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	--
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	U	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-03 (4-6)	SRSB-03 (6-8)	SRSB-03 (8-10)	SRSB-03 (10-12)	SRSB-03 (12-14)	SRSB-03 (14-16)	SRSB-03 (16-18)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	4-6	6-8	8-10	10-12	12-14	14-16	16-18	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	91	93	86	86	89	89	91	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	U	U	U	U	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	U	U	U	U	U	U	U	50,000
Anthracene	U	U	U	U	U	U	U	50,000
Carbazole	U	U	U	U	U	U	U	---
Di-n-butylphthalate	U	U	U	41 J	U	U	U	8,100
Fluoranthene	U	U	U	U	U	U	U	50,000
Pyrene	U	U	U	U	U	U	U	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	U	U	U	U	U	U	U	224
Chrysene	U	U	U	U	U	U	U	400
bis(2-Ethylhexyl)phthalate	62 J	U	40 J	57 J	240 J	330 J	64 J	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	U	U	U	U	U	U	224
Benzo(k)fluoranthene	U	U	U	U	U	U	U	224
Benzo(a)pyrene	U	U	U	U	U	U	U	61
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	3,200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	14
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	50,000
Total Carcinogenic PAHs	0	0	0	0	0	0	0	10,000
Total PAHs	0	0	0	0	0	0	0	100,000
Total SVOCs	62	0	40	98	240	330	64	500,000

Qualifiers
U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes
: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-03 (18-20)	SRSB-04 (0-2)	SRSB-04 (2-4)	SRSB-04 (4-6)	SRSB-04 (6-8)	SRSB-04 (8-10)	SRSB-04 (10-12)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	18-20	0-2	2-4	4-6	6-8	8-10	10-12	
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	82	89	89	92	91	88	88	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	58 J	110 J	U	U	U	---
1,4-Dichlorobenzene	U	140 J	58 J	110 J	U	U	U	---
1,2-Dichlorobenzene	U	400	64 J	120 J	U	U	U	---
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	48 J	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	400	360	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	94 J	U	U	U	U	U	---
Naphthalene	U	65 J	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	39 J	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	120 J	U	60 J	U	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	49 J	U	U	U	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-03 (18-20)	SRSB-04 (0-2)	SRSB-04 (2-4)	SRSB-04 (4-6)	SRSB-04 (6-8)	SRSB-04 (8-10)	SRSB-04 (10-12)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	18-20	0-2	2-4	4-6	6-8	8-10	10-12	
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	
% Solids	82	89	89	92	91	88	88	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	470	470	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	100 J	U	51 J	U	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	71 J	U	40 J	U	U	U	1,000
Phenanthrene	U	860	230 J	470	140 J	U	U	50,000
Anthracene	U	180 J	52 J	94 J	U	U	U	50,000
Carbazole	U	130 J	39 J	80 J	U	U	U	---
Di-n-butylphthalate	U	U	U	U	U	U	U	8,100
Fluoranthene	92 J	1,500	520	920	220 J	50 J	U	50,000
Pyrene	78 J	1,200	420	720	180 J	41 J	U	50,000
Butylbenzylphthalate	U	1,000	290 J	470	150 J	U	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	44 J	**620**	**230 J**	**390**	100 J	U	U	224
Chrysene	54 J	**700**	290 J	**500**	120 J	U	U	400
bis(2-Ethylhexyl)phthalate	40 J	3,800	1,100	1,700	390	460	80 J	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	51 J	**750**	**350 J**	**560**	150 J	U	U	224
Benzo(k)fluoranthene	U	**440**	150 J	**230 J**	72 J	U	U	224
Benzo(a)pyrene	U	**560**	**230 J**	**380**	**110 J**	U	U	61
Indeno(1,2,3-cd)pyrene	U	310 J	150 J	260 J	84 J	U	U	3,200
Dibenzo(a,h)anthracene	U	**86 J**	U	**67 J**	U	U	U	14
Benzo(g,h,i)perylene	U	320 J	150 J	250 J	76 J	U	U	50,000
Total Carcinogenic PAHs	149	3,466	1,400	2,387	636	0	0	10,000
Total PAHs	319	7,899	2,772	4,952	1,252	91	0	100,000
Total SVOCs	359	13,534	5,299	8,412	1,792	551	80	500,000

Qualifiers
U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes
Bold: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-04 (12-14)	SRSB-04 (14-16)	SRSB-04 (16-18)	SRSB-04 (18-20)	SRSB-05 (0-2)	SRSB-05 (2-4)	SRSB-05 (4-6)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	12-14	14-16	16-18	18-20	0-2	2-4	4-6	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	82	83	93	95	92	95	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	42 J	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	---
1,4-Dichlorobenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	57 J	U	U	---
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	110 J	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	62 J	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	180 J	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	U	U	U	330 J	U	78 J	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	120 J	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-04 (12-14)	SRSB-04 (14-16)	SRSB-04 (16-18)	SRSB-04 (18-20)	SRSB-05 (0-2)	SRSB-05 (2-4)	SRSB-05 (4-6)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	12-14	14-16	16-18	18-20	0-2	2-4	4-6	
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	82	83	93	95	92	95	89	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	U	U	U	220 J	U	57 J	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	U	U	77 J	U	1,900	U	420	50,000
Anthracene	U	U	U	U	420	U	110 J	50,000
Carbazole	U	U	U	U	270 J	U	70 J	---
Di-n-butylphthalate	U	U	U	U	86 J	U	U	8,100
Fluoranthene	U	U	150 J	U	2,200	U	510	50,000
Pyrene	U	U	120 J	U	3,100	U	440	50,000
Butylbenzylphthalate	U	U	45 J	U	680	U	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	U	U	56 J	U	**1,200**	U	210 J	224
Chrysene	U	U	80 J	U	**1,400**	U	230 J	400
bis(2-Ethylhexyl)phthalate	48 J	U	320 J	U	1,600	42 J	84 J	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	U	100 J	U	**2,000**	U	**240 J**	224
Benzo(k)fluoranthene	U	U	45 J	U	**980**	U	130 J	224
Benzo(a)pyrene	U	U	**62 J**	U	**1,300**	U	**190 J**	61
Indeno(1,2,3-cd)pyrene	U	U	42 J	U	520	U	97 J	3,200
Dibenzo(a,h)anthracene	U	U	U	U	**150 J**	U	U	14
Benzo(g,h,i)perylene	U	U	39 J	U	530	U	96 J	50,000
Total Carcinogenic PAHs	0	0	385	0	7,550	0	1,097	10,000
Total PAHs	0	0	771	0	16,542	0	2,808	100,000
Total SVOCs	48	0	1,136	0	19,457	42	2,962	500,000

