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ENVIRONMENT

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

Subject:
Operable Unit 3 - Interim Operation, Maintenance, and Monitoring Report and Startup Summary for February 2008 to June 2008, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York, NYSDEC Site #1-30-003A.

Date:
August 7, 2008

Contact:
Carlo San Giovanni

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631-391-5259

Email:
Carlo.SanGiovanni@arcadis-us.com

Our ref:
NY001464.0908.00004

Dear Steve:

Enclosed is one copy of the Operable Unit 3 – Interim Operation, Maintenance, and Monitoring Report and Startup Summary for February 2008 to June 2008, Former Grumman Settling Ponds, Bethpage, New York, NYSDEC Site #1-30-003A on CD.

In general, the system is operating as designed. As you recall, the Operable Unit 3 Soil Gas Interim Remedial Measure is equipped with a single 10,000 lb vapor phase granular activated carbon (VPGAC) unit to remove volatile organic compounds (VOCs [primarily trichloroethylene]) from the recovered soil-gas prior to discharge to the atmosphere. The VPGAC unit was provided for in the system design based on the results of initial air modeling that indicated treatment of the collected soil gas (specifically treatment of trichloroethylene) would be required to meet applicable discharge criteria during system startup based on the assumed design variables. However, it was anticipated that the concentrations in the collected soil gas would drop down to levels below applicable discharge criteria within a short time period. Furthermore, it was recommended in the approved 95% Design Report that the temporary VPGAC unit be taken off-line upon confirmation (through laboratory analytical results for the influent vapor stream) that the actual influent concentration of VOCs were below applicable standards.

Total influent vapor analytical data collected during the initial 28-day and extended startup periods are consistent with the design values presented in the Operable Unit 3 Soil Gas Interim Remedial Measure 95% Design Report. In addition, as expected, the concentration of trichloroethylene decreased significantly during the operating period. Specifically, the concentration of trichloroethylene decreased by greater than

90-percent between February 18, 2008 and June 2, 2008. To determine the current regulatory status of influent vapor quality (e.g., the regulatory status of emissions prior to treatment), influent laboratory analytical results were compared to a site-specific annual maximum allowable stack concentration. The annual maximum allowable stack concentration (MASC) was calculated during each monitoring event for individual compounds using the output from a United States Environmental Protection Agency (USEPA) Screen 3 model in conjunction with the NYSDEC DAR-1 Annual Guideline Concentrations (AGCs). A detailed summary of the model inputs and outputs is provided in the attached monitoring report. A summary of the instantaneous percent (e.g., not time-weighted) of the site-specific annual MASC for detected compounds is provided in Attachment A-1. A summary of the cumulative percent (e.g., time-weighted) of the site-specific MASC for detected compounds is also provided on Attachment A-1. As shown in Attachment A-1, the instantaneous percent (e.g., not time-weighted) of the site-specific annual MASC for each of the detected compounds was less than 10-percent of their respective MASCs during the last three monitoring events. Likewise, the time-weighted site-specific cumulative percent of the annual MASC is well below the calculated discharge criteria. It is expected that influent vapor concentrations will continue to be stable to declining based on engineering experience at similar sites. Specifically, this trend is typical for depressurization systems due to continuous flushing/recovery of the pore vapors and generation of ambient air flow paths into the subsurface as a result of the negative pressure gradient established through depressurization.

Based on the analysis provided, Northrop Grumman Systems Corporation (NGC) requests approval to remove the temporary VPGAC unit. As a conservative measure, the VPGAC would be taken offline and removed in a phased approach. Specifically, it is proposed to take the VPGAC offline (e.g., bypassed) by no later than August 29, 2008. The VPGAC unit would remain on-site as a contingent measure for an additional three (3) months. If laboratory analytical data from the November 2008 monitoring event continue to indicate stable to decreasing analytical trends, the VPGAC would be removed from the site during December 2008.

If you have any questions, please do not hesitate to contact us at any time.

Sincerely,

ARCADIS

Carlo San Giovanni
Project Manager

Kenneth Zegel, PE
Senior Engineer

Copies:
Steven Scharf – NYSDEC - 1 Hard copy and 1 Electronic copy
Jacquelyn Nealon, NYS Dept. of Health – 1 Hard copy.
Robert Weitzman, Nassau County Dept. of Health – 1 Hard copy.
John Cofman, NGC – 1 Hard copy and 1 Electronic copy
Kent Smith, NGC – 1 Electronic copy only
Jay Tolle, NGC – 1 Electronic copy only
Matt Russo, Town of Oyster Bay – 1 Hard copy
Jill Palmer, NGC – Electronic copy
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Northrop Grumman Systems Corporation

Operable Unit 3- Interim Operation, Maintenance and Monitoring Report and Startup Summary

February 2008 to June 2008

Operable Unit 3 – Soil Gas Interim Remedial Measure
Former Grumman Settling Ponds
Bethpage, New York

NYSDEC ID # 1-30-003A

ARCADIS

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Operable Unit 3 – Interim Operation, Maintenance, and Monitoring Report and Startup Summary

February 2008 to June 2008

Operable Unit 3 Soil Gas Interim Remedial Measure

Former Grumman Settling Ponds
Bethpage, New York

NYSDEC ID# 1-30-003A

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August 7, 2008

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Tables

Figures

Appendices

1. Introduction

This Operable Unit 3 (OU3) Soil Gas Interim Remedial Measure (soil gas IRM) Interim Operation, Maintenance, and Monitoring Report and Startup Summary were prepared by ARCADIS of New York, Inc. (ARCADIS) on behalf of Northrop Grumman Systems Corporation (Northrop Grumman). This report is being submitted pursuant to the Order On Consent (Consent Order or CO) Index # W1-0018-04-01 that was executed by the New York State Department of Environmental Conservation (NYSDEC) and Northrop Grumman, effective July 4, 2005 (NYSDEC 2005). The present day Bethpage Community Park property (Park), which the NYSDEC has termed the "Former Grumman Settling Ponds Area" and designated as OU3, is referred to herein as the Site. A site location map is provided on Figure 1.

This report summarizes the startup/shakedown, troubleshooting, and routine operation, maintenance and monitoring (OM&M) activities for the soil gas IRM performed from January 28 through June 2, 2008. System startup/shakedown was completed between January 28, 2008 and May 19, 2008 in accordance with the System Startup Plan, which was provided to the NYSDEC on February 8, 2008 as Attachment C-2 of the Soil Gas Interim Remedial Measure Sampling and Analysis Plan (ARCADIS 2008). The Sampling and Analysis Plan was provided to the NYSDEC as Appendix C of the Soil Gas Interim Remedial Measure 95% Design Report and Design Drawings dated September 7, 2007 (ARCADIS 2007). The Sampling and Analysis Plan was approved by the NYSDEC in a letter dated August 1, 2008 (NYSDEC 2008). In addition, this report provides a brief summary of the soil management activities and analytical results that were completed during the construction of the soil gas IRM. The Soil Management Plan and addendums were approved by the NYSDEC on November 16, 2007, December 7, 2007, and January 7, 2008 in accordance with the Soil Management Plan dated November 9, 2007, as amended by letters to NYSDEC dated November 27, 2007 and January 4, 2008.

A description of the soil gas IRM system startup/shakedown and OM&M activities completed during the reporting period is provided below.

2. Soil Gas Interim Remedial Measure System Description

The OU3 soil gas IRM was constructed in accordance with the Soil Gas Interim Remedial Measure 95% Design Report and Design Drawings which was approved by the NYSDEC on September 19, 2007. A general site plan that shows the major process equipment, depressurization, and monitoring well locations is provided on

Figure 2. A process flow diagram that shows sampling and monitoring locations is provided on Figure 3. A complete set of as-built drawings will be provided, under separate cover, as part of the Operation, Maintenance and Monitoring Manual.

In summary, the soil gas IRM consists of the following major components:

- 18 depressurization wells and 47 associated induced vacuum monitoring wells at the locations shown on Figure 2.
- Two (2) "dry-van" type storage containers, which contain the following equipment:
  - Three (3) 52-gallon moisture separators to remove condensate from the influent vapor stream;
  - Two (2) 20-horsepower(hp) and one (1) 30-hp regenerative type depressurization blowers;
  - A programmable logic controller (PLC) based control system;
  - An autodialer;
  - Associated piping, valves, sample ports, gauges, electrical equipment, and other devices necessary to safely control, operate, and monitor the system.
- One (1) heat exchanger to condition the effluent vapor stream prior to treatment; and,
- One (1) 10,000 pound (lb) vapor phase granular activated carbon bed (VPGAC).

A detailed description of the system will be provided in the Operations, Maintenance, and Monitoring Manual to be provided to the NYSDEC under separate cover. A description of the soil gas IRM system startup/shakedown and OM&M activities completed during the current reporting period is provided below.

3. Operation and Maintenance Activities

The following section provides a summary of the operation and maintenance activities completed during the referenced reporting period. A summary of the system startup/shakedown methodology and results is also provided.

3.1 System Mechanical Startup/Shakedown

System mechanical startup/shakedown was completed, in accordance with the System Startup Plan (ARCADIS 2008), during the weeks of January 28, 2008 and February 4, 2008. In summary, system mechanical startup/shakedown consisted of the following major components:

- Off-site testing of all major mechanical equipment, alarms, interlocks, and controls to ensure proper operation and motor rotation (in accordance with the specifications and manufacturer's requirements); this initial testing was completed by the equipment supplier within their construction yard prior to shipment to the Site;

- On-site testing of all major mechanical equipment, alarms, interlocks, and controls to ensure proper operation and motor rotation (in accordance with the specifications and manufacturer's requirements) prior to connecting the system to the depressurization wells;

- On-site testing of all electrical controls (i.e., level switches, transmitters, alarms etc.) to ensure proper operation (in accordance with the specifications and manufacturer's requirements) prior to connecting the system to the depressurization wells; and

- Final on-site troubleshooting and shakedown of the Main Control Panel (MCP).

A copy of the completed mechanical startup/shakedown testing forms will be provided in the Operation, Maintenance and Monitoring Plan to be provided under separate cover. In summary, the offsite and onsite mechanical startup/shakedown testing described above confirmed that the system mechanical and electrical components, including system alarms, were constructed and operated as designed.

The final phase of the mechanical startup/shakedown period was completed on February 6, 2008 and consisted of a brief operating period with the depressurization

wells connected to the system. During this final phase of mechanical startup/shakedown, the depressurization wells were balanced for vacuum and flow in accordance with their initial design parameters provided in the 95% Design Report (ARCADIS 2007). Full time system operation began on February 18, 2008.

During the first two months of system operation, it was observed that the system performance was exceeding the design objectives. Specifically, induced vacuum monitoring data indicated that the combined capture zone of individual depressurization wells was far greater than anticipated based on the results of the pneumatic conductivity testing. The extended capture zone resulted in the recovery of vinyl chloride (VC) from areas outside of the design/target area. To evaluate the situation, ARCADIS petitioned the NYSDEC to extend the startup/troubleshooting period and NYSDEC granted approval. Accordingly, ARCADIS conducted a series of "extended" startup/troubleshooting OM&M site visits between March 18, 2008 and May 19, 2008 to troubleshoot and rebalance the depressurization wells in accordance with design objectives. The final depressurization well set points were established on April 10, 2008. The adjusted depressurization well capture zones resulted in an immediate decline in the recovery of VC. Furthermore, because the depressurization wells operated more efficiently than anticipated, the design capture zone was achieved through operation of 20 hp Blower BL-300 only. Accordingly, Blowers BL-200 and BL-400 were put on standby and have been offline since April 10, 2008.

Discussion of the system startup monitoring program and results is provided in subsequent sections of this report.

3.2 Routine Operation and Maintenance

The soil gas IRM operated continuously during the reporting period with only brief system shutdowns to perform routine maintenance or troubleshooting activities. Routine O&M activities were completed on a monthly basis following full time system operation on February 18, 2008. Routine O&M activities included inspection of all piping, appurtenances, and mechanical equipment for leaks, defects, or other problems and maintenance of equipment in accordance with the manufacturers' specifications.

Discussion of the routine OM&M program and results is provided in the subsequent sections of this report.

4. Monitoring Activities

The following sections summarize the methodology used for system startup/shakedown monitoring, routine performance monitoring, and routine compliance monitoring during the current reporting period.

4.1 System Startup/Shakedown Monitoring

System startup/shakedown monitoring was completed in accordance with the System Startup Plan, which was provided as Attachment C-2 of the Soil Gas Interim Remedial Measure Sampling and Analysis Plan dated February 8, 2008 (ARCADIS 2008). A discussion of deviations from the methodology described in the System Startup Plan, including the extended startup monitoring period for system rebalancing, is provided below.

4.1.1 System Operating Parameters

System operating parameters were collected in accordance with Table C-1.1 and Attachments C-1.1 through C-1.3 of the System Startup Plan. The primary deviation from the methodology described for the first 28 days of system startup was that due to time restraints caused by troubleshooting activities, system operating parameters were only collected once during Day 1 of startup.

Extended system startup operating parameter collection events were conducted on April 16 and May 19, 2008 to evaluate and confirm the system rebalancing troubleshooting activities described previously. Operating parameters were generally collected in accordance with the same criteria referenced in Attachments C-1.1 through C-1.3 of the System Startup Plan.

4.1.2 Vapor Samples

System vapor samples were collected in accordance with Table C-1.1 of the System Startup Plan for both qualitative (photoionization detector [PID]) and quantitative analysis (laboratory analysis). The primary deviation of the methodology described for the first 28 days of system startup was that, due to a sampling error, the Depressurization Well DW-3S sample for laboratory analysis was collected on February 25 instead of during Day 1 of startup (i.e., February 18, 2008).

Extended system vapor sample collection events were conducted on April 16 and May 19, 2008 to evaluate and confirm the system rebalancing troubleshooting activities described previously. Similar to the first 28 days of startup, the additional sampling included the collection of vapor samples for both qualitative and quantitative analysis. Specifically, qualitative samples were collected from the individual depressurization wells and from the total influent and total effluent from the VPGAC. Total influent (VSP-601) and total effluent (VSP-602) vapor samples were submitted for laboratory analysis of site related constituents of concern (COCs) using EPA Method TO-15+, as outlined in the Sampling and Analysis Plan. In addition, vapor samples were collected and submitted for laboratory analysis from individual Depressurization Wells DW-3S, DW-7S, DW-4D, and DW-3D. These four samples were submitted to Air Toxics, Ltd. located in Folsom, California and analyzed for VOCs using their proprietary-modified EPA Method TO-15.

4.1.3 Condensate Samples

System condensate samples were collected from Moisture Separators KO-200 and KO-300 and Condensate Storage Tank ST-510 on March 17, 2008 in accordance with Table C-1.1 of the System Startup Plan. A condensate sample could not be collected from Moisture Separator KO-400 due to the lack of water generation during the reporting period.

4.2 Routine Performance Monitoring

Routine performance monitoring was completed on June 2, 2008, in accordance with Table C-1 of the Sampling and Analysis Plan. A brief discussion of the routine performance monitoring methodology and/or deviations from the methodology described in the Sampling and Analysis Plan is provided below.

4.2.1 System Operating Parameters

System operating parameters that fall under the performance monitoring program include the parameters listed in Attachments C-3.2 and C-3.3 of the Sampling and Analysis Plan. There were no significant deviations from the recording of these parameters during the routine monitoring event.

4.2.2 Vapor Samples

One (1) routine performance monitoring vapor sample was collected for laboratory analysis from the total influent sample location (VSP-601) during the June 2, 2008 monitoring event. The sample was collected and submitted to the laboratory in accordance with the requirements set forth in the Sampling and Analysis Plan. In addition, supplemental performance monitoring vapor samples were collected from all individual depressurization wells for quantitative analysis using a PID.

4.3 Routine Compliance Monitoring

Routine compliance monitoring was completed on June 2, 2008 in accordance with Table C-1 of the Sampling and Analysis Plan. A brief discussion of the routine compliance monitoring methodology and/or deviations from the methodology described in the Sampling and Analysis Plan is provided below.

4.3.1 System Operating Parameters

System operating parameters that fall under the compliance monitoring program include the compliance related induced vacuum measurements listed in Attachments C-3.1 of the Sampling and Analysis Plan. There were no significant deviations from the recording of these parameters during the routine monitoring event.

4.3.2 Vapor Samples

One (1) routine compliance monitoring vapor sample was collected for laboratory analysis from the total effluent sample location (VSP-602) during the June 2, 2008 monitoring event. The sample was collected and submitted for laboratory analysis in accordance with the requirements set forth in the Sampling and Analysis Plan.

4.3.3 Condensate Samples

A compliance monitoring condensate sample was not collected for laboratory analysis between May 19, 2008 and June 2, 2008 due to a lack of water generation. However, the system startup/shakedown sample that was collected on March 17, 2008 from Storage Tank ST-510 will be used to satisfy the requirements set forth in the County of Nassau Department of Public Works discharge approval letter dated October 16, 2007 (County of Nassau, 2007). The sample was collected and submitted to the laboratory in accordance with the requirements set forth in the Sampling and Analysis Plan.

5. Monitoring Results and Discussion

The following sections summarize and briefly discuss the results for system startup/shakedown monitoring, routine performance monitoring, and routine compliance monitoring during the current reporting period.

5.1 System Startup/Shakedown Monitoring

This following section summarizes the results of the system startup/shakedown monitoring program.

5.1.1 System Operating Parameters

A summary of the system performance monitoring startup/shakedown operating parameters and water-level measurements for February 18, 2008 through May 19, 2008 is provided in Table 1. A summary of the system startup/shakedown induced vacuum measurements is provided in Table 2.

Except as described below, the system generally operated as anticipated and designed during the initial 28-day startup period (i.e., February 18, 2008 through March 17, 2008 [see Tables 1 and 2]). The primary deviation from the 95% design assumptions observed during the initial 28-day startup period was that the depressurization well network operated significantly more efficient (i.e., larger capture zones with a lower required flowrate and wellhead vacuum) than anticipated. This observation, combined with the observation of VC at elevated levels in the influent vapor stream (discussed further in Section 5.1.2), prompted rebalancing of the depressurization wells during the extended startup period, as previously discussed. Key data and observations are as follows:

- The observed wellhead vacuum and extraction flowrate at deep Depressurization Wells DW-7D, DW-3D, DW-5D, DW-6D, DW-1D, and DW-2D were similar to their design parameters during the initial 28-day startup period.

- The observed wellhead vacuum at deep Depressurization Well DW-4D was lower than anticipated during the initial 28-day startup period. Specifically, the design wellhead vacuum was -33.5 inches of water column (iwc) whereas the actual observed vacuum ranged from -3 iwc to -1.5 iwc.

- The observed wellhead vacuum and extraction flowrate at shallow Depressurization Wells DW-1S, DW-2S, DW-3S, DW-4S, DW-6S, DW-7S, DW-8S, DW-9S, DW-10S, and DW-11S were similar to their design parameters during the initial 28-day startup period.

- The observed extraction flowrate at shallow Depressurization Well DW-5S was generally lower than anticipated during the initial 28-day startup period. Specifically, the design flowrate was 150 standard cubic feet per minute (scfm) at -3.9 iwc whereas the actual observed parameters were typically 20 scfm at -2.5 iwc to -1.5 iwc.

- The average induced vacuum reading for compliance-related monitoring points (for discussion purposes herein, compliance-related monitoring points are those monitoring points that are located the furthest lateral distance away from a respective depressurization well and include Monitoring Wells VMWC-3A, 3B, 3C, 3D, 7A, 7B, 11B, 12D, 13D, 14A, 14B, 14D, 15A, 15B, 15D, 16A, 16B, 16D, 17D, 18A, and 18B) measured during the initial 28-day startup period was approximately -0.317 iwc. This value is higher than the design induced vacuum of -0.1 iwc.

- The average induced vacuum reading at non-compliance monitoring points (non-compliance monitoring points include all monitoring points that are not designated as compliance monitoring points) measured during the initial 28-day startup period, was approximately -0.64 iwc.

- The average induced vacuum reading for compliance-related monitoring points measured during the extended startup period was approximately -0.137 iwc.

- The average induced vacuum reading at non-compliance related monitoring points measured during the extended startup period was approximately -0.35 iwc.

- The depressurization blowers operated in accordance with their respective blower curves based on their respective total influent vacuum, total effluent pressure, and total extraction flowrates.

- Condensate water was generated at a rate lower than the anticipated design generation rate. Specifically, approximately 178 gallons of condensate water was generated from Condensate Knockout Tanks KO-200 (99 gallons), KO-300

(79 gallons), and KO-400 (0-gallons), respectively during the initial and extended startup/shakedown period.

- Perched water was not encountered in induced vacuum monitoring wells VMWC-1C or VMWC-5B.

- The heat exchanger influent temperature was lower than the design influent temperature of 150 degrees Fahrenheit (deg F) during the initial and extended startup period and ranged from 104 deg F to 85 deg F. The lower observed temperature is the direct result of more efficient system operation (e.g., lower required vacuum, flowrate, and pressure to achieve the design capture zone). Specifically, the depressurization blowers operate lower on their respective blower curves resulting in less motor heat generation and transfer. Accordingly, the heat exchanger was put on standby (e.g., not operational) because the vapor stream required no additional conditioning prior to entering the VPGAC unit.

A summary of system startup vapor and condensate sample field and laboratory analytical results is provided below.

5.1.2 Vapor Samples

A summary of the system startup/shakedown qualitative vapor sample analytical results (i.e., PID readings) is provided in Table 1. A summary of the system startup/shakedown individual depressurization well vapor sample laboratory analytical results for detected compounds is provided in Table 3. A summary of the system startup/shakedown total influent and total effluent vapor sample laboratory analytical results for detected compounds is provided in Table 4. A summary of all vapor sample analytical results (including detected, non-detect, and tentatively identified compounds [TICs]) is provided in Appendix A.

In general, depending on the specific location sampled, the individual depressurization well influent quantitative and qualitative volatile organic compound (VOC) analytical results varied (i.e., higher or lower) compared to their respective design concentrations. However, the overall combined total influent concentration was generally consistent with the design concentrations during the initial and extended startup/shakedown period. As discussed previously, VC was unexpectedly observed at elevated concentrations beginning with the March 2, 2008 startup monitoring event and ending with the May 19, 2008 extended startup monitoring event. The decrease in VC observed during the May 19, 2008 event is attributed to the system

troubleshooting/rebalancing activities completed during the extended startup period. Specific observations from applicable laboratory analytical data are as follows:

- Total VOCs (TVOC) concentrations for Depressurization Wells DW-7S (44,510 micrograms per meter cubed [ug/m3]), DW-7D (137,380 ug/m3), DW-3S (3,844 ug/m3), and DW-1D (1,907 ug/m3) were higher than their respective design concentrations.

- TVOC concentrations for Depressurization Wells DW-3D (74,448 ug/m3), DW-5S (471 ug/m3) , DW-5D (1,676 ug/m3), DW-6S (674 ug/m3), DW-6D (1,994 ug/m3), DW-8S (1,189 ug/m3), DW-9S (349 ug/m3), DW-10S (214 ug/m3), and DW-11S (282 ug/m3) were lower than their respective design concentrations.

- TVOC concentrations for Depressurization Wells DW-1S (778 ug/m3), DW-4S (1,669 ug/m3), DW-4D (1,832 ug/m3), DW-2S (1,328 ug/m3), and DW-2D (987 ug/m3) were consistent with their respective design concentrations.

- The TVOC concentration for the total influent sampling location (i.e., VSP-601) was slightly higher than its' respective design concentration for Day 1 of system startup/shakedown (20,622 ug/m3) but steadily declined to below its' respective design concentration thereafter. Specifically, the TVOC concentration was 2,118 ug/m3 during the final monitoring event (May 19, 2008) conducted during the extended startup period. This trend is typical for depressurization systems due to continuous flushing/recovery of the pore vapors and generation of ambient air flow paths into the subsurface as a result of the negative pressure gradient established through depressurization.

- The TVOC concentration for the total effluent sampling location (i.e., VSP-602 – located after treatment through the VPGAC unit) was as expected and ranged from below the limits of detection during Day 1 of system startup to a maximum of 920 ug/m3 observed during the March 17, 2008 monitoring event. The increase in TVOCs during the March 17, 2008 monitoring event was a direct result of the capture of VC discussed above. However, the concentration of VC dropped significantly as a result of the system troubleshooting/rebalancing activities completed during the extended startup period. Specifically, the concentration of VC was 65 ug/m3 during the May 19, 2008 monitoring event. Despite the presence of VC in the effluent air stream, the cumulative air emissions for VC is still significantly lower than its respective emissions limit. A

description of the air emissions modeling results are provided in Section 6 of this report.

- Several TICs were detected in individual depressurization wells with cumene being detected most consistently.

- Several TICs were also identified in the total influent and total effluent vapor samples. Currently, ARCADIS does not believe that further investigation is warranted based on the TIC data. However, TICs will continue to be evaluated in future monitoring events. It should be noted that cumene was not detected in the total influent and total effluent vapor samples.

A summary of system startup condensate sample laboratory analytical results is provided below.

5.1.3 Condensate Samples

A summary of the system startup/shakedown condensate sample laboratory analytical results for detected compounds is provided in Table 5. A summary of laboratory analytical results for all compounds (including detected, non-detect, and TICs) is provided in Appendix B.

Except as described below, condensate sample laboratory analytical results were as anticipated and contained generally low levels of site-related VOCs. 2-Butanone (MEK) was detected at a comparatively elevated concentration of 1 milligrams per liter (mg/L) and 1.3 mg/L for Moisture Separators KO-200 and KO-300, respectively. It is unclear if the presence of this compound is the result of system construction activities (e.g., PVC glue/primer, etc.) or if it is a site-related COC.

Laboratory analytical results for Storage Tank ST-510 (i.e., sample ID WSP-510) generally contained the same suite of compounds observed within individual Moisture Separators KO-200 and KO-300 but at comparatively lower concentrations. The lower concentration observed in the storage tank is likely the result of volatilization.

Several TICs were identified in the condensate samples. Currently, ARCADIS does not believe that the data warrant additional investigation at this time. ARCADIS will continue to monitor TIC data during future sampling events.

5.2 Routine Performance Monitoring

This following section summarizes the results of the routine system performance monitoring event completed on June 2, 2008.

5.2.1 System Operating Parameters

A summary of the performance monitoring system operating parameters for the June 2, 2008 monitoring event is provided in Table 1. A summary of non-compliance (e.g., performance monitoring) induced vacuum measurements is provided in Table 2.

As shown in Table 1, system operating parameters recorded in June 2008 remained consistent with operating parameters recorded during the final extended startup/shakedown monitoring event conducted in May 2008. These data suggest that the system is running as designed and is maintaining a negative pressure curtain along the southern and western property boundaries. Additional key data and observations are as follows:

- The observed wellhead vacuum and extraction flowrate remained generally consistent in all depressurization wells when comparing May 19, 2008 to June 2, 2008 monitoring data.
- The average induced vacuum reading at non-compliance monitoring points was approximately-0.312 iwc for all monitoring points measured during the June 2008 monitoring event.
- Condensate water was not generated between May 19, 2008 and June 2, 2008.
- Perched water was not encountered in induced vacuum monitoring wells VMWC-1C or VMWC-5B.
- The heat exchanger influent temperature (85 deg F) remained lower than the design influent temperature of 150 degrees. Accordingly, the heat exchanger was kept on standby between May 19, 2008 and June 2, 2008.

5.2.2 Vapor Samples

A summary of the June 2008 qualitative vapor sample analytical results is provided in Table 1. A summary of the June 2008 total influent vapor sample laboratory analytical

results for detected compounds is provided in Table 4. A summary of all vapor sample analytical results (including detected, non-detect, and tentatively identified compounds [TICs]) is provided in Appendix A.

Qualitative vapor analyses (e.g., PID) were consistent with startup/shakedown data and were generally below the limits of detection for all samples collected. Total influent (VSP-601) laboratory analytical results for the June 2, 2008 monitoring event were consistent with analytical results from May 19, 2008. Specifically, TVOC concentrations were 2,232 ug/m3) during the June 2008 monitoring event. VC concentration was below the limits of detection.

Chlorodifluoromethane and an unknown CFC were reported as TICSs by the laboratory during the June 2008 monitoring event. However, ARCADIS does not believe that further investigation is warranted at this time.

5.3 Routine Compliance Monitoring

This following section summarizes the results of the routine system compliance monitoring event completed on June 2, 2008.

5.3.1 Induced Vacuum Measurements

Induced vacuum measurements collected during the June 2, 2008 monitoring event are summarized in Table 2. As referenced in the 95% Design Report, the soil gas IRM was designed to maintain a negative pressure of -0.1 iwc on a time-weighted rolling average within all monitoring points. Accordingly, the time-weighted rolling average for all induced vacuum monitoring points has been provided in Table 2. As shown on Table 2, the rolling average for all individual monitoring points was greater than -0.1 iwc as of June 2, 2008. Specifically, the average induced vacuum for compliance monitoring wells during the June 2, 2008 monitoring event was -0.146 iwc which indicate that the soil gas IRM is operating as designed.

5.3.2 Vapor Samples

A summary of the June 2008 qualitative vapor sample analytical results is provided in Table 1. A summary of the June 2008 total effluent vapor sample laboratory analytical results for detected compounds is provided in Table 4. A summary of all vapor sample analytical results (including detected, non-detect, and tentatively identified compounds [TICs]) is provided in Appendix A.

Qualitative vapor analyses (e.g., PID) were consistent with startup/shakedown data and were below the limits of detection. Total effluent (VSP-602) laboratory analytical results for the June 2, 2008 monitoring event were consistent with analytical results from May 19, 2008. Specifically, the TVOC concentration was 274 ug/m3 during the June 2008 monitoring event. VC detected at a concentration (13 ug/m3) that is slightly above the limits of detection. A summary of the air emissions model completed to confirm compliance with applicable air discharge standards is provided in Section 6.

5.3.3 Condensate Samples

As discussed previously, laboratory analytical results for Storage Tank ST-510 collected on March 17, 2008 will be used for compliance monitoring purposes during the current reporting period. TVOC were detected at a concentration of 0.515 mg/L, which is below the discharge standard of 1 mg/L set forth by the Town of Oyster Bay.

6. Air Emissions Model

Effluent vapor laboratory analytical results were compared to the NYSDEC Division of Air Resources Air Guide-1 (DAR-1) Short-term Guideline Concentrations (SGCs). In addition, effluent vapor laboratory analytical results were compared to a site-specific modeled annual maximum allowable stack concentration. The annual maximum allowable stack concentration (MASC) was calculated during each monitoring event for individual compounds using the output from a United States Environmental Protection Agency (USEPA) Screen 3 model in conjunction with the NYSDEC DAR-1 Annual Guideline Concentrations (AGCs). Specifically, a scaling factor was calculated using the SCREEN3 model with site-specific physical layout (e.g., building dimension, stack height, terrain, etc.) and operating data (e.g., discharge flowrate, temperature, etc.) inputs for each monitoring event. The scaling factor was then used to adjust (scale) the NYSDEC DAR-1 AGC to a site-specific annual MASC. A summary of the instantaneous percent (e.g., not time-weighted) of the site-specific annual MASC for detected compounds is provided in Table 6. A summary of the cumulative annual percent (e.g., time-weighted) of the site-specific MASC for detected compounds is also provided on Table 6. A summary of the model input, outputs, and backup calculations is provided in Appendix C.

In summary, the soil gas IRM effluent vapor met applicable air discharge criteria based on the following:

- The actual concentrations of individual VOCs in the vapor effluent did not exceed their respective SGCs during all monitoring events (Table 3). It should also be noted that all influent (e.g., prior to treatment) individual VOC concentrations were also below their respective SGCs.

- The actual concentration of individual VOCs in the vapor effluent did not exceed their respective instantaneous MASCs as calculated using the USEPA SCREEN 3 Model (Table 6). Similarly, the time-weighted rolling average for all detected compounds is currently well below the MASCs. It should be noted that the instantaneous percent of the site-specific annual MASC for all detected compounds was less than 1-percent during the June 2008 monitoring event and has been declining since the March 17, 2008 monitoring event. It is anticipated that this trend will continue based on the system rebalancing/troubleshooting activities described previously.

7. System Construction Soil Management Summary

As discussed in Section 1 of this report, soils containing constituent concentrations (e.g., VOCs, metals, and polychlorinated biphenyls [PCBs]) above applicable cleanup standards were encountered and managed during the construction of the soil gas IRM. Soils were managed in accordance with the NYSDEC approved Soil Management Plan. A summary of the laboratory analytical results (i.e., waste profile) and waste manifests has been provided in Appendix D. Additionally, a summary of analytical results and delivery tickets for imported recycled concrete aggregate (RCA) and backfill that was used as structural fill during system construction has also been provided.

8. Conclusions and Recommendations

Based on the information provided herein, ARCADIS makes the following conclusions:

8.1 Conclusions

- The off-site and on-site mechanical soil gas IRM system startup/shakedown testing confirmed that the system mechanical and electrical components, including system alarms, were constructed and operate as designed.

- System startup operating parameters collected during the initial 28-day system startup period indicate that the depressurization wells operate more efficiently

than anticipated resulting in large capture zones that exceeded design parameters. This resulted in the recovery of VC from on-site locations outside of the design capture zone. Accordingly, the system startup period was extended and additional troubleshooting/well rebalancing was performed.

- Induced vacuum measurements and influent vapor analytical data collected during the extended system startup period indicated that the rebalancing efforts were successful in achieving its' objectives. Specifically, the capture zones were lowered to their respective design values. To achieve the reduced recovery rates, Blowers BL-200 and BL-400 were taken offline and the depressurization well flowrates were rebalanced.

- VPGAC influent temperature data indicate that the heat exchanger is currently not required to condition the air prior to treatment. Accordingly, the heat exchanger was taken offline and is currently on standby.

- VPGAC effluent data indicate that the VPGAC unit is removing trichloroethylene from the influent vapor stream as designed.

- Condensate water analytical data from Storage Tank ST-510 indicate that the condensate water is in compliance with the discharge requirements set forth by the Town of Oyster Bay POTW.

- June 2008 compliance monitoring results indicate that the system continues to operate as designed. Specifically, a time-weight average induced vacuum of greater than -0.1 iwc was achieved in all induced vacuum monitoring points.

- The actual concentrations of individual VOCs in the vapor effluent did not exceed their respective SGCs during the reporting period.

- The actual concentration of individual VOCs in the vapor effluent did not exceed their respective MASCs as calculated using the USEPA SCREEN 3 model. In addition, the instantaneous percent of the site-specific annual MASC for all detected compounds was less than 1-percent during the June 2008 monitoring event.

8.2 Recommendations

Based on the information provided herein, ARCADIS makes the following recommendations:

- Continue operating the system in accordance with system operating parameters implemented during the extended system startup period.

- Continue to collect system operational data and influent and effluent vapor samples for laboratory analysis on a monthly basis for the next two operating months (e.g., July and August 2008). If data is favorable and continue to indicate a stable trend for all operating parameters and vapor analytical data, perform performance and compliance monitoring on a quarterly basis thereafter.

- Collect induced vacuum measurements from the list of compliance related induced vacuum monitoring wells only during future monitoring events. Non-compliance related induced vacuum monitoring data shall only be collected when system troubleshooting is required, based on the results of compliance related induced vacuum data.

9. References

ARCADIS of New York, Inc. 2007. 95% Design Report, Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York, Site #1-30-003A September 7, 2007.

ARCADIS of New York, Inc. 2008. 95% Design Report, Appendix C, Sampling and Analysis Plan, Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York, Site #1-30-003A February 8, 2008.

ARCADIS of New York, Inc. 2008. 95% Design Report, Attachment C-2, System Startup Plan, Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York, Site #1-30-003A January 29, 2008.

ARCADIS 2007. Letter to Steve Scharf re: Soil Management Plan dated November 9, 2007

ARCADIS 2008. Letter to Steve Scharf re: Addendum to Soil Management Plan dated November 27, 2008.

ARCADIS 2008. Letter to Steve Scharf re: Addendum to Soil Management Plan dated January 4, 2008.

New York State Department of Environmental Conservation (NYSDEC), 2008, Approval Letter regarding Former Grumman Settling Ponds, NYSDEC Nassau County Site No. 1-30-003A OU3 (Bethpage Community Park), August 1, 2008.

New York State Department of Environmental Conservation (NYSDEC), 2005, Order on Consent Index #WI-0018-04-01, Site # 1-30-003A, July 4, 2005.

New York State Department of Environmental Conservation, Division of Air Resources-1 (DAR-1) Guidelines for the Control of Toxic Ambient Air Contaminants dated 1991 and the AGC/SGC Tables dated December 22, 2003.

County of Nassau Department of Public Works Letter, Discharge IRM Condensate Water Northrop, Grumman, OU3 Site, Bethpage, New York. October 16, 2007.

Table 1. Summary of General System Operating Parameters, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

Date	Extraction Well DW-7S Parameters					Extraction Well DW-7D Parameters				
	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum
	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)
2/18/08(1)	58	-3.55	55.7	7.2	-2.0	76	-7.2	56.1	29.3	-2.5
2/19/08(1)	53	-3.80	NM	9.7	-2.0	78	-7.4	NM	26.7	-2.5
2/25/08(1)	55	-5.5	NM	4.2	-2.0	74	-13	NM	5.8	-2.7
3/3/08(1)	53	-6	NM	2.8	-2.0	84	-13.0	NM	0.8	-2.7
3/17/08(1)	76	-9	NM	2.6	-2.5	50	-8.00	NM	0.4	-2.0
04/16/08	84.97	-10.46	50.3	2.7	NM	41.10	-2	55.4	2.0	NM
05/19/08	72.43	-5.0	57.0	5.0	-4.0	19.76	-0.800	62.2	2.1	-1.5
06/02/08	86.01	-5.8	65.8	0.0	-1.8	23.40	-0.7	72.8	0.0	-0.9

Date	Extraction Well DW-3S Parameters					Extraction Well DW-3D Parameters				
	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum
	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)
2/18/08(1)	80	-7.3	55.7	2.8	-2.5	113	-15.43	53.9	13.3	-4.5
2/19/08(1)	45	-2.5	NM	6.5	-1.75	108	-16.3	NM	16.4	-3.5
2/25/08(1)	37	-2.03	NM	2.1	-1.5	71	-26	NM	6.6	-2.7
3/3/08(1)	45	-2.5	NM	1.2	-1.5	88	-16	NM	1.9	-2.7
3/17/08(1)	45	-2.8	NM	1.1	-2.0	83	-16	NM	0.1	-2.7
04/16/08	15.48	-0.41	58.6	0.6	NM	28.56	-1.07	57.0	4.6	NM
05/19/08	14.98	-0.45	62.2	0.0	-2.0	23.35	-2.0	59.3	3.5	-3.0
06/02/08	16.09	-0.4	71.0	0.0	-1.1	26.95	-2.0	71.7	0.0	-1.3

Date	Extraction Well DW-5S Parameters					Extraction Well DW-5D Parameters				
	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum
	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)
2/18/08(1)	100	-4.6	57.2	0.0	-3.0	52	-16.1	56.8	0.0	-13.5
2/19/08(1)	57	-2.5	NM	0.0	-2.0	52	-18	NM	0.0	-13.5
2/25/08(1)	20	-1.05	NM	0.4	-1.5	56	-24.1	NM	0.0	-17.5
3/3/08(1)	20	-1.4	NM	0.8	-1.5	66	-27	NM	0.0	-15.2
3/17/08(1)	20	-1.5	NM	0.0	-2.5	70	-32	NM	0.0	-25.0
04/16/08	34.44	-0.77	55.0	0.0	NM	33.95	-0.22	57.5	0.6	NM
05/19/08	77.92	-2.5	59.9	2.5	-2.5	19.73	-14.0	59.0	0.0	-10.5
06/02/08	86.18	-2.3	65.4	0.0	-2.8	16.56	-14.0	74.3	0.0	-10.0

Notes and Abbreviations:

°F - Degrees Fahrenheit
DW- Depressurization well
ft bmp - Feet below measuring point
iwc - Inches of water column
NM -Not measured
scfm - Standard cubic feet per minute
ppmv - Parts per million by voulme
VMWC - Vapor monitoring well cluster

1. Flow rate at manifold on associated dates quantified using venturi flow meter and associated flow chart. Remaining flow rates measured with a hotwire anemometer and calculated to standard conditions using the formula below.
2. Access point covered by insulation no measurement taken during this round.
3. Blowers BL-200 and BL-400 were taken off-line on April 10th during system rebalancing.
4. Field recording error suspected.

Standard Conditions Calculation:

$$scfm = Flowrate*Area*(Ts/Tm)*(Pm/Ps)$$

Flowrate in feet per minute
Area in square feet
Ts - Standard Temperature in Rankine
Tm - Measured Temperature in Rankine
Pm - Measured Pressure in pounds per square inch
Ps - Standard Pressure in pounds per square inch

Table 1. Summary of General System Operating Parameters, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

	Extraction Well DW-6S Parameters					Extraction Well DW-6D Parameters					Extraction Well DW-1S Parameters					Extraction Well DW-1D Parameters					Extraction Well DW-4S Parameters					Extraction Well DW-4D Parameters				
Date	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum	Flow Rate at Manifold	Flow Rate at Manifold	Vacuum at Manifold	Temperature at Manifold	PID Measured Concentration	Wellhead Vacuum
	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(iwc)	(°F)	(ppmv)	(iwc)	(scfm)	(fpm)	(iwc)	(°F)	(ppmv)	(iwc)
2/18/08[1]	170	-13.1	55.0	0.0	-6.0	44	-16.0	60.2	0.0	-14.0	160	-11.8	54.1	0.0	-5.0	20	-16.8	62.4	0.0	-15.0	170	-12.0	54.6	0.0	-2.0	8	268	-2.0	60.8	0.0	-3.0
2/19/08[1]	167	-13.6	NM	0.0	-6.0	48	-17.5	NM	0.0	-14.0	235	-19.78	NM	0.0	-8.0	20	-18	NM	0.0	-16.0	155	-13.5	NM	0.0	-5.5	8	253	-1.95	NM	0.0	-1.5
2/25/08[1]	167	-16.0	NM	0.0	-6.0	94	-23.5	NM	0.0	-20.5	228	-25.4	NM	NM	-7.2	28	-24.25	NM	0.0	-25.0	160	-16.0	NM	0.0	-5.5	8	160	-1.1	NM	0.0	-2.0
3/3/08[1]	170	-16.0	NM	0.5	-5.5	55	-25.2	NM	0.0	-20	208	-26.79	NM	0.1	-7.0	32	-26.5	NM	0.0	-25.0	160	-16.0	NM	1.1	-5.70	8	110	-1.0	NM	0.0	-2.0
3/17/08[1]	185	-22	NM	0.0	-6.0	65	-31	NM	1.2	-22	208	-29	NM	0.0	-7.5	32	-32.6	NM	0.0	-30	176	-26	NM	0.0	-6.0	8	124	-1.25	NM	0.0	-1.75
4/16/2008	49.50	-1.44	53.6	0.2	NM	10.55	-1.86	57.5	1.9	NM	89.48	-3.31	52.3	0.0	NM	3.97	-0.79	61.3	0.0	NM	46.16	-1.43	55.5	0.0	NM	9.27	214	-0.48	60.6	0.0	NM
05/19/08	42.93	-1.2	61.8	2.5	-1.3	11.47	-2.6	60.0	0.0	-2.0	147.62	-10.5	55.5	0.0	-4.5	6.60	-1.8	64.4	0.3	-2.5	32.14	-1.0	61.7	1.7	-2.7	15.01	349	-1.1	63.3	0.6	-2.2
06/02/08	48.18	-1.2	68.0	0.0	-1.2	14.88	-2.2	72.5	0.0	-2.5	179.95	-10.3	61.3	0.0	-4.2	8.54	-1.8	74.1	0.0	-5.1	30.98	-0.7	66.2	0.0	-2.1	17.44	412	-1.2	71.6	0.0	-2.7

Notes and Abbreviations:

°F - Degrees Fahrenheit
DW- Depressurization well
ft bmp - Feet below measuring point
iwc - Inches of water column
NM -Not measured
scfm - Standard cubic feet per minute
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1. Flow rate at manifold on associated dates quantified using venturi flow meter and associated flow chart. Remaining flow rates measured with a hotwire anemometer and calculated to standard conditions using the formula below.
2. Access point covered by insulation no measurement taken during this round.
3. Blowers BL-200 and BL-400 were taken off-line on April 10th during system rebalancing.
4. Field recording error suspected.

Standard Conditions Calculation:

scfm = Flowrate*Area*(Ts/Tm)*(Pm/Ps)

Flowrate in feet per minute
Area in square feet
Ts - Standard Temperature in Rankine
Tm - Measured Temperature in Rankine
Pm - Measured Pressure in pounds per square inch
Ps - Standard Pressure in pounds per square inch

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	Extraction Well DW-8S Parameters					Extraction Well DW-9S Parameters					Extraction Well DW-2S Parameters				
Date	Flow Rate at Manifold (scfm)	Vacuum at Manifold (iwc)	Temperature at Manifold (°F)	PID Measured Concentration (ppmv)	Wellhead Vacuum (iwc)	Flow Rate at Manifold (scfm)	Vacuum at Manifold (iwc)	Temperature at Manifold (°F)	PID Measured Concentration (ppmv)	Wellhead Vacuum (iwc)	Flow Rate at Manifold (scfm)	Vacuum at Manifold (iwc)	Temperature at Manifold (°F)	PID Measured Concentration (ppmv)	Wellhead Vacuum (iwc)
2/18/08(1)	135	-9.1	55.0	0.0	-3.0	72	-10.0	57.3	0.0	-4.5	45	-5.1	61.1	0.0	-2.5
2/19/08(1)	140	-12.0	NM	0.0	-3.5	72	-10.4	NM	0.0	-4.5	65	-10	NM	0.0	-3.6
2/25/08(1)	138	-14.90	NM	0.3	-3.5	72	-12.3	NM	0.4	-4.7	67	-12.2	NM	0.4	-4.0
3/3/08(1)	140	-18.2	NM	0.9	-3.7	76	-13.4	NM	0.1	-5.0	67	-13.85	NM	0.0	-4.5
3/17/08(1)	140	-18	NM	0.2	-4.0	76	-12.0	NM	0.1	-5.5	65	-15.2	NM	0.0	-4.5
04/16/08	35.32	-2.13	55.4	0.2	NM	28.89	-1.47	56.1	0.2	NM	34.18	-2.2	56.8	0.1	NM
05/19/08	65.68	-9.0	59.1	2.2	-3.5	64.77	-6.8	59.0	0.8	-4.2	33.64	-3.5	61.7	0.8	-1.7
06/02/08	72.85	-9.2	62.0	0.0	-3.9	68.01	-6.8	62.4	0.0	-4.5	34.15	-4.1	67.6	0.0	-1.8

	Extraction Well DW-2D Parameters					Extraction Well DW-10S Parameters					Extraction Well DW-11S Parameters				
Date	Flow Rate at Manifold (scfm)	Vacuum at Manifold (iwc)	Temperature at Manifold (°F)	PID Measured Concentration (ppmv)	Wellhead Vacuum (iwc)	Flow Rate at Manifold (scfm)	Vacuum at Manifold (iwc)	Temperature at Manifold (°F)	PID Measured Concentration (ppmv)	Wellhead Vacuum (iwc)	Flow Rate at Manifold (scfm)	Vacuum at Manifold (iwc)	Temperature at Manifold (°F)	PID Measured Concentration (ppmv)	Wellhead Vacuum (iwc)
2/18/08(1)	80	-11.9	55.2	0.0	-7.0	75	-13.5	57.5	0.0	-5.0	80	-1.5	55.2	0.0	-13.0
2/19/08(1)	82	-12.7	NM	0.0	-8.0	75	-13.7	NM	0.0	-5.2	70	-16.04	NM	0.0	-10
2/25/08(1)	40	-6.2	NM	0.0	-5.7	75	-16.0	NM	0.4	-5.5	77	-19.5	NM	0.3	-9.0
3/3/08(1)	40	-5.1	NM	0.0	-4.9	78	-17.16	NM	0.2	-5.5	72	-21	NM	0.0	-9.8
3/17/08(1)	50	-6	NM	0.0	-5.0	77	-17.6	NM	0.1	-5.5	77	-20	NM	0.0	-9.0
04/16/08	19.24	-0.8	58.6	0.0	NM	24.42	-1.64	57.3	0.0	NM	32.38	-3.14	55.2	0.4	NM
05/19/08	46.61	-4.3	59.3	1.2	-4.0	48.22	-7.2	59.0	0.7	-3.5	42.94	-6.0	59.9	1.1	-3.7
06/02/08	50.56	-4.4	66.3	0.0	-4.1	52.84	-9.0	65.8	0.0	-3.8	46.34	-6.0	66.3	0.0	-3.7

Notes and Abbreviations:

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3. Blowers BL-200 and BL-400 were taken off-line on April 10th during system rebalancing.
4. Field recording error suspected.

Standard Conditions Calculation:

scfm = Flowrate*Area*(Ts/Tm)*(Pm/Ps)

Flowrate in feet per minute
Area in square feet
Ts - Standard Temperature in Rankine
Tm - Measured Temperature in Rankine
Pm - Measured Pressure in pounds per square inch
Ps - Standard Pressure in pounds per square inch

Table 1. Summary of General System Operating Parameters, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

	Knock Out Tank Parameters						Blower Parameters[3] BL-200				Blower Parameters[3] BL-300				Blower Parameters BL-400				Combined Effleunt Parameters VSP-601					Stack Parameters VSP-602			Water levels in Wells				
	Vacuum			Totalizer																										
Date	Influent KO-200	Influent KO-300	Influent KO-400	Effluent KO-200	Effluent KO-300	Effluent KO-400	Influent Vacuum	Effluent Pressure	Effluent Flow Rate	Effluent PID	Influent Vacuum	Effluent Pressure	Effluent Flow Rate	Effluent PID	Influent Vacuum	Effluent Pressure	Effluent Flow Rate	Effluent PID	Total Effluent Flow Rate	Total Effluent PID	Heat Exchanger Influent Temp.	Total Effluent Pressure	VPGAC Influent Temperature	VPGAC Effluent PID	Discharge Temperature	Effleunt Relative Humidity	VMWC-1D	VMWC-5D	B24MW-3	VMWC-1C	VMWC-5B
	(iwc)	(iwc)	(iwc)	(Gallons)	(Gallons)	(Gallons)	(iwc)	(iwc)	(scfm)	(ppmv)	(iwc)	(iwc)	(scfm)	(ppmv)	(iwc)	(iwc)	(scfm)	(ppmv)	(scfm)	(ppmv)	(°F)	(iwc)	(°F)	(ppmv)	(°F)	(%)	(ft bmp)	(ft bmp)	(ft bmp)	(ft bmp)	(ft bmp)
2/18/08[1]	-17.9	-37.9	-34.8	33.66	9,996,124	35.99	-19.5	6.2	499.59	6.4	-40	12.0	594.88	0.0	-38	11.5	643.39	0.0	1963.69	0.9	100	9.6	93	0.0	NM	NM	52.13	Dry	53.75	Dry	Dry
2/19/08[1]	-19.5	-39.5	-36.0	33.66	9,996,124	35.99	-20.5	9.0	432.20	2.7	-40.6	12.0	841.92	1.6	-38.5	10.0	604.74	1.3	1673.81	NM	95	9.8	84	NM	NM	NM	52.17	Dry	53.77	Dry	Dry
2/25/08[1]	-27.4	-42.0	-39.8	57.34	9,996,124	35.99	-28.3	8.2	433.60	NM	-42.9	10.4	821.99	NM	-42.1	10.2	653.35	NM	1678.65	2.4	94	9.0	94	0.0	NM	NM	52.19	49.12	53.89	38.20	Dry
3/3/08[1]	-26.5	-44.0	-42.0	128.57	9,996,124	35.99	-28.5	7.6	391.71	NM	-45.2	10.1	752.16	NM	-43.9	10.0	685.41	NM	1792.84	0.5	104	8.6	94	0.0	NM	NM	Dry	Dry	53.90	Dry	Dry
3/17/08[1]	-33	-43	-41	132.70	9,996,272.5[4]	35.99	-34.3	7.6	411.73	NM	-45.4	10.1	717.83	NM	-43.8	10.0	805.36	NM	1773.50	0.0	102.5	8.0	96	0.0	NM	NM	Dry	Dry	53.62	Dry	Dry
04/16/08	0	-32	0	132.67	9,996,202.72	35.94	0	0	0	NM	-35	1	641	1.0	0	0	0	NM	NM	1.0	90	0.9	82	0.7	NM	NM	51.55	48.47	53.25	Dry	Dry
05/19/08	0	-18	0	132.67	9996202.72	35.94	0	0	NM	NM	-19.5	1.5	666	3.1	0	0	NM	NM	NM[2]	4.6	85	1.4	74	1.7	NM	NM	51.53	48.50	53.20	Dry	Dry
06/02/08	0	-15.5	0	132.67	9996202.72	35.94	0	0	NM	NM	-19.5	1.2	746	0.0	0	0	NM	NM	NM[2]	0.0	85	1.6	85	0.0	NM	NM	51.71	50.55	53.33	Dry	Dry

Notes and Abbreviations:

°F - Degrees Fahrenheit
DW- Depressurization well
ft bmp - Feet below measuring point
iwc - Inches of water column
NM -Not measured
scfm - Standard cubic feet per minute
ppmv - Parts per million by voulme
VMWC - Vapor monitoring well cluster

1. Flow rate at manifold on associated dates quantified using venturi flow meter and associated flow chart. Remaining flow rates measured with a hotwire anemometer and calculated to standard conditions using the formula below.
2. Access point covered by insulation no measurement taken during this round.
3. Blowers BL-200 and BL-400 were taken off-line on April 10th during system rebalancing.
4. Field recording error suspected.

Standard Conditions Calculation:

scfm = Flowrate*Area*(Ts/Tm)*(Pm/Ps)

Flowrate in feet per minute
Area in square feet
Ts - Standard Temperature in Rankine
Tm - Measured Temperature in Rankine
Pm - Measured Pressure in pounds per square inch
Ps - Standard Pressure in pounds per square inch

Table 2. Summary of Induced Vacuum Readings, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[1].

Well ID:	DW-7S		DW-7D	DW-3S				DW-3D			DW-5S		DW-5D	DW-1S										
Date	VMWC-14A [4]	VMWC-14B [4]	VMWC-14D [4]	VMWC-9A	VMWC-9B	VMWC-10B	VMWC-11B [4]	VMWC-10D	VMWC-11D	VMWC-12D [4]	VMWC-15A [4]	VMWC-15B [4]	VMWC-15D [4]	VMWC-1A	VMWC-2A	VMWC-4A	VMWC-3A [4]	VMWC-1B	VMWC-4B	VMWC-3B [4]	VMWC-1C	VMWC-2C	VMWC-4C	VMWC-3C [4]
02/18/08	-0.05	-0.26	-0.31	-0.51	-0.67	-0.50	-0.41	-0.57	-0.43	-0.34	-0.52	-0.41	-0.35	-0.12	-0.10	-0.07	-0.07	-0.15	-0.08	-0.08	-0.11	-0.11	-0.09	-0.08
02/19/08	-0.09	-0.27	-0.30	-0.42	-0.53	-0.40	-0.33	-0.48	-0.40	-0.31	-0.30	-0.30	-0.35	-0.74	-0.61	-0.50	-0.42	-0.93	-0.58	-0.42	-0.78	-0.66	-0.61	-0.46
02/25/08	-0.09	-0.26	-0.31	-0.39	-0.49	-0.39	-0.34	-0.44	-0.36	-0.31	-0.23	-0.23	-0.27	-0.70	-0.58	-0.44	-0.40	-0.88	-0.54	-0.42	-0.74	-0.62	-0.55	-0.44
03/03/08	-0.11	-0.28	-0.31	-0.38	-0.44	-0.37	-0.31	-0.41	-0.33	-0.27	-0.19	-0.21	-0.25	-0.62	-0.48	-0.40	-0.32	-0.78	-0.46	-0.38	-0.66	-0.54	-0.49	-0.39
03/17/08	-0.11	-0.28	-0.31	-0.39	-0.50	-0.36	-0.29	-0.39	-0.36	-0.54	-0.25	-0.25	-0.28	-0.70	-0.60	-0.44	-0.38	-0.89	-0.50	-0.40	-0.68	-0.60	-0.52	-0.43
04/16/08	-0.11	-0.16	-0.18	-0.15	-0.17	-0.14	-0.13	-0.14	-0.13	-0.11	-0.09	-0.09	-0.08	-0.20	-0.16	-0.16	-0.11	-0.24	-0.16	-0.11	-0.19	-0.16	-0.16	-0.11
05/19/08	-0.099	-0.143	-0.163	-0.170	-0.199	-1.490	-0.154	-0.083	-0.219	-0.143	-0.159	-0.125	-0.159	-0.425	-0.369	-1.377	-0.221	-0.410	-0.299	-0.283	-0.423	-0.372	-0.333	-0.218
06/02/08	-0.095	-0.146	-0.148	-0.165	-0.171	-0.165	-0.165	-0.142	-0.135	-0.127	-0.150	-0.140	-0.133	-0.437	-0.339	-0.492	-0.200	-0.505	-0.299	-0.213	-0.408	-0.335	-0.313	-0.212
Time Weighted Rolling Average:	-0.106	-0.223	-0.250	-0.288	-0.352	-0.450	-0.233	-0.285	-0.269	-0.287	-0.185	-0.182	-0.202	-0.496	-0.413	-0.476	-0.269	-0.606	-0.367	-0.292	-0.497	-0.427	-0.384	-0.297

Gross Average Non Compliance points	
2/18-3/17	-0.640
4/16-5/19	-0.353
6/2/08	-0.312

Gross Average Compliance Points	
2/18-3/17	-0.317
4/16-5/19	-0.137
6/2/08	-0.146

Notes and Abbreviations:

DW Depressurization Well
NM Not measured due to temporary inaccessibility
VMWC Vapor monitoring well cluster

1. All induced vacuum measurements units in inches of water column (iwc).
2. Data point appears to be erroneous based on vacuum readings at further vapor point greater than that recorded at the closer location.
3. Data point is average of readings taken which fluctuated between -0.22 and -0.29 iwc.
4. Compliance vapor monitoring point.

Table 2. Induced Vacuum Measurements, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [1].

Well ID:	DW-1D					DW-4D	DW-8S	DW-2S								DW-2D						DW-11S	
Date	VMWC-1D	VMWC-2D	VMWC-4D	VMWC-3D [4]	VMWC-16D [4]	VMWC-16A [4]	VMWC-16B [4]	VMWC-5A	VMWC-6A	VMWC-8A	VMWC-7A [4]	VMWC-5B	VMWC-6B	VMWC-8B	VMWC-7B [4]	VMWC-5D	VMWC-6D	VMWC-8D	VMWC-7D	VMWC-13D [4]	VMWC-17D [4]	VMWC-18A [4]	VMWC-18B [4]
02/18/08	-1.16	-0.99	-0.16	-0.90	-0.51	-0.04	-0.10	-0.07	-0.04	-0.40	-0.08	-0.10	-0.05	-0.02	-0.03	-1.91	-1.47	-0.03[2]	-1.03	-0.17	-0.39	-0.05	-0.07
02/19/08	-1.31	-1.08	-0.86	-0.96	-0.54	-0.26	-0.26	-0.62	-0.37	-0.29	-0.22	-0.74	-1.73	-0.33	-0.23	-2.19	-0.37[2]	-1.88	-1.4	-0.44	-0.53	-0.25	-0.26[3]
02/25/08	-1.56	-1.23	-0.97	-1.07	-0.39	-0.29	-0.30	-0.70	-0.42	-0.31	-0.28	-0.82	-0.46	-0.35	-0.29	-1.21	-1.09	-0.88	-0.89	-0.39	-0.22	-0.24	-0.3
03/03/08	-1.56	-1.20	-0.90	-0.98	-0.27	-0.26	-0.27	-0.68	-0.40	-0.31	-0.27	-0.83	-0.44	-0.35	-0.30	-0.90	-0.72	-0.65	-0.53	-0.24	-0.16	-0.24	-0.27
03/17/08	-1.72	-1.51	-0.96	-1.15	-0.43	-0.31	-0.35	-0.69	-0.41	-0.33	-0.25	-0.78	-0.42	-0.36	-0.28	-1.15	-0.92	-0.82	-0.65	NM	-0.25	-0.29	-0.34
04/16/08	-0.18	-0.15	-0.18	-0.13	-0.09	-0.08	-0.08	-0.26	-0.14	NM	-0.09	-0.22	-0.15	NM	-0.09	-0.23	-0.21	NM	-0.17	NM	-0.08	-0.08	-0.09
05/19/08	-0.424	-0.391	-0.309	-0.310	-0.147	-0.162	-0.170	-0.328	-0.209	-0.180	-0.157	-0.327	-0.213	-0.156	-0.164	-1.097	-0.879	-0.763	-0.694	-0.223	-0.237	-0.139	-0.163
06/02/08	-0.345	-0.283	-0.253	-0.227	-0.195	-0.159	-0.168	-0.310	-0.190	-0.148	-0.142	-0.311	-0.199	-0.169	-0.141	-1.047	-0.838	-0.730	-0.743	-0.180	NM	-0.129	-0.151
Time Weighted Rolling Average:	-1.006	-0.847	-0.610	-0.678	-0.270	-0.206	-0.221	-0.499	-0.294	-0.306	-0.190	-0.547	-0.386	-0.327	-0.204	-0.901	-0.658	-0.854	-0.559	-0.260	-0.200	-0.191	-0.220

Notes & Abbreviations:

DW Depressurization Well
NM Not measured due to temporary inaccessibility
VMWC Vapor monitoring well cluster

1. All induced vacuum measurements units in inches of water column (iwc).
2. Data point appears to be erroneous based on vacuum readings at further vapor point greater than that recorded at the closer location.
3. Data point is average of readings taken which fluctuated between -0.22 and -0.29 iwc.
4. Compliance vapor monitoring point.

Table 3. Summary of System Startup Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Compound[2] (units in ug/m3)	Location ID: / Sample Date:	Well-7S 2/18/2008	Well-7D 2/18/2008	Well-3S[3] 2/25/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	< 120	< 530	**16**
1,1-Dichloroethane	75-34-3	< 120	< 530	**4.6**
1,1-Dichloroethene	75-35-4	< 120	< 530	< 3.2
2-Butanone	78-93-3	< 120	< 530	**10**
Acetone	67-64-1	< 1200	< 5300	< 32
Benzene	71-43-2	< 120	< 530	< 3.2
Carbon Tetrachloride	56-23-5	< 120	< 530	< 3.2
CFC-11	75-69-4	< 120	< 530	< 3.2
Chlorobenzene	108-90-7	< 120	< 530	< 3.2
Chloroform	67-66-3	< 120	< 530	**6.7**
Chloromethane	74-87-3	< 120	< 530	< 3.2
cis-1,2-Dichloroethene	156-59-2	**18000**	**48000**	**320**
Freon 113	76-13-1	< 120	< 530	< 3.2
Freon 12	75-71-8	< 120	< 530	< 3.2
Tetrachloroethene	127-18-4	**1200**	**1700**	**33**
Toluene	108-88-3	< 120	< 530	**1600**
trans-1,2-Dichloroethene	156-60-5	**310**	**680**	**8.4**
Trichloroethylene	79-01-6	**25000**	**87000**	**1500**
Xylene-o	95-47-6	< 120	< 530	**250**
Xylenes - m,p	179601-23-1	< 250	< 1100	**95**
TVOC[1]		**44,510**	**137,380**	**3,844**

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Table summarizes detected compounds only.
3. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Table 3. Summary of System Startup Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Compound[2] (units in ug/m3)	Location ID: / Sample Date:	Well-3D 2/18/2008	Well-5S 2/18/2008	Well-5D 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**360**	**23**	**150**
1,1-Dichloroethane	75-34-3	**160**	**2.3**	**16**
1,1-Dichloroethene	75-35-4	< 66	< 1.3	< 6.7
2-Butanone	78-93-3	< 66	**28**	**45**
Acetone	67-64-1	< 660	**68**	< 67
Benzene	71-43-2	**68**	**140**	**33**
Carbon Tetrachloride	56-23-5	< 66	< 1.3	< 6.7
CFC-11	75-69-4	< 66	**1.7**	< 6.7
Chlorobenzene	108-90-7	< 66	< 1.3	< 6.7
Chloroform	67-66-3	< 66	**16**	**66**
Chloromethane	74-87-3	< 66	**4.9**	< 6.7
cis-1,2-Dichloroethene	156-59-2	**16000**	< 1.3	**8.2**
Freon 113	76-13-1	< 66	**1.6**	< 6.7
Freon 12	75-71-8	< 66	**2.5**	< 6.7
Tetrachloroethene	127-18-4	**550**	**12**	**58**
Toluene	108-88-3	< 66	**1.3**	< 6.7
trans-1,2-Dichloroethene	156-60-5	**310**	< 1.3	< 6.7
Trichloroethylene	79-01-6	**57000**	**170**	**1300**
Xylene-o	95-47-6	< 66	< 1.3	< 6.7
Xylenes - m,p	179601-23-1	< 130	< 2.6	< 13
TVOC[1]		**74,448**	**471**	**1,676**

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Table summarizes detected compounds only.
3. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Table 3. Summary of System Startup Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Compound[2] (units in ug/m3)	Location ID: / Sample Date:	Well-6S 2/18/2008	Well-6D 2/18/2008	Well-1S 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**37**	**100**	**25**
1,1-Dichloroethane	75-34-3	**21**	**72**	< 2.5
1,1-Dichloroethene	75-35-4	< 2.3	**25**	< 2.5
2-Butanone	78-93-3	**29**	**16**	**22**
Acetone	67-64-1	29	< 81	**87**
Benzene	71-43-2	**43**	**23**	**69**
Carbon Tetrachloride	56-23-5	< 2.3	< 8.1	**13**
CFC-11	75-69-4	< 2.3	< 8.1	< 2.5
Chlorobenzene	108-90-7	< 2.3	< 8.1	< 2.5
Chloroform	67-66-3	**9.3**	**30**	**11**
Chloromethane	74-87-3	< 2.3	< 8.1	**3.5**
cis-1,2-Dichloroethene	156-59-2	**3.8**	< 8.1	**6.7**
Freon 113	76-13-1	**3.4**	**42**	**3.3**
Freon 12	75-71-8	**5.8**	**12**	**2.8**
Tetrachloroethene	127-18-4	**23**	**61**	**25**
Toluene	108-88-3	< 2.3	**13**	< 2.5
trans-1,2-Dichloroethene	156-60-5	< 2.3	< 8.1	< 2.5
Trichloroethylene	79-01-6	**470**	**1600**	**510**
Xylene-o	95-47-6	< 2.3	< 8.1	< 2.5
Xylenes - m,p	179601-23-1	< 4.7	< 16	< 5.1
TVOC[1]		**674**	**1,994**	**778**

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Table summarizes detected compounds only.
3. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Table 3. Summary of System Startup Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Compound[2] (units in ug/m3)	Location ID: / Sample Date:	Well-1D 2/18/2008	Well-4S 2/18/2008	Well-4D 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**69**	**99**	**170**
1,1-Dichloroethane	75-34-3	< 8.1	**22**	**29**
1,1-Dichloroethene	75-35-4	**8.6**	< 4.2	< 6.4
2-Butanone	78-93-3	**31**	**27**	**58**
Acetone	67-64-1	< 81	**130**	< 64
Benzene	71-43-2	**19**	**440**	**62**
Carbon Tetrachloride	56-23-5	**34**	< 4.2	< 6.4
CFC-11	75-69-4	< 8.1	< 4.2	< 6.4
Chlorobenzene	108-90-7	< 8.1	< 4.2	< 6.4
Chloroform	67-66-3	**28**	**6.5**	**9.4**
Chloromethane	74-87-3	< 8.1	< 4.2	< 6.4
cis-1,2-Dichloroethene	156-59-2	**29**	**14**	**17**
Freon 113	76-13-1	**20**	< 4.2	< 6.4
Freon 12	75-71-8	< 8.1	< 4.2	< 6.4
Tetrachloroethene	127-18-4	**68**	**42**	**79**
Toluene	108-88-3	< 8.1	< 4.2	< 6.4
trans-1,2-Dichloroethene	156-60-5	< 8.1	**8.8**	**7.6**
Trichloroethylene	79-01-6	**1600**	**880**	**1400**
Xylene-o	95-47-6	< 8.1	< 4.2	< 6.4
Xylenes - m,p	179601-23-1	< 16	< 8.4	< 13
TVOC[1]		**1,907**	**1,669**	**1,832**

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Table summarizes detected compounds only.
3. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Table 3. Summary of System Startup Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Compound[2] (units in ug/m3)	Location ID: / Sample Date:	Well-8S 2/18/2008	Well-9S 2/18/2008	Well-2S 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**84**	**3.6**	< 4.6
1,1-Dichloroethane	75-34-3	**9.4**	< 1.7	< 4.6
1,1-Dichloroethene	75-35-4	< 3.3	< 1.7	< 4.6
2-Butanone	78-93-3	**33**	**32**	**45**
Acetone	67-64-1	**150**	**82**	**140**
Benzene	71-43-2	**470**	**210**	**580**
Carbon Tetrachloride	56-23-5	< 3.3	< 1.7	< 4.6
CFC-11	75-69-4	< 3.3	< 1.7	< 4.6
Chlorobenzene	108-90-7	< 3.3	**1.7**	< 4.6
Chloroform	67-66-3	< 3.3	< 1.7	< 4.6
Chloromethane	74-87-3	**4**	**3.2**	**5.5**
cis-1,2-Dichloroethene	156-59-2	**8.6**	< 1.7	**390**
Freon 113	76-13-1	< 3.3	< 1.7	< 4.6
Freon 12	75-71-8	< 3.3	**2.4**	< 4.6
Tetrachloroethene	127-18-4	**54**	**8.1**	**7.2**
Toluene	108-88-3	< 3.3	< 1.7	< 4.6
trans-1,2-Dichloroethene	156-60-5	**6.2**	< 1.7	< 4.6
Trichloroethylene	79-01-6	**370**	**6.2**	**160**
Xylene-o	95-47-6	< 3.3	< 1.7	< 4.6
Xylenes - m,p	179601-23-1	< 6.6	< 3.3	< 9.1
TVOC[1]		**1,189**	**349**	**1,328**

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Table summarizes detected compounds only.
3. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Table 3. Summary of System Startup Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Compound[2] (units in ug/m3)	Location ID: / Sample Date:	Well-2D 2/18/2008	Well-10S 2/18/2008	Well-11S 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**93**	< 1.3	**1.2**
1,1-Dichloroethane	75-34-3	< 7.5	< 1.3	< 0.67
1,1-Dichloroethene	75-35-4	< 7.5	< 1.3	< 0.67
2-Butanone	78-93-3	**150**	**86**	**11**
Acetone	67-64-1	< 75	**66**	**43**
Benzene	71-43-2	**14**	**44**	**16**
Carbon Tetrachloride	56-23-5	< 7.5	< 1.3	< 0.67
CFC-11	75-69-4	**29**	< 1.3	**1.7**
Chlorobenzene	108-90-7	< 7.5	< 1.3	< 0.67
Chloroform	67-66-3	< 7.5	< 1.3	**1.2**
Chloromethane	74-87-3	< 7.5	< 1.3	< 0.67
cis-1,2-Dichloroethene	156-59-2	**360**	< 1.3	< 0.67
Freon 113	76-13-1	< 7.5	< 1.3	< 0.67
Freon 12	75-71-8	**37**	**2.3**	**2.7**
Tetrachloroethene	127-18-4	**24**	**10**	**25**
Toluene	108-88-3	< 7.5	**1.5**	**0.68**
trans-1,2-Dichloroethene	156-60-5	< 7.5	< 1.3	< 0.67
Trichloroethylene	79-01-6	**280**	**4**	**180**
Xylene-o	95-47-6	< 7.5	< 1.3	< 0.67
Xylenes - m,p	179601-23-1	< 15	< 2.6	< 1.3
TVOC[1]		**987**	**214**	**282**

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Table summarizes detected compounds only.
3. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Table 4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[2].

Compound[3] (units in ug/m3)		Location ID:	VSP-601	VSP-602	VSP-601	VSP-602	VSP-601	VSP-602
		Sample Date:	2/18/2008	2/18/2008	2/19/2008	2/19/2008	2/25/2008	2/25/2008
	CAS No.	SGC						
1,1,1-Trichloroethane	71-55-6	6,800	**110**	< 0.62	**71**	< 0.61	**35**	< 0.63
1,1-Dichloroethane	75-34-3	NS	**43**	< 0.62	**33**	< 0.61	**45**	< 0.63
2-Butanone	78-93-3	59,000	**16**	< 0.62	< 11	< 0.61	< 25	< 0.63
Acetone	67-64-1	180,000	< 140	< 6.2	< 110	< 6.1	< 250	< 6.3
Benzene	71-43-2	1,300	**67**	< 0.62	**22**	< 0.61	< 25	< 0.63
Chloroform	67-66-3	150	**34**	< 0.62	**24**	< 0.61	< 25	< 0.63
cis-1,2-Dichloroethene	156-59-2	190,000[1]	**5800**	< 0.62	**4600**	< 0.61	**2900**	< 0.63
Freon 12	75-71-8	NS	< 14	< 0.62	< 11	**0.71**	< 25	**5.7**
Tetrachloroethene	127-18-4	1,000	**340**	< 0.62	**200**	< 0.61	**82**	< 0.63
Toluene	108-88-3	37,000	**92**	< 0.62	**98**	< 0.61	**34**	< 0.63
Trans-1,2-Dichloroethene	156-60-5	NS	**120**	< 0.62	**71**	< 0.61	< 25	< 0.63
Trichloroethylene	79-01-6	54,000	**14000**	< 0.62	**9400**	< 0.61	**5100**	< 0.63
Vinyl Chloride	75-01-4	180,000	< 14	< 0.62	< 11	< 0.61	< 25	**1.1**
TVOC			**20,622**	0.0	**14,519**	**0.71**	**8,196**	**6.8**

Notes and abbreviations on last page

Table 4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [2].

Compound (units in ug/m3)		Location ID: Sample Date:	VSP-601 3/3/2008	VSP-602 3/3/2008	VSP-601 3/17/2008	VSP-602 3/17/2008	VSP-601 4/16/2008	VSP-602 4/16/2008
	CAS No.	SGC						
1,1,1-Trichloroethane	71-55-6	6,800	**26**	< 0.63	**35**	< 14	<25	< 15
1,1-Dichloroethane	75-34-3	NS	**47**	< 0.63	**59**	< 11	**31**	< 11
2-Butanone	78-93-3	59,000	< 13	< 0.63	< 16	< 16	< 16	< 16
Acetone	67-64-1	180,000	< 130	< 6.3	< 31	< 31	< 31	< 31
Benzene	71-43-2	1,300	< 13	< 0.63	< 8.4	< 8.4	< 8.4	< 8.4
Chloroform	67-66-3	150	**27**	< 0.63	**35**	< 13	<22	< 13
cis-1,2-Dichloroethene	156-59-2	190,000[1]	**1600**	< 0.63	**1400 D**	< 10	**1100**	**78**
Freon 12	75-71-8	NS	**13**	**8.3**	**46**	< 26	<46	< 26
Tetrachloroethene	127-18-4	1,000	**45**	< 0.63	**39**	< 3.6	**54**	< 3.7
Toluene	108-88-3	37,000	**61**	< 0.63	**140**	< 10	**37**	< 10
Trans-1,2-Dichloroethene	156-60-5	NS	< 13	< 0.63	**10**	< 10	<19	< 10
Trichloroethylene	79-01-6	54,000	**2500**	< 0.63	**1500 D**	< 2.8	**1300**	< 2.9
Vinyl Chloride	75-01-4	180,000	**200**	**40**	**980 D**	**920 D**	**120**	**710**
TVOC			**4,519**	**48.3**	**4,244**	**920**	**2,642**	**788**

Notes and abbreviations on last page

Table 4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [2].

Compound (units in ug/m3)		Location ID:	VSP-601	VSP-602	VSP-601	VSP-602
		Sample Date:	5/19/2008	5/19/2008	6/2/2008	6/2/2008
	CAS No.	SGC				
1,1,1-Trichloroethane	71-55-6	6,800	**38**	< 2.7	**44**	< 2.5
1,1-Dichloroethane	75-34-3	NS	**25**	**5.8**	**27**	**7.6**
2-Butanone	78-93-3	59,000	< 28	< 2.9	**28**	< 2.7
Acetone	67-64-1	180,000	< 57	< 5.8	< 55	**8.4**
Benzene	71-43-2	1,300	**19**	< 1.6	< 15	< 1.5
Chloroform	67-66-3	150	**44**	< 2.4	**55**	**3**
cis-1,2-Dichloroethene	156-59-2	190,000[1]	**950**	**180**	**930**	**230 D**
Freon 12	75-71-8	NS	< 48	< 4.9	< 45	< 4.5
Tetrachloroethene	127-18-4	1,000	**42**	< 0.67	**48**	**2.2**
Toluene	108-88-3	37,000	< 18	< 1.8	< 17	< 1.7
Trans-1,2-Dichloroethene	156-60-5	NS	< 19	< 1.9	< 18	**2.8**
Trichloroethylene	79-01-6	54,000	**1000**	**5.3**	**1100**	**6.5**
Vinyl Chloride	75-01-4	180,000	< 12	**65**	< 12	**13**
TVOC			**2,118**	**256.1**	**2,232**	**273.5**

Notes and abbreviations on last page

Table 4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [2].

Notes and Abbreviations:

Bold	Compound detected above method detection limit
CAS No.	Chemical abstracts service list number
D	Compound detected at a secondary dilution
NS	Guideline concentrations not specified in the NYSDEC DAR-1 AGC/SGC tables revised December 22, 2005.
SGC	Short-term guideline concentrations specified in the NYSDEC DAR-1 AGC/SGC tables revised December 22, 2005.
TVOC	Total volatile organic compounds
ug/m^3	Micrograms per cubic meter

1. An SGC was not provided in the DAR-1 AGC/SGC Tables, dated December 22, 2003. An interim SGC was developed based on guidance provided in Section IV.A.2.b.1 of the New York State DAR-1 Guidelines for the Control of Toxic Ambient Air Contaminants, 1991 edition. Specifically for cis-1,2 dichloroethene, which is not defined as a high-toxicity compound, the interim SGC = (smaller of Time Weighted Average [TWA] =- threshold Limit Value or TWA - Recommended Exposure Limit)/4.2 or 793,000 ug/m3 / 4.2 = 190,000 ug/m3.
2. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley, CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.
3. Table summarizes detected compounds only.

Table 5. Summary of Condensate Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [2].

Compound[3] (units in ug/L)	Location ID: / Sample Date:	KO-200 3/17/2008	KO-300 3/17/2008	WSP-510 3/17/2008
	CAS No.			
1,1-Dichloroethane	75-34-3	1.4	< 1	<2.5
2-Butanone	78-93-3	**1000 D**	**1300 D**	**440 D**
Acetone	67-64-1	**17**	**40**	**44**
cis-1,2-Dichloroethene	156-59-2	**40**	**4**	**15**
Isopropylbenzene	98-82-8	< 1	< 1	**6.6**
Toluene	108-88-3	**2.2**	< 1	<2.5
trans-1,2-Dichloroethene	156-60-5	**1.1**	< 1	<2.5
Trichloroethylene	79-01-6	**22**	**3**	**9**
Vinyl Chloride	75-01-4	**4.8**	**1.7**	<2.5
TVOC [1]		**1089**	**1349**	**515**

Notes and Abbreviations:

Bold	Compound detected above method detection limit
CAS No.	Chemical abstracts service list number
D	Compound detected at a secondary dilution
TVOC	Total volatile organic compounds
ug/L	Micorgrams per liter

1. Total volatile organic compounds determined by summing individual detections and rounding to the nearest whole number.
2. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Rochester, NY) for VOC analyses using Method 8260 in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.
3. Table summarizes detected compounds only.