Qualifiers
U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes
Bold: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-05 (6-8)	SRSB-05 (8-10)	SRSB-05 (12-14)	SRSB-05 (14-16)	SRSB-05 (16-18)	SRSB-05 (18-20)	SRSB-05 (25-27)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	6-8	8-10	12-14	14-16	16-18	18-20	25-27	
Sampling Date	10/28/02	10/28/02	10/28/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	90	86	85	72	97	96	86	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	--
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	--
1,4-Dichlorobenzene	U	U	U	U	U	U	U	--
1,2-Dichlorobenzene	U	U	U	U	U	U	U	--
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	--
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	--
Hexachloroethane	U	U	U	U	U	U	U	--
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	--
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	--
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	--
Naphthalene	U	U	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	--
Hexachlorobutadiene	U	U	U	U	U	U	U	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	--
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	--
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	--
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	U	U	U	U	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	--
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	U	U	U	6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-05 (6-8)	SRSB-05 (8-10)	SRSB-05 (12-14)	SRSB-05 (14-16)	SRSB-05 (16-18)	SRSB-05 (18-20)	SRSB-05 (25-27)	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	6-8	8-10	12-14	14-16	16-18	18-20	25-27	
Sampling Date	10/28/02	10/28/02	10/28/02	10/31/02	10/28/02	10/28/02	10/28/02	
% Solids	90	86	85	72	97	96	86	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	U	U	U	U	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	U	U	60 J	78 J	U	U	U	50,000
Anthracene	U	U	U	U	U	U	U	50,000
Carbazole	U	U	U	U	U	U	U	---
Di-n-butylphthalate	U	U	U	U	U	U	U	8,100
Fluoranthene	U	U	89 J	110 J	U	37 J	U	50,000
Pyrene	U	U	79 J	87 J	U	U	U	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	U	U	U	48 J	U	U	U	224
Chrysene	U	U	U	53 J	U	U	U	400
bis(2-Ethylhexyl)phthalate	U	38 J	83 J	74 J	U	58 J	U	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	U	56 J	U	U	U	U	224
Benzo(k)fluoranthene	U	U	U	U	U	U	U	224
Benzo(a)pyrene	U	U	U	U	U	U	U	61
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	3,200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	14
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	50,000
Total Carcinogenic PAHs	0	0	56	101	0	0	0	10,000
Total PAHs	0	0	284	376	0	37	0	100,000
Total SVOCs	0	38	367	450	0	95	0	500,000

Qualifiers

U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes

: Result exceeds Comparison Value.
---: Not established.

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-05 (30-32)	SRSB-05 (35-37)	SRSB-05 (40-42)					NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	30-32	35-37	40-42					
Sampling Date	11/1/02	11/1/02	11/1/02					
% Solids	84	85	85					
Dilution Factor	1.0	1.0	1.0					
Units	ug/kg	ug/kg	ug/kg					ug/kg
Phenol	U	U	U					30
bis(2-Chloroethyl)ether	U	U	U					--
2-Chlorophenol	U	U	U					800
1,3-Dichlorobenzene	U	U	U					--
1,4-Dichlorobenzene	U	U	U					--
1,2-Dichlorobenzene	U	U	U					--
2-Methylphenol	U	U	U					100
2,2'-oxybis(1-Chloropropane)	U	U	U					--
4-Methylphenol	U	U	U					900
N-Nitroso-di-n-propylamine	U	U	U					--
Hexachloroethane	U	U	U					--
Nitrobenzene	U	U	U					200
Isophorone	U	U	U					--
2-Nitrophenol	U	U	U					330
2,4-Dimethylphenol	U	U	U					--
2,4-Dichlorophenol	U	U	U					400
1,2,4-Trichlorobenzene	U	U	U					--
Naphthalene	U	U	U					13,000
4-Chloroaniline	U	U	U					220
bis(2-Chloroethoxy)methane	U	U	U					--
Hexachlorobutadiene	U	U	U					--
4-Chloro-3-methylphenol	U	U	U					240
2-Methylnaphthalene	U	U	U					36,400
Hexachlorocyclopentadiene	U	U	U					--
2,4,6-Trichlorophenol	U	U	U					--
2,4,5-Trichlorophenol	U	U	U					100
2-Chloronaphthalene	U	U	U					--
2-Nitroaniline	U	U	U					430
Dimethylphthalate	U	U	U					2,000
Acenaphthylene	U	U	U					41,000
2,6-Dinitrotoluene	U	U	U					1,000
3-Nitroaniline	U	U	U					500
Acenaphthene	U	U	U					50,000
2,4-Dinitrophenol	U	U	U					--
4-Nitrophenol	U	U	U					100
Dibenzofuran	U	U	U					6,200

TABLE 1B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSB-05 (30-32)	SRSB-05 (35-37)	SRSB-05 (40-42)					NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	30-32	35-37	40-42					
Sampling Date	11/1/02	11/1/02	11/1/02					
% Solids	84	85	85					
Dilution Factor	1.0	1.0	1.0					
Units	ug/kg	ug/kg	ug/kg					ug/kg
2,4-Dinitrotoluene	U	U	U					---
Diethylphthalate	U	U	U					7,100
4-Chlorophenyl-phenylether	U	U	U					---
Fluorene	U	U	U					50,000
4-Nitroaniline	U	U	U					---
4,6-Dinitro-2-methylphenol	U	U	U					---
N-Nitrosodiphenylamine	U	U	U					---
4-Bromophenyl-phenylether	U	U	U					---
Hexachlorobenzene	U	U	U					410
Pentachlorophenol	U	U	U					1,000
Phenanthrene	U	U	U					50,000
Anthracene	U	U	U					50,000
Carbazole	U	U	U					---
Di-n-butylphthalate	U	U	U					8,100
Fluoranthene	U	U	U					50,000
Pyrene	U	U	U					50,000
Butylbenzylphthalate	U	U	U					50,000
3,3'-Dichlorobenzidine	U	U	U					---
Benzo(a)anthracene	U	U	U					224
Chrysene	U	U	U					400
bis(2-Ethylhexyl)phthalate	130 J	54 J	49 J					50,000
Di-n-octyl phthalate	U	U	U					50,000
Benzo(b)fluoranthene	U	U	U					224
Benzo(k)fluoranthene	U	U	U					224
Benzo(a)pyrene	U	U	U					61
Indeno(1,2,3-cd)pyrene	U	U	U					3,200
Dibenzo(a,h)anthracene	U	U	U					14
Benzo(g,h,i)perylene	U	U	U					50,000
Total Carcinogenic PAHs	0	0	0					10,000
Total PAHs	0	0	0					100,000
Total SVOCs	130	54	49					500,000

Qualifiers

U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes

: Result exceeds Comparison Value.
---: Not established.

TABLE 1C

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-01 (0-2)	SRSB-01 (4-6)	SRSB-01 (6-8)	SRSB-01 (8-10)	SRSB-01 (10-12)	SRSB-01 (12-14)	SRSB-01 (14-16)	
Sample Depth (ft)	0-2	4-6	6-8	8-10	10-12	12-14	14-16	NYSDEC TAGM
Sampling Date	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	4046 Appendix A
% Solids	95	89	89	89	89	90	84	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	1.7	1.3	0.93 B	1.3	1.9	1.5	3.6	12
Barium	11.9	8.9 B	6.1 B	6.7 B	13.8	7.4 B	21.8	600
Cadmium	0.79	0.25 B	0.43	0.37	0.24 B	0.64	0.33 B	10
Chromium	27	15.2	12.1	18	9.1	16.9	29.8	50
Lead	14.1	5.4	1.8	3.3	5.6	3.8	7.5	500
Mercury	0.017 B	U	U	U	U	U	0.025 B	0.2
Selenium	U	U	U	U	U	U	U	3.9
Silver	2.9	1.2 B	0.58 B	1.1 B	0.22 B	0.66 B	0.28 B	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

: Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-01 (16-18)	SRSB-01 (18-20)	SRSB-02 (0-2)	SRSB-02 (2-4)	SRSB-02 (4-6)	SRSB-02 (6-8)	SRSB-02 (8-10)	
Sample Depth (ft)	16-18	18-20	0-2	2-4	4-6	6-8	8-10	NYSDEC TAGM
Sampling Date	10/28/02	10/28/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	4046 Appendix A
% Solids	94	96	96	85	89	93	89	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	1.1	2.1	0.77 B	0.78 B	1.6	1.1	1.7	12
Barium	5.4 B	4.1 B	4.5 B	6.6 B	10.4 B	5.6 B	9.8 B	600
Cadmium	1.4	2	1.7	1.7	6.1	4.8	**17.6**	10
Chromium	28.4	26.5	30	**60.2**	**63.8**	35.1	**66.1**	50
Lead	1.6	2.7	1.8	2.4	3.5	1.6	2.8	500
Mercury	U	U	U	U	U	U	0.029 B	0.2
Selenium	U	U	U	U	U	U	U	3.9
Silver	0.59 B	0.52 B	0.13 B	0.7 B	0.95 B	0.78 B	2.3	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

: Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-02 (10-12)	SRSB-02 (12-14)	SRSB-02 (14-16)	SRSB-02 (16-18)	SRSB-02 (18-20)	SRSB-03 (0-2)	SRSB-03 (2-4)	
Sample Depth (ft)	10-12	12-14	14-16	16-18	18-20	0-2	2-4	NYSDEC TAGM
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/29/02	10/29/02	4046 Appendix A
% Solids	88	89	91	86	97	93	90	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	7.2	5.8	1.5	2.6	1.8	4	3.3	12
Barium	13.1	11.3	5.1 B	18.2	3.5 B	13.8	10.6	600
Cadmium	9.5	**15.3**	3.2	**29.8**	2.2	1.2	1.5	10
Chromium	**53.4**	**1290**	**72.5**	**505**	19.8	37.5	**72.6**	50
Lead	2.8	34.5	4.1	13.5	1.3	13.5	21.9	500
Mercury	U	0.059	U	0.029 B	U	0.036	0.033	0.2
Selenium	U	0.45 B	U	0.85 B	U	U	U	3.9
Silver	1.2 B	13.5	0.68 B	19.9	0.53 B	4.3	11.9	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

Bold : Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-03 (4-6)	SRSB-03 (6-8)	SRSB-03 (8-10)	SRSB-03 (10-12)	SRSB-03 (12-14)	SRSB-03 (14-16)	SRSB-03 (16-18)	
Sample Depth (ft)	4-6	6-8	8-10	10-12	12-14	14-16	16-18	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	4046 Appendix A
% Solids	91	93	86	86	89	89	91	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	0.91 B	0.82 B	0.73 B	5.3	2.3	1.5	0.91 B	12
Barium	4.4 B	4.5 B	4.2 B	34.3	11.4	6.6 B	6.1 B	600
Cadmium	0.48	0.13 B	U	0.27 B	1	1.6	0.81	10
Chromium	4.3	7.9	6.7	20.2	32.3	37	15.3	50
Lead	1.2	1.2	0.99	9.1	10.4	3	1.7	500
Mercury	U	U	U	0.033	U	U	U	0.2
Selenium	U	U	U	U	U	U	U	3.9
Silver	0.23 B	0.28 B	0.17 B	0.43 B	1.3 B	0.67 B	0.71 B	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

: Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-03 (18-20)	SRSB-04 (0-2)	SRSB-04 (2-4)	SRSB-04 (4-6)	SRSB-04 (6-8)	SRSB-04 (8-10)	SRSB-04 (10-12)	
Sample Depth (ft)	18-20	0-2	2-4	4-6	6-8	8-10	10-12	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	4046 Appendix A
% Solids	82	89	89	92	91	88	88	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	5.1	8.7	3.1	1.3	6.9	1.1 B	1.1 B	12
Barium	131	26.1	17.1	6.6 B	5.6 B	11.8	5 B	600
Cadmium	**44**	**17.2**	5.1	1.2	4.9	8	5.2	10
Chromium	**240**	**613**	**145**	49.3	**71**	**79.4**	21.2	50
Lead	78.9	95.8	24.7	19.1	8.7	2.5	2.3	500
Mercury	0.11	0.05	0.046	0.021 B	U	U	U	0.2
Selenium	U	U	0.72 B	U	U	U	U	3.9
Silver	4.3	88.4	20.9	6.1	3.4	0.38 B	0.28 B	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

: Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-04 (12-14)	SRSB-04 (14-16)	SRSB-04 (16-18)	SRSB-04 (18-20)	SRSB-05 (0-2)	SRSB-05 (2-4)	SRSB-05 (4-6)	
Sample Depth (ft)	12-14	14-16	16-18	18-20	0-2	2-4	4-6	NYSDEC TAGM
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/28/02	10/28/02	10/28/02	4046 Appendix A
% Solids	82	83	93	95	92	95	89	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	4	3.7	1.6	2.3	4.9	10.6	0.98 B	12
Barium	26.9	18.6	5.5 B	8 B	27.5	6 B	5.1 B	600
Cadmium	**11.7**	**35.6**	3.5	4.8	3.1	9.6	4.7	10
Chromium	**75**	**203**	**85.2**	**309**	**377**	**120**	30.7	50
Lead	7.4	6	10.1	10.1	243	2	2.8	500
Mercury	0.022 B	0.042	0.019 B	0.044	**0.58**	U	U	0.2
Selenium	0.49 B	0.55 B	U	0.38 B	1 B	U	U	3.9
Silver	0.29 B	2.2	2.1	4.6	44.7	1.9	0.81 B	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

bold : Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-05 (6-8)	SRSB-05 (8-10)	SRSB-05 (12-14)	SRSB-05 (14-16)	SRSB-05 (16-18)	SRSB-05 (18-20)	SRSB-05 (25-27)	
Sample Depth (ft)	6-8	8-10	12-14	14-16	16-18	18-20	25-27	NYSDEC TAGM
Sampling Date	10/28/02	10/28/02	10/28/02	10/31/02	10/28/02	10/28/02	10/28/02	4046 Appendix A
% Solids	90	86	85	72	97	96	86	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	1.1	1.9	4.2	4.6	4.5	1.1	4	12
Barium	5 B	23.5	29.6	31.9	8.6 B	5.5 B	4.5 B	600
Cadmium	3.7	2.8	1.8	5.6	4.2	2.3	1.1	10
Chromium	28.8	27.9	29.7	**106**	43.6	**57**	20.3	50
Lead	1.8	4.9	9.9	222	2.3	2.1	3	500
Mercury	U	U	0.033 B	0.061	U	U	U	0.2
Selenium	U	U	U	0.55 B	U	U	U	3.9
Silver	0.57 B	0.93 B	0.36 B	1.4 B	0.4 B	0.41 B	U	--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

: Result exceeds Comparison Value.

-- : Not established.

TABLE 1C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

RCRA METALS

Sample ID	SRSB-05 (30-32)	SRSB-05 (35-37)	SRSB-05 (40-42)					
Sample Depth (ft)	30-32	35-37	40-42					NYSDEC TAGM
Sampling Date	11/1/02	11/1/02	11/1/02					4046 Appendix A
% Solids	84	85	85					Comparison Criteria
Dilution Factor	1.0	1.0	1.0					
Units	mg/kg	mg/kg	mg/kg					mg/kg
Arsenic	1.8	4.9	4.6					12
Barium	5.5 B	5 B	6.4 B					600
Cadmium	0.42	3.7	2.8					10
Chromium	16.8	9.4	9.3					50
Lead	2.9	2.5	4					500
Mercury	U	U	U					0.2
Selenium	U	0.65 B	U					3.9
Silver	0.33 B	U	0.22 B					--

Qualifiers:

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:

: Result exceeds Comparison Value.

-- : Not established.