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Table 6. Air Emissions Model Output Summary, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

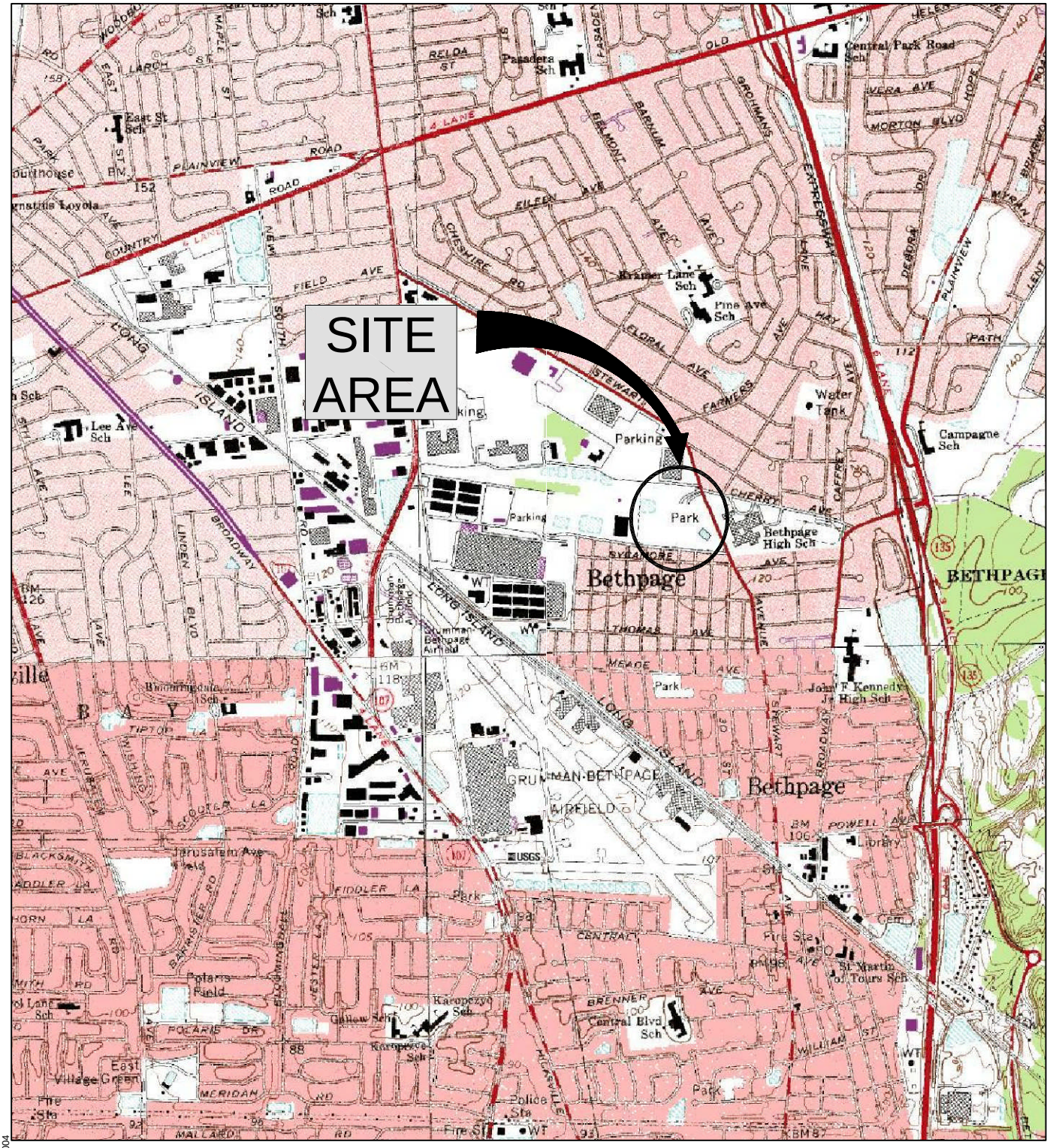
Compound[1]	AGC [2] ($\mu g/m^3$)	Percent of MASC Per Event [3]								Cumulative % MASC [4]
		2/18/2008	2/19/2008	2/25/2008	3/3/2008	3/17/2008	4/16/2008	5/19/2008	6/2/2008	
Vinyl chloride	0.11	0.00%	0.00%	0.04%	1.60%	36.84%	20.63%	1.91%	0.41%	11.01%
1,1-Dichloroethene	0.63	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.04%	0.00%
Trichloroethylene	0.5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.05%	0.01%
Tetrachloroethylene	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%
cis-1,2-Dichloroethylene	1,900	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Dichlorodifluoromethane (Freon 12)	12,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Acetone	28,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Chloroform	0.043	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.24%	0.00%
trans-1,2-Dichloroethene	1,900	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Notes:

1. Compounds listed include all compounds detected in the system effluent vapor stream.
2. AGC refers to the compound-specific annual guideline concentration per the NYSDEC DAR-1 AGC/SGC tables, revised December 22, 2003. NYSDEC DAR-1 AGCs were scaled using the results of a site-specific annual USEPA SCREEN 3 model to calculate the annual maximum allowable stack concentraction (MASC) per monitoring event.
3. Percent of AGC was calculated by dividing the actual effluent concentration by the site-specific annual MASC. Detailed calculations are included in Appendix C.
4. Cumulative percent of the MASC was calculated using a time-weighted average of the percent MASC per event.

$\mu g/m^3$ - Micrograms per cubic meter.

AGC - Annual guideline concentration.



SOURCE:
USGS 7.5 MIN. AMITYVILLE QUADRANGLE, AMITYVILLE, NY. 1994
USGS 7.5 MIN. FREEPORT QUADRANGLE, FREEPORT, NY., 1994
USGS 7.5 MIN. HICKSVILLE QUADRANGLE, HICKSVILLE, NY., 1967, PHOTOREVISED 1979
USGS 7.5 MIN. HUNTINGTON QUADRANGLE, HUNTINGTON, NY. 1967, PHOTOREVISED 1979

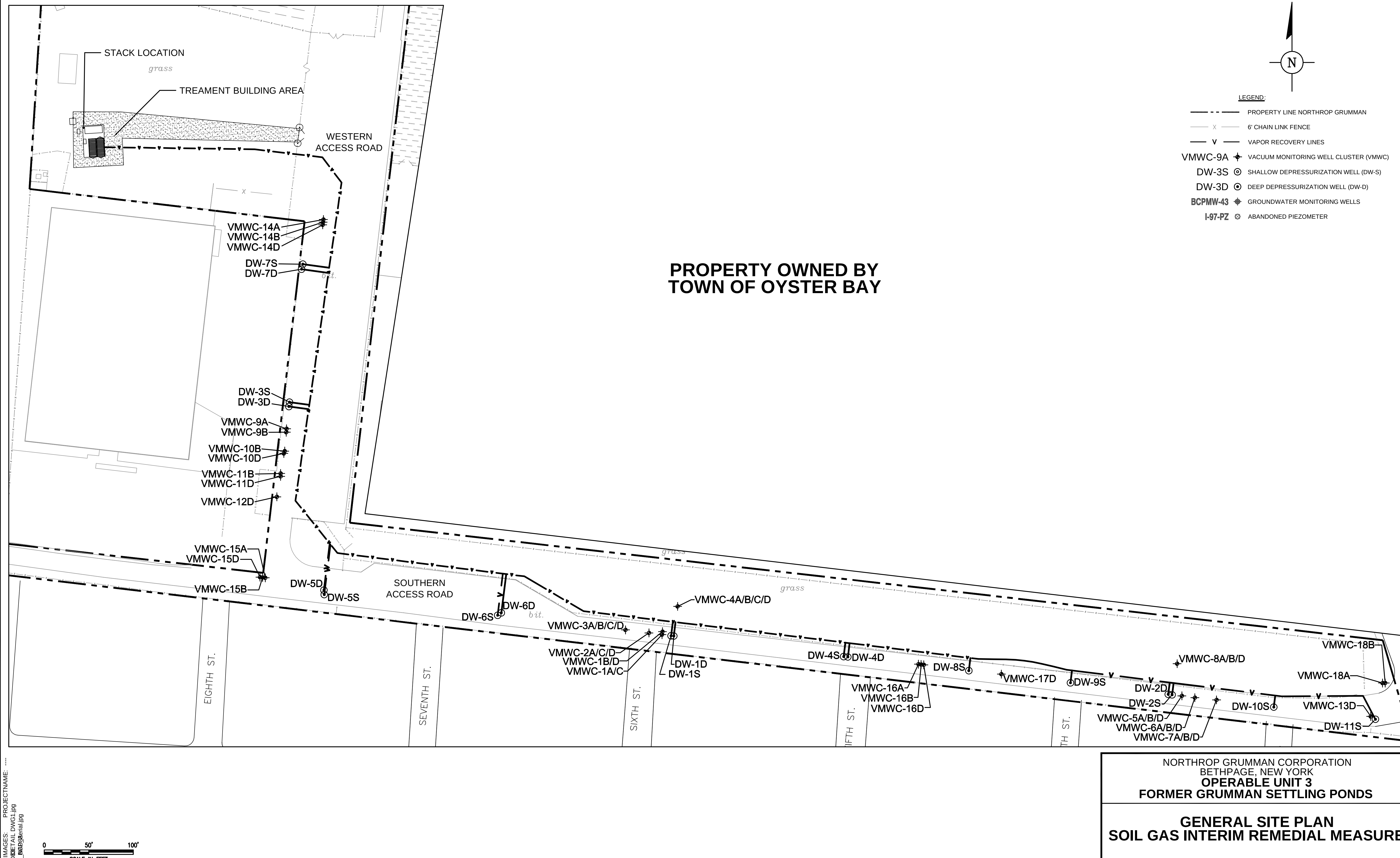
NORTHROP GRUMMAN CORPORATION
BETHPAGE, NEW YORK
OPERABLE UNIT 3
FORMER GRUMMAN SETTLING PONDS

SITE LOCATION MAP
SOIL GAS INTERIM REMEDIAL MEASURE

ARCADIS

FIGURE
1

CITY:MELVILLE DIVGROUP:ENV DB:ALS LD: PIC: PM:CSG TM:KZ LYR:ON=*;OFF=*REF*
G:\APROJECT\Northrop Grumman\Superfund\2008\OU3\NY001464.0908 Mtrg Rpts\OM&M Reports\June 2008_System Startup\Figures\080722_1464 01.dwg LAYOUT: 1 SAVED: 8/1/2008 2:07 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_MELVILLE.CTB PLOTTED: 8/8/2008 11:04 AM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: site4.jpg site5.jpg site6.jpg site7.jpg site8.jpg site9.jpg PROJECTNAME: NY001464.0908.00004



NORTHROP GRUMMAN CORPORATION
BETHPAGE, NEW YORK

OPERABLE UNIT 3
FORMER GRUMMAN SETTLING PONDS

GENERAL SITE PLAN
SOIL GAS INTERIM REMEDIAL MEASURE

ARCADIS

FIGURE
2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* LAYOUT: 2 SAVED: 8/1/2008 10:26 AM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_MELVILLE.CTB PLOTTED:
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8/8/2008 11:11 AM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
BCP-08_NAD83 DETAIL DWG1.jpg
ACCESS RD_2008 aerial.jpg

DISCHARGE TO ATMOSPHERE
VSP–602
TEMPORARY VAPOR PHASE GAC VP–600
AMBIENT AIR OUTLET
TT 602
TI 602
HEAT EXCHANGER HX–600
PIT 601
PI 601
TI 601
FE
V–26
VSP–601
AMBIENT AIR INLET
VSP–201
FE
PI 201
BLOWER BL–200
PI 202
VIT 202
AIR FILTER AF–200
KNOCK OUT TANK KO–200
VI 201
WSP–210
FE 210
FQI 210
TRANSFER PUMP TP–210
V–24
V–19
VSP–301
BLOWER BL–300
PI 302
VIT 302
AIR FILTER AF–300
KNOCK OUT TANK KO–300
VI 301
WSP–310
FE 310
FQI 310
TRANSFER PUMP TP–310
V–25
V–21
V–22
V–20
V–23
VSP–401
BLOWER BL–400
PI 402
VIT 402
AIR FILTER AF–400
KNOCK OUT TANK KO–400
VI 401
WSP–410
FE 410
FQI 410
TRANSFER PUMP TP–410
STORAGE TANK ST–510
WSP–510
PVC VENT TO OUTSIDE
LIMIT OF TREATMENT BUILDING 2
LIMIT OF TREATMENT BUILDING 1
V–1 FI 101 VI 119 VSP–101 FROM DW–7D
V–2 FI 102 VI 120 VSP–102 FROM DW–3D
V–3 FI 103 VI 121 VSP–103 FROM DW–5D
V–4 FI 104 VI 122 VSP–104 FROM DW–6D
V–5 FI 105 VI 123 VSP–105 FROM DW–1D
V–6 FI 106 VI 124 VSP–106 FROM DW–4D
V–7 FI 107 VI 125 VSP–107 FROM DW–2D
VI 101
DEPRESSURIZATION WELL VAULT (TYPICAL OF 7 DEEP)
V–8 FI 108 VI 126 VSP–108 FROM DW–11S
V–9 FI 109 VI 127 VSP–109 FROM DW–10S
V–10 FI 110 VI 128 VSP–110 FROM DW–2S
V–11 FI 111 VI 129 VSP–111 FROM DW–9S
V–12 FI 112 VI 130 VSP–112 FROM DW–8S
V–13 FI 113 VI 131 VSP–113 FROM DW–4S
V–14 FI 114 VI 132 VSP–114 FROM DW–1S
V–15 FI 115 VI 133 VSP–115 FROM DW–6S
V–16 FI 116 VI 134 VSP–116 FROM DW–5S
V–17 FI 117 VI 135 VSP–117 FROM DW–3S
V–18 FI 118 VI 136 VSP–118 FROM DW–7S
VI 108
DEPRESSURIZATION WELL VAULT (TYPICAL OF 11 SHALLOW)

LEGEND:

- CONDENSATE LINE
- LIMITS OF TREATMENT BUILDING
- PROCESS VAPOR LINE
- BALL VALVE (NORMALLY OPEN)
- BALL VALVE (NORMALLY CLOSED)
- BUTTERFLY VALVE (NORMALLY OPEN)
- BUTTERFLY VALVE (NORMALLY CLOSED)
- CHECK VALVE
- UNION
- SAMPLE PORT/DRAIN
- FE FLOW ELEMENT ACCESS
- INLINE INSTRUMENT
- ISOLATED INSTRUMENT CONNECTED TO PROCESS LINE
- INSTRUMENT CONNECTED TO PROCESS LINE
- FE FLOW MONITORING ELEMENT
- FI FLOW RATE INDICATOR
- FQI FLOW TOTALIZER INDICATOR
- PI PRESSURE INDICATOR
- PIT PRESSURE INDICATING TRANSMITTER
- TT TEMPERATURE TRANSMITTER
- VI VACUUM INDICATOR
- VIT VACUUM INDICATING TRANSMITTER
- VSP VAPOR SAMPLE POINT
- WSP WATER SAMPLE POINT

NORTHROP GRUMMAN CORPORATION
BETHPAGE, NEW YORK
OPERABLE UNIT 3
FORMER GUMMAN SETTLING PONDS

PROCESS FLOW DIAGRAM
SOIL GAS INTERIM REMEDIAL MEASURE

ARCADIS

FIGURE
3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECTN\Northrop Grumman\Superfund\2008OU3NY001464.0908 Mtrg Rpts\OM&M Reports\June 2008_System Startup\Figures\080722_1464 03.dwg
8/8/2008 11:12 AM BY: SANCHEZ, ADRIAN
XREFS: IMAGES: PROJECTNAME: ----
LAYOUT: 3 SAVED: 7/28/2008 2:21 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_MELVILLE.CTB PLOTTED:

ARCADIS

Appendix A

Summary of Vapor Sample
Analytical Results Including
Tentatively Identified Compounds

ARCADIS

Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Compound (units in ug/m3)	Location ID: / Sample Date:	Well-7S 2/18/2008	Well-7D 2/18/2008	Well 3S [2] 2/25/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	< 120	< 530	**16**
1,1,2,2-Tetrachloroethane	79-34-5	< 120	< 530	< 3.2
1,1,2-Trichloroethane	79-00-5	< 120	< 530	< 3.2
1,1-Dichloroethane	75-34-3	< 120	< 530	**4.6**
1,1-Dichloroethene	75-35-4	< 120	< 530	< 3.2
1,2-Dichloroethane	107-06-2	< 120	< 530	< 3.2
1,2-Dichloropropane	78-87-5	< 120	< 530	< 3.2
1,3-Butadiene	106-99-0	< 120	< 530	< 3.2
2-Butanone	78-93-3	< 120	< 530	**10**
2-Hexanone	591-78-6	< 120	< 530	< 3.2
4-Methyl-2-Pentanone	108-10-1	< 120	< 530	< 3.2
Acetone	67-64-1	< 1200	< 5300	< 32
Benzene	71-43-2	< 120	< 530	< 3.2
Bromodichloromethane	75-27-4	< 120	< 530	< 3.2
Bromoform	75-25-2	< 120	< 530	< 3.2
Bromomethane	74-83-9	< 120	< 530	< 3.2
Carbon Disulfide	75-15-0	< 120	< 530	< 3.2
Carbon Tetrachloride	56-23-5	< 120	< 530	< 3.2
CFC-11	75-69-4	< 120	< 530	< 3.2
Chlorobenzene	108-90-7	< 120	< 530	< 3.2
Chlorodibromomethane	124-48-1	< 120	< 530	< 3.2
Chloroethane	75-00-3	< 120	< 530	< 3.2
Chloroform	67-66-3	< 120	< 530	**6.7**
Chloromethane	74-87-3	< 120	< 530	< 3.2
cis-1,2-Dichloroethene	156-59-2	**18000**	**48000**	**320**
cis-1,3-Dichloropropene	10061-01-5	< 120	< 530	< 3.2
Ethylbenzene	100-41-4	< 120	< 530	< 3.2
Freon 113	76-13-1	< 120	< 530	< 3.2
Freon 12	75-71-8	< 120	< 530	< 3.2
Methyl tert-butyl ether	1634-04-4	< 120	< 530	< 3.2
Methylene Chloride	75-09-2	< 120	< 530	< 3.2
Styrene	100-42-5	< 120	< 530	< 3.2
Tetrachloroethene	127-18-4	**1200**	**1700**	**33**
Toluene	108-88-3	< 120	< 530	**1600**
trans-1,2-Dichloroethene	156-60-5	**310**	**680**	**8.4**
trans-1,3-Dichloropropene	10061-02-6	< 120	< 530	< 3.2
Trichloroethylene	79-01-6	**25000**	**87000**	**1500**
Vinyl Chloride	75-01-4	< 120	< 530	< 3.2
Xylene-o	95-47-6	< 120	< 530	**250**
Xylenes - m,p	179601-23-1	< 250	< 1100	**95**
TVOC		**44,510**	**137,380**	**3,844**

Notes and abbreviations on last page

Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Compound (units in ug/m3)	CAS No.	Location ID: Well-3D Sample Date: 2/18/2008	Well-5S 2/18/2008	Well-5D 2/18/2008
1,1,1-Trichloroethane	71-55-6	**360**	**23**	**150**
1,1,2,2-Tetrachloroethane	79-34-5	< 66	< 1.3	< 6.7
1,1,2-Trichloroethane	79-00-5	< 66	< 1.3	< 6.7
1,1-Dichloroethane	75-34-3	**160**	**2.3**	**16**
1,1-Dichloroethene	75-35-4	< 66	< 1.3	< 6.7
1,2-Dichloroethane	107-06-2	< 66	< 1.3	< 6.7
1,2-Dichloropropane	78-87-5	< 66	< 1.3	< 6.7
1,3-Butadiene	106-99-0	< 66	< 1.3	< 6.7
2-Butanone	78-93-3	< 66	**28**	**45**
2-Hexanone	591-78-6	< 66	< 1.3	< 6.7
4-Methyl-2-Pentanone	108-10-1	< 66	< 1.3	< 6.7
Acetone	67-64-1	< 660	**68**	< 67
Benzene	71-43-2	**68**	**140**	**33**
Bromodichloromethane	75-27-4	< 66	< 1.3	< 6.7
Bromoform	75-25-2	< 66	< 1.3	< 6.7
Bromomethane	74-83-9	< 66	< 1.3	< 6.7
Carbon Disulfide	75-15-0	< 66	< 1.3	< 6.7
Carbon Tetrachloride	56-23-5	< 66	< 1.3	< 6.7
CFC-11	75-69-4	< 66	**1.7**	< 6.7
Chlorobenzene	108-90-7	< 66	< 1.3	< 6.7
Chlorodibromomethane	124-48-1	< 66	< 1.3	< 6.7
Chloroethane	75-00-3	< 66	< 1.3	< 6.7
Chloroform	67-66-3	< 66	**16**	**66**
Chloromethane	74-87-3	< 66	**4.9**	< 6.7
cis-1,2-Dichloroethene	156-59-2	**16000**	< 1.3	**8.2**
cis-1,3-Dichloropropene	10061-01-5	< 66	< 1.3	< 6.7
Ethylbenzene	100-41-4	< 66	< 1.3	< 6.7
Freon 113	76-13-1	< 66	**1.6**	< 6.7
Freon 12	75-71-8	< 66	**2.5**	< 6.7
Methyl tert-butyl ether	1634-04-4	< 66	< 1.3	< 6.7
Methylene Chloride	75-09-2	< 66	< 1.3	< 6.7
Styrene	100-42-5	< 66	< 1.3	< 6.7
Tetrachloroethene	127-18-4	**550**	**12**	**58**
Toluene	108-88-3	< 66	**1.3**	< 6.7
trans-1,2-Dichloroethene	156-60-5	**310**	< 1.3	< 6.7
trans-1,3-Dichloropropene	10061-02-6	< 66	< 1.3	< 6.7
Trichloroethylene	79-01-6	**57000**	**170**	**1300**
Vinyl Chloride	75-01-4	< 66	< 1.3	< 6.7
Xylene-o	95-47-6	< 66	< 1.3	< 6.7
Xylenes - m,p	179601-23-1	< 130	< 2.6	< 13
TVOC		**74,448**	**471**	**1,676**

Notes and abbreviations on last page

Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Compound (units in ug/m3)	Location ID: / Sample Date:	Well-6S 2/18/2008	Well-6D 2/18/2008	Well-1S 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**37**	**100**	**25**
1,1,2,2-Tetrachloroethane	79-34-5	< 2.3	< 8.1	< 2.5
1,1,2-Trichloroethane	79-00-5	< 2.3	< 8.1	< 2.5
1,1-Dichloroethane	75-34-3	**21**	**72**	< 2.5
1,1-Dichloroethene	75-35-4	< 2.3	**25**	< 2.5
1,2-Dichloroethane	107-06-2	< 2.3	< 8.1	< 2.5
1,2-Dichloropropane	78-87-5	< 2.3	< 8.1	< 2.5
1,3-Butadiene	106-99-0	< 2.3	< 8.1	< 2.5
2-Butanone	78-93-3	**29**	**16**	**22**
2-Hexanone	591-78-6	< 2.3	< 8.1	< 2.5
4-Methyl-2-Pentanone	108-10-1	< 2.3	< 8.1	< 2.5
Acetone	67-64-1	29	< 81	**87**
Benzene	71-43-2	**43**	**23**	**69**
Bromodichloromethane	75-27-4	< 2.3	< 8.1	< 2.5
Bromoform	75-25-2	< 2.3	< 8.1	< 2.5
Bromomethane	74-83-9	< 2.3	< 8.1	< 2.5
Carbon Disulfide	75-15-0	< 2.3	< 8.1	< 2.5
Carbon Tetrachloride	56-23-5	< 2.3	< 8.1	**13**
CFC-11	75-69-4	< 2.3	< 8.1	< 2.5
Chlorobenzene	108-90-7	< 2.3	< 8.1	< 2.5
Chlorodibromomethane	124-48-1	< 2.3	< 8.1	< 2.5
Chloroethane	75-00-3	< 2.3	< 8.1	< 2.5
Chloroform	67-66-3	**9.3**	**30**	**11**
Chloromethane	74-87-3	< 2.3	< 8.1	**3.5**
cis-1,2-Dichloroethene	156-59-2	**3.8**	< 8.1	**6.7**
cis-1,3-Dichloropropene	10061-01-5	< 2.3	< 8.1	< 2.5
Ethylbenzene	100-41-4	< 2.3	< 8.1	< 2.5
Freon 113	76-13-1	**3.4**	**42**	**3.3**
Freon 12	75-71-8	**5.8**	**12**	**2.8**
Methyl tert-butyl ether	1634-04-4	< 2.3	< 8.1	< 2.5
Methylene Chloride	75-09-2	< 2.3	< 8.1	< 2.5
Styrene	100-42-5	< 2.3	< 8.1	< 2.5
Tetrachloroethene	127-18-4	**23**	**61**	**25**
Toluene	108-88-3	< 2.3	**13**	< 2.5
trans-1,2-Dichloroethene	156-60-5	< 2.3	< 8.1	< 2.5
trans-1,3-Dichloropropene	10061-02-6	< 2.3	< 8.1	< 2.5
Trichloroethylene	79-01-6	**470**	**1600**	**510**
Vinyl Chloride	75-01-4	< 2.3	< 8.1	< 2.5
Xylene-o	95-47-6	< 2.3	< 8.1	< 2.5
Xylenes - m,p	179601-23-1	< 4.7	< 16	< 5.1
TVOC		**674**	**1,994**	**778**

Notes and abbreviations on last page

Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Compound (units in ug/m3)	Location ID: / Sample Date:	Well-1D 2/18/2008	Well-4S 2/18/2008	Well-4D 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**69**	**99**	**170**
1,1,2,2-Tetrachloroethane	79-34-5	< 8.1	< 4.2	< 6.4
1,1,2-Trichloroethane	79-00-5	< 8.1	< 4.2	< 6.4
1,1-Dichloroethane	75-34-3	< 8.1	**22**	**29**
1,1-Dichloroethene	75-35-4	**8.6**	< 4.2	< 6.4
1,2-Dichloroethane	107-06-2	< 8.1	< 4.2	< 6.4
1,2-Dichloropropane	78-87-5	< 8.1	< 4.2	< 6.4
1,3-Butadiene	106-99-0	< 8.1	< 4.2	< 6.4
2-Butanone	78-93-3	**31**	**27**	**58**
2-Hexanone	591-78-6	< 8.1	< 4.2	< 6.4
4-Methyl-2-Pentanone	108-10-1	< 8.1	< 4.2	< 6.4
Acetone	67-64-1	< 81	**130**	< 64
Benzene	71-43-2	**19**	**440**	**62**
Bromodichloromethane	75-27-4	< 8.1	< 4.2	< 6.4
Bromoform	75-25-2	< 8.1	< 4.2	< 6.4
Bromomethane	74-83-9	< 8.1	< 4.2	< 6.4
Carbon Disulfide	75-15-0	< 8.1	< 4.2	< 6.4
Carbon Tetrachloride	56-23-5	**34**	< 4.2	< 6.4
CFC-11	75-69-4	< 8.1	< 4.2	< 6.4
Chlorobenzene	108-90-7	< 8.1	< 4.2	< 6.4
Chlorodibromomethane	124-48-1	< 8.1	< 4.2	< 6.4
Chloroethane	75-00-3	< 8.1	< 4.2	< 6.4
Chloroform	67-66-3	**28**	**6.5**	**9.4**
Chloromethane	74-87-3	< 8.1	< 4.2	< 6.4
cis-1,2-Dichloroethene	156-59-2	**29**	**14**	**17**
cis-1,3-Dichloropropene	10061-01-5	< 8.1	< 4.2	< 6.4
Ethylbenzene	100-41-4	< 8.1	< 4.2	< 6.4
Freon 113	76-13-1	**20**	< 4.2	< 6.4
Freon 12	75-71-8	< 8.1	< 4.2	< 6.4
Methyl tert-butyl ether	1634-04-4	< 8.1	< 4.2	< 6.4
Methylene Chloride	75-09-2	< 8.1	< 4.2	< 6.4
Styrene	100-42-5	< 8.1	< 4.2	< 6.4
Tetrachloroethene	127-18-4	**68**	**42**	**79**
Toluene	108-88-3	< 8.1	< 4.2	< 6.4
trans-1,2-Dichloroethene	156-60-5	< 8.1	**8.8**	**7.6**
trans-1,3-Dichloropropene	10061-02-6	< 8.1	< 4.2	< 6.4
Trichloroethylene	79-01-6	**1600**	**880**	**1400**
Vinyl Chloride	75-01-4	< 8.1	< 4.2	< 6.4
Xylene-o	95-47-6	< 8.1	< 4.2	< 6.4
Xylenes - m,p	179601-23-1	< 16	< 8.4	< 13
TVOC		**1,907**	**1,669**	**1,832**

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Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Compound (units in ug/m3)	Location ID: / Sample Date:	Well-8S 2/18/2008	Well-9S 2/18/2008	Well-2S 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**84**	**3.6**	< 4.6
1,1,2,2-Tetrachloroethane	79-34-5	< 3.3	< 1.7	< 4.6
1,1,2-Trichloroethane	79-00-5	< 3.3	< 1.7	< 4.6
1,1-Dichloroethane	75-34-3	**9.4**	< 1.7	< 4.6
1,1-Dichloroethene	75-35-4	< 3.3	< 1.7	< 4.6
1,2-Dichloroethane	107-06-2	< 3.3	< 1.7	< 4.6
1,2-Dichloropropane	78-87-5	< 3.3	< 1.7	< 4.6
1,3-Butadiene	106-99-0	< 3.3	< 1.7	< 4.6
2-Butanone	78-93-3	**33**	**32**	**45**
2-Hexanone	591-78-6	< 3.3	< 1.7	< 4.6
4-Methyl-2-Pentanone	108-10-1	< 3.3	< 1.7	< 4.6
Acetone	67-64-1	**150**	**82**	**140**
Benzene	71-43-2	**470**	**210**	**580**
Bromodichloromethane	75-27-4	< 3.3	< 1.7	< 4.6
Bromoform	75-25-2	< 3.3	< 1.7	< 4.6
Bromomethane	74-83-9	< 3.3	< 1.7	< 4.6
Carbon Disulfide	75-15-0	< 3.3	< 1.7	< 4.6
Carbon Tetrachloride	56-23-5	< 3.3	< 1.7	< 4.6
CFC-11	75-69-4	< 3.3	< 1.7	< 4.6
Chlorobenzene	108-90-7	< 3.3	**1.7**	< 4.6
Chlorodibromomethane	124-48-1	< 3.3	< 1.7	< 4.6
Chloroethane	75-00-3	< 3.3	< 1.7	< 4.6
Chloroform	67-66-3	< 3.3	< 1.7	< 4.6
Chloromethane	74-87-3	**4**	**3.2**	**5.5**
cis-1,2-Dichloroethene	156-59-2	**8.6**	< 1.7	**390**
cis-1,3-Dichloropropene	10061-01-5	< 3.3	< 1.7	< 4.6
Ethylbenzene	100-41-4	< 3.3	< 1.7	< 4.6
Freon 113	76-13-1	< 3.3	< 1.7	< 4.6
Freon 12	75-71-8	< 3.3	**2.4**	< 4.6
Methyl tert-butyl ether	1634-04-4	< 3.3	< 1.7	< 4.6
Methylene Chloride	75-09-2	< 3.3	< 1.7	< 4.6
Styrene	100-42-5	< 3.3	< 1.7	< 4.6
Tetrachloroethene	127-18-4	**54**	**8.1**	**7.2**
Toluene	108-88-3	< 3.3	< 1.7	< 4.6
trans-1,2-Dichloroethene	156-60-5	**6.2**	< 1.7	< 4.6
trans-1,3-Dichloropropene	10061-02-6	< 3.3	< 1.7	< 4.6
Trichloroethylene	79-01-6	**370**	**6.2**	**160**
Vinyl Chloride	75-01-4	< 3.3	< 1.7	< 4.6
Xylene-o	95-47-6	< 3.3	< 1.7	< 4.6
Xylenes - m,p	179601-23-1	< 6.6	< 3.3	< 9.1
TVOC		**1,189**	**349**	**1,328**

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Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Compound (units in ug/m3)	Location ID: / Sample Date:	Well-2D 2/18/2008	Well-10S 2/18/2008	Well-11S 2/18/2008
	CAS No.			
1,1,1-Trichloroethane	71-55-6	**93**	< 1.3	**1.2**
1,1,2,2-Tetrachloroethane	79-34-5	< 7.5	< 1.3	< 0.67
1,1,2-Trichloroethane	79-00-5	< 7.5	< 1.3	< 0.67
1,1-Dichloroethane	75-34-3	< 7.5	< 1.3	< 0.67
1,1-Dichloroethene	75-35-4	< 7.5	< 1.3	< 0.67
1,2-Dichloroethane	107-06-2	< 7.5	< 1.3	< 0.67
1,2-Dichloropropane	78-87-5	< 7.5	< 1.3	< 0.67
1,3-Butadiene	106-99-0	< 7.5	< 1.3	< 0.67
2-Butanone	78-93-3	**150**	**86**	**11**
2-Hexanone	591-78-6	< 7.5	< 1.3	< 0.67
4-Methyl-2-Pentanone	108-10-1	< 7.5	< 1.3	< 0.67
Acetone	67-64-1	< 75	**66**	**43**
Benzene	71-43-2	**14**	**44**	**16**
Bromodichloromethane	75-27-4	< 7.5	< 1.3	< 0.67
Bromoform	75-25-2	< 7.5	< 1.3	< 0.67
Bromomethane	74-83-9	< 7.5	< 1.3	< 0.67
Carbon Disulfide	75-15-0	< 7.5	< 1.3	< 0.67
Carbon Tetrachloride	56-23-5	< 7.5	< 1.3	< 0.67
CFC-11	75-69-4	**29**	< 1.3	**1.7**
Chlorobenzene	108-90-7	< 7.5	< 1.3	< 0.67
Chlorodibromomethane	124-48-1	< 7.5	< 1.3	< 0.67
Chloroethane	75-00-3	< 7.5	< 1.3	< 0.67
Chloroform	67-66-3	< 7.5	< 1.3	**1.2**
Chloromethane	74-87-3	< 7.5	< 1.3	< 0.67
cis-1,2-Dichloroethene	156-59-2	**360**	< 1.3	< 0.67
cis-1,3-Dichloropropene	10061-01-5	< 7.5	< 1.3	< 0.67
Ethylbenzene	100-41-4	< 7.5	< 1.3	< 0.67
Freon 113	76-13-1	< 7.5	< 1.3	< 0.67
Freon 12	75-71-8	**37**	**2.3**	**2.7**
Methyl tert-butyl ether	1634-04-4	< 7.5	< 1.3	< 0.67
Methylene Chloride	75-09-2	< 7.5	< 1.3	< 0.67
Styrene	100-42-5	< 7.5	< 1.3	< 0.67
Tetrachloroethene	127-18-4	**24**	**10**	**25**
Toluene	108-88-3	< 7.5	**1.5**	**0.68**
trans-1,2-Dichloroethene	156-60-5	< 7.5	< 1.3	< 0.67
trans-1,3-Dichloropropene	10061-02-6	< 7.5	< 1.3	< 0.67
Trichloroethylene	79-01-6	**280**	**4**	**180**
Vinyl Chloride	75-01-4	< 7.5	< 1.3	< 0.67
Xylene-o	95-47-6	< 7.5	< 1.3	< 0.67
Xylenes - m,p	179601-23-1	< 15	< 2.6	< 1.3
TVOC		**987**	**214**	**282**

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Appendix A-1. Summary of System Startup Vapor Sample Analytical Results,Northrop Grumman Operable Unit 3
Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[3].

Notes and Abbreviations:

Bold - Compound detected above method detection limit
CAS No. - Chemical abstracts service list number
TVOC - Total volatile organic compounds
ug/m^3 - Micrograms per cubic meter

1. Total Volatile organic compounds determined by summing the individual detections and rounding to the nearest whole number.
2. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
3. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Appendix A-2. Summary of System Startup Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Tentatively Identified Compounds [1,3] (units in ug/m3)	Well Sampled: / Sample Date:	Well 1D 2/18/08	Well 2D 2/18/08	Well 3D 2/18/08	Well 4D 2/18/08	Well 5D 2/18/08	Well 6D 2/18/08
Acetaldehyde		--	--	--	--	--	--
Isopropyl Alcohol		--	800	--	--	200	90
Tetrahydrofuran		70	200	--	100	60	--
$C_5H_{10}O_2$		--	--	--	--	--	--
$C_5H_{10}O_2$		--	--	--	--	--	--
Cyclohexanone		50	2,000	--	50	--	--
Cumene		--	400	500	600	400	--
Benzaldehyde		--	--	--	--	--	--
alpha-Methylstyrene		--	--	--	--	--	--
Acetophenone		--	200	--	80	200	--
$C_9H_{12}O$		--	200	--	40	200	--
Dodecene Isomer		--	70	--	70	--	--
Tetradecene Isomer		--	50	--	--	--	--
Chlorodifluoromethane		NF	NF	NF	NF	NF	NF
Chlorodifluoromethane + Propene + Propane + Carbonyl Sulfide		--	--	--	--	--	--
2-Butoxyethanol		100	5,000	--	--	30	--
Ethanol		--	2,000	--	--	--	--
2-Butanol		--	70	--	--	--	--
1.2-Ethanediol		--	40	--	--	--	--
Propylene Glycol		--	200	--	--	--	--
Cyclohexanol		--	90	--	--	--	--
2,5-Hexanedione		--	--	--	--	--	--
Hexamethylcyclotrisiloxane		--	--	--	--	--	--
1-Butanol		--	--	--	--	--	--
2-Ethyl-1-hexanol		--	--	--	--	--	--
Acetaldehyde + Isobutane		--	--	--	--	--	50
Carbonyl Sulfide		--	--	400	--	--	--
$C_{10}H_{20}$ Compound		--	--	--	40	--	--
C_5H_8O		--	--	--	--	--	--
alpha-Pinene		--	--	--	--	--	--
Decene Isomer		--	--	--	--	--	--
2,5-Dimethylfuran		--	--	--	--	--	--
Octamethylcyclotrasiloxane		--	--	--	--	--	--
Decene Isomer + Octamethylcyclotrasiloxane		--	--	--	--	--	--
$C_7H_{12}O_3$ + $C_8H_{18}O$		--	--	--	--	--	--
Acetaldehyde + Isobutane		--	--	--	--	--	--
$C_7H_{12}O_3$		--	--	--	--	--	--
$C_7H_{12}O_3$		--	--	--	--	--	--
Methylcyclohexane		--	--	--	--	--	--
C_7H_{14}		--	--	--	--	--	--
C_9H_{20} Branched Alkane		--	--	--	--	--	--
C_8H_{18} Branched Alkane		--	--	--	--	--	--
C_8H_{16}		--	--	--	--	--	--
$C_{11}H_{24}$ Branched Alkane		--	--	--	--	--	--
$C_{11}H_{24}$ Branched Alkane		--	--	--	--	--	--
$C_{12}H_{26}$ Branched Alkane		--	--	--	--	--	--

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Appendix A-2. Summary of System Startup Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settlir Bethpage, New York[4].