TABLE 1D

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-01 (0-2)	SRSB-01 (4-6)	SRSB-01 (6-8)	SRSB-01 (8-10)	SRSB-01 (10-12)	SRSB-01 (12-14)	SRSB-01 (14-16)	
Sample Depth (ft)	0-2	4-6	6-8	8-10	10-12	12-14	14-16	NYSDEC TAGM
Sampling Date	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	10/28/02	4046 Appendix A
% Solids	95	89	89	89	89	90	84	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	110 P	180 P	U	U	U	2,800	78	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	110	180	0	0	0	2,800	78	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

☐ : Result exceeds Comparison Value.

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN

ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-01 (16-18)	SRSB-01 (18-20)	SRSB-02 (0-2)	SRSB-02 (2-4)	SRSB-02 (4-6)	SRSB-02 (6-8)	SRSB-02 (8-10)	
Sample Depth (ft)	16-18	18-20	0-2	2-4	4-6	6-8	8-10	NYSDEC TAGM
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	4046 Appendix A
% Solids	98	98	96	85	89	93	89	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	U	U	U	U	U	U	U	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	0	0	0	0	0	0	0	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.
P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.
--- : Not applicable.
* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-02 (10-12)	SRSB-02 (12-14)	SRSB-02 (14-16)	SRSB-02 (16-18)	SRSB-02 (18-20)	SRSB-03 (0-2)	SRSB-03 (2-4)	
Sample Depth (ft)	10-12	12-14	14-16	16-18	18-20	0-2	2-4	NYSDEC TAGM
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	10/29/02	10/29/02	4046 Appendix A
% Solids	88	89	91	86	97	93	90	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	U	U	U	U	U	1,600 P	1,200	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	570	97	100	U	U	U	---
Total	0	570	97	100	0	**1,600**	1,200	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-03 (4-6)	SRSB-03 (6-8)	SRSB-03 (8-10)	SRSB-03 (10-12)	SRSB-03 (12-14)	SRSB-03 (14-16)	SRSB-03 (16-18)	
Sample Depth (ft)	4-6	6-8	8-10	10-12	12-14	14-16	16-18	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	4046 Appendix A
% Solids	91	93	86	86	89	89	91	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	69	U	U	U	U	U	U	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	69	0	0	0	0	0	0	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-03 (18-20)	SRSB-04 (0-2)	SRSB-04 (2-4)	SRSB-04 (4-6)	SRSB-04 (6-8)	SRSB-04 (8-10)	SRSB-04 (10-12)	
Sample Depth (ft)	18-20	0-2	2-4	4-6	6-8	8-10	10-12	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/31/02	10/31/02	10/31/02	4046 Appendix A
% Solids	82	89	89	92	91	88	88	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	U	3,000	570 P	570	250	U	U	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	0	**3,000**	570	570	250	0	0	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-04 (12-14)	SRSB-04 (14-16)	SRSB-04 (16-18)	SRSB-04 (18-20)	SRSB-05 (0-2)	SRSB-05 (2-4)	SRSB-05 (4-6)	
Sample Depth (ft)	12-14	14-16	16-18	18-20	0-2	2-4	4-6	NYSDEC TAGM
Sampling Date	10/31/02	10/31/02	10/31/02	10/31/02	10/28/02	10/28/02	10/28/02	4046 Appendix A
% Solids	82	83	93	95	92	95	89	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	U	U	U	U	580	U	U	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	0	0	0	0	580	0	0	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.
P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.
--- : Not applicable.
* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-05 (6-8)	SRSB-05 (8-10)	SRSB-05 (12-14)	SRSB-05 (14-16)	SRSB-05 (16-18)	SRSB-05 (18-20)	SRSB-05 (25-27)	
Sample Depth (ft)	6-8	8-10	12-14	14-16	16-18	18-20	25-27	NYSDEC TAGM
Sampling Date	10/28/02	10/28/02	10/28/02	10/31/02	10/28/02	10/28/02	10/28/02	4046 Appendix A
% Solids	90	86	85	72	97	96	86	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	U	U	U	U	U	U	U	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	0	0	0	0	0	0	0	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 1D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SUBSURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSB-05 (30-32)	SRSB-05 (35-37)	SRSB-05 (40-42)					
Sample Depth (ft)	30-32	35-37	40-42					NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sampling Date	11/1/02	11/1/02	11/1/02					
% Solids	84	85	85					
Dilution Factor	1.0	1.0	1.0					
Units	ug/kg	ug/kg	ug/kg					ug/kg
Aroclor 1016	U	U	U					---
Aroclor 1221	U	U	U					---
Aroclor 1232	U	U	U					---
Aroclor 1242	U	U	U					---
Aroclor 1248	U	U	U					---
Aroclor 1254	U	U	U					---
Aroclor 1260	U	U	U					---
Total	0	0	0					1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

▭ : Result exceeds Comparison Value.

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 2A

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSS-01	SRSS-02	SRSS-03	SRSS-04	SRSS-05	SRSS-06	SRSS-07	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	96	92	96	92	92	98	97	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	U	400
Acetone	7	U	U	4 J	U	U	U	200
Iodomethane	U	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	U	U	2,700
Methylene Chloride	2 JB	2 J	2 JB	2 J	2 J	2 J	3 J	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	U	U	U	U	U	U	U	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	U	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	U	---

TABLE 2A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSS-01	SRSS-02	SRSS-03	SRSS-04	SRSS-05	SRSS-06	SRSS-07	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	96	92	96	92	92	98	97	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	1 J	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	3 J	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	9	2	2	6	2	2	7	10,000

Qualifiers

U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.
B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 2A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSS-08	SRSS-09	SRSB-01SS	SRSB-02SS	SRSB-03SS	SRSB-04SS	SRSB-05SS	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	97	82	86	93	91	76	59	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	U	200
Bromomethane	U	3 J	U	U	U	U	U	---
Chloroethane	U	3 J	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	---
1,1-Dichloroethene	U	10	U	U	U	2 J	7 J	400
Acetone	6	88 D	38	17	29	46	83	200
Iodomethane	U	4 J	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	U	U	2,700
Methylene Chloride	2 J	14	4 J	4 J	3 J	5 J	10	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	U	---
2-Butanone	U	74	8	U	U	8	17	300
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	3 J	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	U	60
Trichloroethene	U	3 J	U	2 J	U	U	4 J	700
1,2-Dichloropropane	U	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	3 J	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	U	U	U	U	1,400
2-Hexanone	U	9	U	U	U	U	U	---

TABLE 2A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSS-08	SRSS-09	SRSB-01SS	SRSB-02SS	SRSB-03SS	SRSB-04SS	SRSB-05SS	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	97	82	86	93	91	76	59	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	U	1,200
Styrene	U	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	---
Total VOCs	8	211	53	23	32	61	121	10,000

Qualifiers

U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.
B: Constituent detected in the method blank as well as the sample.

Notes

---: Not established.

TABLE 2B

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSS-01	SRSS-02	SRSS-03	SRSS-04	SRSS-05	SRSS-06	SRSS-07	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	96	92	96	92	92	98	97	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	--
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	--
1,4-Dichlorobenzene	U	U	U	U	U	U	U	--
1,2-Dichlorobenzene	U	U	U	U	130 J	U	U	--
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	--
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	--
Hexachloroethane	U	U	U	U	U	U	U	--
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	--
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	--
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	--
Naphthalene	U	U	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	--
Hexachlorobutadiene	U	U	U	U	U	U	U	--
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	--
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	--
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	--
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	U	U	U	44 J	79	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	--
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	U	U	U	6,200

TABLE 2B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSS-01	SRSS-02	SRSS-03	SRSS-04	SRSS-05	SRSS-06	SRSS-07	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	96	92	96	92	92	98	97	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	39 J	U	U	U	46 J	U	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	51 J	U	U	1,000
Phenanthrene	70 J	570	59 J	100 J	400	470	U	50,000
Anthracene	U	120 J	U	U	72 J	82 J	140 J	50,000
Carbazole	U	68 J	U	U	81 J	65 J	U	---
Di-n-butylphthalate	U	U	U	U	46 J	U	U	8,100
Fluoranthene	190 J	980	120 J	240 J	980	670	280 J	50,000
Pyrene	180 J	770	100 J	210 J	830	710	270 J	50,000
Butylbenzylphthalate	U	U	U	73 J	760	110 J	U	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	83 J	**380**	48 J	100 J	**480**	**310 J**	120 J	224
Chrysene	100 J	400	51 J	100 J	**560**	380	170 J	400
bis(2-Ethylhexyl)phthalate	72 J	80 J	63 J	100 J	650	99 J	66 J	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	120 J	**380**	70 J	160 J	**690**	**530**	**260 J**	224
Benzo(k)fluoranthene	68 J	**230 J**	37 J	86 J	**400**	**280 J**	110 J	224
Benzo(a)pyrene	**87 J**	**270 J**	46 J	**110 J**	**510**	**300 J**	**140 J**	61
Indeno(1,2,3-cd)pyrene	56 J	140 J	U	59 J	320 J	160 J	78 J	3,200
Dibenzo(a,h)anthracene	U	U	U	U	**96 J**	**38 J**	U	14
Benzo(g,h,i)perylene	64 J	140 J	37 J	69 J	340 J	160 J	66 J	50,000
Total Carcinogenic PAHs	514	1,800	252	615	3,056	1,998	878	10,000
Total PAHs	1,018	4,419	568	1,234	5,722	4,215	1,634	100,000
Total SVOCs	1,090	4,567	631	1,407	7,440	4,489	1,700	500,000

Qualifiers
U: The compound was analyzed for, but not detected
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes
Bold: Result exceeds Comparison Value.
---: Not established.

TABLE 2B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSS-08	SRSS-09	SRSB-01SS	SRSB-02SS	SRSB-03SS	SRSB-04SS	SRSB-05SS	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	97	82	86	93	91	76	59	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	10.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	73 J	51 J	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	---
1,4-Dichlorobenzene	U	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	64 J	U	U	U	---
2-Methylphenol	U	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	---
Naphthalene	U	100 J	82 J	U	U	80 J	7,600	13,000
4-Chloroaniline	U	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	240
2-Methylnaphthalene	U	76 J	67 J	U	U	61 J	3,900 J	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	U	2,000
Acenaphthylene	U	54 J	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	U	500
Acenaphthene	U	600	340 J	U	U	500	18,000	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	U	100
Dibenzofuran	U	190 J	150 J	U	U	190 J	7,600	6,200

TABLE 2B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSS-08	SRSS-09	SRSB-01SS	SRSB-02SS	SRSB-03SS	SRSB-04SS	SRSB-05SS	NYSDEC TAGM 4046 Appendix A Comparison Criteria
Sample Depth (ft)/Location	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	
% Solids	97	82	86	93	91	76	59	
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	10.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	---
Fluorene	U	390 J	310 J	U	U	360 J	13,000	50,000
4-Nitroaniline	U	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	U	1,000
Phenanthrene	36 J	4,900	2,700	310 J	86 J	3,200	**88,000**	50,000
Anthracene	U	810	520	56 J	U	620	22,000	50,000
Carbazole	U	700	370 J	47 J	U	420 J	13,000	---
Di-n-butylphthalate	U	350 J	140 J	U	U	77 J	610 J	8,100
Fluoranthene	100 J	7,300 D	3,300	510	190 J	4,100	**84,000 D**	50,000
Pyrene	100 J	7,200 D	4,700	540	160 J	4,600	**76,000 D**	50,000
Butylbenzylphthalate	U	4,200	660	180 J	U	310 J	7,000	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	---
Benzo(a)anthracene	49 J	**3,900**	**1,700**	**240**	74 J	**2,100**	**45,000**	224
Chrysene	69 J	**4,900**	**2,200**	**330 J**	100 J	**2,400**	**48,000**	400
bis(2-Ethylhexyl)phthalate	44 J	3,800	5,200	570	71 J	1,400	11,000	50,000
Di-n-octyl phthalate	U	93 J	52 J	U	U	72 J	U	50,000
Benzo(b)fluoranthene	120 J	**7,200 D**	**3,600**	**480**	140 J	**3,500**	**69,000**	224
Benzo(k)fluoranthene	55 J	**3,700**	**1,400**	**260 J**	68 J	**1,800**	**26,000**	224
Benzo(a)pyrene	**70 J**	**4,400**	**1,900**	**280 J**	**82 J**	**2,100**	**43,000**	61
Indeno(1,2,3-cd)pyrene	35 J	2,300	960	140 J	51 J	920	**15,000**	3,200
Dibenzo(a,h)anthracene	U	**590**	**220 J**	U	U	**240 J**	**4,700 J**	14
Benzo(g,h,i)perylene	U	2,300	960	110 J	49 J	910	14,000	50,000
Total Carcinogenic PAHs	398	**26,990**	**11,980**	1,730	515	**13,060**	**250,700**	10,000
Total PAHs	634	50,910	25,109	3,256	1,000	27,681	**584,800**	100,000
Total SVOCs	678	60,126	31,582	4,117	1,071	29,960	**616,410**	500,000

Qualifiers

U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.
D: This qualifier identifies all compounds identified in an analysis at a secondary dilution factor.

Notes

Bold: Result exceeds Comparison Value.
---: Not established.

TABLE 2C

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

RCRA METALS

Sample ID	SRSS-01	SRSS-02	SRSS-03	SRSS-04	SRSS-05	SRSS-06	SRSS-07	
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	4046 Appendix A
% Solids	96	92	96	96	92	98	97	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	3.5	3.6	3.7	**37.1**	4.9	1.3	1.7	12
Barium	16.6	16.1	13.8	12.1	14	4.6 B	7.2 B	600
Cadmium	0.22 B	0.94	0.73	0.92	5.8	0.62	0.3	10
Chromium	19.7	35.8	33.6	**75.5**	**352**	16.9	16.5	50
Lead	9.1	13.1	12.9	37.4	51.4	17.2	7.7	500
Mercury	0.02 B	0.027 B	U	0.049	0.098	0.019 B	U	0.2
Selenium	U	U	U	0.41 B	U	U	U	3.9
Silver	4	3.4	3.8	5.1	47.9	2.1	1.3	--

Qualifiers:
U: The constituent was analyzed for, but not detected.
B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:
Bold : Result exceeds Comparison Value.
-- : Not established.

TABLE 2C (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

RCRA METALS

Sample ID	SRSS-08	SRSS-09	SRSB-01SS	SRSB-02SS	SRSB-03SS	SRSB-04SS	SRSB-05SS	
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	4046 Appendix A
% Solids	97	82	86	93	91	76	59	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	2	4.6	5.7	3.1	3.1	3	9.6	12
Barium	16.4	11.3	34.2	12.9	15.6	14	54.5	600
Cadmium	0.32	1.3	7.6	3.2	0.81	0.52	8.3	10
Chromium	17.4	**292**	**389**	**54.9**	43.3	42.5	**587**	50
Lead	5.5	196	175	13.8	65.7	53.1	**789**	500
Mercury	U	**0.4**	**0.37**	0.032 B	0.022 B	0.03 B	**1.2**	0.2
Selenium	U	0.67 B	1.5 B	U	U	U	1.6 B	3.9
Silver	1.7	50.1	29.6	8.1	3.8	3.9	40.8	--

Qualifiers:
U: The constituent was analyzed for, but not detected.
B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes:
bold : Result exceeds Comparison Value.
-- : Not established.