Tentatively Identified Compounds [1,3] (units in ug/m3)	Well Sampled: / Sample Date:	Well 7D 2/18/08	Well 1S 2/18/08	Well 2S 2/18/08	Well 3S [2] 2/25/08	Well 4S 2/18/08	Well 5S 2/18/08
Acetaldehyde		--	30	30	--	--	20
Isopropyl Alcohol		--	200	80	--	--	30
Tetrahydrofuran		--	10	--	--	50	100
$C_5H_{10}O_2$		--	30	100	--	90	40
$C_5H_{10}O_2$		--	20	70	--	60	20
Cyclohexanone		--	--	50	--	20	20
Cumene		--	600	1,000	--	1,000	500
Benzaldehyde		--	30	--	--	--	20
alpha-Methylstyrene		--	20	20	--	20	--
Acetophenone		--	300	200	70	200	200
$C_9H_{12}O$		--	100	300	100	200	300
Dodecene Isomer		--	--	50	--	20	100
Tetradecene Isomer		--	--	--	--	50	100
Chlorodifluoromethane		NF	NF	NF	NF	NF	NF
Chlorodifluoromethane + Propene + Propane + Carbonyl Sulfide		--	--	--	--	--	--
2-Butoxyethanol		--	--	100	--	--	80
Ethanol		--	--	--	--	--	--
2-Butanol		--	--	--	--	--	--
1.2-Ethanediol		--	--	--	--	--	--
Propylene Glycol		--	--	--	--	--	--
Cyclohexanol		--	--	--	--	--	--
2,5-Hexanedione		--	--	--	--	--	--
Hexamethylcyclotrisiloxane		--	--	90	--	--	--
1-Butanol		--	--	--	--	--	--
2-Ethyl-1-hexanol		--	--	--	--	--	--
Acetaldehyde + Isobutane		--	--	--	--	--	--
Carbonyl Sulfide		--	--	--	--	--	--
$C_{10}H_{20}$ Compound		--	--	--	--	--	--
C_5H_8O		--	--	--	--	--	--
alpha-Pinene		--	--	--	--	--	--
Decene Isomer		--	--	--	--	--	--
2,5-Dimethylfuran		--	20	--	--	--	--
Octamethylcyclotrasiloxane		--	--	50	--	--	--
Decene Isomer + Octamethylcyclotrasiloxane		--	--	--	--	--	20
$C_7H_{12}O_3$ + $C_8H_{18}O$		--	--	--	--	--	20
Acetaldehyde + Isobutane		--	--	--	--	--	--
$C_7H_{12}O_3$		--	--	--	--	--	--
$C_7H_{12}O_3$		--	--	--	--	--	--
Methylcyclohexane		--	--	--	80	--	--
C_7H_{14}		--	--	--	30	--	--
C_9H_{20} Branched Alkane		--	--	--	20	--	--
C_8H_{18} Branched Alkane		--	--	--	30	--	--
C_8H_{16}		--	--	--	20	--	--
$C_{11}H_{24}$ Branched Alkane		--	--	--	30	--	--
$C_{11}H_{24}$ Branched Alkane		--	--	--	20	--	--
$C_{12}H_{26}$ Branched Alkane		--	--	--	40	--	--

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Appendix A-2. Summary of System Startup Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Tentatively Identified Compounds [1,3] (units in ug/m3)	Well Sampled: / Sample Date:	Well 6S 2/18/08	Well 7S 2/18/08	Well 8S 2/18/08	Well 9S 2/18/08	Well 11S 2/18/08	Well 10S 2/18/08
Acetaldehyde		--	--	30	20	--	--
Isopropyl Alcohol		30	800	90	100	40	500
Tetrahydrofuran		20	--	50	10	10	50
$C_5H_{10}O_2$		--	--	100	50	8	--
$C_5H_{10}O_2$		--	--	50	30	--	--
Cyclohexanone		40	--	40	50	20	300
Cumene		200	--	1,000	700	300	500
Benzaldehyde		10	--	20	10	6	--
alpha-Methylstyrene		10	--	20	10	--	--
Acetophenone		200	--	200	100	50	400
$C_9H_{12}O$		500	--	200	100	60	400
Dodecene Isomer		--	--	40	10	--	30
Tetradecene Isomer		--	--	40	20	--	--
Chlorodifluoromethane		NF	NF	NF	NF	--	NF
Chlorodifluoromethane + Propene + Propane + Carbonyl Sulfide		--	--	--	--	5	--
2-Butoxyethanol		70	2,000		10	8	800
Ethanol		40	1,000			7	2,000
2-Butanol		--	--	--	--	--	10
1.2-Ethanediol		--	--	--	--	--	10
Propylene Glycol		--	--	--	--	10	30
Cyclohexanol		--	--	--	--	--	20
2,5-Hexanedione		--	--	--	10	20	--
Hexamethylcyclotrisiloxane		--	--	--	--	4	--
1-Butanol		--	--	--	--	--	8
2-Ethyl-1-hexanol		--	--	--	--	--	10
Acetaldehyde + Isobutane		10	--	--	--	--	--
Carbonyl Sulfide		--	--	--	--	--	--
$C_{10}H_{20}$ Compound		--	--	--	--	--	--
C_5H_8O		--	--	--	--	8	--
alpha-Pinene		--	--	--	--	4	--
Decene Isomer		--	--	--	--	4	10
2,5-Dimethylfuran		--	--	--	--	--	--
Octamethylcyclotrasiloxane		--	--	--	--	--	--
Decene Isomer + Octamethylcyclotrasiloxane		--	--	--	--	--	--
$C_7H_{12}O_3$ + $C_8H_{18}O$		--	--	--	--	--	--
Acetaldehyde + Isobutane		--	--	--	--	--	--
$C_7H_{12}O_3$		100	--	--	--	--	--
$C_7H_{12}O_3$		50	--	--	--	--	--
Methylcyclohexane		--	--	--	--	--	--
C_7H_{14}		--	--	--	--	--	--
C_9H_{20} Branched Alkane		--	--	--	--	--	--
C_8H_{18} Branched Alkane		--	--	--	--	--	--
C_8H_{16}		--	--	--	--	--	--
$C_{11}H_{24}$ Branched Alkane		--	--	--	--	--	--
$C_{11}H_{24}$ Branched Alkane		--	--	--	--	--	--
$C_{12}H_{26}$ Branched Alkane		--	--	--	--	--	--

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Appendix A-2. Summary of System Startup Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[4].

Notes and Abbreviations:

--	Not Reported during this sampling event.
NF	Compound was searched for, but not found.
ug/m^3	micrograms per cubic meter

1. Tentatively Identified Compounds (TICs) are identified based on review of mass spectrometry results via a comprehensive library search of all organic compounds.
2. Depressurization well 3S analytical sample was collected on 2/25 instead of 2/18 due to a sampling error.
3. All results are estimated.
4. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley, CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Appendix A-3. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[1].

Compound (units in ug/m3)	Location ID: Sample Date:	VSP-601 2/18/2008	VSP-602 2/18/2008	VSP-601 2/19/2008	VSP-602 2/19/2008
1,1,1-Trichloroethane		**110**	< 0.62	**71**	< 0.61
1,1,2,2-Tetrachloroethane		< 14	< 0.62	< 11	< 0.61
1,1,2-Trichloroethane		< 14	< 0.62	< 11	< 0.61
1,1-Dichloroethane		**43**	< 0.62	**33**	< 0.61
1,1-Dichloroethene		< 14	< 0.62	< 11	< 0.61
1,2-Dichloroethane		< 14	< 0.62	< 11	< 0.61
1,2-Dichloropropane		< 14	< 0.62	< 11	< 0.61
1,3-Butadiene		< 14	< 0.62	< 11	< 0.61
2-Butanone		**16**	< 0.62	< 11	< 0.61
2-Hexanone		< 14	< 0.62	< 11	< 0.61
4-Methyl-2-Pentanone		< 14	< 0.62	< 11	< 0.61
Acetone		< 140	< 6.2	< 110	< 6.1
Benzene		**67**	< 0.62	**22**	< 0.61
Bromodichloromethane		< 14	< 0.62	< 11	< 0.61
Bromoform		< 14	< 0.62	< 11	< 0.61
Bromomethane		< 14	< 0.62	< 11	< 0.61
Carbon Disulfide		< 14	< 0.62	< 11	< 0.61
Carbon Tetrachloride		< 14	< 0.62	< 11	< 0.61
CFC-11		< 14	< 0.62	< 11	< 0.61
Chlorobenzene		< 14	< 0.62	< 11	< 0.61
Chlorodibromomethane		< 14	< 0.62	< 11	< 0.61
Chloroethane		< 14	< 0.62	< 11	< 0.61
Chloroform		**34**	< 0.62	**24**	< 0.61
Chloromethane		< 14	< 0.62	< 11	< 0.61
cis-1,2-Dichloroethene		**5800**	< 0.62	**4600**	< 0.61
cis-1,3-Dichloropropene		< 14	< 0.62	< 11	< 0.61
Ethylbenzene		< 14	< 0.62	< 11	< 0.61
Freon 113		< 14	< 0.62	< 11	< 0.61
Freon 12		< 14	< 0.62	< 11	**0.71**
Methyl Tert-Butyl Ether		< 14	< 0.62	< 11	< 0.61
Methylene Chloride		< 14	< 0.62	< 11	< 0.61
Styrene		< 14	< 0.62	< 11	< 0.61
Tetrachloroethene		**340**	< 0.62	**200**	< 0.61
Toluene		**92**	< 0.62	**98**	< 0.61
Trans-1,2-Dichloroethene		**120**	< 0.62	**71**	< 0.61
Trans-1,3-Dichloropropene		< 14	< 0.62	< 11	< 0.61
Trichloroethylene		**14000**	< 0.62	**9400**	< 0.61
Vinyl Chloride		< 14	< 0.62	< 11	< 0.61
Xylene-O		< 14	< 0.62	< 11	< 0.61
Xylenes - M,P		< 28	< 1.2	< 21	< 1.2
TVOC		**20,622**	0.0	**14,519**	**0.71**

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Appendix A-3. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[1].

Compound (units in ug/m3)	Location ID: / Sample Date:	VSP-601 2/25/2008	VSP-602 2/25/2008	VSP-601 3/3/2008	VSP-602 3/3/2008
1,1,1-Trichloroethane		**35**	< 0.63	**26**	< 0.63
1,1,2,2-Tetrachloroethane		< 25	< 0.63	< 13	< 0.63
1,1,2-Trichloroethane		< 25	< 0.63	< 13	< 0.63
1,1-Dichloroethane		**45**	< 0.63	**47**	< 0.63
1,1-Dichloroethene		< 25	< 0.63	< 13	< 0.63
1,2-Dichloroethane		< 25	< 0.63	< 13	< 0.63
1,2-Dichloropropane		< 25	< 0.63	< 13	< 0.63
1,3-Butadiene		< 25	< 0.63	< 13	< 0.63
2-Butanone		< 25	< 0.63	< 13	< 0.63
2-Hexanone		< 25	< 0.63	< 13	< 0.63
4-Methyl-2-Pentanone		< 25	< 0.63	< 13	< 0.63
Acetone		< 250	< 6.3	< 130	< 6.3
Benzene		< 25	< 0.63	< 13	< 0.63
Bromodichloromethane		< 25	< 0.63	< 13	< 0.63
Bromoform		< 25	< 0.63	< 13	< 0.63
Bromomethane		< 25	< 0.63	< 13	< 0.63
Carbon Disulfide		< 25	< 0.63	< 13	< 0.63
Carbon Tetrachloride		< 25	< 0.63	< 13	< 0.63
CFC-11		< 25	< 0.63	< 13	< 0.63
Chlorobenzene		< 25	< 0.63	< 13	< 0.63
Chlorodibromomethane		< 25	< 0.63	< 13	< 0.63
Chloroethane		< 25	< 0.63	< 13	< 0.63
Chloroform		< 25	< 0.63	**27**	< 0.63
Chloromethane		< 25	< 0.63	< 13	< 0.63
cis-1,2-Dichloroethene		**2900**	< 0.63	1600	< 0.63
cis-1,3-Dichloropropene		< 25	< 0.63	< 13	< 0.63
Ethylbenzene		< 25	< 0.63	< 13	< 0.63
Freon 113		< 25	< 0.63	< 13	< 0.63
Freon 12		< 25	**5.7**	**13**	**8.3**
Methyl Tert-Butyl Ether		< 25	< 0.63	< 13	< 0.63
Methylene Chloride		< 25	< 0.63	< 13	< 0.63
Styrene		< 25	< 0.63	< 13	< 0.63
Tetrachloroethene		**82**	< 0.63	45	< 0.63
Toluene		**34**	< 0.63	61	< 0.63
Trans-1,2-Dichloroethene		< 25	< 0.63	< 13	< 0.63
Trans-1,3-Dichloropropene		< 25	< 0.63	< 13	< 0.63
Trichloroethylene		**5100**	< 0.63	2500	< 0.63
Vinyl Chloride		< 25	**1.1**	**200**	**40**
Xylene-O		< 25	< 0.63	< 13	< 0.63
Xylenes - M,P		< 51	< 1.3	< 13	< 0.63
TVOC		**8,196**	**6.8**	**4,519**	**48.3**

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Appendix A-3. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[1].

Compound (units in ug/m3)	Location ID: / Sample Date:	VSP-601 3/17/2008	VSP-602 3/17/2008	VSP-601 4/16/2008	VSP-602 4/16/2008
1,1,1-Trichloroethane		**35**	< 14	<25	< 15
1,1,2,2-Tetrachloroethane		< 3.6	< 3.6	< 3.6	< 3.6
1,1,2-Trichloroethane		< 14	< 14	< 14	< 14
1,1-Dichloroethane		**59**	< 11	**31**	< 11
1,1-Dichloroethene		< 10	< 10	< 10	< 10
1,2-Dichloroethane		< 11	< 11	< 11	< 11
1,2-Dichloropropane		< 12	< 12	< 12	< 12
1,3-Butadiene		< 12	< 12	< 12	< 12
2-Butanone		< 16	< 16	< 16	< 16
2-Hexanone		< 11	< 11	< 11	< 11
4-Methyl-2-Pentanone		< 22	< 22	< 22	< 22
Acetone		< 31	< 31	< 31	< 31
Benzene		< 8.4	< 8.4	< 8.4	< 8.4
Bromodichloromethane		< 3.5	< 3.5	< 3.5	< 3.5
Bromoform		< 27	< 27	< 27	< 27
Bromomethane		< 10	< 10	< 10	< 10
Carbon Disulfide		< 8.2	< 8.2	< 8.2	< 8.2
Carbon Tetrachloride		< 3.3	< 3.3	< 3.3	< 3.3
CFC-11		< 15	< 15	< 15	< 15
Chlorobenzene		< 12	< 12	< 12	< 12
Chlorodibromomethane		< 4.5	< 4.5	< 4.5	< 4.5
Chloroethane		< 14	< 14	< 14	< 14
Chloroform		**35**	< 13	<22	< 13
Chloromethane		< 11	< 11	< 11	< 11
cis-1,2-Dichloroethene		**1400 D**	< 10	**1100**	**78**
cis-1,3-Dichloropropene		< 24	< 24	< 24	< 24
Ethylbenzene		< 23	< 23	< 23	< 23
Freon 113		< 4	< 4	< 4	< 4
Freon 12		**46**	< 26	<46	< 26
Methyl Tert-Butyl Ether		< 19	< 19	< 19	< 19
Methylene Chloride		< 9.2	< 9.2	< 9.2	< 9.2
Styrene		< 22	< 22	< 22	< 22
Tetrachloroethene		**39**	< 3.6	54	< 3.7
Toluene		**140**	< 10	37	< 10
Trans-1,2-Dichloroethene		**10**	< 10	<19	< 10
Trans-1,3-Dichloropropene		< 12	< 12	< 12	< 12
Trichloroethylene		**1500 D**	< 2.8	1300	< 2.9
Vinyl Chloride		**980 D**	**920 D**	**120**	**710**
Xylene-O		< 23	< 23	< 23	< 23
Xylenes - M,P		< 46	< 46	< 46	< 46
TVOC		**4,244**	**920**	**2,642**	**788**

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Appendix A-3. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[1].

Compound (units in ug/m3)	Location ID: / Sample Date:	VSP-601 5/19/2008	VSP-602 5/19/2008	VSP-601 6/2/2008	VSP-602 6/2/2008
1,1,1-Trichloroethane		**38**	< 2.7	**44**	< 2.5
1,1,2,2-Tetrachloroethane		< 6.6	< 0.67	< 6.3	< 0.63
1,1,2-Trichloroethane		< 26	< 2.7	< 25	< 2.5
1,1-Dichloroethane		**25**	**5.8**	**27**	**7.6**
1,1-Dichloroethene		< 19	< 1.9	< 18	< 1.8
1,2-Dichloroethane		< 20	< 2	< 19	< 1.9
1,2-Dichloropropane		< 22	< 2.3	< 21	< 2.1
1,3-Butadiene		< 21	< 2.2	< 20	< 2
2-Butanone		< 28	< 2.9	**28**	< 2.7
2-Hexanone		< 20	< 2	< 19	< 1.9
4-Methyl-2-Pentanone		< 39	< 4	< 38	< 3.8
Acetone		< 57	< 5.8	< 55	**8.4**
Benzene		**19**	< 1.6	< 15	< 1.5
Bromodichloromethane		< 6.5	< 0.66	< 6.2	< 0.62
Bromoform		< 50	< 5.1	< 48	< 4.8
Bromomethane		< 19	< 1.9	< 18	< 1.8
Carbon Disulfide		< 15	< 1.5	< 14	< 1.4
Carbon Tetrachloride		< 6.1	< 0.62	< 5.8	< 0.58
CFC-11		< 27	< 2.8	< 26	< 2.6
Chlorobenzene		< 22	< 2.3	< 21	< 2.1
Chlorodibromomethane		< 8.2	< 0.84	< 7.8	< 0.78
Chloroethane		< 25	< 2.6	< 24	< 2.4
Chloroform		**44**	< 2.4	**55**	**3**
Chloromethane		< 20	< 2	< 19	< 1.9
cis-1,2-Dichloroethene		**950**	**180**	**930**	**230 D**
cis-1,3-Dichloropropene		< 44	< 4.5	< 42	< 4.2
Ethylbenzene		< 42	< 4.3	< 40	< 4
Freon 113		< 7.4	< 0.75	< 7	< 0.7
Freon 12		< 48	< 4.9	< 45	< 4.5
Methyl Tert-Butyl Ether		< 35	< 3.5	< 33	< 3.3
Methylene Chloride		< 17	< 1.7	< 16	< 1.6
Styrene		< 41	< 4.2	< 39	< 3.9
Tetrachloroethene		**42**	< 0.67	**48**	**2.2**
Toluene		< 18	< 1.8	< 17	< 1.7
Trans-1,2-Dichloroethene		< 19	< 1.9	< 18	**2.8**
Trans-1,3-Dichloropropene		< 22	< 2.2	< 21	< 2.1
Trichloroethylene		**1000**	**5.3**	**1100**	**6.5**
Vinyl Chloride		< 12	**65**	< 12	**13**
Xylene-O		< 42	< 4.3	< 40	< 4
Xylenes - M,P		< 84	< 8.5	< 80	< 8
TVOC		**2,118**	**256**	**2,232**	**274**

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Appendix A-3. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[1].

Notes and Abbreviations:

Bold	Compound detected above method detection limit
D	Compound detected at a secondary dilution
TVOC	Total volitile organic compounds
ug/m^3	Micrograms per cubic meter

1. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley, CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

Appendix A-4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York(2).

Tentatively Identified Compounds [3,4]	Date Sampled:	Carbon Influent - VSP-601 02/18/08 (ppbv)	02/19/08 (ppbv)	02/25/08 (ppbv)	03/03/08 (ppbv)	3/17/2008 [6] (ppbv)	04/16/08 (ppbv)	05/19/08 (ppbv)	6/2/2008 [6] (ppbv)
Chlorodifluoromethane + Propene + Propane		--	--	--	--	--	--	--	--
Hexamethylcyclotrisiloxane [1]		--	--	--	--	--	--	--	--
2-Ethyl-1-hexanol		--	--	--	--	--	--	--	--
n-Nonanal		--	--	--	--	--	--	--	--
Chlorodifluoromethane (Freon 22)		NF	NF	NF	30	170	110	250	260
Ethanol		1000	400	--	--	--	--	--	--
Acetophenone		20	--	--	--	--	--	--	--
alpha-Cumyl Alcohol		--	10	--	--	--	--	--	--
Chloroethene		--	--	--	30	--	--	--	--
Methylcyclohexane		--	--	--	20	62	--	--	--
Propane		--	--	--	--	--	--	--	--
Acetaldehyde		--	--	--	--	--	--	--	--
Unknown CFC		--	--	--	--	--	400	220	250
3-Methyl-Hexane		--	--	--	--	6	--	--	--
Heptane		--	--	--	--	11	--	--	--
Unknown cyclic hydrocarbon		--	--	--	--	9	--	--	--
1,2,4-trimethylcyclopentane		--	--	--	--	6	--	--	--
Unknown aliphatic hydrocarbon		--	--	--	--	7	--	--	--
Unknown aliphatic hydrocarbon		--	--	--	--	6	--	--	--
1,3-dimethyl-cis-cyclohexane		--	--	--	--	6	--	--	--

Notes and abbreviations on last page

Appendix A-4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York(2).

		Carbon Effluent - VSP 602							
Tentatively Identified Compounds [3,4]	Date Sampled:	02/18/08 (ppbv)	02/19/08 (ppbv)	02/25/08 (ppbv)	03/03/08 (ppbv)	3/17/2008 [6] (ppbv)	04/16/08 (ppbv)	05/19/08 (ppbv)	6/2/2008 [6] (ppbv)
Chlorodifluoromethane + Propene + Propane		± [5]	± [5]	--	--	--	--	--	--
Hexamethylcyclotrisiloxane [1]		0.60	--	--	--	--	--	--	--
2-Ethyl-1-hexanol		3	--	--	--	--	--	--	--
n-Nonanal		0.7	--	--	--	--	--	--	--
Chlorodifluoromethane (Freon 22)		NF	NF	5	20	110	220	120	140
Ethanol			30	400	700	14	9	3	4
Acetophenone		--	--	--	--	--	--	--	--
alpha-Cumyl Alcohol		--	--	--	--	--	--	--	--
Chloroethene		--	--	--	8	--	--	--	--
Methylcyclohexane		--	--	--	--	--	--	--	--
Propane		--	--	10	9	--	--	--	--
Acetaldehyde		--	--	--	3	--	--	--	--
Unknown CFC		--	--	--	--	--	110	180	160
3-Methyl-Hexane		--	--	--	--	--	--	--	--
Heptane		--	--	--	--	--	--	--	--
Unknown cyclic hydrocarbon		--	--	--	--	--	--	--	--
1,2,4-trimethylcyclopentane		--	--	--	--	--	--	--	--
Unknown aliphatic hydrocarbon		--	--	--	--	--	--	--	--
Unknown aliphatic hydrocarbon		--	--	--	--	--	--	--	--
1,3-dimethyl-cis-cyclohexane		--	--	--	--	--	--	--	--

Notes and abbreviations on last page

Appendix A-4. Summary of Total Influent and Effluent Vapor Sample Analytical Results, Tentatively Identified Compounds, Northrop Grumman Operable Unit 3, Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York(2).

Notes and Abbbreviations:

–	Not Reported during this sampling event.
NF	Compound was searched for, but not found.
ppbv	Parts per billion by volume.

1. Possible laboratory artifact.
2. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Simi Valley,CA or Rochester, NY locations) for VOC analyses using USEPA Method TO-15 modified in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.
3. Tentatively Identified Compounds (TICs) are identified based on review of mass spectrometry results via a comprehensive library search of all organic compounds.
4. All results are estimated.
5. ± = Analyte was detected, but cannot be calculated to ppbv because molecular weight is unknown.
6. Compounds identified in an analysis at a secondary dilution factor.

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Appendix A-5

Supplemental Vinyl Chloride
Screening Analytical Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804388

Work Order Summary

CLIENT:	Ms. Christina Tuohy ARCADIS, Inc. Two Huntington Quadrangle Suite 1S10 Melville, NY 11747	**BILL TO:**	Ms. Patricia Riche ARCADIS, Inc. Two Huntington Quadrangle Suite 1S10 Melville, NY 11747
PHONE:	631-249-7600	**P.O. #**	NJ001464.0908.00001
FAX:		**PROJECT #**	NJ001464.0908.00001
DATE RECEIVED:	04/17/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	04/18/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW-3S	Modified TO-14A/15 (5&20 p	Tedlar Bag	Tedlar Bag
02A	DW-7S	Modified TO-14A/15 (5&20 p	Tedlar Bag	Tedlar Bag
03A	DW-4D	Modified TO-14A/15 (5&20 p	Tedlar Bag	Tedlar Bag
03AA	DW-4D Lab Duplicate	Modified TO-14A/15 (5&20 p	Tedlar Bag	Tedlar Bag
04A	DW-3D	Modified TO-14A/15 (5&20 p	Tedlar Bag	Tedlar Bag
05A	Lab Blank	Modified TO-14A/15 (5&20 p	NA	NA
06A	CCV	Modified TO-14A/15 (5&20 p	NA	NA
07A	LCS	Modified TO-14A/15 (5&20 p	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 04/18/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
ARCADIS, Inc.
Workorder# 0804388

Four 1 Liter Tedlar Bag samples were received on April 17, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: DW-3S

Lab ID#: 0804388-01A
No Detections Were Found.

Client Sample ID: DW-7S

Lab ID#: 0804388-02A
No Detections Were Found.

Client Sample ID: DW-4D

Lab ID#: 0804388-03A
No Detections Were Found.

Client Sample ID: DW-4D Lab Duplicate

Lab ID#: 0804388-03AA
No Detections Were Found.

Client Sample ID: DW-3D

Lab ID#: 0804388-04A
No Detections Were Found.

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Client Sample ID: DW-3S

Lab ID#: 0804388-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c041709**	**Date of Collection: 4/16/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/08 02:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-7S

Lab ID#: 0804388-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c041710**	**Date of Collection: 4/16/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/08 02:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-4D

Lab ID#: 0804388-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c041711**	**Date of Collection: 4/16/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/08 03:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-4D Lab Duplicate

Lab ID#: 0804388-03AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c041712**	**Date of Collection:**	**4/16/08**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/17/08 03:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-3D

Lab ID#: 0804388-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	c041713	Date of Collection:	4/16/08
Dil. Factor:	1.00	Date of Analysis:	4/17/08 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804388-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	c041706	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/17/08 12:15 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804388-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c041703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/08 10:46 AM**	

Compound	**%Recovery**
Vinyl Chloride	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804388-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**c041705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/08 11:42 AM**	

Compound	%Recovery
Vinyl Chloride	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Appendix B

Summary of Condensate Sample
Analytical Results Including
Tentatively Identified Compounds

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Appendix B-1. Summary of Condensate Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [2].

Compound (units in ug/L)	Location ID: / Sample Date:	KO-200 3/17/2008	KO-300 3/17/2008	WSP-510 3/17/2008	Trip Blank 3/17/2008
	CAS No.				
1,1,1-Trichloroethane	71-55-6	< 1	< 1	<2.5	< 1
1,1,2,2-Tetrachloroethane	79-34-5	< 1	< 1	<2.5	< 1
1,1,2-Trichloroethane	79-00-5	< 1	< 1	<2.5	< 1
1,1-Dichloroethane	75-34-3	1.4	< 1	<2.5	< 1
1,1-Dichloroethene	75-35-4	< 1	< 1	<2.5	< 1
1,2,4-Trichlorobenzene	120-82-1	< 1	< 1	<2.5	< 1
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8	< 2	< 2	< 5	< 2
1,2-Dibromoethane (EDB)	106-93-4	< 1	< 1	<2.5	< 1
1,2-Dichlorobenzene	95-50-1	< 1	< 1	<2.5	< 1
1,2-Dichloroethane	107-06-2	< 1	< 1	<2.5	< 1
1,2-Dichloropropane	78-87-5	< 1	< 1	<2.5	< 1
1,4-Dichlorobenzene	106-46-7	< 1	< 1	<2.5	< 1
2-Butanone	78-93-3	1000 D	1300 D	440 D	< 5
2-Hexanone	591-78-6	< 5	< 5	< 13	< 5
4-Methyl-2-Pentanone	108-10-1	< 5	< 5	< 13	< 5
Acetone	67-64-1	17	40	44	< 10
Benzene	71-43-2	< 1	< 1	<2.5	< 1
Bromodichloromethane	75-27-4	< 1	< 1	<2.5	< 1
Bromoform	75-25-2	< 1	< 1	<2.5	< 1
Bromomethane	74-83-9	< 2	< 2	< 5	< 2
Carbon Disulfide	75-15-0	< 1	< 1	<2.5	< 1
Carbon Tetrachloride	56-23-5	< 1	< 1	<2.5	< 1
CFC-11	75-69-4	< 1	< 1	<2.5	< 1
Chlorobenzene	108-90-7	< 1	< 1	<2.5	< 1
Chlorodibromomethane	124-48-1	< 1	< 1	<2.5	< 1
Chloroethane	75-00-3	< 2	< 2	< 5	< 2
Chloroform	67-66-3	< 1	< 1	<2.5	< 1
Chloromethane	74-87-3	< 2	< 2	< 5	< 2
cis-1,2-Dichloroethene	156-59-2	40	4	15	< 1
cis-1,3-Dichloropropene	10061-01-5	< 1	< 1	<2.5	< 1
Cyclohexane	110-82-7	< 1	< 1	<2.5	< 1
Ethylbenzene	100-41-4	< 1	< 1	<2.5	< 1
Freon 113	76-13-1	< 1	< 1	<2.5	< 1
Freon 12	75-71-8	< 1	< 1	<2.5	< 1
Isopropylbenzene	98-82-8	< 1	< 1	6.6	< 1
m-Dichlorobenzene	541-73-1	< 1	< 1	<2.5	< 1
Methyl Acetate	79-20-9	< 10	< 10	< 25	< 10
Methyl tert-butyl ether	1634-04-4	< 10	< 1	<2.5	< 1
Methylcylohexane	108-87-2	< 1	< 1	<2.5	< 1
Methylene Chloride	75-09-2	< 1	< 1	<2.5	< 1
Styrene	100-42-5	< 1	< 1	<2.5	< 1
Tetrachloroethene	127-18-4	< 1	< 1	<2.5	< 1
Toluene	108-88-3	2.2	< 1	<2.5	< 1
trans-1,2-Dichloroethene	156-60-5	1.1	< 1	<2.5	< 1
trans-1,3-Dichloropropene	10061-02-6	< 1	< 1	<2.5	< 1
Trichloroethylene	79-01-6	22	3	9	< 1
Vinyl Chloride	75-01-4	4.8	1.7	<2.5	< 1
Xylene-o	95-47-6	< 1	< 1	<2.5	< 1
Xylenes - m,p	179601-23-1	< 1	< 1	<2.5	< 1
TVOC		1089	1349	515	0

Notes and abbreviations on next page

Appendix B-1. Summary of Condensate Sample Analytical Results, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York [2].

Notes and Abbreviations:

Bold	Compound detected above method detection limit
CAS No.	Chemical abstracts service list number
D	Compound detected at a secondary dilution
TVOC	Total volatile organic compounds
ug/L	Micorgrams per liter

1. Total volatile organic compounds determined by summing individual detections and rounding to the nearest whole number.
2. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Rochester, NY) for VOC analyses using Method 8260 in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

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Appendix B-2. Summary of Condensate Sample Analytical Results, Tentatively Identified Compounds (TICs), Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York[2].

Tentatively Identified Compound (units in ug/L)	Sample ID: / Date:	WSP-200 3/17/2008	WSP-300 3/17/2008	WSP-510 3/17/2008
Unknown		--	--	**21 J**
Ethanol		--	--	**1200 JN**
Furan, tetrahydro-		**130 JN**	**140 JN**	**73 JN**
Unknown alcohol		--	**14 J**	**21 J**
Cyclohexanone		**17 JN**	**13 JN**	--
Isoproply Alcohol		--	**22 JN**	--
Butanal		--	**5 JN**	--
Heptanal		--	**9 JN**	--
1-Hexanol, 2-ethyl-		--	**14 JN**	--

Notes and Abbreviations:

--	Not Reported
Bold	Detected
J	Estimated value
N	Presumptive evidence of this constituent. Calibrations were not run for these constituents; therefore, the results should be used for qualitative purposes only.
ug/L	Micorgrams per liter

1. TICs are identified based on review of mass spectrometry results via a comprehensive library search of all organic compounds.
2. Samples were collected by O&M personnel on the dates shown and submitted to Columbia Analytical Services Laboratory (Rochester, NY) for VOC analyses using Method 8260 in accordance with the project Sampling and Analysis Plan (ARCADIS,2008) . Data presented in this table corresponds to the period February - June 2008.

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Appendix C

Air Modeling Calculations

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Table C-1. Summary of SCREEN3 Model Input and Outputs, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

Parameters	Date Sampled:	2/18/2008	2/19/2008	2/25/2008	3/3/2008	3/17/2008	4/16/2008	5/19/2008	6/2/2008
SCREEN3 Model Input									
Source Type		Point	Point	Point	Point	Point	Point	Point	Point
Emission Rate (g/s)		1	1	1	1	1	1	1	1
Stack Height (ft)		33	33	33	33	33	33	33	33
Stack Height (m)		10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Stack Inside Diameter (m)		0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Air Flow Rate (scfm) [1]		1,964	1,674	1,679	1,793	1,774	641	666	746
Air Flow Rate (acfm @ stack temp) [2]		2,048	1,717	1,754	1,873	1,859	655	671	766
Stack Gas Exit Temperature (K) [1]		307	302	308	308	309	301	296	303
Ambient Air Temperature (K) [3]		283	275	274	275	276	281	284	294
Receptor Height (m) [4]		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Urban/Rural		Urban	Urban	Urban	Urban	Urban	Urban	Urban	Urban
Building Height (m)		2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Min Horizontal Bldg Dim (m)		4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Max Horizontal Bldg Dim (m)		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Consider Bldg Downwash?		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Simple/Complex Terrain Above Stack		Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple
Simple/Complex Terrain Above Stack Base		Simple	Simple	Simple	Simple	Simple	Simple	Simple	Simple
Meteorology		Full	Full	Full	Full	Full	Full	Full	Full
Automated Distances Array		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Terrain Height Above Stack Base		0	0	0	0	0	0	0	0
SCREEN3 Model Output									
1-HR Max		596.3	698.3	638.3	622.9	627.6	1,292	1,278	1,200
Annualization Factor [6]		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Average Annual Concentration at Receptor Height (ug/m^3) [7]		47.7	55.9	51.1	49.8	50.2	103.4	102.2	96
Distance To Max Concentration (m) [8]		66	61	64	64	64	45	45	47

See notes last page.

Table C-1. Summary of SCREEN3 Model Input and Outputs, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

Notes

1. The stack air flow rate (in scfm) and temperature were measured using a handheld thermo-anemometer. Values were measured immediately prior to where the effluent air stream enters the vapor-phase carbon unit.
2. The stack air flow rate at the stack temperature (in acfm) was calculated by dividing the stack air flow rate in scfm by the ratio of the standard temperature to the actual stack gas exit temperature.
3. The ambient temperature was recorded from the weather.newday.com website for Islip, New York. The mean actual temperature from the website was used in model calculation.
4. The receptor height corresponds to the average inhalation level.
5. SCREEN3 calculated constituent concentration at listed conditions at the specified inhalation level.
6. A USEPA time averaging conversion factor of 1/0.08 was used to convert the 1-hour maximum concentration output to an annual average.
7. Average annual constituent concentration at the receptor height was calculated by multiplying the one hour maximum concentration by the annualization factor.
8. SCREEN3 calculated distance to the 1-hour maximum concentration.

g/s - Grams per second
ft - Feet
m - Meters
scfm - Standard cubic feet per minute
acfm - Actual cubic feet per minute
K - Kelvin
$\mu g/m^3$ - Micrograms per cubic meter

Table C-2. Summary of Annual Maximum Allowable Stack Concentration Calculations, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

Constituent	Actual Effluent Concentrations [1] (µg/m^3)							
	2/18/2008	2/19/2008	2/25/2008	3/3/2008	3/17/2008	4/16/2008	5/19/2008	6/2/2008
Vinyl chloride	0	0	1.1	40	920	710	65	13
1,1-Dichloroethane	0	0	0	0	0	0	5.8	7.6
Trichloroethylene	0	0	0	0	0	0	5.3	6.5
Tetrachloroethylene	0	0	0	0	0	0	0	2.2
cis-1,2-Dichloroethylene	0	0	0	0	0	78	180	230
Dichlorodifluoromethane (Freon 12)	0	0.71	5.7	8.3	0	0	0	0
Acetone	0	0	0	0	0	0	0	8.4
Chloroform	0	0	0	0	0	0	0	3
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	2.8

Constituent	AGC [2] (µg/m^3)	Annual Maximum Allowable Stack Concentration (µg/m^3)							
		2/18/2008	2/19/2008	2/25/2008	3/3/2008	3/17/2008	4/16/2008	5/19/2008	6/2/2008
Vinyl chloride	0.11	2.39E+03	2.43E+03	2.60E+03	2.50E+03	2.50E+03	3.44E+03	3.40E+03	3.17E+03
1,1-Dichloroethane	0.63	1.37E+04	1.39E+04	1.49E+04	1.43E+04	1.43E+04	1.97E+04	1.95E+04	1.82E+04
Trichloroethylene	0.5	1.08E+04	1.10E+04	1.18E+04	1.14E+04	1.14E+04	1.56E+04	1.54E+04	1.44E+04
Tetrachloroethylene	1	2.17E+04	2.21E+04	2.36E+04	2.27E+04	2.27E+04	3.13E+04	3.09E+04	2.88E+04
cis-1,2-Dichloroethylene	1,900	4.12E+07	4.19E+07	4.49E+07	4.32E+07	4.31E+07	5.94E+07	5.87E+07	5.47E+07
Dichlorodifluoromethane (Freon 12)	12,000	2.60E+08	2.65E+08	2.84E+08	2.73E+08	2.72E+08	3.75E+08	3.71E+08	3.46E+08
Acetone	28,000	6.07E+08	6.18E+08	6.62E+08	6.36E+08	6.36E+08	8.76E+08	8.65E+08	8.07E+08
Chloroform	0.043	9.33E+02	9.49E+02	1.02E+03	9.77E+02	9.76E+02	1.35E+03	1.33E+03	1.24E+03
trans-1,2-Dichloroethene	1,900	4.12E+07	4.19E+07	4.49E+07	4.32E+07	4.31E+07	5.94E+07	5.87E+07	5.47E+07

See notes last page.

Table C-2. Summary of Annual Maximum Allowable Stack Concentration Calculations, Northrop Grumman Operable Unit 3 Soil Gas Interim Remedial Measure, Former Grumman Settling Ponds, Bethpage, New York.

Constituent	Percent of Annual Maximum Allowable Stack Concentration [4]							
	2/18/2008	2/19/2008	2/25/2008	3/3/2008	3/17/2008	4/16/2008	5/19/2008	6/2/2008
Vinyl chloride	0.00%	0.00%	0.04%	1.60%	36.84%	20.63%	1.91%	0.41%
1,1-Dichloroethane	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.04%
Trichloroethylene	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.05%
Tetrachloroethylene	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%
cis-1,2-Dichloroethylene	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Dichlorodifluoromethane (Freon 12)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Acetone	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Chloroform	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.24%
trans-1,2-Dichloroethene	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Notes:

1. Actual effluent concentrations are analytical results from air samples collected on the dates shown.
2. AGC refers to the compound-specific annual guideline concentration per the NYSDEC DAR-1 AGC/SGC tables, revised December 22, 2003.
3. Annual maximum allowable stack concentrations were calculated by dividing the product of the annual guideline concentration of a constituent and the ratio of the SCREEN3 gas emission rate and the SCREEN 3 average annual concentration at receptor height by the air flow rate at the stack temperature and multiplying by the appropriate conversion factors.
4. Percent of MASC was calculated by dividing the actual effluent concentration by the MASC for a given monitoring event.

$\mu g/m^3$ - Micrograms per cubic meter

AGC - Annual guideline concentration

Appendix D

Soil Management Summary

ARCADIS

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From:
Lucas Cullen

Date:
August 4, 2008

ARCADIS Project No.:
NY001464.1907

Subject:
Soil Management Summary
Operable Unit 3 Soil Gas Interim Remedial Measure Construction
Former Grumman Settling Ponds, Bethpage New York

This memorandum has been prepared to provide a summary of soils exported and material imported during the construction of the Soil Gas Interim Remedial Measure (IRM) for Operable Unit Three (OU3) at the Former Grumman Settling Ponds in Bethpage, New York. In general there were three different waste streams that were exported from the site and two different import materials that were imported to the site. The three different waste streams exported from the site are as follows:

- Pre-construction characterized polychlorinated biphenyls (PCB) impacted soils.
- Volatile organic compound (VOC) and chromium impacted soils; and,
- PCB impacted soils discovered during construction.

The two different import material imported to the site are as follows:

- Common backfill; and
- Recycled concrete aggregate (RCA).