TABLE 2D

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSS-01	SRSS-02	SRSS-03	SRSS-04	SRSS-05	SRSS-06	SRSS-07	
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	4046 Appendix A
% Solids	96	92	96	96	92	98	97	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	160	1,300 P	630	710	850	560	420	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	160	**1,300**	630	710	850	560	420	1,000

Qualifiers

U: The constituent was analyzed for, but not detected.

P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes

☐ : Result exceeds Comparison Value.

--- : Not applicable.

TABLE 2D (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE SOIL

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSS-08	SRSS-09	SRSB-01SS	SRSB-02SS	SRSB-03SS	SRSB-04SS	SRSB-05SS	
Sample Depth	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	NYSDEC TAGM
Sampling Date	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	10/29/02	4046 Appendix A
% Solids	97	82	86	93	91	76	59	Comparison Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	U	---
Aroclor 1248	180	300 P	1,000	740	U	360	710	---
Aroclor 1254	U	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	U	---
Total	180	300	1,000	740	0	360	710	1,000

Qualifiers
U: The constituent was analyzed for, but not detected.
P: For dual column analysis, the percent difference between the quantitated concentrations on the 2 columns is greater than 40%, lower value reported.

Notes
▭ : Result exceeds Comparison Value.
--- : Not applicable.

TABLE 3A

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SAND PILES WEST OF BASIN

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSP-01	SRSP-02	SRSP-03	SRSP-04	SRSP-05	SRSP-06	NYSDEC TAGM
Sampling Date	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	4046 Appendix A
% Solids	87	98	95	97	99	84	Comparison
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Criteria
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dichlorodifluoromethane	U	U	U	U	U	U	---
Chloromethane	U	U	U	U	U	U	---
Vinyl Chloride	U	U	U	U	U	U	200
Bromomethane	U	U	U	U	U	U	---
Chloroethane	U	U	U	U	U	U	1,900
Trichlorofluoromethane	U	U	U	U	U	U	---
1,1-Dichloroethene	U	U	U	U	U	U	400
Acetone	11	U	U	U	U	U	200
Iodomethane	U	U	U	U	U	U	---
Carbon Disulfide	U	U	U	U	U	U	2,700
Methylene Chloride	2 JB	1 JB	U	1 JB	1 JB	2 JB	100
trans-1,2-Dichloroethene	U	U	U	U	U	U	---
Methyl tert-butyl ether	U	U	U	U	U	U	
1,1-Dichloroethane	U	U	U	U	U	U	200
Vinyl Acetate	U	U	U	U	U	U	---
2-Butanone	U	U	U	U	U	U	300
cis-1,2-Dichloroethene	U	U	U	U	U	U	---
2,2-Dichloropropane	U	U	U	U	U	U	---
Bromochloromethane	U	U	U	U	U	U	---
Chloroform	U	U	U	U	U	U	300
1,1,1-Trichloroethane	U	U	U	U	U	U	800
1,1-Dichloropropene	U	U	U	U	U	U	---
Carbon Tetrachloride	U	U	U	U	U	U	600
1,2-Dichloroethane	U	U	U	U	U	U	100
Benzene	U	U	U	U	U	U	60
Trichloroethene	U	U	U	U	U	U	700
1,2-Dichloropropane	U	U	U	U	U	U	---
Dibromomethane	U	U	U	U	U	U	---
Bromodichloromethane	U	U	U	U	U	U	---
cis-1,3-Dichloropropene	U	U	U	U	U	U	---
4-Methyl-2-pentanone	U	U	U	U	U	U	1,000
Toluene	U	U	U	U	U	U	1,500
trans-1,3-Dichloropropene	U	U	U	U	U	U	---
1,1,2-Trichloroethane	U	U	U	U	U	U	---
1,3-Dichloropropane	U	U	U	U	U	U	300
Tetrachloroethene	U	U	U	U	U	U	1,400
2-Hexanone	U	U	U	U	U	U	---

TABLE 3A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SAND PILES WEST OF BASIN

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRSP-01	SRSP-02	SRSP-03	SRSP-04	SRSP-05	SRSP-06	NYSDEC TAGM
Sampling Date	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	4046 Appendix A
% Solids	87	98	95	97	99	84	Comparison
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Criteria
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Dibromochloromethane	U	U	U	U	U	U	---
1,2-Dibromoethane	U	U	U	U	U	U	---
Chlorobenzene	U	U	U	U	U	U	1,700
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	600
Ethylbenzene	U	U	U	U	U	U	5,500
Xylene (total)	U	U	U	U	U	U	1,200
Styrene	U	U	U	U	U	U	---
Bromoform	U	U	U	U	U	U	---
Isopropylbenzene	U	U	U	U	U	U	---
1, 1, 2, 2-Tetrachloroethene	U	U	U	U	U	U	600
Bromobenzene	U	U	U	U	U	U	---
1, 2, 3 -Trichloropropane	U	U	U	U	U	U	400
n-Propylbenzene	U	U	U	U	U	U	---
2-Chlorotoluene	U	U	U	U	U	U	---
1,3,5-Trimethylbenzene	U	U	U	U	U	U	---
4-Chlorotoluene	U	U	U	U	U	U	---
tert-Butylbenzene	U	U	U	U	U	U	---
1,2,4-Trimethylbenzene	U	U	U	U	U	U	---
sec-Butylbenzene	U	U	U	U	U	U	---
4-Isopropyltoluene	U	U	U	U	U	U	---
1,3-Dichlorobenzene	U	U	U	U	U	U	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	8,500
n-Butylbenzene	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	---
1,2,4-Trichlorobenzene	U	U	U	U	U	U	3,400
Hexachlorobutadiene	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	---
Total VOCs	13	1	0	1	1	2	10,000

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.

B: Constituent detected in the method blank as well as the sample.

Notes

--- : Not Established.

TABLE 3B

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SAND PILES WEST OF BASIN

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSP-01	SRSP-02	SRSP-03	SRSP-04	SRSP-05	SRSP-06	NYSDEC TAGM
Sampling Date	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	4046 Appendix A
% Solids	87	98	95	97	99	84	Comparison
Dilution Factor	5.0	5.0	5.0	5.0	5.0	5.0	Criteria
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol	U	U	U	U	U	U	30
bis(2-Chloroethyl)ether	U	U	U	U	U	U	---
2-Chlorophenol	U	U	U	U	U	U	800
1,3-Dichlorobenzene	U	U	U	U	U	U	---
1,4-Dichlorobenzene	U	U	U	U	U	U	---
1,2-Dichlorobenzene	U	U	U	U	U	U	--
2-Methylphenol	U	U	U	U	U	U	100
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	U	---
4-Methylphenol	U	U	U	U	U	U	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	---
Hexachloroethane	U	U	U	U	U	U	---
Nitrobenzene	U	U	U	U	U	U	200
Isophorone	U	U	U	U	U	U	---
2-Nitrophenol	U	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	U	---
2,4-Dichlorophenol	U	U	U	U	U	U	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	---
Naphthalene	U	U	U	U	U	U	13,000
4-Chloroaniline	U	U	U	U	U	U	220
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	---
Hexachlorobutadiene	U	U	U	U	U	U	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	240
2-Methylnaphthalene	U	U	U	U	U	U	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	100
2-Chloronaphthalene	U	U	U	U	U	U	---
2-Nitroaniline	U	U	U	U	U	U	430
Dimethylphthalate	U	U	U	U	U	U	2,000
Acenaphthylene	U	U	U	U	U	U	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	1,000
3-Nitroaniline	U	U	U	U	U	U	500
Acenaphthene	U	260 J	330 J	360 J	U	U	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	---
4-Nitrophenol	U	U	U	U	U	U	100
Dibenzofuran	U	U	U	U	U	U	6,200