Pre-Construction Characterized Impacted Soils

Prior to mobilization for construction, a pre-characterization program was completed to identify soils that would require off-site disposal from the areas within or just adjacent to the proposed trench alignment. The pre-characterization sample locations, analytical results, and estimated extent of soils removed are identified on Figures D1 and D2. In general these included:

- A zero to four foot excavation within the area where the western leg and southern leg meet.
- A zero to ten foot excavation within the area around boring PC-3-2.
- A zero to eight foot excavation within the area around boring PC-03; and,
- A zero to four foot excavation with the area from approximately B-16W10 to DW-11S.

These soils were shipped to CWM Chemical Services, Inc. Model City Landfill under approved Waste Profile NY296605. Summary tables that present the analytical results for pre-construction laboratory analytical data is provided in Tables D1, D2, D3 and D4. Summary tables that quantify all PCB containing material sent to CWM Chemical Services, Inc. Model City Landfill under Waste Profile NY296605 is provided in Table D1. Copies of manifests for waste transported to CWM Chemical Services, Inc. Model City Landfill are also attached herein.

VOC and Chrome Impacted Soils

On December 17, 2007, during excavation of the trench for the OU3 soil gas IRM, the excavation contractor observed what he characterized as visibly-stained soils along the western leg of the trench. As excavation continued, the visibly-stained soils were removed from the trench and stockpiled. However, shortly after uncovering the visibly-stained materials, the contractor reported an odor that he compared to VOCs. Simultaneous, the community air monitoring equipment used to monitor for VOCs down wind of the excavation indicated the presences of VOCs above the Community Air Monitoring Plan (ARCADIS, March 2006) (CAMP) action level of 5 parts per million (ppm), based on a fifteen minute time-weighted average (TWA). In accordance with the CAMP, excavation activities were halted, the contractor removed equipment from the area, and covered the stock pile and excavation area with polyethylene sheeting.

Soil Sampling Activities

To identify the constituents of constituents of concern (COCs) causing the VOC vapors, ARCADIS collected samples of the staged, visibly-stained soils on December 18, 2007. A back hoe was used to dig approximately one foot into the visibly-stained staged soil pile. The uncovered soil from one location was then placed into a stainless steel bowl. The VOC sample was taken directly from the bowl using a

stainless steel spoon. The remaining soil was then homogenized and used to fill containers for additional sample analyses (i.e., semi volatile organic compounds [SVOCs], PCBs, Toxicity Characteristic Leaching Procedure [TCLP], and Metals). Samples were packaged and sent to Columbia Analytical Services, Inc. of Rochester, New York (Columbia) for laboratory analysis.

Analytical results obtained from the soil sample collected on December 18, 2007 are presented in Tables D6, D7, D8, D9, and D10. Results are summarized below:

- No VOCs, SVOCs, PCBs or Metals were detected in the characterization soil sample at concentrations above the Industrial Soil Cleanup Standards presented in New York State Department of Environmental Conservation (NYSDEC) Part 375.

- No TCLP VOCs were detected in the characterization soil sample.

Response

Based on the results of the characterization sample, excavation activities in connection with the Soil Gas IRM continued. Visibly-stained material were removed (where encountered) to the depth of the trench excavation proposed for the respective area. Visibly-stained material were segregated and staged adjacent to the excavation and covered for off-site transportation.

Disposal

On February 7, 2008 waste characterization samples were collected to provide the required information to prepare a profile for off-site disposal of the impacted soils. Samples indicated elevated levels of VOCs and chromium. As a result, a new profile for disposal of these soils were required due the difference in constituents identified from the original profile prepared for the site. These soils were shipped to CWM Chemical Services, Inc. Model City Landfill during on April 1 and 4, 2008 under approved Waste Profile NY296709. A summary table that quantifies the disposal volume of these soils sent to CWM Chemical Services, Inc. Model City Landfill under Waste Profile NY296709 is provided in Table D11. Copies of manifests for waste transported to CWM Chemical Services, Inc. Model City Landfill are also attached herein.

PCB Impacted Soils Discovered during Construction

In a November 16, 2007 letter from the New York State Department of Environmental Conservation (NYSDEC), the NYSDEC provided acceptance of the approach for soil management provided in the November 9, 2007 soil management plan submittal. The NYSDEC requested the uppermost interval of the post-compacted back fill materials be sampled at the rate of one sample for every 2,000 yards for SVOCs, PCBs, TAL metals and cyanide. Accordingly, soil samples were collected from a stockpile that

was to be used for backfill from the zero to two feet below grade surface (bgs) and were analyzed in accordance with the November 16, 2007 letter from the NYSDEC. On January 9, 2008, a soil sample collected from the zero to two feet bgs stockpile indicated the presence of PCBs at 290 parts per million (ppm) within the stockpile approximately 510 feet west of the fence adjacent to Stewart Avenue. This stockpile had a definitive end at approximately 475 feet west of the fence adjacent to Stewart Avenue. To better define the extent of impacted soils, additional samples were collected on January 16, 2008. Samples were collected and analyzed from this stockpile at approximately 510 feet, 580 feet, 650 feet, and 720 feet west of the fence adjacent to Stewart Avenue. Analytical results indicated that no more than 110 feet of this stock pile were impacted with PCBs greater than 1 ppm. As such, 110 feet of this stockpile were identified for removal from the site as PCB impacted soils. These soils were shipped to CWM Chemical Services, Inc. Model City Landfill during the weeks of March 17 and March 24, 2008 under approved Waste Profile NY296605. A summary table that quantifies all PCB impacted soils sent to CWM Chemical Services, Inc. Model City Landfill under Waste Profile NY296605 provided in Table D1. Copies of manifests for waste transported to CWM Chemical Services, Inc. Model City Landfill is also attached. Tables D6, D7, D8, D9, and D10 summarize the laboratory analytical results for impacted soils encountered during construction.

Common Backfill

As required, common backfill and pipe bedding were imported to the site from 110 Sand Company located in Melville, New York. 110 Sand Company is a New York State Department of Transportation approved aggregate source. On February 20, 2008 a sample of the 110 Sand aggregate was submitted for analysis for VOCs, SVOCs, PCBs, Pesticides, and TAL Metals. Analytical results indicated that there were no exceedences to the industrial standards for all compounds. During the construction a total of approximately 1,086 tons of aggregate was imported to the site from 110 Sand Company. A summary of the imported material quantities from 110 Sand Company is attached to this memo in Table D12. A summary of the analytical data for common backfill is provided in Attachment D-2.

Recycled Concrete Aggregate

During construction of the soil gas IRM a substitution of RCA was made for Dense Graded Aggregate (DGA) due to the limited availability of DGA. In addition, this substitution was made to reduce cost and maintain schedule. The RCA was used in areas as indicated on the contract drawings and within the road crossing areas. The RCA was imported from South Island Industries, Inc. (South Island) of Inwood, New York. South Island is a NYSDOT approved source for Type 2 material and a New York State Department of Environmental Conservation (NYSDEC) approved recycling facility. Samples of the RCA were collected on March 10, 2008 from six locations within a stockpile identified for the soil gas IRM. Samples were analyzed for VOCs, SVOCs, PCBs, Pesticides, TAL Metals, and % moisture. Sample results indicated that there were no exceedences to the industrial standards for those analysis completed. During the construction a total of 280 cubic yards of RCA was imported to the site from South Island Industries,

Inc. A summary of the imported material quantities from South Island Industries, Inc. is attached to this memo in Table D13. A summary of the analytical data for RCA is provided in Attachment D-2.

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Table D1. Concentrations of Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

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

See last page for notes.

Table D1. Concentrations of Volatile Organic Compounds in Soil Samples from SVE IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

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

See last page for notes.

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Table D1. Concentrations of Volatile Organic Compounds in Soil Samples from SVE IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

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

Notes:

1. All samples analyzed on a dry weight basis.

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

Table D2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: Sample Depth (ft bls): Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-02 0-4 9/13/2007	PC-02 4-8 9/13/2007	PC-03 0-4 9/13/2007	PC-03 4-8 9/13/2007
1,2-Benzphenanthracene	--		**2.2**	**2**	**0.41**	< 0.35	< 7.3	< 3.4
2,4,5-Trichlorophenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
2,4,6-Trichlorophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2,4-Dichlorophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2,4-Dimethylphenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2,4-Dinitrophenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
2,4-Dinitrotoluene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2,6-Dinitrotoluene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2-Chloronaphthalene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2-Chlorophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2-Methylnaphthalene	--		**1.6 J**	**2.3**	< 0.4	< 0.35	< 7.3	< 3.4
2-Methylohenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
2-Nitroaniline	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
2-Nitrophenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
3,3'-Dichlorobenzidine	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
3,5,5-Trimethyl-2-Cyclohexene-1-One	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
3-Nitroaniline	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
4,6-Dinitro-2-Methylphenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
4-Bromophenylphenylether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
4-Chloro-3-Methylphenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
4-Chlorophenylphenylether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
4-Methylphenol	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
4-Nitrophenol	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
Acenaphthene	1000		**0.33 J**	**0.21 J**	**0.066 J**	< 0.35	< 7.3	< 3.4
Acenaphthylene	1000		**0.8 J**	**1.2 J**	< 0.4	< 0.35	< 7.3	< 3.4
Acetophenone	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Anthracene	1000		**1.7 J**	**2**	**0.1 J**	< 0.35	< 7.3	< 3.4
Benzo(a)anthracene	11		**2.2**	**2**	**0.36 J**	< 0.35	< 7.3	< 3.4
Benzo(a)pyrene	1.1		**1.7 J**	**1.7 J**	**0.35 J**	< 0.35 J	< 7.3	< 3.4
Benzo(b)fluoranthene	11		**0.83 J**	**0.7 J**	**0.35 J**	< 0.35	< 7.3	< 3.4
Benzo(g,h,i)perylene	1000		**0.99 J**	**1 J**	**0.24 J**	< 0.35	< 7.3	< 3.4
Benzo(k)fluoranthene	110		**1.2 J**	**1.1 J**	**0.33 J**	< 0.35	< 7.3	< 3.4
Benzyl butyl phthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Bis(2-chloroethoxy)methane	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Bis(2-chloroethyl)ether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Bis(2-chloroisopropyl)ether	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Bis(2-ethylhexyl)phthalate	--		< 1.8	< 1.8	< 0.4	**0.13 J**	< 7.3	< 3.4
Dibezo(a,h)anthracene	1.1		**0.32 J**	**0.32 J**	**0.079 J**	< 0.35	< 7.3	< 3.4
Dibenzofuran	--		**0.21 J**	**0.19 J**	**0.023 J**	< 0.35	< 7.3	< 3.4
Diethylphthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Dimethylphthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Di-n-butylpthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Di-n-Octylphthalate	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Fluoranthene	1000		**3.6**	**3.1**	**1**	< 0.35	< 7.3	< 3.4
Fluorene	1000		**1.7 J**	**2.2**	**0.056 J**	< 0.35	< 7.3	< 3.4
Hexachloro-1,3-Butadiene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Hexachlorobenzene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Hexachlorocyclopentadiene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Hexachloroethane	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Indeno(1,2,3-CD)Pyrene	11		**0.86 J**	**0.85 J**	**0.23 J**	< 0.35	< 7.3	< 3.4
Naphthalene	1000		**1.3 J**	**2**	< 0.4	< 0.35	**0.17 J**	< 3.4
Nitrobenzene	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
n-Nitrosodi-n-propylamine	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
n-Nitrosodiphenylamine	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4

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Table D2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: / Sample Depth (ft bls): / Sample Date:	PC-01 0-4 9/13/2007	PC-01 4-8 9/13/2007	PC-02 0-4 9/13/2007	PC-02 4-8 9/13/2007	PC-03 0-4 9/13/2007	PC-03 4-8 9/13/2007
4-Chloroaniline	--		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
Pentachlorophenol	55		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
Phenanthrene	1000		**7.4**	**8.1**	**0.71**	< 0.35	**0.35 J**	**0.2 J**
Phenol	1000		< 1.8	< 1.8	< 0.4	< 0.35	< 7.3	< 3.4
4-Nitroaniline	--		< 4.5	< 4.4	< 1	< 0.87	< 18	< 8.6
Pyrene	1000		**4.6**	**4.3**	**0.77**	< 0.35	< 7.3	< 3.4
TSVOC			**33.54**	**35.27**	**5.074**	**0.13**	**0.52**	**0.2**

Notes:

1. All samples analyzed on a dry weight basis.

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

Table D2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: ample Depth (ft bls): Sample Date:	PC-04 0-4 9/13/2007	PC-04 4-8 9/13/2007	PC-05 4-8 9/13/2007	PC-06 4-8 9/13/2007	PC-07 4-8 9/13/2007
1,2-Benzphenanthracene	--		**0.049 J**	**0.033 J**	**0.034 J**	< 0.36	< 0.35
2,4,5-Trichlorophenol	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
2,4,6-Trichlorophenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,4-Dichlorophenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,4-Dimethylphenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,4-Dinitrophenol	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
2,4-Dinitrotoluene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2,6-Dinitrotoluene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Chloronaphthalene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Chlorophenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Methylnaphthalene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Methylphenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
2-Nitroaniline	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
2-Nitrophenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
3,3'-Dichlorobenzidine	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
3,5,5-Trimethyl-2-Cyclohexene-1-One	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
3-Nitroaniline	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
4,6-Dinitro-2-Methylphenol	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
4-Bromophenylphenylether	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Chloro-3-Methylphenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Chlorophenylphenylether	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Methylphenol	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Nitrophenol	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
Acenaphthene	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Acenaphthylene	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Acetophenone	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Anthracene	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Benzo(a)anthracene	11		< 0.37 J	< 0.37 J	< 0.37 J	< 0.36	< 0.35
Benzo(a)pyrene	1.1		< 0.37 J	< 0.37 J	< 0.37 J	< 0.36	< 0.35
Benzo(b)fluoranthene	11		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Benzo(g,h,i)perylene	1000		**0.11 J**	**0.08 J**	**0.064 J**	< 0.36	< 0.35
Benzo(k)fluoranthene	110		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Benzyl butyl phthalate	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-chloroethoxy)methane	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-chloroethyl)ether	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-chloroisopropyl)ether	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Bis(2-ethylhexyl)phthalate	--		**0.18 J**	**0.22 J**	**0.22 J**	**0.058 J**	< 0.35
Dibezo(a,h)anthracene	1.1		**0.073 J**	**0.062 J**	**0.047 J**	< 0.36	< 0.35
Dibenzofuran	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Diethylphthalate	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Dimethylphthalate	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Di-n-butylpthalate	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Di-n-Octylphthalate	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Fluoranthene	1000		**0.092 J**	< 0.37	< 0.37	< 0.36	< 0.35
Fluorene	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachloro-1,3-Butadiene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachlorobenzene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachlorocyclopentadiene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Hexachloroethane	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Indeno(1,2,3-CD)Pyrene	11		**0.094 J**	**0.069 J**	**0.056 J**	< 0.36	< 0.35
Naphthalene	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Nitrobenzene	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
n-Nitrosodi-n-propylamine	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
n-Nitrosodiphenylamine	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35

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Table D2. Concentrations of Semi-Volatile Organic Compounds in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Constituents mg/kg	Part 375 Industrial Use Soil Cleanup Objective	Sample ID: ample Depth (ft bls): Sample Date:	PC-04 0-4 9/13/2007	PC-04 4-8 9/13/2007	PC-05 4-8 9/13/2007	PC-06 4-8 9/13/2007	PC-07 4-8 9/13/2007
4-Chloroaniline	--		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
Pentachlorophenol	55		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
Phenanthrene	1000		**0.053 J**	**0.024 J**	**0.025 J**	**0.015 J**	< 0.35
Phenol	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
4-Nitroaniline	--		< 0.93	< 0.93	< 0.92	< 0.92	< 0.88
Pyrene	1000		< 0.37	< 0.37	< 0.37	< 0.36	< 0.35
TSVOC			**0.651**	**0.488**	**0.446**	**0.073**	0

Notes:
1. All samples analyzed on a dry weight basis.

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

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Table D3. Concentrations of Total and TCLP Chromium in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

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

Notes:

1. All samples analyzed on a dry weight basis.

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

Table D4. Concentrations of Polychlorinated Biphenyls in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

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

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

See last page for notes.

Table D4. Concentrations of Polychlorinated Biphenyls in Soil Samples from Soil Gas IRM Trench Area, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

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

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

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

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

Table D-5. Transportation and Disposal Summary of PCB Containing Soils Profile NY296605, Operable Unit 3, Soil Gas IRM, Former Grumman Settling Ponds, Bethpage, New York.

Date	Manifest Tracking Number	Transport Tickets #	Pounds	Tons
12/26/2007	000364561 GBF	158469	70380	35.19
12/26/2007	000364554 GBF	158472	70340	35.17
12/26/2007	000364558 GBF	158477	52520	26.26
12/26/2007	00036559 GBF	158478	68320	34.16
12/26/2007	000364560 GBF	158479	59740	29.87
12/26/2007	000364557 GBF	158480	74820	37.41
12/26/2007	000364555 GBF	158485	69660	34.83
12/26/2007	000364556 GBF	158488	70420	35.21
12/27/2007	000364562 GBF	158500	64700	32.35
12/27/2007	000364563 GBF	158545	70640	35.32
12/28/2007	000364566 GBF	158549	64920	32.46
12/28/2007	000364570 GBF	158584	69820	34.91
12/28/2007	000364565 GBF	158586	68020	34.01
12/28/2007	000364568 GBF	158597	70420	35.21
12/28/2007	000364567 GBF	158598	69280	34.64
12/28/2007	000364569 GBF	158603	73100	36.55
1/3/2008	000364573 GBF	158715	62600	31.3
1/3/2008	000364574 GBF	158716	69360	34.68
1/3/2008	000364571 GBF	158717	74740	37.37
1/3/2008	000364572 GBF	158756	69240	34.62
1/4/2008	000364577 GBF	158808	68380	34.19
1/4/2008	000364578 GBF	158810	65440	32.72
3/19/2008	000364581 GBF	160890	68940	34.47
3/19/2008	000364582 GBF	160901	59200	29.6
3/19/2008	000364580 GBF	160904	80460	40.23
3/19/2008	000364579 GBF	160909	77560	38.78
3/20/2008	000364584 GBF	160922	71820	35.91
3/20/2008	000364587 GBF	160932	60940	30.47
3/20/2008	000364583 GBF	160959	70480	35.24
3/20/2008	000364585 GBF	160967	75140	37.57
3/24/2008	000364589 GBF	160948	69800	34.9
3/24/2008	000364590 GBF	160957	75900	37.95
3/24/2008	000364591 GBF	160958	71620	35.81
3/24/2008	000364592 GBF	160961	66440	33.22
3/26/2008	000364593 GBF	160994	75840	37.92
3/26/2008	000364594 GBF	160997	68260	34.13
4/1/2008	000364596 GBF	161056	65100	32.55
4/1/2008	000364595 GBF	161060	69940	34.97
4/4/2008	000364598 GBF	161103	71320	35.66
4/4/2008	000364597 GBF	161217	49480	24.74
			TOTAL TONNAGE	**1,372.55**

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Table D6. Concentrations of VOCs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation Operable Unit 3 Former Grumman Settling Ponds, Bethpage, New York.

CONSTITUENT ug/kg	NYSDEC Part 375 Industrial	RCRA	Sample Location: WLT-ST Sample Date: 12/18/2007		Sample Location: WL-TB Sample Date: 1/29/2008	Sample Location: WLT-ST (2) Sample Date: 2/7/2008	
VOCs							
1,1,1-Trichloroethane	1,000,000	NE	< 2800		<5.3	<5	
1,1,2,2-Tetrachloroethane	NE	NE	< 2800		<5.3	<5	
1,1,2-Trichloroethane	NE	NE	< 2800		<5.3	<5	
1,1-Dichloroethane	480,000	NE	< 2800		<5.3	<5	
1,1-Dichloroethene	1,000,000	700	< 2800		<5.3	<5	
1,2-Dichloroethane	60,000	500	< 2800		<5.3	<5	
1,2-Dichloropropane	NE	NE	< 2800		<5.3	<5	
2-Butanone	1,000,000	NE	< 28000		<11	<10	
2-Hexanone	NE	NE	< 28000		<11	<10	
4-Methyl-2-pentanone	NE	NE	< 28000		<11	<10	
Acetone	1,000,000	NE	< 28000		<21	<20	
Benzene	89,000	500	< 2800		<5.3	<5	
Bromodichloromethane	NE	NE	< 2800		<5.3	<5	
Bromoform	NE	NE	< 2800		<5.3	<5	
Bromomethane	NE	NE	< 2800		<5.3	<5	
Carbon disulfide	NE	NE	< 28000		<11	<10	
Carbon tetrachloride	44,000	NE	< 2800		<5.3	<5	
Chlorobenzene	1,000,000	100,000	< 2800		<5.3	<5	
Chloroethane	NE	NE	< 2800		<5.3	<5	
Chloroform	700,000	6,000	< 2800		<5.3	<5	
Chloromethane	NE	NE	< 2800		<5.3	<5	
cis-1,2-Dichloroethene	1,000,000	NE	< 2800		<5.3	<5	
cis-1,3-Dichloropropene	NE	NE	< 2800		<5.3	<5	
Dibromochloromethane	NE	NE	< 2800		<5.3	<5	
Dichlorodifluoromethane (Freon 12)	NE	NE	< 2800		<5.3	<5	
Ethylbenzene	780,000	NE	**6,600**		<5.3	**18,000**	
Freon 113	NE	NE	< 2800		<5.3	<5	
Methylene chloride	1,000,000	NE	< 2800		<5.3	<5	
Styrene	NE	NE	< 2800		<5.3	<5	
Tetrachloroethene	300,000	700	< 2800		<5.3	<5	
Toluene	1,000,000	NE	**160,000**	**E**	**37**	**52,000**	**D**
trans-1,2-Dichloroethene	1,000,000	NE	< 2800		<5.3	<5	
trans-1,3-Dichloropropene	NE	NE	< 2800		<5.3	<5	
Trichloroethene	400,000	500	**390**	**J**	<5.3	<5	
Vinyl Chloride	27,000	200	< 2800		<5.3	<5	
Xylene-O	1,000,000	NE	**7,300**		<5.3	**47,000**	**D**
Xylene-M&P	1,000,000	NE	**23,000**		<5.3	**83,000**	**D**
TVOC			**197,290**		**37.0**	**200,000**	

Notes and Abbreviations:

Bold value indicates a detection

Result exceeds NYSDEC Part 375 Industrial Soil Cleanup Standards

Result exceeds 40 CFR Part 261 Toxicity Characteristics Concentrations

NYSDEC New York State Department of Environmental Conservation

ug/kg milligrams per kilogram

NE Not Established

Table D7. Concentrations of VOCs from TCLP Analysis in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT ug/kg	Sample Location: / Sample Date:	WLT-ST 12/18/2007	WLT-ST 12/18/2007	WLT-ST(2) 2/7/2008
VOCs				
1,1-Dichloroethene		< 50	< 50	--
1,2-Dichloroethane		< 50	< 50	--
2-Butanone		< 100	< 100	--
Benzene		< 50	< 50	--
Carbon tetrachloride		< 50	< 50	--
Chlorobenzene		< 50	< 50	--
Tetrachloroethene		< 50	< 50	--
Trichloroethene		< 50	< 50	--
Vinyl Chloride		< 50	< 50	--

Notes and Abbreviations:

ug/kg milligrams per kilogram

Table D8. Concentrations of SVOCs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT ug/kg			Sample Location: WLT-ST Sample Date: 12/18/2007		MFT 12/6/2007 0-2		WLT-1 12/14/2007 0-2		WLT-ST 12/18/2007	
	NYSDEC Part 375									
SVOCs	Industrial	RCRA								
2,4,5-Trichlorophenol	NE	400,000	< 370		< 370		< 370		< 370	
2,4,6-Trichlorophenol	NE	2,000	< 370		< 370		< 370		< 370	
2,4-Dichlorophenol	NE	NE	< 370		< 370		< 370		< 370	
2,4-Dimethylphenol	NE	NE	< 370		< 370		< 370		< 370	
2,4-Dinitrophenol	NE	NE	< 370		<1900		<1900		<1900	
2,4-Dinitrotoluene	NE	130	<1900		< 370		< 370		< 370	
2,6-Dinitrotoluene	NE	NE	< 370		< 370		< 370		< 370	
2-Chloronaphthalene	NE	NE	< 370		< 370		< 370		< 370	
2-Chlorophenol	NE	NE	< 370		< 370		< 370		< 370	
2-Methylnaphthalene	NE	NE	**180**	J	< 370		**28**	J	**180**	J
2-Methylphenol	NE	NE	< 370		< 370		< 370		< 370	
2-Nitroaniline	NE	NE	<1900		<1900		<1900		<1900	
2-Nitrophenol	NE	NE	< 370		< 370		< 370		< 370	
3,3-Dichlorobenzidine	NE	NE	< 370		< 370		< 370		< 370	
3-Nitroaniline	NE	NE	<1900		<1900		<1900		<1900	
4,6-Dinitro-2-methylphenol	NE	NE	<1900		<1900		<1900		<1900	
4-Bromophenyl phenyl ether	NE	NE	< 370		< 370		< 370		< 370	
4-Nitroaniline	NE	NE	<1900		<1900		<1900		<1900	
4-Nitrophenol	NE	NE	<1900		<1900		<1900		<1900	
4-Chlorophenyl phenyl ether	NE	NE	< 370		< 370		< 370		< 370	
4-Chloroaniline	NE	NE	< 370		< 370		< 370		< 370	
4-Chloro-3-methylphenol	NE	NE	< 370		< 370		< 370		< 370	
4-Methylphenol	NE	NE	< 370		< 370		< 370		< 370	
Acenaphthene	1,000,000	NE	**27**	J	**28**	J	< 370		**27**	J
Acenaphthylene	1,000,000	NE	< 370		< 370		< 370		< 370	
Acetophenone	NE	NE	**930**		< 370		< 370		**930**	
Anthracene	1,000,000	NE	**43**	J	**60**	J	< 370		**43**	J
Atrazine	NE	NE	< 370		< 370		< 370		< 370	
Benzaldehyde	NE	NE	< 370		< 370		< 370		< 370	
Benzo(a)anthracene	11,000	NE	**180**	J	**150**	J	**40**	J	**180**	J
Benzo(a)pyrene	1,100	NE	**180**	J	**140**	J	**44**	J	**180**	J
Benzo(b)fluoranthene	11,000	NE	**220**	J	**110**	J	**43**	J	**220**	J
Benzo(ghi)perylene	1,000,000	NE	**160**	J	**86**	J	**39**	J	**160**	J
Benzo(k)fluoranthene	110,000	NE	**190**	J	**120**	J	**39**	J	**190**	J
Biphenyl	NE	NE	< 370		< 370		< 370		< 370	
Bis(2-chloro-1-methylethyl) ether	NE	NE	< 370		< 370		< 370		< 370	
Bis(2-chloroethoxy)methane	NE	NE	< 370		< 370		< 370		< 370	
Bis(2-chloroethyl)ether	NE	NE	< 370		< 370		< 370		< 370	
Bis(2-ethylhexyl)phthalate (BEHP)	NE	NE	< 370		**27**	J	< 370		< 370	
Butyl benzyl phthalate	NE	NE	< 370		< 370		< 370		< 370	
Caprolactam	NE	NE	< 370		< 370		< 370		< 370	
Carbazole	NE	NE	< 370		**32**	J	< 370		< 370	
Chrysene	110,000	NE	**250**	J	**150**	J	**50**	J	**250**	J
Dibenzo(a,h)anthracene	1,100	NE	**39**	J	**32**	J	< 370		**39**	J
Dibenzofuran	NE	NE	**37**	J	< 370		< 370		**37**	J
Diethyl phthalate	NE	NE	< 370		< 370		< 370		< 370	
Dimethyl phthalate	NE	NE	< 370		< 370		< 370		< 370	
Di-n-butyl phthalate	NE	NE	**230**	J	< 370		< 370		**230**	J
Di-n-octyl phthalate	NE	NE	< 370		< 370		< 370		< 370	
Fluoranthene	1,000,000	NE	**480**		**370**		**81**	J	**480**	
Fluorene	1,000,000	NE	**25**	J	< 370		< 370		**25**	J
Hexachlorobenzene	NE	130	< 370		< 370		< 370		< 370	
Hexachlorobutadiene	NE	500	< 370		< 370		< 370		< 370	
Hexachlorocyclopentadiene	NE	NE	< 370		< 370		< 370		< 370	
Hexachloroethane	NE	3,000	< 370		< 370		< 370		< 370	
Indeno(1,2,3-cd)pyrene	11,000	NE	**150**	J	**83**	J	**27**	J	**150**	J

Footnotes on next page.

Table D8. Concentrations of SVOCs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT ug/kg			Sample Location: WLT-ST Sample Date: 12/18/2007		MFT 12/6/2007 0-2		WLT-1 12/14/2007 0-2		WLT-ST 12/18/2007	
	NYSDEC Part 375									
SVOCs	Industrial	RCRA								
Isophorone	NE	NE	< 370		< 370		< 370		< 370	
Naphthalene	1,000,000	NE	**180**	J	< 370		< 370		**180**	J
Nitrobenzene	NE	2,000	< 370		< 370		< 370		< 370	
N-Nitrosodiphenylamine	NE	NE	< 370		< 370		< 370		< 370	
N-Nitrosodipropylamine	NE	NE	< 370		< 370		< 370		< 370	
Pentachlorophenol	55,000	100,000	< 1900		< 1900		< 370		< 1900	
Phenanthrene	1,000,000	NE	**280**	J	**250**	J	**59**	J	**280**	J
Phenol	1,000,000	NE	< 370		< 370		< 370		< 370	
Pyrene	1,000,000	NE	**320**	J	**260**	J	**58**	J	**320**	J

Notes and Abbreviations:

Bold value indicates a detection

Result exceeds NYSDEC Part 375 Industrial Soil Cleanup Standards

Result exceeds 40 CFR Part 261 Toxicity Characteristics Concentrations

NYSDEC New York State Department of Environmental Conservation

ug/kg milligrams per kilogram

NE Not Established

Table D8. Concentrations of SVOCs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT ug/kg			Sample Location: EWLT-E Sample Date: 1/9/2008		Sample Location: EWLT-C Sample Date: 1/9/2008		Sample Location: EWLT-W Sample Date: 1/9/2008		Sample Location: WLT-ST Sample Date: 2/7/2008	
SVOCs	NYSDEC Part 375 Industrial	RCRA								
2,4,5-Trichlorophenol	NE	400,000	< 360		< 370		< 360		<1500	
2,4,6-Trichlorophenol	NE	2,000	< 360		< 370		< 360		<1500	
2,4-Dichlorophenol	NE	NE	< 360		< 370		< 360		<1500	
2,4-Dimethylphenol	NE	NE	< 360		< 370		< 360		<1500	
2,4-Dinitrophenol	NE	NE	<1800		<1900		<1900		<7700	
2,4-Dinitrotoluene	NE	130	< 360		< 370		< 360		<1500	
2,6-Dinitrotoluene	NE	NE	< 360		< 370		< 360		<1500	
2-Chloronaphthalene	NE	NE	< 360		< 370		< 360		<1500	
2-Chlorophenol	NE	NE	< 360		< 370		< 360		<1500	
2-Methylnaphthalene	NE	NE	< 360		< 370		< 360		<1500	
2-Methylphenol	NE	NE	< 360		< 370		< 360		<1500	
2-Nitroaniline	NE	NE	< 1800		<1900		<1900		<7700	
2-Nitrophenol	NE	NE	< 360		< 370		< 360		<1500	
3,3-Dichlorobenzidine	NE	NE	< 360		< 370		< 360		<1500	
3-Nitroaniline	NE	NE	< 1800		<1900		<1900		<7700	
4,6-Dinitro-2-methylphenol	NE	NE	< 1800		<1900		<1900		<7700	
4-Bromophenyl phenyl ether	NE	NE	< 360		< 370		< 360		<1500	
4-Nitroaniline	NE	NE	< 1800		<1900		<1900		<7700	
4-Nitrophenol	NE	NE	< 1800		<1900		<1900		<7700	
4-Chlorophenyl phenyl ether	NE	NE	< 360		< 370		< 360		<1500	
4-Chloroaniline	NE	NE	< 360		< 370		< 360		<1500	
4-Chloro-3-methylphenol	NE	NE	< 360		< 370		< 360		<1500	
4-Methylphenol	NE	NE	< 360		< 370		< 360		<1500	
Acenaphthene	1,000,000	NE	< 360		< 370		< 360		<1500	
Acenaphthylene	1,000,000	NE	< 360		< 370		< 360		<1500	
Acetophenone	NE	NE	< 360		< 370		< 360		<1500	
Anthracene	1,000,000	NE	< 360		< 370		< 360		<1500	
Atrazine	NE	NE	< 360		< 370		< 360		<1500	
Benzaldehyde	NE	NE	< 360		< 370		< 360		<1500	
Benzo(a)anthracene	11,000	NE	**74**	**J**	**58**	**J**	**60**	**J**	<1500	
Benzo(a)pyrene	1,100	NE	**72**	**J**	**47**	**J**	**62**	**J**	<1500	
Benzo(b)fluoranthene	11,000	NE	**73**	**J**	**56**	**J**	**57**	**J**	<1500	
Benzo(ghi)perylene	1,000,000	NE	**55**	**J**	**43**	**J**	**49**	**J**	<1500	
Benzo(k)fluoranthene	110,000	NE	**68**	**J**	**55**	**J**	**55**	**J**	<1500	
Biphenyl	NE	NE	< 360		< 370		< 360		<1500	
Bis(2-chloro-1-methylethyl) ether	NE	NE	< 360		< 370		< 360		<1500	
Bis(2-chloroethoxy)methane	NE	NE	< 360		< 370		< 360		<1500	
Bis(2-chloroethyl)ether	NE	NE	< 360		< 370		< 360		<1500	
Bis(2-ethylhexyl)phthalate (BEHP)	NE	NE	**34**	**J**	< 370		< 360		<1500	
Butyl benzyl phthalate	NE	NE	< 360		< 370		< 360		<1500	
Caprolactam	NE	NE	< 360		< 370		< 360		<1500	
Carbazole	NE	NE	< 360		< 370		< 360		<1500	
Chrysene	110,000	NE	**97**	**J**	**71**	**J**	**72**	**J**	<1500	
Dibenzo(a,h)anthracene	1,100	NE	< 360		< 370		< 360		<1500	
Dibenzofuran	NE	NE	< 360		< 370		< 360		<1500	
Diethyl phthalate	NE	NE	< 360		< 370		< 360		<1500	
Dimethyl phthalate	NE	NE	< 360		< 370		< 360		<1500	
Di-n-butyl phthalate	NE	NE	< 360		< 370		< 360		<1500	
Di-n-octyl phthalate	NE	NE	< 360		< 370		< 360		<1500	
Fluoranthene	1,000,000	NE	**170**	**J**	**130**	**J**	**130**	**J**	<1500	
Fluorene	1,000,000	NE	< 360		< 370		< 360		<1500	
Hexachlorobenzene	NE	130	< 360		< 370		< 360		<1500	
Hexachlorobutadiene	NE	500	< 360		< 370		< 360		<1500	
Hexachlorocyclopentadiene	NE	NE	< 360		< 370		< 360		<1500	
Hexachloroethane	NE	3,000	< 360		< 370		< 360		<1500	
Indeno(1,2,3-cd)pyrene	11,000	NE	**45**	**J**	**38**	**J**	**36**	**J**	<1500	

Footnotes on next page.

Table D8. Concentrations of SVOCs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT ug/kg			Sample Location: EWLT-E Sample Date: 1/9/2008		Sample Location: EWLT-C Sample Date: 1/9/2008		Sample Location: EWLT-W Sample Date: 1/9/2008		Sample Location: WLT-ST Sample Date: 2/7/2008	
	NYSDEC Part 375									
SVOCs	Industrial	RCRA								
Isophorone	NE	NE	< 360		< 370		< 360		<1500	
Naphthalene	1,000,000	NE	< 360		< 370		< 360		<1500	
Nitrobenzene	NE	2,000	< 360		< 370		< 360		<1500	
N-Nitrosodiphenylamine	NE	NE	< 360		< 370		< 360		<1500	
N-Nitrosodipropylamine	NE	NE	< 360		< 370		< 360		<1500	
Pentachlorophenol	55,000	100,000	< 1800		< 370		< 360		<1500	
Phenanthrene	1,000,000	NE	**53**	**J**	**85**	**J**	**59**	**J**	<1500	
Phenol	1,000,000	NE	< 360		< 370		< 360		<1500	
Pyrene	1,000,000	NE	**140**	**J**	**110**	**J**	**110**	**J**	<1500	

Notes and Abbreviations:

Bold value indicates a detection

Result exceeds NYSDEC Part 375 Industrial Soil Cleanup Standards

Result exceeds 40 CFR Part 261 Toxicity Characteristics Concentrations

NYSDEC New York State Department of Environmental Conservation

ug/kg milligrams per kilogram

NE Not Established

ARCADIS

Table D9. Concentrations of PCBs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (ug/kg)	Sample Location: / Sample Date: / Sample Depth (ft bls):		WLT-ST 12/18/2007	MFT 12/6/2007 0-2	WLT-1 12/14/2007 0-2	WLT-ST 12/18/2007	EWLT-E 1/9/2008	EWLT-C 1/9/2008	EWLT-W 1/9/2008	EWLTC (4TB) 1/16/2008
	NYSDEC Part 375									
Polychlorinated Biphenyls	Industrial	RCRA								
Aroclor-1016	25,000	50,000	< 37	< 37	< 370	< 37	< 360	< 37000	< 73	<84
Aroclor-1221	25,000	50,000	< 76	< 76	< 750	< 76	< 720	< 75000	< 150	<84
Aroclor-1232	25,000	50,000	< 37	< 37	< 370	< 37	< 360	< 37000	< 73	<84
Aroclor-1242	25,000	50,000	< 37	< 37	< 370	< 37	< 360	< 37000	< 73	**1100**
Aroclor-1248	25,000	50,000	**330**	**140**	**2500**	**330**	**3000**	**290000**	**420**	<84
Aroclor-1254	25,000	50,000	**260**	< 37	< 370	**260**	**780**	< 37000	**510**	<84
Aroclor-1260	25,000	50,000	< 37	< 37	< 370	< 37	< 360	< 37000	**210**	<84

Notes and Abbreviations:

Bold value indicates a detection

NYSDEC New York State D New York State Department of Environmental Conservation
ug/kg micrograms per kilogram
PCB Polychlorinated biphenyl

Table D9. Concentrations of PCBs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (ug/kg)	NYSDEC Part 375 Industrial	RCRA	Sample Location: EWLTC (4TM) Sample Date: 1/16/2008 Sample Depth (ft bls):	EWLTC (4TT) 1/16/2008	EWLTC (4P) 1/16/2008	EWLTC (3TB) 1/16/2008	EWLTC (3TM) 1/16/2008	EWLTC (3TT) 1/16/2008	EWLTC (3P) 1/16/2008	EWLTC (2TB) 1/16/2008
Polychlorinated Biphenyls										
Aroclor-1016	25,000	50,000	< 24	< 22	< 11000	< 21	< 26	< 21	< 22	< 22
Aroclor-1221	25,000	50,000	< 24	< 22	< 11000	< 21	< 26	< 21	< 22	< 22
Aroclor-1232	25,000	50,000	< 24	< 22	< 11000	< 21	< 26	< 21	< 22	< 22
Aroclor-1242	25,000	50,000	< 24	< 22	**160000**	**87**	< 26	< 21	< 22	**180**
Aroclor-1248	25,000	50,000	< 24	< 22	< 11000	< 21	< 26	< 21	< 22	< 22
Aroclor-1254	25,000	50,000	< 24	**100**	< 11000	< 21	< 26	< 21	**120**	**200**
Aroclor-1260	25,000	50,000	< 24	< 22	< 11000	< 21	< 26	< 21	< 22	< 22

Notes and Abbreviations:

Bold value indicates a detection

NYSDEC New York State D New York State Department of Environmental Conservation
ug/kg micrograms per kilogram
PCB Polychlorinated biphenyl

Table D9. Concentrations of PCBs in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT (ug/kg)	Sample Location: / Sample Date: / Sample Depth (ft bls):		EWLTC (2TM) 1/16/2008	EWLTC (2TT) 1/16/2008	EWLTC (2P) 1/16/2008	EWLTC (1TB) 1/16/2008	EWLTC (1TM) 1/16/2008	EWLTC (1TT) 1/16/2008	EWLTC (1P) 1/16/2008
	NYSDEC Part 375								
Polychlorinated Biphenyls	Industrial	RCRA							
Aroclor-1016	25,000	50,000	<78	< 21	< 24	< 22	< 24	< 22	< 570
Aroclor-1221	25,000	50,000	<78	< 21	< 24	< 22	< 24	< 22	< 570
Aroclor-1232	25,000	50,000	<78	< 21	< 24	< 22	< 24	< 22	< 570
Aroclor-1242	25,000	50,000	**700**	< 21	< 24	**170**	< 24	< 22	< 570
Aroclor-1248	25,000	50,000	<78	< 21	< 24	< 22	< 24	< 22	< 570
Aroclor-1254	25,000	50,000	<78	**110**	**76**	**190**	< 24	**220**	**2300**
Aroclor-1260	25,000	50,000	<78	< 21	< 24	< 22	< 24	< 22	< 570

Notes and Abbreviations:

Bold value indicates a detection

NYSDEC New York State D New York State Department of Environmental Conservation
ug/kg micrograms per kilogram
PCB Polychlorinated biphenyl

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Table D10. Concentrations of Metals in Soil from Soil Pile Samples, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

CONSTITUENT mg/kg	NYSDEC Part 375 Industrial	RCRA	Sample Location: WLT-ST Sample Date: 12/18/2007 Sample Depth (ft bls):	MFT 12/6/2007 0-2	WLT-1 12/14/2007 0-2	WLT-ST 12/18/2007	EWLT-E 1/9/2008	EWLT-C 1/9/2008	EWLT-W 1/9/2008
Metals									
Arsenic	16	5	**4.09**	**4.43**	**1.85**	**4.09**	**1.89**	**3.14**	**1.28**
Barium	10,000	100	**42.7**	16.10	**16.8**	**42.7**	**10.3**	**18.6**	**13.1**
Beryllium	2,700	NE	**< 0.568**	< 0.567	< 0.561	**< 0.568**	< 0.539	< 0.56	< 0.552
Cadmium	60	1	**1.87**	< 0.567	< 0.561	**1.87**	**2.06**	**0.86**	< 0.552
Chromium	6,800	5	**377**	**11.3**	**22**	**377**	**93.3**	**25.8**	**59.8**
Chromium (Hexavalent)	800	NE	**75**	< 4.54	**6.33**	**75**	**19.6**	**6.25**	**14.7**
Copper	10,000	NE	**15.6**	**11.1**	**7.1**	**15.6**	**28.4**	**10.6**	**6.28**
Cyanide	10,000	NE	< 1.14	< 1.13	< 1.12	< 1.14	< 1.08	< 1.12	< 1.10
Lead	3,900	5	**36.4**	**18.6**	**23.1**	**36.4**	**30.8**	**23.1**	**13.8**
Manganese	10,000	NE	**65.5**	**71.7**	**59.8**	**65.5**	**78.8**	**127**	**70.7**
Mercury	5.7	0.2	**0.0797**	**0.0457**	**0.0402**	**0.0797**	**0.0669**	< 0.105	**0.0556**
Nickel	10,000	NE	**6.8**	<4.54	**4.9**	**6.8**	< 4.31	**4.73**	< 4.42
Selenium	6,800	1	**1.5**	<1.13	< 1.12	**1.5**	< 1.08	< 1.12	< 1.10
Silver	6,800	5	< 1.14	**1.32**	< 1.12	< 1.14	**2.55**	< 1.12	< 1.10
Zinc	10,000	NE	**537**	**26.6**	**25.4**	**537**	**51.9**	**21.3**	**89.3**

Notes and Abbreviations:

Bold value indicates a detection

Result exceeds NYSDEC Part 375 Industrial Soil Cleanup Standards

Result exceeds 40 CFR Part 261 Toxicity Characteristics Concentrations

NYSDEC New York State Department of Environmental Conservation

mg/kg milligrams per kilogram

NE Not Established

Table D11. Transportation and Disposal Summary of VOC Containing Soils Profile NY296709
Operable Unit 3 Soil Gas IRM Former Grumman Settling Ponds, Bethpage New York.

Date	Manifest Tracking Number	Transport Tickets #	Pounds	Tons
4/1/2008	002551488 JJK	161055	71260	35.63
4/1/2008	002551489 JJK	161054	71240	35.62
4/4/2008	002551485 JJK	161097	71780	35.89
4/4/2008	002551487 JJK	161102	77240	38.62
			TOTAL TONS	**145.76**

Table D12. Common Backfill Summary Source - 110 Sand Company
Operable unit 3 - Soil Gas IRM,
Former Grumman Settling Ponds, Bethpage, New York.

Date	Tons
1/29/2008	41.10
3/5/2008	40.00
3/6/2008	40.99
3/6/2008	41.05
3/6/2008	39.42
3/6/2008	41.08
3/6/2008	40.95
3/10/2008	42.56
3/10/2008	41.29
3/10/2008	40.70
3/10/2008	39.47
3/10/2008	40.69
3/19/2008	39.70
3/19/2008	40.34
3/19/2008	39.48
3/19/2008	40.61
3/19/2008	40.29
3/19/2008	39.47
3/19/2008	38.78
3/19/2008	41.19
3/19/2008	38.56
3/24/2008	41.12
3/24/2008	38.91
3/24/2008	36.96
3/24/2008	41.55
3/24/2008	39.22
3/24/2008	40.66
Total Tons	**1,086.14**

Table D13. Recycled Concrete Aggregate Summary Source
Operable Unit 3, Former Grumman Settling Ponds,
Bethpage, New York.

Date	Ticket No.	Yards
4/1/2008	2643	140
4/2/2008	2644	35
4/2/2008	2646	35
4/2/2008	2647	35
4/3/2008	2648	35
	Total	**280**

CITY:MELVILLE DIV/GROUP:ENV DB:AS LD: PIC: PM:CSG TM:KZ LYR:ON=*OFF=*REF*
G:\APROJECTN\Northrop Grumman\Superfund\2008\OU3\NY001464.0908 Mtrg Rpts\OM&M Reports\June 2008_System Startup\Figures\Soil Quality_Trench.dwg
8/8/2008 11:12 AM BY: SANCHEZ, ADRIAN
LAYOUT: D1 SAVED: 8/7/2008 4:19 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_MELVILLE.CTB PLOTTED:
XREFS:
Basemap OU3_BCP-07 NAD83
ACCESS RD
PROJECTNAME: NY001464.1407.00007

B-45		
PCBs	0.2–2 FT	ND
CHROMIUM	2–4 FT	12.3
TSVOC	2–4 FT	0.13
TVOC	2–4 FT	ND

B-46		
PCBs	0.2–2 FT	0.66
CHROMIUM	0.2–2 FT	44.6
TSVOC	2–4 FT	1.4
TVOC	2–4 FT	8.41

B-47		
PCBs	0.2–2 FT	0.046
CHROMIUM	2–4 FT	38.6
TSVOC	NA	NA
TVOC	NA	NA

B-48		
PCBs	0.2–2 FT	ND
CHROMIUM	0.2–2 FT	12.5
TSVOC	NA	NA
TVOC	NA	NA

B-1		
PCBs	0–0.5 FT	0.14
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-2		
PCBs	0–0.5 FT	0.3
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-52		
PCBs	NA	NA
CHROMIUM	0–0.2 FT	87.4
CHROMIUM	2–4 FT	9.1
TSVOC	NA	NA
TVOC	NA	NA

B-9		
PCBs	0–0.5 FT	1.13
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-54		
PCBs	NA	NA
CHROMIUM	0–2 FT	116
TSVOC	NA	NA
TVOC	NA	NA

B-49		
PCBs	0.2–2 FT	29
CHROMIUM	0.2–2 FT	69.1
TSVOC	NA	NA
TVOC	NA	NA

B-50		
PCBs	NA	NA
CHROMIUM	0–0.2 FT	10.1
CHROMIUM	2–4 FT	5.9
TSVOC	NA	NA
TVOC	NA	NA

B-51		
PCBs	NA	NA
CHROMIUM	0–0.2 FT	36
CHROMIUM	2–4 FT	9.3
TSVOC	NA	NA
TVOC	NA	NA

B-53		
PCBs	NA	NA
CHROMIUM	0–0.2 FT	34.3
CHROMIUM	2–4 FT	19.8
TSVOC	NA	NA
TVOC	NA	NA

B-55		
PCBs	NA	NA
CHROMIUM	0–0.2 FT	29.7
CHROMIUM	2–4 FT	22.2
TSVOC	NA	NA
TVOC	NA	NA

B-10		
PCBs	0–0.5 FT	.067
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-02		
PCBs	NA	NA
CHROMIUM	0–4 FT	20.1
TSVOC	0–4 FT	5.16
TVOC	0–4 FT	0.0089

PC-01		
PCBs	0–4 FT	2
CHROMIUM	0–4 FT	12.9
TSVOC	0–4 FT	33.73
TVOC	0–4 FT	1.84

B-7		
PCBs	0–0.5 FT	0.15
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-3		
PCBs	0–4 FT	23
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-8		
PCBs	0–4 FT	1.2
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-03		
PCBs	0–4 FT	1,500
CHROMIUM	0–4 FT	22.1
TSVOC	0–4 FT	0.52
TVOC	0–4 FT	0.11

PC-3-7		
PCBs	0–4 FT	0.33
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-6		
PCBs	0–4 FT	19
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-5		
PCBs	0–4 FT	10
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-2		
PCBs	0–4 FT	200
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-1		
PCBs	0–4 FT	5.4
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-04		
PCBs	NA	NA
CHROMIUM	0–4 FT	27.3
TSVOC	0–4 FT	0.75
TVOC	0–4 FT	0.002

B-13		
PCBs	0–0.5 FT	2
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-06		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16W		
PCBs	0.5–1.5 FT	37
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-05		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-07		
PCBs	NA	NA
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E60		
PCBs	0.5–1.5 FT	43
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E40		
PCBs	1.5–2.5 FT	91.25
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E		
PCBs	0.5–1.5 FT	42
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

PC-3-4		
PCBs	0–4 FT	17
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E20S		
PCBs	0–0.5 FT	2.7
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16E20		
PCBs	0.5–1.5 FT	23
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16		
PCBs	0.5–1.5 FT	31
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16S		
PCBs	0.5–1.5 FT	ND
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E40S		
PCBs	0–0.5 FT	0.99
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-14E60S		
PCBs	0.5–1.5 FT	18
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

B-16W20		
PCBs	0.5–1.5 FT	20
CHROMIUM	NA	NA
TSVOC	NA	NA
TVOC	NA	NA

LIMIT OF EXCAVATION FOR OFF-SITE DISPOSAL 2 FT BLS

LIMIT OF EXCAVATION FOR OFF-SITE DISPOSAL 10 FT BLS

LIMIT OF EXCAVATION FOR OFF-SITE DISPOSAL 8 FT BLS

LIMIT OF EXCAVATION FOR OFF-SITE DISPOSAL 4 FT BLS

EXPLANATION:

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

NOTES:

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

PC-03		
PCBs	0–4 FT	1,500
CHROMIUM	0–4 FT	22.1
TSVOC	0–4 FT	0.52
TVOC	0–4 FT	0.11

BORING OR SAMPLE DESIGNATION

CONSTITUENT(s)

SAMPLE INTERVAL IN FT BLS

CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

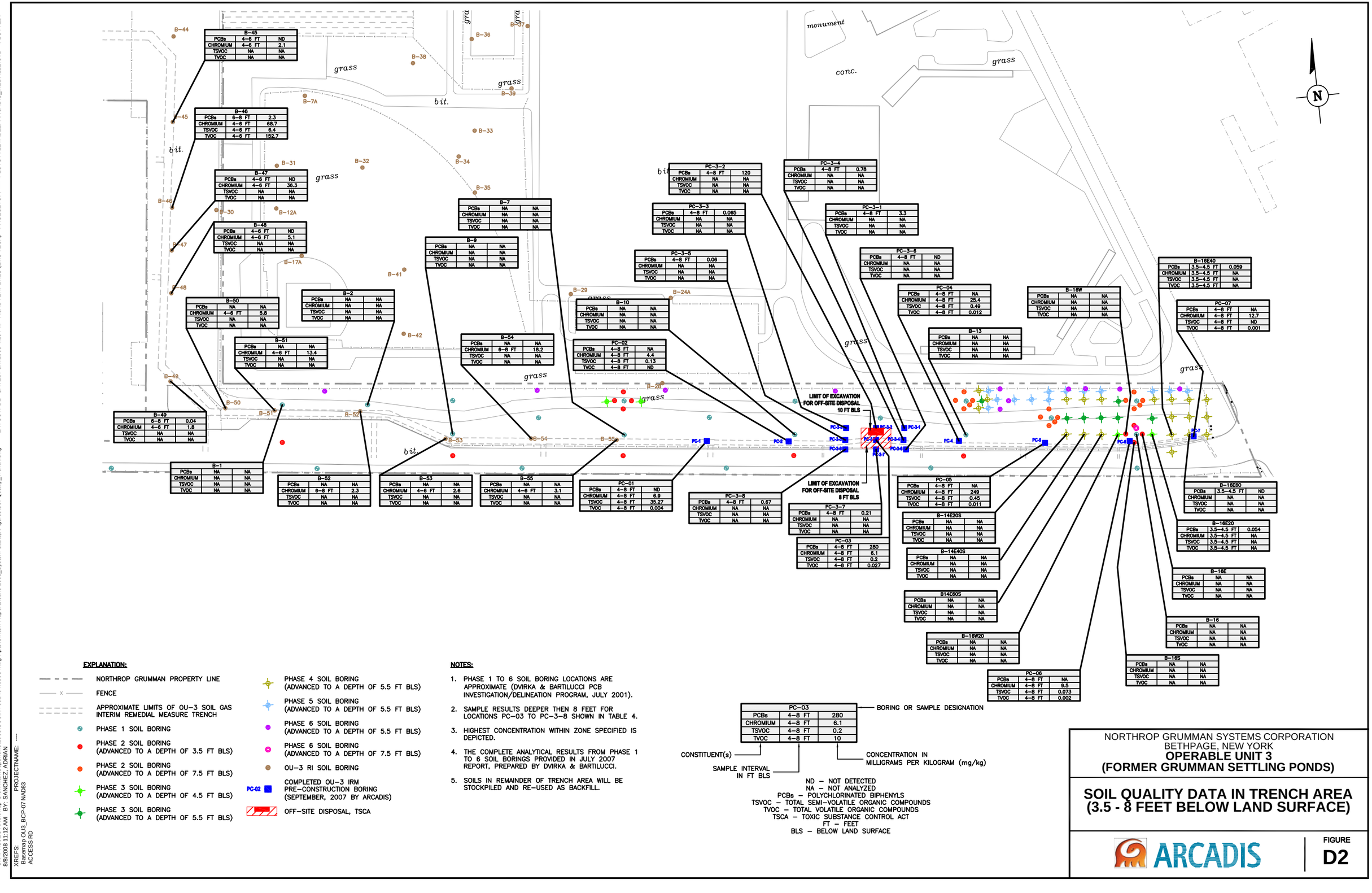
ND – NOT DETECTED
NA – NOT ANALYZED
PCBs – POLYCHLORINATED BIPHENYLS
TSVOC – TOTAL SEMI–VOLATILE ORGANIC COMPOUNDS
TVOC – TOTAL VOLATILE ORGANIC COMPOUNDS
TSCA – TOXIC SUBSTANCE CONTROL ACT
FT – FEET
BLS – BELOW LAND SURFACE

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

SOIL QUALITY DATA IN TRENCH AREA (0 - 4 FEET BELOW LAND SURFACE)

ARCADIS

FIGURE
D1



EXPLANATION:

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

NOTES:

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

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

BORING OR SAMPLE DESIGNATION

CONSTITUENT(s)

SAMPLE INTERVAL IN FT BLS

CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

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

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

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

ARCADIS

FIGURE
D2

CITY:(Req'd) DIV/GROUP:(Req'd) DB:(Req'd) LD:(Opt) PIC:(Opt) PM:(Req'd) TM:(Opt) LYR:(On)=*;OFF=*REF*
G:\APROJECT\Northrop Grumman\Superfund\2008\OU3\NY001464.0908 Mtrg Rpts\OM&M Reports\June 2008_System Startup\Figures\Soil Quality_Trench.dwg
8/8/2008 11:12 AM BY: SANCHEZ, ADRIAN LAYOUT: D2 SAVED: 8/7/2008 4:19 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_MELVILLE.CTB PLOTTED:
XREFS: PROJECTNAME: ----
Basemap OU3_BCP-07 NAD83
ACCESS RD

ARCADIS

Attachment D-1

Soil Gas IRM Construction
Waste Manifests

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

158469

Cubic Yards: ____

Receipt #: 8/621035
Trailer License Plate # and State: AN36425

SCALE 1 107780 LB G
09:00 AM 12/27/07 I1

Service Req. #: ____ Profile #: NY ____ Permit #: 4A-209

Transporter Name: Mangiardi Bros
Tractor/Trailer/Roll-off #: 48 / 30

Driver's Name: Tom Vieta
Generator: Northrop Grumman Corp

SCALE 2 37400 LB G
11:04 AM 12/27/07 I2

70380 P
31924 K

Scheduled Arrival: Date ____ Time 8:48

Actual Arrival: Date ____ Time In ____ Time Out ____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ✓ Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory	Time In	Time Out	Initials	Comments	
Stabilization	Time In	Time Out	Initials	Gross Wt.	Comments
Landfill	Time In	Time Out	Initials	Comments	
Other	Time In	Time Out	Initials	Comments	
Aqueous Treatment	Time In	Time Out	Signature (NO Initials)	Comments	

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas ____ Leaving truck unattended

____ Failure to obey instructions of facility personnel ____ Failure to display overweight flag

____ Failure to wear appropriate PPE ____ Improper tarping or detarpin

____ Unsafe driving practices ____ Overweight upon arrival

____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364561GBF

GENERATOR

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING
U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27254	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR# 8162035

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EVLIAN Signature: Bruce Evlian Month: 12 Day: 26 Year: 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tom Vivere Signature: Tom Vivere Month: 12 Day: 26 Year: 07

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 31924K Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: EILEEN CARTER Signature: Eileen Carter Month: 12 Day: 27 Year: 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158500

Cubic Yards

Receipt # 216-1067

Trailer License Plate # and State

Service Req. # | Profile # | Permit #

Transporter Name

Tractor/Trailer/Roll-off #

Driver's Name

Generator

SCALE 1 [illegible]
[illegible] 12/28/07 11
SCALE 2 37420 LB G
07:55 AM 12/28/07 12

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials | Comments

- [ ] Leaker
- [ ] Permit Violation
- [ ] Placarding/Veh. I.D. Violation
- [ ] Other (specify)
- [x] Bulk to Landfill
- [ ] No wet line
- [ ] Flatbed
- [ ] Stabilization
- [ ] Drums
- [ ] Tanker
- [ ] Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

- ____ Smoking or eating in prohibited areas
- ____ Failure to obey instructions of facility personnel
- ____ Failure to wear appropriate PPE
- ____ Unsafe driving practices
- ____ Other (specify)
- ____ Leaving truck unattended
- ____ Failure to display overweight flag
- ____ Improper tarping or detarpin
- ____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364562GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215K	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/27/07 Weight is Section 11 is Estimated. SR#
8162106? Recd 29348K

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: [signature] — Month/Day/Year: 12/27/07

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: RON FERNETT — Signature: Ron Fernett — Month/Day/Year: 12/27/07
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month/Day/Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month/Day/Year: 12/28/07

Side labels: GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158545

_____ Cubic Yards

816211C — Receipt #
AR27257 NY — Trailer License Plate # and State
_____ Service Req. #
NY27603 — Profile #
4H-207 — Permit #
[illegible] — Transporter Name
46 32 — Tractor/Trailer/Roll-off #
[illegible] — Driver's Name
Hoffman Enclaves — Generator

SCALE 1 107000 LB G
10:02 AM 12/28/07 12
SCALE 2 36360 LB G
11:12 AM 12/28/07 12
70640P
32042K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 955 Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: _____ Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364563GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST. 27.25K	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/27/07 Weight is Section 11 is Estimated. SR# 81621110

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULER — Signature: Agent for Northrop Grumman Bruce Euler — Month 12 Day 27 Year 07

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Hale — Signature: [signature] — Month 12 Day 27 Year 07
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 32042K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ellen Carter — Signature: Ellen Carter — Month 12 Day 28 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

158586

CWM Chemical Services, Inc.
Model City, NY

_____ Cubic Yards

8162153 — Receipt #
280283 - VT — Trailer License Plate # and State
SCALE 2 103380 LB G
07:36 AM 12/31/07 12

_____ Service Req. #
NY296605 — Profile #
1A-025 — Permit #

PRICE, RICKIE — Transporter Name
13600-2450 — Tractor/Trailer/Roll-off #
SCALE 2 35980 LB G
09:59 AM 12/31/07 12

KOKOL JOSH — Driver's Name
MORT-ROP-GRUMMAN — Generator

68020P
30854K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date ~~CSH~~ Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: 9 _____ Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

_____ Time In _____ Time Out _____ Initials _____ Comments

Stabilization

_____ Time In _____ Time Out _____ Initials _____ Gross Wt. _____ Comments

Landfill

_____ Time In _____ Time Out _____ Initials _____ Comments

Other

_____ Time In _____ Time Out _____ Initials _____ Comments

Aqueous Treatment

_____ Time In _____ Time Out _____ Signature (NO Initials) _____ Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364565GBF

GENERATOR

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 22457K	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/28/07 Weight is Section 11 is Estimated. SR#
81621153

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULISS — Signature: Agent for Northrop Grumman Bruce Euliss — Month 12 Day 28 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KOKOU TOSSAH — Signature — Month 12 Day 28 Year 07
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☑ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 30854K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 12 Day 31 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158549

Cubic Yards

8160115 — Receipt #
AC916628 NY — Trailer License Plate # and State
NY2 [illegible] — Service Req. #
Profile #
1A 209 — Permit #
MANGIARDI — Transporter Name
4/4/29 — Tractor/Trailer/Roll-off #
Gary Drury — Driver's Name
Wethrop Chairman Co — Generator

SCALE 2 103340 LB G
06:12 AM 12/31/07 12

SCALE 2 39020 LB G
07:45 AM 12/31/07 12

64920 P
29448 K

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 504 Time Out ____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments
		YD	

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (*please initial*)

____ Smoking or eating in prohibited areas
____ Leaving truck unattended
____ Failure to obey instructions of facility personnel
____ Failure to display overweight flag
____ Failure to wear appropriate PPE
____ Improper tarping or detarpin
____ Unsafe driving practices
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364566GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING
U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 33	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/28/07 Weight is Section 11 is Estimated. SR# 8162115

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EVELAN
Signature: Agent for Northrop Grumman Bruce Evelan
Month 12 Day 28 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GARRY DAVEY
Signature: Garry Davey
Month 12 Day 28 Year 07
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 29448K
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Month 12 Day 31 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158472

CWM Chemical Services, Inc.

Model City, NY

______ Cubic Yards

9162 1038 — Receipt #

2B0... — Trailer License Plate # and State

SCALE 1 105740 LB G
09:20 AM 12/27/07 10

Service Req. # ______ Profile # NY296615 Permit # 9A7025

Transporter Name: PRICE TRUCKING

Tractor/Trailer/Roll-off #: 13600 - 2450

SCALE 2 35400 LB G
11:15 AM 12/27/07 12
70340 P
31906 K

Driver's Name: KOKOU TOSSAH

Generator: NORTHROP GRUMMAN

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 908 Time In ______ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ✓ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ______ Time In ______ Time Out ______ Initials ______ Comments

Stabilization ______ Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments

Landfill ______ Time In ______ Time Out ______ Initials ______ Comments

Other ______ Time In ______ Time Out ______ Initials ______ Comments

Aqueous Treatment ______ Time In ______ Time Out ______ Signature (NO Initials) ______ Comments

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas

______ Failure to obey instructions of facility personnel

______ Failure to wear appropriate PPE

______ Unsafe driving practices

______ Other (specify) ______

______ Leaving truck unattended

______ Failure to display overweight flag

______ Improper tarping or detarpin

______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364554GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: PRICE TRUCKING INC — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 29000	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR#
81621038

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BRYCE EULAN CO AGENT FOR NORTHROP GRUMMAN
Signature: Agent for Northrop Grumman
Month/Day/Year: 12/26/07

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KOKOU TOSSAH — Signature: — Month/Day/Year: 12/26/07
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 31906 K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month/Day/Year: 12/27/07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158485

50 Cubic Yards

8162051 — Receipt #

25783-NY — Trailer License Plate # and State

SCALE 1 10470 LB G
10:12 AM 12/27/07 11

Service Req. # | Profile # | Permit #

Transporter Name | Tractor/Trailer/Roll-off #

Driver's Name | Generator

SCALE 2 34480 LB G
11:53 AM 12/27/07 12

6906 LP
3572 PK

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: V — Initials | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

____	Smoking or eating in prohibited areas	____	Leaving truck unattended
____	Failure to obey instructions of facility personnel	____	Failure to display overweight flag
____	Failure to wear appropriate PPE	____	Improper tarping or detarpin
____	Unsafe driving practices	____	Overweight upon arrival
____	Other (specify) ____		

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N Y R 0 0 0 0 5 8 3 4 7
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364555GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575- 4680

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754- 8231
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 19950	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR#____________
8162051

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for NORTHROP GRUMMAN Bruce Eulian — Month/Day/Year: 12 26 07

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ________
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Vasily Zinkiv — Signature: Vasily Zinkiv — Month/Day/Year: 12 26 07
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 31598K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month/Day/Year: 12 27 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158488

CWM Chemical Services, Inc.
Model City, NY

10 Cubic Yards

81621054
Receipt #

Trailer License Plate # and State

SCALE 1 10570 LB G
10:04 AM 12/27/07 11

Service Req. # | Profile # | Permit #

Transporter Name | Tractor/Trailer/Roll-off #

Driver's Name | Generator

SCALE 2 34840 LB G
12:13 PM 12/27/07 12

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

____	Smoking or eating in prohibited areas	____	Leaving truck unattended
____	Failure to obey instructions of facility personnel	____	Failure to display overweight flag
____	Failure to wear appropriate PPE	____	Improper tarping or detarpin
____	Unsafe driving practices	____	Overweight upon arrival
____	Other (specify)		

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364556GBF

GENERATOR

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 19950K	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR# 8621054

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULISS — Signature: Agent for Northrop Grumman — Month 12 Day 26 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: PAVEL ZINKIV — Signature — Month 12 Day 26 Year 07
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 31942K — Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ALLEN CARTER — Signature: Ellen Carter — Month 12 Day 27 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158480

CWM Chemical Services, Inc.

Model City, NY

50
Cubic Yards

8162046	280133 NY
Receipt #	*Trailer License Plate # and State*

SCALE 1 109060 LB G
10:50 AM 12/27/07 13

	NY2160???	
Service Req. #	*Profile #*	*Permit #*
PRICE		12800-2500
Transporter Name		*Tractor/Trailer/Roll-off #*
IVAN Z		Nothrop Grumman
Driver's Name		*Generator*

SCALE 2 34240 LB G
11:38 AM 12/27/07 12
74820 P
33938 K

Scheduled Arrival: ______ ______
Date *Time*

Actual Arrival: ______ 932 ______
Date *Time In* *Time Out*

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: V ______
Initials *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory	*Time In*	*Time Out*	*Initials*	*Comments*	
Stabilization	*Time In*	*Time Out*	*Initials*	*Gross Wt.*	*Comments*
Landfill	*Time In*	*Time Out*	*Initials*	*Comments*	
Other	*Time In*	*Time Out*	*Initials*	*Comments*	
Aqueous Treatment	*Time In*	*Time Out*	*Signature (NO Initials)*	*Comments*	

Facility Personnel (*please initial*)

______ **Smoking or eating in prohibited areas** ______ **Leaving truck unattended**

______ **Failure to obey instructions of facility personnel** ______ **Failure to display overweight flag**

______ **Failure to wear appropriate PPE** ______ **Improper tarping or detarpin**

______ **Unsafe driving practices** ______ **Overweight upon arrival**

______ **Other (specify)** ______

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364557GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR# Bond 33938K
8621046

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman Bruce Eulian — Month 12 Day 26 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: IVAN ZWKIV — Signature: — Month 12 Day 26 Year 07

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ELLEN CARTER — Signature: Ellen Carter — Month 12 Day 27 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

WASTE MANAGEMENT

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158477

______ *Cubic Yards*

81621043 — *Receipt #*

AC76628 NY — *Trailer License Plate # and State*

SCALE 1 30900 LB G
09:40 AM 12/27/07 0

Service Req. # ______ *Profile #* ______ *Permit #* 4A 209

SCALE 2 38380 LB G
11:31 AM 12/27/07 12

Transporter Name ______ *Tractor/Trailer/Roll-off #* 49129

Driver's Name ______ *Generator* ______

52520 P
23323 K

Scheduled Arrival: ______ *Date* ______ *Time*

Actual Arrival: ______ *Date* 925 *Time In* ______ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ✓ *Initials* ______ *Comments*

☐ **Leaker** ☐ **Permit Violation** ☐ **Placarding/Veh. I.D. Violation**

☐ **Other (specify** ______

☒ **Bulk to Landfill** ☐ **No wet line** ☐ **Flatbed** ☐ **Stabilization** ☐ **Drums** ☐ **Tanker** ☐ **Transformers**

Laboratory ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Stabilization ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Gross Wt.* ______ *Comments*

Landfill ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Other ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Aqueous Treatment ______ *Time In* ______ *Time Out* ______ *Signature (NO Initials)* ______ *Comments*

Facility Personnel (*please initial*)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______

______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
______ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364558GBF

GENERATOR

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING
U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215K	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR# 81621043

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EDLAN
Signature: Bruce Edlan
Month: 12 Day: 26 Year: 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GARRY DAURY
Signature: Garry Daury
Month: 12 Day: 26 Year: 07
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 23823K
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Month: 12 Day: 27 Year: 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158478

CWM Chemical Services, Inc.

Model City, NY

_______________ *Cubic Yards*

81621044 — Receipt #

AC21075 NY — Trailer License Plate # and State

SCALE 1 ... LB G
09:43 AM 12/27/07

Service Req. # ______ Profile # M296605 Permit # 44-209

MAGGIARDI BROS — Transporter Name

50-31 — Tractor/Trailer/Roll-off #

SCALE 2 37780 LB G

Joe Bell — Driver's Name

NORTHROP GRUMMAN CORP — Generator

11:34 AM 12/27/07 12

61320 P
30770 K

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 9:27 Time In ______ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ✓ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ______ Time In ______ Time Out ______ Initials ______ Comments

Stabilization ______ Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments

Landfill ______ Time In ______ Time Out ______ Initials ______ Comments

Other ______ Time In ______ Time Out ______ Initials ______ Comments

Aqueous Treatment ______ Time In ______ Time Out ______ Signature (NO Initials) ______ Comments

Facility Personnel (*please initial*)

______ Smoking or eating in prohibited areas

______ Failure to obey instructions of facility personnel

______ Failure to wear appropriate PPE

______ Unsafe driving practices

______ Other (specify) ______

______ Leaving truck unattended

______ Failure to display overweight flag

______ Improper tarping or detarpin

______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364559GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000099972

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27251K	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight is Section 11 is Estimated. SR# 816210444

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE ELLIN — Signature: Bruce Ellin — Month 12 Day 26 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joe Bell — Signature: Joe Bell — Month 12 Day 26 Year 07

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty est actual rec 30990K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 12 Day 27 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

WASTE MANAGEMENT

Transporter Log 158598

CWM Chemical Services, Inc.

Model City, NY

5

Cubic Yards

81621163 — Receipt #

Trailer License Plate # and State

SCALE 1 103440 LB G
10:07 AM 12/31/07 12

NY3?0600? — Service Req. # / Profile # / Permit #

Transporter Name — Tractor/Trailer/Roll-off #

Driver's Name — Generator

SCALE 2 34160 LB G
11:32 AM 12/31/07 12

69280 P

31425 K

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 951 Time In ______ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ______ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: Time In ______ Time Out ______ Initials ______ Comments ______

Stabilization: Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments ______

Landfill: Time In ______ Time Out ______ Initials ______ Comments ______

Other: Time In ______ Time Out ______ Initials ______ Comments ______

Aqueous Treatment: Time In ______ Time Out ______ Signature (NO Initials) ______ Comments ______

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas

______ Leaving truck unattended

______ Failure to obey instructions of facility personnel

______ Failure to display overweight flag

______ Failure to wear appropriate PPE

______ Improper tarping or detarpin

______ Unsafe driving practices

______ Overweight upon arrival

______ Other (specify) ______

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000058347	1	800-424-9300	000364567GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/28/07 Weight is Section 11 is Estimated. SR# 816021163

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EWAN — Signature: Bruce Ewan — Month 12 Day 28 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Vasily Zinkiv — Signature: Vasily Zinkiv — Month 12 Day 28 Year 07
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTON — Signature: Eileen Carton — Month 12 Day 31 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158479

_____ Cubic Yards

816 21045 — Receipt #
HC 96590 NY — Trailer License Plate # and State
_____ Service Req. #
_____ Profile #
_____ Permit #
_____ Transporter Name
36/30A — Tractor/Trailer/Roll-off #
_____ Driver's Name
Northland Grain — Generator

SCALE 1 37480 LB G
08:46 AM 12/27/07 1J

SCALE 2 37660 LB G
11:52 AM 12/27/07 12
59740P
22078K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 9:32 Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: / Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364560GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: MANGIARDI TRUCKING
U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 272BK	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/26/07 Weight in Section 11 is Estimated. SR#
81621045
Recd 27098K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN ERROL EUIM Signature: Agent for Northrop Grumman [signature] Month/Day/Year: 12/26/07

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Durham Signature: [signature] Month/Day/Year: 12/26/07
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Eileen Carter Signature: Eileen Carter Month/Day/Year: 12/27/07

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log 158597

CWM Chemical Services, Inc.
Model City, NY

50
Cubic Yards

816211602 — *Receipt #*
280123 NY — *Trailer License Plate # and State*

SCALE 1 104460 LB G
10:03 AM 12/31/07 12

Service Req. # ____ *Profile #* NY210665 *Permit #* ____

Transporter Name PRIME *Tractor/Trailer/Roll-off #* 12800 2500

SCALE 2 34040 LB G
11:13 AM 12/31/07 12

Driver's Name NAN Z *Generator* Grumman

70420 P
35.21 K

Scheduled Arrival: ____ *Date* ____ *Time*

Actual Arrival: ____ *Date* 956 *Time In* ____ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ____ *Initials* ____ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Comments*

Stabilization ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Gross Wt.* ____ *Comments*

Landfill ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Comments*

Other ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Comments*

Aqueous Treatment ____ *Time In* ____ *Time Out* ____ *Signature (NO Initials)* ____ *Comments*

Facility Personnel (*please initial*)

____ **Smoking or eating in prohibited areas**   ____ **Leaving truck unattended**

____ **Failure to obey instructions of facility personnel**   ____ **Failure to display overweight flag**

____ **Failure to wear appropriate PPE**   ____ **Improper tarping or detarpin**

____ **Unsafe driving practices**   ____ **Overweight upon arrival**

____ **Other (specify)** ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	N Y R 0 0 0 0 5 8 3 4 7	1	800-424-9300	000364568 GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 22.5	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/28/07 Weight is Section 11 is Estimated. SR#_____
8162162

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman Bruce Eulian — Month 12 Day 28 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: IVAN ZINKIN — Signature — Month 12 Day 28 Year 07
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty per actual rec'd 31942K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 12 Day 31 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

158603

50
Cubic Yards

81621169 — *Receipt #*

Trailer License Plate # and State

SCALE 1 107720 LB G
10:48 AM 12/31/07 I2

Service Req. # — *Profile #* NY37660 — *Permit #*

Transporter Name — *Tractor/Trailer/Roll-off #*

SCALE 2 34620 LB G
12:07 PM 12/31/07 I2

Driver's Name — *Generator*

73100P
33158K

Scheduled Arrival: ______ *Date* ______ *Time*

Actual Arrival: ______ *Date* 1041 *Time In* ______ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ *Initials* ______ *Comments*

☐ **Leaker** ☐ **Permit Violation** ☐ **Placarding/Veh. I.D. Violation**

☐ **Other (specify** ______

☑ **Bulk to Landfill** ☐ **No wet line** ☐ **Flatbed** ☐ **Stabilization** ☐ **Drums** ☐ **Tanker** ☐ **Transformers**

Laboratory ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Stabilization ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Gross Wt.* ______ *Comments*

Landfill ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Other ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Aqueous Treatment ______ *Time In* ______ *Time Out* ______ *Signature (NO Initials)* ______ *Comments*

Facility Personnel (*please initial*)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______

______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
______ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364569GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27.15	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/28/07 Weight is Section 11 is Estimated. SR# 81621169

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman — Month 12 Day 28 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PAVEL ZINKIV — Signature: P Zinkiv — Month 12 Day 28 Year 07

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 33158K Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ELLEN CARTER — Signature: Ellen Carter — Month 12 Day 31 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158584

CWM Chemical Services, Inc.

Model City, NY

______ Cubic Yards

Receipt #: 8160211151

Trailer License Plate # and State: AN-36425 N.Y.

Service Req. #:

Profile #: NY276605

Permit #: VA-209

Transporter Name: Mangiardi Bros.

Tractor/Trailer/Roll-off #: 45/30

Driver's Name: Tom Vieira

Generator: Northrop Grumman Corp.

SCALE 2 107180 LB G
07:32 AM 12/31/07 12

SCALE 2 37360 LB G
09:23 AM 12/31/07 12

69820 P

31670 K

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 839 Time In ______ Time Out

Arrived during Blackout? Y / N

Notified DEC? Y / N

Receiving: Initials ______ Comments ______

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: Time In ______ Time Out ______ Initials ______ Comments ______

Stabilization: Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments ______

Landfill: Time In ______ Time Out ______ Initials ______ Comments ______

Other: Time In ______ Time Out ______ Initials ______ Comments ______

Aqueous Treatment: Time In ______ Time Out ______ Signature (NO Initials) ______ Comments ______

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas

______ Leaving truck unattended

______ Failure to obey instructions of facility personnel

______ Failure to display overweight flag

______ Failure to wear appropriate PPE

______ Improper tarping or detarpin

______ Unsafe driving practices

______ Overweight upon arrival

______ Other (specify) ______

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR0000058347	1	800-424-9300	000364570GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 12/28/07 Weight is Section 11 is Estimated. SR# 8162151 Recd 31670K

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ABOUT FOR NORTHROP Grumman BRUCE EULIAN — Signature: Bruce Eulian — Month 12 Day 28 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tom Vieth — Signature: Tom Vieth — Month 12 Day 28 Year 07

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 31670K Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Ellen Carter — Signature: Ellen Carter — Month 12 Day 31 Year 07

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158717

CWM Chemical Services, Inc.

Model City, NY

Cubic Yards: ____

Receipt #: 81621236	Trailer License Plate # and State: AC96628 NY
Service Req. #: 355064-1NY226605	Profile #:
Permit #: 4A-209	
Transporter Name: MANGIARDI	Tractor/Trailer/Roll-off #: 49/29
Driver's Name: GARRY DAURY	Generator: NORTHRUP GRUMMAN CORP.