TABLE 3B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SAND PILES WEST OF BASIN

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSP-01	SRSP-02	SRSP-03	SRSP-04	SRSP-05	SRSP-06	NYSDEC TAGM
Sampling Date	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	4046 Appendix A
% Solids	87	98	95	97	99	84	Comparison
Dilution Factor	5.0	5.0	5.0	5.0	5.0	5.0	Criteria
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2,4-Dinitrotoluene	U	U	U	U	U	U	---
Diethylphthalate	U	U	U	U	U	U	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	---
Fluorene	U	230 J	300 J	350 J	U	U	50,000
4-Nitroaniline	U	U	U	U	U	U	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	U	U	---
4-Bromophenyl-phenylether	U	U	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	U	U	410
Pentachlorophenol	U	U	U	U	U	U	1,000
Phenanthrene	690 J	4,100	5,600	6,700	690 J	590 J	50,000
Anthracene	U	460 J	570 J	710 J	U	U	50,000
Carbazole	U	500 J	650 J	860 J	U	U	---
Di-n-butylphthalate	U	U	U	U	U	U	8,100
Fluoranthene	1,400 J	7,600	11,000	13,000	1,000 J	1,200 J	50,000
Pyrene	1,200 J	6,100	8,500	10,000	850 J	970 J	50,000
Butylbenzylphthalate	U	U	U	U	U	270 J	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	---
Benzo(a)anthracene	**580 J**	**2,700**	**3,500**	**4,400**	**460 J**	**420 J**	224
Chrysene	**770 J**	**3,600**	**5,100**	**6,100**	**560 J**	**640 J**	400
bis(2-Ethylhexyl)phthalate	U	210 J	260 J	180 J	U	U	50,000
Di-n-octyl phthalate	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	**920 J**	**4,300**	**6,000**	**7,100**	**640 J**	**790 J**	224
Benzo(k)fluoranthene	**400 J**	**1,800**	**2,600**	**3,200**	**280 J**	**310 J**	224
Benzo(a)pyrene	**690 J**	**2,900**	**4,000**	**4,800**	**440 J**	**500 J**	61
Indeno(1,2,3-cd)pyrene	450 J	2,000	2,800	**3,300**	290 J	380 J	3,200
Dibenzo(a,h)anthracene	U	**450 J**	**640 J**	**780 J**	U	U	14
Benzo(g,h,i)perylene	520 J	2,000	2,700	3,300	U	410 J	50,000
Total Carcinogenic PAHs	3,810	**17,750**	**24,640**	**29,680**	2,670	3,040	10,000
Total PAHs	7,620	38,500	53,640	64,100	5,210	6,210	100,000
Total SVOCs	7,620	39,210	54,550	65,140	5,210	6,480	500,000

Qualifiers
U: The compound was analyzed for, but not detected.
J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.

Notes
bold: Result exceeds Comparison Value.
---: Not established.

TABLE 3C

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SAND PILES WEST OF BASIN

RCRA METALS

Sample ID	SRSP-01	SRSP-02	SRSP-03	SRSP-04	SRSP-05	SRSP-06	NYSDEC TAGM 4046
Sampling Date	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	Appendix A Comparison
% Solids	87	98	95	97	99	84	Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	1 B	0.85 B	1.3	1 B	0.98	1.3	12
Barium	5.4 B	5.1 B	15.5	4.8 B	15.6	7.1 B	600
Cadmium	0.21 B	0.49	0.47	0.19 B	0.25 B	0.19 B	10
Chromium	7.3	7.1	7.5	5.1	5.4	10.1	50
Lead	11.3	13.9	21.8	10.3	9	26.9	500
Mercury	U	U	0.016 B	0.018 B	U	U	0.2
Selenium	0.6 B	0.77 B	0.65 B	0.64 B	0.64 B	0.75 B	3.9
Silver	U	U	U	U	U	U	---

Qualifiers

U: The constituent was analyzed for, but not detected.

B: Constituent concentration is less than the CRDL, but greater than the IDL.

Notes

--- : Not established.

TABLE 3D

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SAND PILES WEST OF BASIN

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	SRSP-01	SRSP-02	SRSP-03	SRSP-04	SRSP-05	SRSP-06	NYSDEC TAGM 4046
Sampling Date	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	11/4/02	Appendix A Comparison
% Solids	87	98	95	97	99	84	Criteria
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	U	U	U	U	U	U	---
Aroclor 1221	U	U	U	U	U	U	---
Aroclor 1232	U	U	U	U	U	U	---
Aroclor 1242	U	U	U	U	U	U	---
Aroclor 1248	U	U	U	U	U	U	---
Aroclor 1254	U	U	U	U	U	U	---
Aroclor 1260	U	U	U	U	U	U	---
Total	0	0	0	0	0	0	1,000/10,000*

Qualifiers

U: The constituent was analyzed for, but not detected.

Notes

--- : Not applicable.

* : According to NYSDEC TAGM 4046 Appendix A Criteria, 1,000 ug/kg is utilized for surface soil [0-2' below ground surface (bgs)] and 10,000 ug/kg is utilized for subsurface soil (soil deeper than 2' bgs).

TABLE 4A

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
GROUNDWATER

VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	SRMW-01	NYSDEC Class GA Groundwater Standards/Guidelines
Sampling Date	11/4/02	
Dilution Factor	1.0	
Units	ug/l	ug/l
Dichlorodifluoromethane	U	5 ST
Chloromethane	U	5 ST
Vinyl Chloride	U	2 ST
Bromomethane	U	5 ST
Chloroethane	U	5 ST
Trichlorofluoromethane	U	5 ST
1,1-Dichloroethene	U	5 ST
Acetone	U	50 GV
Iodomethane	U	---
Carbon Disulfide	U	---
Methylene Chloride	U	5 ST
trans-1,2-Dichloroethene	U	5 ST
Methyl tert-butyl ether	4 J	---
1,1-Dichloroethane	U	5 ST
Vinyl acetate	U	---
cis-1,2-Dichloroethene	U	5 ST
2,2-Dichloropropane	U	5 ST
2-Butanone	U	50 GV
Bromochloromethane	U	5 ST
Chloroform	U	7 ST
1,1,1-Trichloroethane	U	5 ST
1,1-Dichloropropene	U	5 ST
Carbon Tetrachloride	U	5 ST
1,2-Dichloroethane	U	5 ST
Benzene	U	0.7 ST
Trichloroethene	2 J	5 ST
1,2-Dichloropropane	U	5 ST
Dibromomethane	U	5 ST
Bromodichloromethane	U	50 GV
2-Chloroethyl vinyl ether	U	---
cis-1,3-Dichloropropene	U	5 ST
4-Methyl-2-pentanone	U	---
Toluene	U	5 ST
trans-1,3-Dichloropropene	U	5 ST
1,1,2-Trichloroethane	U	5 ST