SCALE 2 113300 LB G
06:10 AM 01/04/08 12

SCALE 2 38560 LB G
07:53 AM 01/04/08 12

74740P
33902K

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 502 Time Out ____

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: Initials: [illegible] Comments: ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Comments
Laboratory			[illegible]	
Landfill				
Other				

	Time In	Time Out	Initials	Gross Wt	Comments
Stabilization					

	Time In	Time Out	Signature (NO Initials)	Comments
Aqueous Treatment				

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas

____ Failure to obey instructions of facility personnel

____ Failure to wear appropriate PPE

____ Unsafe driving practices

____ Other (specify) ____

____ Leaving truck unattended

____ Failure to display overweight flag

✓ Improper tarping or detarpin

____ Overweight upon arrival

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N Y R 0 0 0 0 5 8 3 4 7
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364571 GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING
U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 01/03/08 Weight is Section 11 is Estimated. SR# 3550624-1
8162186

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMAN BRUCE EDMAN
Signature: Agent for Northrop Grumman
Month 01 Day 03 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GACEY DANEY
Signature: Gacey Daney
Month 01 Day 03 Year 08
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 33902K
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Month 1 Day 24 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

158756

Cubic Yards

81621325 — Receipt #
AR27257 NY — Trailer License Plate # and State
K55064 — Service Req. #
NY276605 — Profile #
4A 209 — Permit #
Mangiardi Trucking — Transporter Name
46-32 — Tractor/Trailer/Roll-off #
Chris Hale — Driver's Name
Northrop Grumman — Generator

SCALE 1 105340 LB G
09:54 AM 01/04/08 I2

SCALE 2 36100 LB G
11:14 AM 01/04/08 I2

69240P
31407K

Scheduled Arrival: ____ (Date) ____ (Time)

Actual Arrival: ____ (Date) G29 (Time In) ____ (Time Out)

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ____ (Initials) ____ (Comments)

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (*please initial*)

____ Smoking or eating in prohibited areas
____ Leaving truck unattended
____ Failure to obey instructions of facility personnel
____ Failure to display overweight flag
____ Failure to wear appropriate PPE
____ Improper tarping or detarpin
____ Unsafe driving practices
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364572GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST. 27.25	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 01/03/08 Weight is Section 11 is Estimated. SR# 955064
81621325

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN — Signature: BRUCE EULISS Agent for Northrop Grumman — Month 01 Day 03 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Hale — Signature: Chris Hale — Month 01 Day 03 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 31407 K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: ELDON CARTER — Signature: Eldon Carter — Month 1 Day 4 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158715
CWM Chemical Services, Inc.
Model City, NY

_______ *Cubic Yards*

81621284 — *Receipt #*
AH 7662 MI — *Trailer License Plate # and State*

Service Req. # — *Profile #* — *Permit #*

Transporter Name — *Tractor/Trailer/Roll-off #*

Driver's Name — *Generator*

SCALE 2 100520 LB G
06:06 AM 01/04/08 12
SCALE 2 37920 LB G
07:48 AM 01/04/08 12

62600 P
31395 K

Scheduled Arrival: _______ *Date* _______ *Time*

Actual Arrival: _______ *Date* 500 *Time In* _______ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: _______ *Initials* _______ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _______

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory _______ *Time In* _______ *Time Out* _______ *Initials* _______ *Comments*

Stabilization _______ *Time In* _______ *Time Out* _______ *Initials* _______ *Gross Wt.* _______ *Comments*

Landfill _______ *Time In* _______ *Time Out* _______ *Initials* _______ *Comments*

Other _______ *Time In* _______ *Time Out* _______ *Initials* _______ *Comments*

Aqueous Treatment _______ *Time In* _______ *Time Out* _______ *Signature (NO Initials)* _______ *Comments*

Facility Personnel (*please initial*)

_______ **Smoking or eating in prohibited areas**
_______ **Leaving truck unattended**
_______ **Failure to obey instructions of facility personnel**
_______ **Failure to display overweight flag**
_______ **Failure to wear appropriate PPE**
_______ **Improper tarping or detarpin**
_______ **Unsafe driving practices**
_______ **Overweight upon arrival**
_______ **Other (specify)** _______

Security Guard Initials: _______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364573GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST: 2725	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605. PCB Soil ERG # 171
PCB Out of Service Date 01/03/08 Weight is Section 11 is Estimated. SR# 855064
816 2184 Rcvd 28395K

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN — Signature: BRUCE EULISS — Month 01 Day 03 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ron Fennett — Signature — Month 01 Day 03 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ELLEN CARTER — Signature: Ellen Carter — Month 1 Day 4 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

158716

CWM Chemical Services, Inc.
Model City, NY

_____ Cubic Yards

81a2125 — Receipt #
AN36425 NY — Trailer License Plate # and State
855061 — Service Req. #
Profile #
YA-209 — Permit #
Tom Vitta — Transporter Name
48/30 — Tractor/Trailer/Roll-off #
Tom Vitta — Driver's Name
Nortrop Grumman — Generator

SCALE 1 106700 LB G
06:05 AM 01/04/08 T2

SCALE 2 37340 LB G
07:50 AM 01/04/08 T2
69360P
31461K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 501 Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: S _____ Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000058347	1	800-424-9300	000364574GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 2725	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 01/03/08 Weight is Section 11 is Estimated. SR# 855064
8162285

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman — Month 01 Day 03 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tom Vieta	Tom Vieta	1	3	08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 31461K Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
ELLEN CARTER	Ellen Carter	1	4	08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log 158808

CWM Chemical Services, Inc.
Model City, NY

_____ *Cubic Yards*

SCALE 1 105700 LB G
07:15 AM 01/07/08 T2

SCALE 2 37320 LB G
10:47 AM 01/07/08 T2
68380 T
31017 K

8162133 0 *Receipt #*

Trailer License Plate # and State

Service Req. # NY29660 *Profile #* 43133 *Permit #*

MAN *Transporter Name* *Tractor/Trailer/Roll-off #*

JOE *Driver's Name* *Generator*

Scheduled Arrival: 1-7-08 *Date* 1030 *Time*

Actual Arrival: _____ *Date* 5 46 *Time In* _____ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: _____ *Initials* _____ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory	*Time In*	*Time Out*	*Initials*	*Comments*	
Stabilization	*Time In*	*Time Out*	*Initials*	*Gross Wt.*	*Comments*
Landfill	*Time In*	*Time Out*	*Initials*	*Comments*	
Other	*Time In*	*Time Out*	*Initials*	*Comments*	
Aqueous Treatment	*Time In*	*Time Out*	*Signature (NO Initials)*	*Comments*	

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas   _____ Leaving truck unattended

_____ Failure to obey instructions of facility personnel   _____ Failure to display overweight flag

_____ Failure to wear appropriate PPE   _____ Improper tarping or detarpin

_____ Unsafe driving practices   _____ Overweight upon arrival

_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364577GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: MANGIARDI TRUCKING
U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 01/04/08 Weight is Section 11 is Estimated. SR#
8162380

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN — ERIC EULAU — Signature: Agent for Northrop Grumman Eulau — Month: 01 — Day: 04 — Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X JOSEPH MUSH — Signature: — Month: 01 — Day: 04 — Year: 08
Transporter 2 Printed/Typed Name: — Signature: — Month: — Day: — Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 31017K
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTON — Signature: Eileen Carton — Month: 1 — Day: 7 — Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

158810

_______ Cubic Yards

9160213381 — Receipt #
AC 96590 NJ — Trailer License Plate # and State

SCALE 1 103140 LB G
07:19 AM 01/07/08 12

Service Req. # — Profile # NY3900S — Permit #

Transporter Name — Tractor/Trailer/Roll-off # 32123

Driver's Name — Generator Northrop Grumman

SCALE 2 37700 LB G
10:55 AM 01/07/08 12
65440P
29683K

Scheduled Arrival: 1-7-08 (Date) 1030 (Time)

Actual Arrival: ______ Date 6:09 Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory					
Stabilization					
Landfill					
Other					
Aqueous Treatment			Signature (NO Initials)		

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas
______ Failure to obey instructions of facility personnel
______ Failure to wear appropriate PPE
______ Unsafe driving practices
______ Other (specify) ______
______ Leaving truck unattended
______ Failure to display overweight flag
______ Improper tarping or detarpin
______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N Y R 0 0 0 0 5 8 3 4 7
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364578GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: MANGIARDI TRUCKING — U.S. EPA ID Number: NYR000097972

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 01/07/08 Weight is Section 11 is Estimated. SR#
8162138 Rec'd 29683K

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIN — Signature: [signature] — Month/Day/Year: 01/04/08

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rich Durham — Signature: [signature] — Month/Day/Year: 1/4/08
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: [signature] — Month/Day/Year: 1/7/08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160909

Cubic Yards: ____

SCALE 1 108200 LB G
11:39 AM 03/20/08 12

SCALE 2 30640 LB G
01:48 PM 03/20/08 12

77560 P
35151 K

Receipt #: 9023524
Trailer License Plate # and State: [illegible]
Service Req. #: ____
Profile #: ____
Permit #: GA 025
Transporter Name: PRICE TRUCKING CORP.
Tractor/Trailer/Roll-off #: 11800 /2250
Driver's Name: DENNIS SIMPSON
Generator: NORTHROP GRUMMAN CORP.

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 1131 Time Out ____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials AL Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory			M		
Stabilization					
Landfill					
Other					

	Time In	Time Out	Signature (NO Initials)	Comments
Aqueous Treatment				

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas
____ Failure to obey instructions of facility personnel
____ Failure to wear appropriate PPE
____ Unsafe driving practices
____ Other (specify) ____

____ Leaving truck unattended
____ Failure to display overweight flag
____ Improper tarping or detarpin
____ Overweight upon arrival

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000058347	1	800-424-9300	000364579GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICES TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/19/08 Weight is Section 11 is Estimated. SR# 81623524

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMAN BRUCE EULISS — Signature: Agent for Northrop Grumman — Month 03 Day 19 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DENNIS SIMPSON — Signature — Month 03 Day 19 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Qty. est., actual recd. 35181 K

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Angela Cadwalader — Signature: Angela Cadwalader — Month 03 Day 20 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160904

50
Cubic Yards

Field	Entry
Receipt #	8162350
Trailer License Plate # and State	[illegible] 2992 B3-NY
Service Req. #	—
Profile #	NY2 [illegible]
Permit #	1352-245
Transporter Name	A Co. Trucking Corp.
Tractor/Trailer/Roll-off #	
Driver's Name	V. Zicky
Generator	Northrop Grumman

SCALE 1 115460 LB G
10:10 AM 03/20/08 12

SCALE 2 35000 LB G
11:51 AM 03/20/08 12

80460 P
36456 K

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 959 Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: [handwritten initials] Initials ______ Comments

☐ **Leaker** ☐ **Permit Violation** ☐ **Placarding/Veh. I.D. Violation**

☐ **Other (specify** ______

☑ **Bulk to Landfill** ☐ **No wet line** ☐ **Flatbed** ☐ **Stabilization** ☐ **Drums** ☐ **Tanker** ☐ **Transformers**

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory			[handwritten initials]		
Stabilization					
Landfill					
Other					

	Time In	Time Out	Signature (NO Initials)	Comments
Aqueous Treatment				

Facility Personnel (*please initial*)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______

______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
✓ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

TRL# 2450

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364580GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST. 2725	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/19/08 Weight is Section 11 is Estimated. SR# 81623520

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE ELLIAN — Signature: Agent for Northrop Grumman Bruce Ellian — Month 03 Day 19 Year 08

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KOKOU TOSSAH — Signature — Month 03 Day 19 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty. Est., Actual Rec'd. 36490 LK
18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Angela Cadwalader — Signature: Angela Cadwalader — Month 03 Day 20 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160890

50
Cubic Yards

81622506 — Receipt #
29033-NY — Trailer License Plate # and State

SCALE 1 103800 LB G
06:14 AM 03/20/08 12

Service Req. # — Profile # NY2... — Permit #

SCALE 2 34860 LB G
08:04 AM 03/20/08 12

Transporter Name — Tractor/Trailer/Roll-off # 1350...
V. Zinky — Driver's Name
Generator

68940 P
31271 K

Scheduled Arrival: ____ Date ____ Time

Actual Arrival: ____ Date 537 Time In ____ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ____ Initials ____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory					
Stabilization					
Landfill					
Other					

Aqueous Treatment: ____ Time In ____ Time Out ____ Signature (NO Initials) ____ Comments

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas
____ Leaving truck unattended
____ Failure to obey instructions of facility personnel
____ Failure to display overweight flag
____ Failure to wear appropriate PPE
____ Improper tarping or detarpin
____ Unsafe driving practices
____ Overweight upon arrival
____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

*Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364581GBF

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/19/08 Weight is Section 11 is Estimated. SR#
81623506

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULISS — Signature: Agent for Northrop Grumman — Month 03 Day 19 Year 08

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Vasily Zinkiv — Signature — Month 03 Day 19 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty est actual rec'd 31271K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 20 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160901

Cubic Yards: ______

Field	Value
Receipt #	81623517
Trailer License Plate # and State	2801B3
Service Req. #	
Profile #	NY296605
Permit #	9A-025
Transporter Name	Price Trucking
Tractor/Trailer/Roll-off #	12800/3500
Driver's Name	George Acnetta
Generator	Northrop

SCALE 1 33280 LB G
09:49 AM 03/20/08 12

SCALE 2 34080 LB G
10:53 AM 03/20/08 12

59200 P
26853 K

Scheduled Arrival: Date ______ Time ______

Actual Arrival: Date ______ Time In 942 Time Out ______

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: Initials ______ Comments ______

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory			IP		
Stabilization					
Landfill					
Other					

Aqueous Treatment: Time In ______ Time Out ______ Signature (NO Initials) ______ Comments ______

Facility Personnel (please initial)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______

______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
______ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364582GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/19/08 Weight is Section 11 is Estimated. SR#
81623517 Rud 26853K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EUVINO — Signature: Bruce Euvino — Month 03 Day 19 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GEORGE HAMLIN — Signature: — Month 03 Day 19 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 20 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

160959 _____ Cubic Yards

81623577
Receipt #

_____ Trailer License Plate # and State

SCALE 1 106780 LB G
10:36 AM 03/25/08 12

_____ Service Req. #
NY296605 Profile #
7A-025 Permit #

PRICE TRUCKING Transporter Name
13600-2300 Tractor/Trailer/Roll-off #

KOKOU TOSSAH Driver's Name
NORTHROP-GRUMMAN Generator

SCALE 2 36300 LB G
11:19 AM 03/25/08 12

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 1031 Time In _____ Time Out

7048 P
31970 K

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: _____ Initials _____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
_____ Time In _____ Time Out _____ Initials _____ Comments

Stabilization
_____ Time In _____ Time Out _____ Initials _____ Gross Wt. _____ Comments

Landfill
_____ Time In _____ Time Out _____ Initials _____ Comments

Other
_____ Time In _____ Time Out _____ Initials _____ Comments

Aqueous Treatment
_____ Time In _____ Time Out _____ Signature (NO Initials) _____ Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364583GBF

GENERATOR

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/20/08 Weight is Section 11 is Estimated. SR#
8162357

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ACCOUNT FOR NORTHROP GRUMMAN — Signature: BRUCE EUCHNER Agent for Northrop Grumman — Month: 03 Day: 20 Year: 08

TRANSPORTER INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: KOKOU TOSSAH — Signature — Month: 03 Day: 20 Year: 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 31970K

18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ELLEN CARTER — Signature: Ellen Carter — Month: 3 Day: 25 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160922

_____ Cubic Yards

81623539 — Receipt #
NY 2362BO — Trailer License Plate # and State

SCALE 1 103240 LB G
06:17 AM 03/24/08 12

Service Req. # ____ Profile # NY2... Permit # 9A-625

Transporter Name: PRICE TRUCKING CORP
Tractor/Trailer/Roll-off #: 1240-2150

Driver's Name: [illegible]
Generator: NORTHROP GRUMMAN

SCALE 2 31420 LB G
09:13 AM 03/24/08 12

71820 P
32597 K

Scheduled Arrival: ____ Date ____ Time

Actual Arrival: ____ Date 605 Time In ____ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ____ Initials ____ Comments

☐ **Leaker** ☐ **Permit Violation** ☐ **Placarding/Veh. I.D. Violation**

☐ **Other (specify** ____

☑ **Bulk to Landfill** ☐ **No wet line** ☐ **Flatbed** ☐ **Stabilization** ☐ **Drums** ☐ **Tanker** ☐ **Transformers**

Laboratory: ____ Time In ____ Time Out 1K Initials ____ Comments

Stabilization: ____ Time In ____ Time Out ____ Initials ____ Gross Wt. ____ Comments

Landfill: ____ Time In ____ Time Out ____ Initials ____ Comments

Other: ____ Time In ____ Time Out ____ Initials ____ Comments

Aqueous Treatment: ____ Time In ____ Time Out ____ Signature (NO Initials) ____ Comments

Facility Personnel (*please initial*)

____ **Smoking or eating in prohibited areas**
____ **Leaving truck unattended**
____ **Failure to obey instructions of facility personnel**
____ **Failure to display overweight flag**
____ **Failure to wear appropriate PPE**
____ **Improper tarping or detarpin**
____ **Unsafe driving practices**
____ **Overweight upon arrival**
____ **Other (specify)** ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364584GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1, NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/20/08 Weight is Section 11 is Estimated. SR# 8162353Q

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EVANS — Signature: Agent for Northrop Grumman — Month 03 Day 20 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ANANI GOGIBADZE — Signature — Month 03 Day 20 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 32517K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 24 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160932

40
Cubic Yards

81623549 — *Receipt #*
262B2 N.Y. — *Trailer License Plate # and State*

SCALE 1 96540 LB G
09:38 AM 03/24/08 12

Service Req. # — *Profile #* NY296605 — *Permit #* 9A-025

Price Trucking Corp. — *Transporter Name*
13000 2400 — *Tractor/Trailer/Roll-off #*

Monte Miles — *Driver's Name*
Northrop Grumman Corp. — *Generator*

SCALE 2 35600 LB G
11:03 AM 03/24/08 12

60940 P
27642 K

Scheduled Arrival: ________ *Date* ________ *Time*

Actual Arrival: ________ *Date* 931 *Time In* ________ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: *Initials* ________ *Comments* ________

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ________

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory					
Stabilization					
Landfill					
Other					
Aqueous Treatment			Signature (NO Initials)		

Facility Personnel (*please initial*)

________ Smoking or eating in prohibited areas   ________ Leaving truck unattended

________ Failure to obey instructions of facility personnel   ________ Failure to display overweight flag

________ Failure to wear appropriate PPE   ________ Improper tarping or detarpin

________ Unsafe driving practices   ________ Overweight upon arrival

________ Other (specify) ________

Security Guard Initials: ________
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000058347	1	800-424-9300	000364587GBF

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/20/08 Weight is Section 11 is Estimated. SR#
81623549 Recd 27642R

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRIAN EULIAN — Signature: [signature] Agent for Northrop Grumman — Month 03 Day 20 Year 08

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Monte Miles — Signature: [signature] — Month 03 Day 20 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 24 Year 08

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160948

Cubic Yards: ______

SCALE 2 105140 LB G
06:21 AM 03/25/08 12

SCALE 2 35340 LB G
08:08 AM 03/25/08 12

69800 P

31661 K

Receipt #: 81623565
Trailer License Plate # and State: 28023B - NY
Service Req. #:
Profile #: NY296605
Permit #: 9A-025
Transporter Name: PRICE TRUCKING
Tractor/Trailer/Roll-off #: 13600-2450
Driver's Name: KOKOU TOSSAH
Generator: NORTHROP GRUMMAN CORP

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 604 Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: 9 Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: Time In ______ Time Out ______ Initials ______ Comments ______

Stabilization: Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments ______

Landfill: Time In ______ Time Out ______ Initials ______ Comments ______

Other: Time In ______ Time Out ______ Initials ______ Comments ______

Aqueous Treatment: Time In ______ Time Out ______ Signature (NO Initials) ______ Comments ______

Facility Personnel (please initial)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______
______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
______ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364589GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST. 2715	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/24/08 Weight is Section 11 is Estimated. SR# 81623565

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EVCAN — Signature: Agent for Northrop Grumman Bruce Evcan — Month 03 Day 24 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: KOKOU TOSSAH — Signature — Month 03 Day 24 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 31661K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 25 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160957

50
Cubic Yards

21623575 — *Receipt #*

28183- NJ — *Trailer License Plate # and State*

SCALE 1 110960 LB G
09:49 AM 03/25/08 12

SCALE 2 35060 LB G
10:51 AM 03/25/08 12

75900 P
34428 K

Service Req. # ______ *Profile #* ______ *Permit #* ______

Price — *Transporter Name*

B80 2500 — *Tractor/Trailer/Roll-off #*

Way 2 — *Driver's Name*

Diahrop — *Generator*

Scheduled Arrival: ______ *Date* ______ *Time*

Actual Arrival: ______ *Date* 945 *Time In* ______ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ *Initials* ______ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: *Time In* ______ *Time Out* ______ *Initials* ______ *Comments* ______

Stabilization: *Time In* ______ *Time Out* ______ *Initials* ______ *Gross Wt.* ______ *Comments* ______

Landfill: *Time In* ______ *Time Out* ______ *Initials* ______ *Comments* ______

Other: *Time In* ______ *Time Out* ______ *Initials* ______ *Comments* ______

Aqueous Treatment: *Time In* ______ *Time Out* ______ *Signature (NO Initials)* ______ *Comments* ______

Facility Personnel (*please initial*)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______
______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
✓ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364590GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/24/08 Weight is Section 11 is Estimated. SR#________
81623575

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULAN — Signature: [signature] — Month 03 Day 24 Year 08

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: IVAN ZINKN — Signature: [signature] — Month 3 Day 24 Year 08
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 34428K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132
2.
3.
4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 25 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160958

50
Cubic Yards

81623596 — *Receipt #*

25?183 NY — *Trailer License Plate # and State*

SCALE 1 106520 LB G
09:52 AM 03/25/08 I2

Service Req. # — *Profile #* NY27?6?? — *Permit #*

Transporter Name — *Tractor/Trailer/Roll-off #*

V. Zick — *Driver's Name* — Northrop Grumman — *Generator*

SCALE 2 34900 LB G
10:57 AM 03/25/08 I2

71620 T
32487K

Scheduled Arrival: ______ *Date* ______ *Time*

Actual Arrival: ______ *Date* 945 *Time In* ______ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ *Initials* ______ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Stabilization ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Gross Wt.* ______ *Comments*

Landfill ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Other ______ *Time In* ______ *Time Out* ______ *Initials* ______ *Comments*

Aqueous Treatment ______ *Time In* ______ *Time Out* ______ *Signature (NO Initials)* ______ *Comments*

Facility Personnel (*please initial*)

______ **Smoking or eating in prohibited areas**
______ **Failure to obey instructions of facility personnel**
______ **Failure to wear appropriate PPE**
______ **Unsafe driving practices**
______ **Other (specify)** ______
______ **Leaving truck unattended**
______ **Failure to display overweight flag**
______ **Improper tarping or detarpin**
______ **Overweight upon arrival**

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	N Y R 0 0 0 0 5 8 3 4 7	1	800-424-9300	000364591GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/24/08 Weight is Section 11 is Estimated. SR# 8162356

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN — Signature: BRUCE Agent for Northrop Grumman — Month 03 Day 24 Year 08

TRANSPORTER / INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Vasili Zinkiv — Signature: Vasili Zinkiv — Month 03 Day 24 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 32487K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ALLEN CARTER — Signature: Allen Carter — Month 3 Day 25 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

160961 _____ Cubic Yards

816235 79 — Receipt #
285183 N.Y. — Trailer License Plate # and State
_____ — Service Req. #
NYD 049836972 — Profile #
GA. 025 — Permit #
PRICE TRUCKING CORP — Transporter Name
11800/2250 — Tractor/Trailer/Roll-off #
DENNIS SIMPSON — Driver's Name
NORTHROP GRUMMAN CORP — Generator

SCALE 1 36760 LB G
11:09 AM 03/25/08 12

SCALE 2 30320 LB G
12:25 PM 03/25/08 12

66440
30137K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 1101 Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R _____ Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N Y R 0 0 0 0 5 8 3 4 7
2. Page 1 of 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364592GBF

5. Generator's Name and Mailing Address:
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address):
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/24/08 Weight is Section 11 is Estimated. SR#
81623579

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EVANS — Signature: [signature] — Month/Day/Year: 03 24 08

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DENNIS SIMPSON — Signature: [signature] — Month/Day/Year: 03 24 08
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 30137 K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month/Day/Year: 3 25 08

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160967

________ Cubic Yards

8162353 4 — Receipt #
26UUR2 NY — Trailer License Plate # and State
869514 — Service Req. #
NY296605 — Profile #
9A-025 — Permit #
PRICE TRUCKING — Transporter Name
13600 -2350 — Tractor/Trailer/Roll-off #
KOKOU TOSSAH — Driver's Name
NORTHROP GRUMMAN CORP — Generator

SCALE 1 111400 LB G
06:05 AM 03/26/08 12

SCALE 2 36260 LB G
07:58 AM 03/26/08 12

75140 P
34083 R

Scheduled Arrival: ________ Date ________ Time

Actual Arrival: ________ Date ________ Time In ________ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ________ Initials ________ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ________

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ________ Time In ________ Time Out ________ Initials ________ Comments

Stabilization ________ Time In ________ Time Out ________ Initials ________ Gross Wt. ________ Comments

Landfill ________ Time In ________ Time Out ________ Initials ________ Comments

Other ________ Time In ________ Time Out ________ Initials ________ Comments

Aqueous Treatment ________ Time In ________ Time Out ________ Signature (NO Initials) ________ Comments

07-331
11/4 2:08

Facility Personnel (please initial)

________ Smoking or eating in prohibited areas
________ Failure to obey instructions of facility personnel
________ Failure to wear appropriate PPE
________ Unsafe driving practices
________ Other (specify) ________

________ Leaving truck unattended
________ Failure to display overweight flag
________ Improper tarping or detarpin
✓ Overweight upon arrival

Security Guard Initials: ________
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

F 2350 5:45am. CWMI

Price

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364585GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST. 27.15	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/20/08 Weight is Section 11 is Estimated. SR# 869514
8162358

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIN — Signature — Month 03 Day 20 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James Simpson — Signature — Month 03 Day 19 Year 08

Transporter 2 Printed/Typed Name: KOKOU TOSSAH — Signature — Month 03 Day 26 Year 08

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 34083K
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ellen Carter — Signature — Month 3 Day 26 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

160994

Cubic Yards

8116223610 — Receipt #
Trailer License Plate # and State

SCALE 1 110480 LB G
09:45 AM 03/27/08 12

Service Req. # — Profile # NY296605 — Permit #

Transporter Name — Tractor/Trailer/Roll-off #

Driver's Name — Generator

SCALE 2 34640 LB G
10:57 AM 03/27/08 12

75840 P
34401 K

Scheduled Arrival: Date Time

Actual Arrival: Date Time In 939 Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — Time In — Time Out — Initials — Comments

Stabilization — Time In — Time Out — Initials — Gross Wt. — Comments

Landfill — Time In — Time Out — Initials — Comments

Other — Time In — Time Out — Initials — Comments

Aqueous Treatment — Time In — Time Out — Signature (NO Initials) — Comments

Facility Personnel (please initial)

	Smoking or eating in prohibited areas		Leaving truck unattended
	Failure to obey instructions of facility personnel		Failure to display overweight flag
	Failure to wear appropriate PPE		Improper tarping or detarpin
	Unsafe driving practices	✓	Overweight upon arrival
	Other (specify)		

Security Guard Initials:
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364593GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICO TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27.15	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/26/08 Weight is Section 11 is Estimated. SR# 81623610

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULAU — Signature: Agent for Northrop Grumman Bruce Eulau — Month 03 Day 26 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: IVAN ZIOLKIN — Signature: — Month 3 Day 26 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 34401K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 3 Day 27 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

WM WASTE MANAGEMENT

Transporter Log

CWM Chemical Services, Inc.

Model City, NY

160997

50
Cubic Yards

81623613 — Receipt #

2S 773-NY — Trailer License Plate # and State

SCALE 1 102760 LB G
10:02 AM 03/27/08 I2

Service Req. # — Profile # NY... — Permit #

Transporter Name — Tractor/Trailer/Roll-off # 135...55

SCALE 2 34500 LB G
11:13 AM 03/27/08 I2

Driver's Name — Generator

68260 P
30963 K

Scheduled Arrival: Date ____ Time ____

Actual Arrival: Date ____ Time In 947 Time Out ____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials ____ Comments ____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — Time In ____ Time Out ____ Initials ____ Comments ____

Stabilization — Time In ____ Time Out ____ Initials ____ Gross Wt. ____ Comments ____

Landfill — Time In ____ Time Out ____ Initials ____ Comments ____

Other — Time In ____ Time Out ____ Initials ____ Comments ____

Aqueous Treatment — Time In ____ Time Out ____ Signature (NO Initials) ____ Comments ____

Facility Personnel (please initial)

____ Smoking or eating in prohibited areas

____ Failure to obey instructions of facility personnel

____ Failure to wear appropriate PPE

____ Unsafe driving practices

____ Leaving truck unattended

____ Failure to display overweight flag

____ Improper tarping or detarpin

____ Overweight upon arrival

____ Other (specify) ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364594GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 03/26/08 Weight is Section 11 is Estimated. SR# 81623613

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULAU — Signature: Agent for Northrop Grumman Bruce Eulau — Month 03 Day 26 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Vasily Zinkiv — Signature: Vasily Zinkiv — Month 03 Day 26 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rcvd 30963K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ELLEN CARTER — Signature: Ellen Carter — Month 3 Day 27 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO TREATMENT

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161054

50
Cubic Yards

SCALE 2 106340 LB G
06:26 AM 04/02/08 12

Receipt #: 216236
Trailer License Plate # and State:
Service Req. #:
Profile #: NY216901
Permit #:
Transporter Name:
Tractor/Trailer/Roll-off #:
Driver's Name:
Generator:

SCALE 2 35100 LB G
07:42 AM 04/02/08 12
71240

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 619 Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☑ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: Time In ______ Time Out ______ Initials ______ Comments ______

Stabilization: Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments ______

Landfill: Time In ______ Time Out ______ Initials ______ Comments ______

Other: Time In ______ Time Out ______ Initials ______ Comments ______

Aqueous Treatment: Time In ______ Time Out ______ Signature (NO Initials) ______ Comments ______

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas
______ Failure to obey instructions of facility personnel
______ Failure to wear appropriate PPE
______ Unsafe driving practices
______ Leaving truck unattended
______ Failure to display overweight flag
______ Improper tarping or detarpin
______ Overweight upon arrival
______ Other (specify) ______

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000058347	1	800-424-9300	002551489 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~NORTHROP GRUMMAN SYSTEMS CORP~~ Northrop Grumman
600 Grumman Rd-Mail Stop 218-025
Bethpage, NY 11714
Generator's Phone: 516-575-4680

Generator's Site Address (if different than mailing address): Northrop Grumman
Aerospace Blvd
Bethpage, NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: ~~ECO~~ Chemical Services, LLC
1550 Balmer Rd
Model City, NY 14107
Facility's Phone: 716-754-8231 — U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste, Solid, N.O.S., 9, NA3077, III (0007) NY296709	001	DT	EST 60,000.00P		D007		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
NY296709 - Chrome Contaminate Soil ERG # 171
Weight in Sec 11 est 81623669 SR# 870376-1

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: NORTHROP BRUCE EULIAN AGENT FOR GRUMMAN — Signature: Agent for Northrop Bruce Eulian — Month 04 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: IVAN ZWIKL — Signature: [signature] — Month 4 Day 1 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec 71240
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 4 Day 2 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161055

50
Cubic Yards

SCALE 2 106080 LB G
08:43 AM 04/02/08 12

8162367?? — Receipt #
2??B3-NY — Trailer License Plate # and State

Service Req. # ____ Profile # NY???? ____ Permit # ____

Transporter Name ____ Tractor/Trailer/Roll-off # ____

SCALE 2 34820 LB S
08:49 AM 04/02/08 12

Driver's Name ____ Generator ____

71,260

Scheduled Arrival: ____ Date ____ Time

Actual Arrival: ____ Date 623 Time In ____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: ____ Initials ____ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ____ Time In ____ Time Out ____ Initials ____ Comments

Stabilization ____ Time In ____ Time Out ____ Initials ____ Gross Wt. ____ Comments

Landfill ____ Time In ____ Time Out ____ Initials ____ Comments

Other ____ Time In ____ Time Out ____ Initials ____ Comments

Aqueous Treatment ____ Time In ____ Time Out ____ Signature (NO Initials) ____ Comments

Facility Personnel (*please initial*)

____ **Smoking or eating in prohibited areas**
____ **Leaving truck unattended**
____ **Failure to obey instructions of facility personnel**
____ **Failure to display overweight flag**
____ **Failure to wear appropriate PPE**
____ **Improper tarping or detarpin**
____ **Unsafe driving practices**
____ **Overweight upon arrival**
____ **Other (specify)** ____

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 002551488 JJK

GENERATOR

5. Generator's Name and Mailing Address: Northrop Grumman Systems Corp, 600 Grumman Rd Mail Stop 216-025, Bethpage NY 11714
Generator's Phone: 516-575-4680
Generator's Site Address (if different than mailing address): Northrop Grumman, Aerospace Blvd, Bethpage NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CWM Chemical Services L.L.C., 1550 Balmer Rd, Model City NY 14107
Facility's Phone: 716-754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, Hazardous Waste, Solid, N.O.S., 9, NA3077, III (D007) NY296709	001	DT	60,000.00	P	D007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: NY296709 - Chrome Contaminate Soil ERG #171
Weight in sect #11 is est 81623672 SR# 870376-2 Recd 7126 of

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: NORTHROP BRUCE AGENT FOR GRUMMAN EULAN
Signature: Agent for Grumman Eulan
Month: 04 Day: 01 Year: 08

INTL

18. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: VASIL ZINKIV
Signature: Vasil Zinkiv
Month: 04 Day: 01 Year: 08
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 7126 of
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Month: 04 Day: 12 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161102

50
Cubic Yards

SCALE 1 112440 LB G
06:49 AM 04/07/08 12

SCALE 2 35200 LB G
09:04 AM 04/07/08 12
77240

816023720 — *Receipt #*

230LE3 - NY — *Trailer License Plate # and State*

Service Req. # ____ *Profile #* NY296709 *Permit #* ____

Transporter Name ____ *Tractor/Trailer/Roll-off #* 1220 2300

Driver's Name ____ *Generator* ____

Scheduled Arrival: ____ *Date* ____ *Time*

Actual Arrival: ____ *Date* 640 *Time In* ____ *Time Out*

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ____ *Initials* ____ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☑ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Comments*

Stabilization ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Gross Wt.* ____ *Comments*

Landfill ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Comments*

Other ____ *Time In* ____ *Time Out* ____ *Initials* ____ *Comments*

Aqueous Treatment ____ *Time In* ____ *Time Out* ____ *Signature (NO Initials)* ____ *Comments*

Facility Personnel (*please initial*)

____ Smoking or eating in prohibited areas

____ Failure to obey instructions of facility personnel

____ Failure to wear appropriate PPE

____ Unsafe driving practices

____ Other (specify) ____

____ Leaving truck unattended

____ Failure to display overweight flag

✓ Improper tarping or detarpin

____ Overweight upon arrival

Security Guard Initials: ____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000058347	1	800-424-9300	002551487 JJK

GENERATOR

5. Generator's Name and Mailing Address
Northrop Grumman Systems Corp
600 Grumman Rd - Mail Stop 218-025
Bethpage NY 11714
Generator's Phone: 516-575-4680

Generator's Site Address (if different than mailing address)
Northrop Grumman
Aerospace Blvd
Bethpage NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Chemical Services
6550 Balmer Rd
Model City, NY 14107
Facility's Phone: 716-754-8231 — U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste, Solid, N.O.S., 9, NA3077, III (D007) NY296709	001	DT	60,000.	P	D007		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
114 & 104 - Chrome Contaminated Soil ERG#171
Weight in Section 11 est.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman Eulian — Month 10 Day 04 Year 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: IVAN ZUSKIN — Signature — Month 4 Day 9 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty list actual Rec'd 77240#
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 4 Day 7 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161097

50
Cubic Yards

SCALE 1 106700 LB G
06:03 AM 04/07/08 12
SCALE 2 34920 LB G
07:11 AM 04/07/08 12
71730P

Field	Entry
Receipt #	8163376
Trailer License Plate # and State	38083-NJ
Service Req. #	
Profile #	NY326209
Permit #	
Transporter Name	A1 & Trucking
Tractor/Trailer/Roll-off #	135-56
Driver's Name	VZ-kV
Generator	Mobil & Ginnie

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 553 Time In ______ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: (initialed) Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory					
Stabilization					
Landfill					
Other					
Aqueous Treatment			Signature (NO Initials)		

Facility Personnel (*please initial*)

______ Smoking or eating in prohibited areas
______ Failure to obey instructions of facility personnel
______ Failure to wear appropriate PPE
______ Unsafe driving practices
______ Other (specify) ______

______ Leaving truck unattended
______ Failure to display overweight flag
______ Improper tarping or detarpin
______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 002551485 JJK

GENERATOR

5. Generator's Name and Mailing Address: Northrop Grumman Systems Corp, 600 Grumman Rd - mail Stop 218-025, Bethpage NY 11714
Generator's Phone: 516-575-4680
Generator's Site Address (if different than mailing address): Northrop Grumman Aerospace Blvd, Bethpage NY 11714
U.S. EPA ID Number:

6. Transporter 1 Company Name: PRICE TRUCKING
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chemical Services, 1550 Balmer Rd, Model City NY 14107
Facility's Phone: 716-754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, Hazardous Waste, Solid, N.O.S., 9, NA3077, III, (D007) NY296709	001	DT	60,000.	P	D007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: NY296709 - Chrome Contaminated Soil (ERG # 171)
Weight in Section 11 Estimated 81623 lb

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: NORTHROP AGENT FOR GRUMMAN BRUCE EULIAN
Signature: Northrop Grumman Bruce Eulian
Month: 04 Day: 04 Year: 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Vasil Zinkiv
Signature:
Month: 04 Day: 04 Year: 08
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty 1st actual read 71780
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER
Signature: Eileen Carter
Month: 4 Day: 7 Year: 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161060

_______ Cubic Yards

SCALE 1 104020 LB G
10:28 AM 04/02/08 12

SCALE 2 34080 LB G
11:33 AM 04/02/08 12

69940 P
31725 K

Receipt #: 81623676
Trailer License Plate # and State:
Service Req. #:
Profile #: NY286005
Permit #:
Transporter Name: Price Trucking
Tractor/Trailer/Roll-off #: 10500 2300
Driver's Name: James Simpson
Generator: N. G. Inc.