TABLE 4A (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
GROUNDWATER

VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	**SRMW-01**	NYSDEC Class GA
DATE OF COLLECTION	11/04/02	Groundwater
DILUTION FACTOR	1.0	Standards/Guidelines
UNITS	ug/L	ug/L
1,3-Dichloropropane	U	5 ST
Tetrachloroethene	U	5 ST
2-Hexanone	U	50 GV
Dibromochloromethane	U	50 GV
1,2-Dibromoethane	U	---
Chlorobenzene	U	5 ST
1,1,1,2-Tetrachloroethane	U	5 ST
Ethylbenzene	U	5 ST
Styrene	U	5 ST
Xylene (total)	U	5 ST*
Bromoform	U	50 GV
Isopropylbenzene	U	5 ST
1,1,2,2-Tetrachloroethane	U	5 ST
Bromobenzene	U	5 ST
1,2,3-Trichloropropane	U	0.04 ST
n-Propylbenzene	U	5 ST
2-Chlorotoluene	U	5 ST
1,3,5-Trimethylbenzene	U	5 ST
4-Chlorotoluene	U	5 ST
tert-Butylbenzene	U	5 ST
1,2,4-Trimethylbenzene	U	5 ST
sec-Butylbenzene	U	5 ST
1,3-Dichlorobenzene	U	3* ST
4-Isopropyltoluene	U	5 ST
1,4-Dichlorobenzene	U	3* ST
n-Butylbenzene	U	5 ST
1,2-Dichlorobenzene	U	3* ST
1,2-Dibromo-3-chloropropane	U	0.04 ST
1,2,4-Trichlorobenzene	U	5* ST
Hexachlorobutadiene	U	0.5 ST
Naphthalene	U	10 GV
1,2,3-Trichlorobenzene	U	5* ST

Qualifiers

U: The compound was analyzed for, but not detected.

J: Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than zero.

Notes

--- : Not established.
GV: Guidance Value.

ST: Standard.
*: Value pertains to the sum of the isomers.
**: Value pertains to total phenols.

TABLE 4B

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
GROUNDWATER

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRMW-01	NYSDEC Class GA Groundwater Standards/Guidelines
Sampling Date	11/4/02	
Dilution Factor	1.0	
Units	ug/l	ug/l
Phenol	U	1.0 ST **
bis(2-Chloroethyl)ether	U	1.0 ST
2-Chlorophenol	U	1.0 ST **
1,3-Dichlorobenzene	U	5.0 ST
1,4-Dichlorobenzene	U	4.7 ST •
1,2-Dichlorobenzene	U	4.7 ST •
2-Methylphenol	U	1.0 ST **
2,2'-oxybis(1-Chloropropane)	U	5.0 ST
4-Methylphenol	U	1.0 ST **
N-Nitroso-di-n-propylamine	U	---
Hexachloroethane	U	5.0 ST
Nitrobenzene	U	5.0 ST
Isophorone	U	50 GV
2-Nitrophenol	U	1.0 ST **
2,4-Dimethylphenol	U	1.0 ST **
2,4-Dichlorophenol	U	1.0 ST **
1,2,4-Trichlorobenzene	U	5.0 ST
Naphthalene	U	10 GV
4-Chloroaniline	U	5.0 ST
bis(2-Chloroethoxy)methane	U	5.0 ST
Hexachlorobutadiene	U	5.0 ST
4-Chloro-3-methylphenol	U	1.0 ST **
2-Methylnaphthalene	U	---
Hexachlorocyclopentadiene	U	5.0 ST
2,4,6-Trichlorophenol	U	1.0 ST **
2,4,5-Trichlorophenol	U	1.0 ST **
2-Chloronaphthalene	U	10 GV
2-Nitroaniline	U	5.0 ST
Dimethylphthalate	U	50 GV
Acenaphthylene	U	---
2,6-Dinitrotoluene	U	5.0 ST
3-Nitroaniline	U	5.0 ST
Acenaphthene	U	20 GV
2,4-Dinitrophenol	U	1.0 ST **
4-Nitrophenol	U	1.0 ST **
Dibenzofuran	U	---

TABLE 4B (continued)

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
GROUNDWATER

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Sample ID	SRSP-01	NYSDEC Class GA Groundwater Standards/Guidelines
Sampling Date	11/4/02	
Dilution Factor	1.0	
Units	ug/l	ug/l
2,4-Dinitrotoluene	U	5.0 ST
Diethylphthalate	U	50 GV
4-Chlorophenyl-phenylether	U	---
Fluorene	U	50 GV
4-Nitroaniline	U	5.0 ST
4,6-Dinitro-2-methylphenol	U	1.0 ST **
N-Nitrosodiphenylamine	U	50 GV
4-Bromophenyl-phenylether	U	—
Hexachlorobenzene	U	0.35 ST
Pentachlorophenol	U	1.0 ST **
Phenanthrene	U	50 GV
Anthracene	U	50 GV
Carbazole	U	---
Di-n-butylphthalate	U	50 ST
Fluoranthene	U	50 GV
Pyrene	U	50 GV
Butylbenzylphthalate	U	50 GV
3,3'-Dichlorobenzidine	U	5.0 ST
Benzo(a)anthracene	U	0.002 GV
Chrysene	U	0.002 GV
bis(2-Ethylhexyl)phthalate	U	50 ST
Di-n-octyl phthalate	U	50 GV
Benzo(b)fluoranthene	U	0.002 GV
Benzo(k)fluoranthene	U	0.002 GV
Benzo(a)pyrene	U	ND ST
Indeno(1,2,3-cd)pyrene	U	0.002 GV
Dibenzo(a,h)anthracene	U	---
Benzo(g,h,i)perylene	U	---

Qualifiers

U: The compound was analyzed for, but not detected.

Notes

--- : Not established.
GV: Guidance Value.
ST: Standard.
* : Value pertains to the sum of the isomers.
**: Value pertains to total phenols.

TABLE 4C

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
GROUNDWATER

RCRA METALS

Sample ID	**SRMW-01 (unfiltered)**	**SRMW-01 (filtered)**	NYSDEC Class GA Groundwater Standards/Guidelines
Sampling Date	11/4/02	11/4/02	
Dilution Factor	1.0	1.0	
Units	ug/l	ug/l	ug/l
Arsenic	104	U	25
Barium	538	23.2 B	1,000
Cadmium	1,950	42.2	5
Chromium	284	8.3 B	50
Lead	138	U	25
Mercury	0.15 B	U	0.7
Selenium	U	U	10
Silver	U	U	50

Qualifiers

U: The constituent was analyzed for, but not detected.

B: The constituent concentration is less than the CRDL, but greater than the IDL.

Notes

☐ : Result exceeds Comparison Value.

TABLE 4D

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
GROUNDWATER

POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID	**SRMW-01**	NYSDEC Class GA Groundwater Standards/Guidelines
Sampling Date	11/4/02	
Dilution Factor	1.0	
Units	ug/l	ug/l
Aroclor 1016	U	---
Aroclor 1221	U	---
Aroclor 1232	U	---
Aroclor 1242	U	---
Aroclor 1248	U	---
Aroclor 1254	U	---
Aroclor 1260	U	---
Total	0	0.09

Qualifiers
U: Constituent analyzed for, but not detected.

Notes
--- : Not applicable.

TABLE 5

NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
ANALYTICAL SUMMARY TABLES
SURFACE/SUBSURFACE SOIL

TCLP - CHROMIUM

Sample ID	SB-01SS	SB-05SS	SB-02 (12-14)	SB-02 (16-18)	SB-04 (0-2')	
Sample Depth	0-2"	0-2"	12-14'	16-18'	0-2'	
Sampling Date	10/29/02	10/29/02	10/31/02	10/31/02	10/29/02	Regulatory Level
Dilution Factor	1.0	1.0	1.0	1.0	1.0	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Chromium	U	30.6 B	201 B	U	143 B	5,000

Qualifiers:
U: The constituent was analyzed for, but not detected.
B: Constituent concentration is less than the CRDL, but greater than the IDL.