Scheduled Arrival: Date ______ Time ______

Actual Arrival: Date ______ Time In 1021 Time Out ______

Receiving: Initials ______ Comments ______

Arrived during Blackout? Y / N   Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory			Tr		
Stabilization					
Landfill					
Other					

	Time In	Time Out	Signature (NO Initials)	Comments
Aqueous Treatment				

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas
______ Failure to obey instructions of facility personnel
______ Failure to wear appropriate PPE
______ Unsafe driving practices
______ Other (specify) ______
______ Leaving truck unattended
______ Failure to display overweight flag
______ Improper tarping or detarpin
______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000058347
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 000364595GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG #171
PCB Out of Service Date 04/01/08 Weight is Section 11 is Estimated. SR#
81623676

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman Bruce Eulian — Month 04 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES SIMPSON — Signature: James Simpson — Month 04 Day 01 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual rec'd 3/725K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 4 Day 2 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161056

46
Cubic Yards

SCALE 1 100660 LB G
08:51 AM 04/02/08 12

SCALE 2 35560 LB G
10:51 AM 04/02/08 12

65100
29529K

81623673	2602B2 N.Y.
Receipt #	Trailer License Plate # and State

	NY	9A-325
Service Req. #	Profile #	Permit #

Transporter Name	Tractor/Trailer/Roll-off #
Driver's Name	Generator

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 945 Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory: Time In ______ Time Out ______ Initials ______ Comments ______

Stabilization: Time In ______ Time Out ______ Initials ______ Gross Wt. ______ Comments ______

Landfill: Time In ______ Time Out ______ Initials ______ Comments ______

Other: Time In ______ Time Out ______ Initials ______ Comments ______

Aqueous Treatment: Time In ______ Time Out ______ Signature (NO Initials) ______ Comments ______

Facility Personnel (please initial)

______ **Smoking or eating in prohibited areas** ______ **Leaving truck unattended**

______ **Failure to obey instructions of facility personnel** ______ **Failure to display overweight flag**

______ **Failure to wear appropriate PPE** ______ **Improper tarping or detarpin**

______ **Unsafe driving practices** ______ **Overweight upon arrival**

______ **Other (specify)** ______

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364596GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 27215	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 04,01,08 Weight is Section 11 is Estimated. SR# 81623673 Bed 29529K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN BRUCE EULIAN — Signature: Agent for Northrop Grumman — Month 04 Day 01 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Monte Miles — Signature: Monte Miles — Month 04 Day 01 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Eileen Carton — Signature: Eileen Carton — Month 4 Day 2 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161103

______ Cubic Yards

Receipt #: 81623721	Trailer License Plate # and State: 580 CB3 -NY
Service Req. #:	Profile #: NY296605
Permit #: 9A-035	
Transporter Name: PRICE TRUCKING	Tractor/Trailer/Roll-off #: 13600-2450
Driver's Name: KOKOU TOSSAH	Generator: NORTHROP-GRUMMAN

SCALE 1 106700 LB G
06:52 AM 04/07/08 12

SCALE 2 35380 LB G
07:56 AM 04/07/08 12

71320 P
32351 K

Scheduled Arrival: ______ Date ______ Time

Actual Arrival: ______ Date 543 Time In ______ Time Out

Arrived during Blackout? Y / N   Notified DEC? Y / N

Receiving: ______ Initials ______ Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Gross Wt.	Comments
Laboratory			F		
Stabilization					
Landfill					
Other					
Aqueous Treatment			08 059		

Signature (NO Initials) 06

216790
02 204010

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas
______ Failure to obey instructions of facility personnel
______ Failure to wear appropriate PPE
______ Unsafe driving practices
______ Other (specify) ______

______ Leaving truck unattended
______ Failure to display overweight flag
______ Improper tarping or detarpin
______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records   Green & Canary: Accts Rec.   Pink: Environmental   Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364598GBF

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

Generator's Phone: (516) 575-4680

6. Transporter 1 Company Name: PRICE TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST 2725	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 04/04/08 Weight is Section 11 is Estimated. SR#
8162372 #2802B3-NY

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR Northrop Grumman BRUCE EURICH — Signature: Northrop Grumman Eurich — Month 04 Day 04 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KOKOU TOSSAH — Signature — Month 04 Day 04 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 3235#
18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 04 Day 17 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

161217

Cubic Yards: ______

Receipt #: 81623629
Trailer License Plate # and State: NY 2362BD
Service Req. #: ______
Profile #: NY2-6605
Permit #: 9A-025
Transporter Name: PRICE TRUCKING CORP
Tractor/Trailer/Roll-off #: 12400 2107
Driver's Name: ANTHONY GABRINAL
Generator: NORTHROP GRUMMAN CORP

SCALE 2 80380 LB G
06:25 AM 04/11/08 12

SCALE 2 30800 LB G
08:10 AM 04/11/08 12

49450
22444K

Scheduled Arrival: Date ______ Time ______

Actual Arrival: Date ______ Time In 533 Time Out ______

Arrived during Blackout? Y / N

Notified DEC? Y / N

Receiving: Initials: [illegible] Comments: ______

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify ______

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

	Time In	Time Out	Initials	Comments
Laboratory			[illegible]	

	Time In	Time Out	Initials	Gross Wt.	Comments
Stabilization					

	Time In	Time Out	Initials	Comments
Landfill				
Other				

	Time In	Time Out	Signature (NO Initials)	Comments
Aqueous Treatment				07-331

3/24/16:06
1650-93
CD 2040/0

Facility Personnel (please initial)

______ Smoking or eating in prohibited areas

______ Failure to obey instructions of facility personnel

______ Failure to wear appropriate PPE

______ Unsafe driving practices

______ Other (specify) ______

______ Leaving truck unattended

______ Failure to display overweight flag

______ Improper tarping or detarpin

______ Overweight upon arrival

Security Guard Initials: ______
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000058347	1	800-424-9300	000364597GBF

GENERATOR

5. Generator's Name and Mailing Address
NORTHROP GRUMMAN CORP
925 SOUTH OYSTER BAY RD, MAIL STOP W16-35
BETHPAGE NY 11714
Generator's Phone: (516) 575-4680

Generator's Site Address (if different than mailing address)
NORTHROP GRUMMAN
AEROSPACE BLVD
BETHPAGE NY 11714

6. Transporter 1 Company Name: PRICO TRUCKING — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 754-8231

U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9,UN3432,III NY296605	001	DT	EST. 2725	K		B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY296605 PCB Soil ERG # 171
PCB Out of Service Date 04.04.08 Weight is Section 11 is Estimated. SR# 81623839

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR NORTHROP GRUMMAN — Signature: BRUCE EULISS — Month 04 Day 04 Year 08

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ANDRA GABIANO — Signature — Month 04 Day 04 Year 08

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty is actual Rec'd 2244#K Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ERIC CARTER — Signature: Eileen Carter — Month 4 Day 11 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

ARCADIS

Attachment D-2

Common Fill and Recycled Concrete Aggregate Analytical Data

Columbia Analytical Services inc.

1 Mustard St.,Suite 250
Rochester, NY 14609

Date: February 26, 2008
Number of pages: 7

To:

Ms. Melissa Reindl
ARCADIS of New York
Two Huntington Quadrangle
Suite 1S10
Melville, NY 11747-4503

Phone: 631-391-5277

Fax: 631-249-7610

CC:

From:

Michael Perry

Phone: (585) 288-5380

Fax: (585) 288-8475

RUSH REPORT

Submission #: R2842367
Project Reference: NGC - BETHPAGE, NY

thanks, Mike

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COLUMBIA ANALYTICAL SERVICES

Reported: 02/26/08

ARCADIS of New York
Project Reference: NGC - BETHPAGE, NY
Client Sample ID : 110-SAND-V

Date Sampled : 02/20/08 14:30 **Order #:** 1078138 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 02/21/08 **Submission #:** R2842367

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED		DILUTION
METALS							
ALUMINUM	6010B	10.0	556	MG/KG	02/25/08		1.0
ANTIMONY	6010B	6.00	6.13 U	MG/KG	02/25/08		1.0
ARSENIC	6010B	1.00	1.02 U	MG/KG	02/25/08		1.0
BARIUM	6010B	2.00	2.55	MG/KG	02/25/08		1.0
BERYLLIUM	6010B	0.500	0.511 U	MG/KG	02/25/08		1.0
CADMIUM	6010B	0.500	0.511 U	MG/KG	02/25/08		1.0
CALCIUM	6010B	100	102 U	MG/KG	02/25/08		1.0
CHROMIUM	6010B	1.00	2.41	MG/KG	02/25/08		1.0
COBALT	6010B	5.00	5.11 U	MG/KG	02/25/08		1.0
COPPER	6010B	2.00	2.04 U	MG/KG	02/25/08		1.0
IRON	6010B	10.0	1630	MG/KG	02/25/08		1.0
LEAD	6010B	5.00	5.11 U	MG/KG	02/25/08		1.0
MAGNESIUM	6010B	100	154	MG/KG	02/25/08		1.0
MANGANESE	6010B	1.00	38.9	MG/KG	02/25/08		1.0
MERCURY	7471A	0.0500	0.0511 U	MG/KG	02/22/08		1.0
NICKEL	6010B	4.00	4.09 U	MG/KG	02/25/08		1.0
POTASSIUM	6010B	200	204 U	MG/KG	02/25/08		1.0
SELENIUM	6010B	1.00	1.02 U	MG/KG	02/25/08		1.0
SILVER	6010B	1.00	1.02 U	MG/KG	02/25/08		1.0
SODIUM	6010B	100	102 U	MG/KG	02/25/08		1.0
THALLIUM	6010B	1.00	1.02 U	MG/KG	02/25/08		1.0
VANADIUM	6010B	5.00	5.11 U	MG/KG	02/25/08		1.0
ZINC	6010B	2.00	2.98	MG/KG	02/25/08		1.0
WET CHEMISTRY							
PERCENT SOLIDS	160.3M	1.00	97.8	%	02/22/08	13:00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 02/26/08

ARCADIS of New York
Project Reference: NGC - BETHPAGE, NY
Client Sample ID : 110-SAND-V

Date Sampled : 02/20/08 14:30 **Order #:** 1078138 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 02/21/08 **Submission #:** R2842367 **Percent Solid:** 97.8

DATE ANALYZED : 02/22/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.1 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.1 U	UG/KG
BROMOFORM	5.0	5.1 U	UG/KG
BROMOMETHANE	5.0	5.1 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.1 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.1 U	UG/KG
CHLOROBENZENE	5.0	5.1 U	UG/KG
CHLOROETHANE	10	10 U	UG/KG
CHLOROFORM	5.0	5.1 U	UG/KG
CHLOROMETHANE	5.0	5.1 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.1 U	UG/KG
CYCLOHEXANE	5.0	5.1 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.1 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.1 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.1 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.1 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.1 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.1 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.1 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.1 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.1 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.1 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.1 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.1 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.1 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.1 U	UG/KG
ETHYLBENZENE	5.0	5.1 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
ISOPROPYLBENZENE	5.0	5.1 U	UG/KG
METHYL ACETATE	10	10 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.1 U	UG/KG
METHYLENE CHLORIDE	5.0	5.1 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.1 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.1 U	UG/KG
TETRACHLOROETHENE	5.0	5.1 U	UG/KG
TOLUENE	5.0	5.1 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.1 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.1 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.1 U	UG/KG
TRICHLOROETHENE	5.0	5.1 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 02/26/08

ARCADIS of New York
Project Reference: NGC - BETHPAGE, NY
Client Sample ID : 110-SAND-V

Date Sampled : 02/20/08 14:30 **Order #:** 1078138 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 02/21/08 **Submission #:** R2842367 **Percent Solid:** 97.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/22/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.1 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.1 U	UG/KG
VINYL CHLORIDE	5.0	5.1 U	UG/KG
O-XYLENE	5.0	5.1 U	UG/KG
M+P-XYLENE	5.0	5.1 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	89	%
TOLUENE-D8	(75 - 128 %)	89	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	86	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 02/26/08

ARCADIS of New York
Project Reference: NGC - BETHPAGE, NY
Client Sample ID : 110-SAND-V

Date Sampled : 02/20/08 14:30 **Order #:** 1078138 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 02/21/08 **Submission #:** R2842367 **Percent Solid:** 97.8

DATE EXTRACTED : 02/21/08
DATE ANALYZED : 02/25/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACENAPHTHENE	330	340 U	UG/KG
ACENAPHTHYLENE	330	340 U	UG/KG
ANTHRACENE	330	340 U	UG/KG
BENZO(A)ANTHRACENE	330	340 U	UG/KG
BENZO(A)PYRENE	330	340 U	UG/KG
BENZO(B)FLUORANTHENE	330	340 U	UG/KG
BENZO(G,H,I)PERYLENE	330	340 U	UG/KG
BENZO(K)FLUORANTHENE	330	340 U	UG/KG
BENZYL ALCOHOL	330	340 U	UG/KG
BUTYL BENZYL PHTHALATE	330	340 U	UG/KG
DI-N-BUTYLPHTHALATE	330	340 U	UG/KG
CARBAZOLE	330	340 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	340 U	UG/KG
4-CHLOROANILINE	330	340 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	340 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	340 U	UG/KG
2-CHLORONAPHTHALENE	330	340 U	UG/KG
2-CHLOROPHENOL	330	340 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	340 U	UG/KG
CHRYSENE	330	340 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	340 U	UG/KG
DIBENZOFURAN	330	340 U	UG/KG
1,3-DICHLOROBENZENE	330	340 U	UG/KG
1,2-DICHLOROBENZENE	330	340 U	UG/KG
1,4-DICHLOROBENZENE	330	340 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	340 U	UG/KG
2,4-DICHLOROPHENOL	330	340 U	UG/KG
DIETHYLPHTHALATE	330	340 U	UG/KG
DIMETHYL PHTHALATE	330	340 U	UG/KG
2,4-DIMETHYLPHENOL	1700	1700 U	UG/KG
2,4-DINITROPHENOL	330	340 U	UG/KG
2,4-DINITROTOLUENE	330	340 U	UG/KG
2,6-DINITROTOLUENE	330	340 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	340 U	UG/KG
FLUORANTHENE	330	340 U	UG/KG
FLUORENE	330	340 U	UG/KG
HEXACHLOROBENZENE	330	340 U	UG/KG
HEXACHLOROBUTADIENE	330	340 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	340 U	UG/KG
HEXACHLOROETHANE	330	340 U	UG/KG
ISOPHORONE	330	340 U	UG/KG
2-METHYLNAPHTHALENE	330	340 U	UG/KG
4,6-DINITRO-2-METHYLPHENOL	1700	1700 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 02/26/08

ARCADIS of New York
Project Reference: NGC - BETHPAGE, NY
Client Sample ID : 110-SAND-V

Date Sampled : 02/20/08 14:30 **Order #:** 1078138 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 02/21/08 **Submission #:** R2842367 **Percent Solid:** 97.8

DATE EXTRACTED : 02/21/08
DATE ANALYZED : 02/25/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
4-CHLORO-3-METHYLPHENOL	330	340 U	UG/KG
2-METHYLPHENOL	330	340 U	UG/KG
3+4-METHYLPHENOL	330	340 U	UG/KG
NAPHTHALENE	330	340 U	UG/KG
2-NITROANILINE	1700	1700 U	UG/KG
3-NITROANILINE	1700	1700 U	UG/KG
4-NITROANILINE	1700	1700 U	UG/KG
NITROBENZENE	330	340 U	UG/KG
2-NITROPHENOL	330	340 U	UG/KG
4-NITROPHENOL	1700	1700 U	UG/KG
N-NITROSODIMETHYLAMINE	330	340 U	UG/KG
N-NITROSODIPHENYLAMINE	330	340 U	UG/KG
DI-N-OCTYL PHTHALATE	330	340 U	UG/KG
PENTACHLOROPHENOL	1700	1700 U	UG/KG
PHENANTHRENE	330	340 U	UG/KG
PHENOL	330	340 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	340 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	340 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	340 U	UG/KG
PYRENE	330	340 U	UG/KG
1,2,4-TRICHLOROBENZENE	330	340 U	UG/KG
2,4,6-TRICHLOROPHENOL	330	340 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	340 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	79	%
NITROBENZENE-d5	(27 - 130 %)	68	%
PHENOL-d6	(10 - 133 %)	73	%
2-FLUOROBIPHENYL	(32 - 130 %)	75	%
2-FLUOROPHENOL	(10 - 130 %)	64	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	96	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 02/26/08

ARCADIS of New York
Project Reference: NGC - BETHPAGE, NY
Client Sample ID : 110-SAND-V

Date Sampled : 02/20/08 14:30 **Order #:** 1078138 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 02/21/08 **Submission #:** R2842367 **Percent Solid:** 97.8

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 02/21/08			
DATE ANALYZED : 02/22/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	34 U	UG/KG
PCB 1221	67	69 U	UG/KG
PCB 1232	33	34 U	UG/KG
PCB 1242	33	34 U	UG/KG
PCB 1248	33	34 U	UG/KG
PCB 1254	33	34 U	UG/KG
PCB 1260	33	34 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	88	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	85	%

Columbia Analytical Services, Inc.

1 Mustard St.,Suite 250
Rochester, NY 14609

Date: March 14, 2008
Number of pages:_____

To:

Ms. Melissa Reindl
ARCADIS of New York
Two Huntington Quadrangle
Suite 1S10
Melville, NY 11747-4503

Phone: 631-391-5277

Fax: 631-249-7610

CC:

From:

Michael Perry

Phone: (585) 288-5380

Fax: (585) 288-8475

RUSH REPORT

Submission #: R2842651
Project Reference: NGC SVE IRM

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 88.1

DATE ANALYZED : 03/13/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACETONE	20	53	UG/KG
BENZENE	5.0	5.7 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.7 U	UG/KG
BROMOFORM	5.0	5.7 U	UG/KG
BROMOMETHANE	5.0	5.7 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.7 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.7 U	UG/KG
CHLOROBENZENE	5.0	5.7 U	UG/KG
CHLOROETHANE	10	11 U	UG/KG
CHLOROFORM	5.0	5.7 U	UG/KG
CHLOROMETHANE	5.0	5.7 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.7 U	UG/KG
CYCLOHEXANE	5.0	5.7 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.7 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.7 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.7 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.7 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.7 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.7 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.7 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.7 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.7 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.7 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.7 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.7 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.7 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.7 U	UG/KG
ETHYLBENZENE	10	11 U	UG/KG
2-HEXANONE	5.0	5.7 U	UG/KG
ISOPROPYLBENZENE	10	11 U	UG/KG
METHYL ACETATE	5.0	5.7 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.7 U	UG/KG
METHYLENE CHLORIDE	10	11 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	5.0	5.7 U	UG/KG
STYRENE	5.0	5.7 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.7 U	UG/KG
TETRACHLOROETHENE	5.0	5.7 U	UG/KG
TOLUENE	5.0	5.7 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.7 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.7 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.7 U	UG/KG
TRICHLOROETHENE	5.0	5.7 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 88.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.7 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.7 U	UG/KG
VINYL CHLORIDE	5.0	5.7 U	UG/KG
O-XYLENE	5.0	5.7 U	UG/KG
M+P-XYLENE	5.0	5.7 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	81	%
TOLUENE-D8	(75 - 128 %)	88	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	40 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.2

DATE ANALYZED : 03/13/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACETONE	20	46	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.5 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	10	11 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.5 U	UG/KG
CYCLOHEXANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.5 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.5 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.5 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.5 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	10	11 U	UG/KG
2-HEXANONE	5.0	5.5 U	UG/KG
ISOPROPYLBENZENE	10	11 U	UG/KG
METHYL ACETATE	5.0	5.5 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.5 U	UG/KG
METHYLENE CHLORIDE	10	11 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	5.0	5.5 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	81	%
TOLUENE-D8	(75 - 128 %)	91	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	42 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	62	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.5 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	10	11 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.5 U	UG/KG
CYCLOHEXANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.5 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.5 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.5 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.5 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	5.0	5.5 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
ISOPROPYLBENZENE	5.0	5.5 U	UG/KG
METHYL ACETATE	10	11 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.5 U	UG/KG
METHYLENE CHLORIDE	5.0	5.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	84	%
TOLUENE-D8	(75 - 128 %)	93	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	48 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 89.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	75	UG/KG
BENZENE	5.0	5.6 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.6 U	UG/KG
BROMOFORM	5.0	5.6 U	UG/KG
BROMOMETHANE	5.0	5.6 U	UG/KG
2-BUTANONE (MEK)	10	15	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.6 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.6 U	UG/KG
CHLOROBENZENE	5.0	5.6 U	UG/KG
CHLOROETHANE	10	11 U	UG/KG
CHLOROFORM	5.0	5.6 U	UG/KG
CHLOROMETHANE	5.0	5.6 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.6 U	UG/KG
CYCLOHEXANE	5.0	5.6 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.6 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.6 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.6 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.6 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.6 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.6 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.6 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.6 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.6 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.6 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.6 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.6 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.6 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.6 U	UG/KG
ETHYLBENZENE	10	11 U	UG/KG
2-HEXANONE	5.0	5.6 U	UG/KG
ISOPROPYLBENZENE	10	11 U	UG/KG
METHYL ACETATE	5.0	5.6 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.6 U	UG/KG
METHYLENE CHLORIDE	10	11 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	5.0	5.6 U	UG/KG
STYRENE	5.0	5.6 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.6 U	UG/KG
TETRACHLOROETHENE	5.0	5.6 U	UG/KG
TOLUENE	5.0	5.6 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.6 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.6 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.6 U	UG/KG
TRICHLOROETHENE	5.0	5.6 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 89.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.6 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.6 U	UG/KG
VINYL CHLORIDE	5.0	5.6 U	UG/KG
O-XYLENE	5.0	5.6 U	UG/KG
M+P-XYLENE	5.0	5.6 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	78	%
TOLUENE-D8	(75 - 128 %)	91	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	31 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 92.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	59	UG/KG
BENZENE	5.0	5.4 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.4 U	UG/KG
BROMOFORM	5.0	5.4 U	UG/KG
BROMOMETHANE	5.0	5.4 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.4 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.4 U	UG/KG
CHLOROBENZENE	5.0	5.4 U	UG/KG
CHLOROETHANE	10	11 U	UG/KG
CHLOROFORM	5.0	5.4 U	UG/KG
CHLOROMETHANE	5.0	5.4 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.4 U	UG/KG
CYCLOHEXANE	5.0	5.4 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.4 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.4 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.4 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.4 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.4 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.4 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.4 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.4 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.4 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.4 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.4 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.4 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.4 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.4 U	UG/KG
ETHYLBENZENE	5.0	5.4 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
ISOPROPYLBENZENE	5.0	5.4 U	UG/KG
METHYL ACETATE	10	11 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.4 U	UG/KG
METHYLENE CHLORIDE	5.0	5.4 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.4 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.4 U	UG/KG
TETRACHLOROETHENE	5.0	5.4 U	UG/KG
TOLUENE	5.0	5.4 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.4 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.4 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.4 U	UG/KG
TRICHLOROETHENE	5.0	5.4 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 92.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.4 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.4 U	UG/KG
VINYL CHLORIDE	5.0	5.4 U	UG/KG
O-XYLENE	5.0	5.4 U	UG/KG
M+P-XYLENE	5.0	5.4 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	85	%
TOLUENE-D8	(75 - 128 %)	92	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	31 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 90.7

DATE ANALYZED : 03/13/08
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACETONE	20	30	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.5 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	10	11 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.5 U	UG/KG
CYCLOHEXANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.5 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.5 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.5 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.5 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	5.0	5.5 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
ISOPROPYLBENZENE	5.0	5.5 U	UG/KG
METHYL ACETATE	10	11 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.5 U	UG/KG
METHYLENE CHLORIDE	5.0	5.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 90.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	83	%
TOLUENE-D8	(75 - 128 %)	90	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	33 *	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 88.1

DATE EXTRACTED : 03/12/08
DATE ANALYZED : 03/12/08
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACENAPHTHENE	330	3700 U	UG/KG
ACENAPHTHYLENE	330	3700 U	UG/KG
ACETOPHENONE	330	3700 U	UG/KG
ANTHRACENE	330	3700 U	UG/KG
ATRAZINE	330	3700 U	UG/KG
BENZALDEHYDE	330	3700 U	UG/KG
BENZO(A)ANTHRACENE	330	3700 U	UG/KG
BENZO(A)PYRENE	330	3700 U	UG/KG
BENZO(B)FLUORANTHENE	330	3700 U	UG/KG
BENZO(G,H,I)PERYLENE	330	3700 U	UG/KG
BENZO(K)FLUORANTHENE	330	3700 U	UG/KG
1,1'-BIPHENYL	330	3700 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3700 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3700 U	UG/KG
CAPROLACTAM	330	3700 U	UG/KG
CARBAZOLE	330	3700 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	3700 U	UG/KG
4-CHLOROANILINE	330	3700 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	3700 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	3700 U	UG/KG
2-CHLORONAPHTHALENE	330	3700 U	UG/KG
2-CHLOROPHENOL	330	3700 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	3700 U	UG/KG
CHRYSENE	330	3700 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	3700 U	UG/KG
DIBENZOFURAN	330	3700 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	3700 U	UG/KG
2,4-DICHLOROPHENOL	330	3700 U	UG/KG
DIETHYLPHTHALATE	330	3700 U	UG/KG
DIMETHYL PHTHALATE	330	3700 U	UG/KG
2,4-DIMETHYLPHENOL	330	3700 U	UG/KG
2,4-DINITROPHENOL	1700	19000 U	UG/KG
2,4-DINITROTOLUENE	330	3700 U	UG/KG
2,6-DINITROTOLUENE	330	3700 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	3700 U	UG/KG
FLUORANTHENE	330	740 J	UG/KG
FLUORENE	330	3700 U	UG/KG
HEXACHLOROBENZENE	330	3700 U	UG/KG
HEXACHLOROBUTADIENE	330	3700 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3700 U	UG/KG
HEXACHLOROETHANE	330	3700 U	UG/KG
ISOPHORONE	330	3700 U	UG/KG
2-METHYLNAPHTHALENE	330	3700 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 88.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	19000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	3700 U	UG/KG
2-METHYLPHENOL	330	3700 U	UG/KG
4-METHYLPHENOL	330	3700 U	UG/KG
NAPHTHALENE	330	3700 U	UG/KG
2-NITROANILINE	1700	19000 U	UG/KG
3-NITROANILINE	1700	19000 U	UG/KG
4-NITROANILINE	1700	19000 U	UG/KG
NITROBENZENE	330	3700 U	UG/KG
2-NITROPHENOL	330	3700 U	UG/KG
4-NITROPHENOL	1700	19000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3700 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3700 U	UG/KG
PENTACHLOROPHENOL	1700	19000 U	UG/KG
PHENANTHRENE	330	510 J	UG/KG
PHENOL	330	3700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3700 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3700 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3700 U	UG/KG
PYRENE	330	660 J	UG/KG
2,4,6-TRICHLOROPHENOL	330	3700 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	3700 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	90	%
NITROBENZENE-d5	(27 - 130 %)	69	%
PHENOL-d6	(10 - 133 %)	61	%
2-FLUOROBIPHENYL	(32 - 130 %)	85	%
2-FLUOROPHENOL	(10 - 130 %)	29	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	7 *	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 15.00			Dry Weight
ACENAPHTHENE	330	5400 U	UG/KG
ACENAPHTHYLENE	330	5400 U	UG/KG
ACETOPHENONE	330	5400 U	UG/KG
ANTHRACENE	330	5400 U	UG/KG
ATRAZINE	330	5400 U	UG/KG
BENZALDEHYDE	330	5400 U	UG/KG
BENZO(A)ANTHRACENE	330	5400 U	UG/KG
BENZO(A)PYRENE	330	5400 U	UG/KG
BENZO(B)FLUORANTHENE	330	5400 U	UG/KG
BENZO(G,H,I)PERYLENE	330	5400 U	UG/KG
BENZO(K)FLUORANTHENE	330	5400 U	UG/KG
1,1'-BIPHENYL	330	5400 U	UG/KG
BUTYL BENZYL PHTHALATE	330	5400 U	UG/KG
DI-N-BUTYLPHTHALATE	330	5400 U	UG/KG
CAPROLACTAM	330	5400 U	UG/KG
CARBAZOLE	330	5400 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	5400 U	UG/KG
4-CHLOROANILINE	330	5400 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	5400 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	5400 U	UG/KG
2-CHLORONAPHTHALENE	330	5400 U	UG/KG
2-CHLOROPHENOL	330	5400 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	5400 U	UG/KG
CHRYSENE	330	610 J	UG/KG
DIBENZO(A,H)ANTHRACENE	330	5400 U	UG/KG
DIBENZOFURAN	330	5400 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	5400 U	UG/KG
2,4-DICHLOROPHENOL	330	5400 U	UG/KG
DIETHYLPHTHALATE	330	5400 U	UG/KG
DIMETHYL PHTHALATE	330	5400 U	UG/KG
2,4-DIMETHYLPHENOL	330	5400 U	UG/KG
2,4-DINITROPHENOL	1700	28000 U	UG/KG
2,4-DINITROTOLUENE	330	5400 U	UG/KG
2,6-DINITROTOLUENE	330	5400 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	5400 U	UG/KG
FLUORANTHENE	330	1200 J	UG/KG
FLUORENE	330	5400 U	UG/KG
HEXACHLOROBENZENE	330	5400 U	UG/KG
HEXACHLOROBUTADIENE	330	5400 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	5400 U	UG/KG
HEXACHLOROETHANE	330	5400 U	UG/KG
ISOPHORONE	330	5400 U	UG/KG
2-METHYLNAPHTHALENE	330	5400 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 15.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	28000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	5400 U	UG/KG
2-METHYLPHENOL	330	5400 U	UG/KG
4-METHYLPHENOL	330	5400 U	UG/KG
NAPHTHALENE	330	5400 U	UG/KG
2-NITROANILINE	1700	28000 U	UG/KG
3-NITROANILINE	1700	28000 U	UG/KG
4-NITROANILINE	1700	28000 U	UG/KG
NITROBENZENE	330	5400 U	UG/KG
2-NITROPHENOL	330	5400 U	UG/KG
4-NITROPHENOL	1700	28000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	5400 U	UG/KG
DI-N-OCTYL PHTHALATE	330	5400 U	UG/KG
PENTACHLOROPHENOL	1700	28000 U	UG/KG
PHENANTHRENE	330	980 J	UG/KG
PHENOL	330	5400 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	5400 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	5400 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	5400 U	UG/KG
PYRENE	330	1000 J	UG/KG
2,4,6-TRICHLOROPHENOL	330	5400 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	5400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	D	%
NITROBENZENE-d5	(27 - 130 %)	D	%
PHENOL-d6	(10 - 133 %)	D	%
2-FLUOROBIPHENYL	(32 - 130 %)	D	%
2-FLUOROPHENOL	(10 - 130 %)	D	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	D	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 15.00			Dry Weight
ACENAPHTHENE	330	5400 U	UG/KG
ACENAPHTHYLENE	330	5400 U	UG/KG
ACETOPHENONE	330	5400 U	UG/KG
ANTHRACENE	330	5400 U	UG/KG
ATRAZINE	330	5400 U	UG/KG
BENZALDEHYDE	330	5400 U	UG/KG
BENZO(A)ANTHRACENE	330	5400 U	UG/KG
BENZO(A)PYRENE	330	5400 U	UG/KG
BENZO(B)FLUORANTHENE	330	5400 U	UG/KG
BENZO(G,H,I)PERYLENE	330	5400 U	UG/KG
BENZO(K)FLUORANTHENE	330	5400 U	UG/KG
1,1'-BIPHENYL	330	5400 U	UG/KG
BUTYL BENZYL PHTHALATE	330	5400 U	UG/KG
DI-N-BUTYLPHTHALATE	330	5400 U	UG/KG
CAPROLACTAM	330	5400 U	UG/KG
CARBAZOLE	330	5400 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	5400 U	UG/KG
4-CHLOROANILINE	330	5400 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	5400 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	5400 U	UG/KG
2-CHLORONAPHTHALENE	330	5400 U	UG/KG
2-CHLOROPHENOL	330	5400 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	5400 U	UG/KG
CHRYSENE	330	5400 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	5400 U	UG/KG
DIBENZOFURAN	330	5400 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	5400 U	UG/KG
2,4-DICHLOROPHENOL	330	5400 U	UG/KG
DIETHYLPHTHALATE	330	5400 U	UG/KG
DIMETHYL PHTHALATE	330	5400 U	UG/KG
2,4-DIMETHYLPHENOL	330	5400 U	UG/KG
2,4-DINITROPHENOL	1700	28000 U	UG/KG
2,4-DINITROTOLUENE	330	5400 U	UG/KG
2,6-DINITROTOLUENE	330	5400 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	5400 U	UG/KG
FLUORANTHENE	330	950 J	UG/KG
FLUORENE	330	5400 U	UG/KG
HEXACHLOROBENZENE	330	5400 U	UG/KG
HEXACHLOROBUTADIENE	330	5400 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	5400 U	UG/KG
HEXACHLOROETHANE	330	5400 U	UG/KG
ISOPHORONE	330	5400 U	UG/KG
2-METHYLNAPHTHALENE	330	5400 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 15.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	28000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	5400 U	UG/KG
2-METHYLPHENOL	330	5400 U	UG/KG
4-METHYLPHENOL	330	5400 U	UG/KG
NAPHTHALENE	330	5400 U	UG/KG
2-NITROANILINE	1700	28000 U	UG/KG
3-NITROANILINE	1700	28000 U	UG/KG
4-NITROANILINE	1700	28000 U	UG/KG
NITROBENZENE	330	5400 U	UG/KG
2-NITROPHENOL	330	5400 U	UG/KG
4-NITROPHENOL	1700	28000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	5400 U	UG/KG
DI-N-OCTYL PHTHALATE	330	5400 U	UG/KG
PENTACHLOROPHENOL	1700	28000 U	UG/KG
PHENANTHRENE	330	740 J	UG/KG
PHENOL	330	5400 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	5400 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	5400 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	5400 U	UG/KG
PYRENE	330	790 J	UG/KG
2,4,6-TRICHLOROPHENOL	330	5400 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	5400 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	D	%
NITROBENZENE-d5	(27 - 130 %)	D	%
PHENOL-d6	(10 - 133 %)	D	%
2-FLUOROBIPHENYL	(32 - 130 %)	D	%
2-FLUOROPHENOL	(10 - 130 %)	D	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	D	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 89.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ACENAPHTHENE	330	3700 U	UG/KG
ACENAPHTHYLENE	330	3700 U	UG/KG
ACETOPHENONE	330	3700 U	UG/KG
ANTHRACENE	330	450 J	UG/KG
ATRAZINE	330	3700 U	UG/KG
BENZALDEHYDE	330	3700 U	UG/KG
BENZO(A)ANTHRACENE	330	750 J	UG/KG
BENZO(A)PYRENE	330	570 J	UG/KG
BENZO(B)FLUORANTHENE	330	700 J	UG/KG
BENZO(G,H,I)PERYLENE	330	490 J	UG/KG
BENZO(K)FLUORANTHENE	330	580 J	UG/KG
1,1'-BIPHENYL	330	3700 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3700 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3700 U	UG/KG
CAPROLACTAM	330	3700 U	UG/KG
CARBAZOLE	330	3700 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	450 J	UG/KG
4-CHLOROANILINE	330	3700 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	3700 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	3700 U	UG/KG
2-CHLORONAPHTHALENE	330	3700 U	UG/KG
2-CHLOROPHENOL	330	3700 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	3700 U	UG/KG
CHRYSENE	330	830 J	UG/KG
DIBENZO(A,H)ANTHRACENE	330	3700 U	UG/KG
DIBENZOFURAN	330	3700 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	3700 U	UG/KG
2,4-DICHLOROPHENOL	330	3700 U	UG/KG
DIETHYLPHTHALATE	330	3700 U	UG/KG
DIMETHYL PHTHALATE	330	3700 U	UG/KG
2,4-DIMETHYLPHENOL	330	3700 U	UG/KG
2,4-DINITROPHENOL	1700	19000 U	UG/KG
2,4-DINITROTOLUENE	330	3700 U	UG/KG
2,6-DINITROTOLUENE	330	3700 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	3700 U	UG/KG
FLUORANTHENE	330	2000 J	UG/KG
FLUORENE	330	3700 U	UG/KG
HEXACHLOROBENZENE	330	3700 U	UG/KG
HEXACHLOROBUTADIENE	330	3700 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3700 U	UG/KG
HEXACHLOROETHANE	330	3700 U	UG/KG
ISOPHORONE	330	3700 U	UG/KG
2-METHYLNAPHTHALENE	330	3700 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 89.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	19000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	3700 U	UG/KG
2-METHYLPHENOL	330	3700 U	UG/KG
4-METHYLPHENOL	330	3700 U	UG/KG
NAPHTHALENE	330	3700 U	UG/KG
2-NITROANILINE	1700	19000 U	UG/KG
3-NITROANILINE	1700	19000 U	UG/KG
4-NITROANILINE	1700	19000 U	UG/KG
NITROBENZENE	330	3700 U	UG/KG
2-NITROPHENOL	330	3700 U	UG/KG
4-NITROPHENOL	1700	19000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3700 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3700 U	UG/KG
PENTACHLOROPHENOL	1700	19000 U	UG/KG
PHENANTHRENE	330	1700 J	UG/KG
PHENOL	330	3700 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3700 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3700 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3700 U	UG/KG
PYRENE	330	1500 J	UG/KG
2,4,6-TRICHLOROPHENOL	330	3700 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	3700 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	90	%
NITROBENZENE-d5	(27 - 130 %)	78	%
PHENOL-d6	(10 - 133 %)	64	%
2-FLUOROBIPHENYL	(32 - 130 %)	88	%
2-FLUOROPHENOL	(10 - 130 %)	23	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	3 *	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 92.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 15.00			Dry Weight
ACENAPHTHENE	330	5300 U	UG/KG
ACENAPHTHYLENE	330	5300 U	UG/KG
ACETOPHENONE	330	5300 U	UG/KG
ANTHRACENE	330	5300 U	UG/KG
ATRAZINE	330	5300 U	UG/KG
BENZALDEHYDE	330	5300 U	UG/KG
BENZO(A)ANTHRACENE	330	5300 U	UG/KG
BENZO(A)PYRENE	330	5300 U	UG/KG
BENZO(B)FLUORANTHENE	330	5300 U	UG/KG
BENZO(G,H,I)PERYLENE	330	5300 U	UG/KG
BENZO(K)FLUORANTHENE	330	5300 U	UG/KG
1,1'-BIPHENYL	330	5300 U	UG/KG
BUTYL BENZYL PHTHALATE	330	5300 U	UG/KG
DI-N-BUTYLPHTHALATE	330	5300 U	UG/KG
CAPROLACTAM	330	5300 U	UG/KG
CARBAZOLE	330	5300 U	UG/KG
INDENO(1,2,3-CD)PYRENE	330	5300 U	UG/KG
4-CHLOROANILINE	330	5300 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	5300 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	5300 U	UG/KG
2-CHLORONAPHTHALENE	330	5300 U	UG/KG
2-CHLOROPHENOL	330	5300 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	5300 U	UG/KG
CHRYSENE	330	5300 U	UG/KG
DIBENZO(A,H)ANTHRACENE	330	5300 U	UG/KG
DIBENZOFURAN	330	5300 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	5300 U	UG/KG
2,4-DICHLOROPHENOL	330	5300 U	UG/KG
DIETHYLPHTHALATE	330	5300 U	UG/KG
DIMETHYL PHTHALATE	330	5300 U	UG/KG
2,4-DIMETHYLPHENOL	330	5300 U	UG/KG
2,4-DINITROPHENOL	1700	28000 U	UG/KG
2,4-DINITROTOLUENE	330	5300 U	UG/KG
2,6-DINITROTOLUENE	330	5300 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	5300 U	UG/KG
FLUORANTHENE	330	1200 J	UG/KG
FLUORENE	330	5300 U	UG/KG
HEXACHLOROBENZENE	330	5300 U	UG/KG
HEXACHLOROBUTADIENE	330	5300 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	5300 U	UG/KG
HEXACHLOROETHANE	330	5300 U	UG/KG
ISOPHORONE	330	5300 U	UG/KG
2-METHYLNAPHTHALENE	330	5300 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 92.7

DATE EXTRACTED : 03/12/08
DATE ANALYZED : 03/12/08
ANALYTICAL DILUTION: 15.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	28000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	5300 U	UG/KG
2-METHYLPHENOL	330	5300 U	UG/KG
4-METHYLPHENOL	330	5300 U	UG/KG
NAPHTHALENE	330	5300 U	UG/KG
2-NITROANILINE	1700	28000 U	UG/KG
3-NITROANILINE	1700	28000 U	UG/KG
4-NITROANILINE	1700	28000 U	UG/KG
NITROBENZENE	330	5300 U	UG/KG
2-NITROPHENOL	330	5300 U	UG/KG
4-NITROPHENOL	1700	28000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	5300 U	UG/KG
DI-N-OCTYL PHTHALATE	330	5300 U	UG/KG
PENTACHLOROPHENOL	1700	28000 U	UG/KG
PHENANTHRENE	330	1000 J	UG/KG
PHENOL	330	5300 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	5300 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	5300 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	5300 U	UG/KG
PYRENE	330	900 J	UG/KG
2,4,6-TRICHLOROPHENOL	330	5300 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	5300 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	D	%
NITROBENZENE-d5	(27 - 130 %)	D	%
PHENOL-d6	(10 - 133 %)	D	%
2-FLUOROBIPHENYL	(32 - 130 %)	D	%
2-FLUOROPHENOL	(10 - 130 %)	D	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	D	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 90.7

DATE EXTRACTED : 03/12/08
DATE ANALYZED : 03/12/08
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ACENAPHTHENE	330	1000 J	UG/KG
ACENAPHTHYLENE	330	360 J	UG/KG
ACETOPHENONE	330	3600 U	UG/KG
ANTHRACENE	330	2500 J	UG/KG
ATRAZINE	330	3600 U	UG/KG
BENZALDEHYDE	330	3600 U	UG/KG
BENZO(A)ANTHRACENE	330	2800 J	UG/KG
BENZO(A)PYRENE	330	2300 J	UG/KG
BENZO(B)FLUORANTHENE	330	2000 J	UG/KG
BENZO(G,H,I)PERYLENE	330	1200 J	UG/KG
BENZO(K)FLUORANTHENE	330	1800 J	UG/KG
1,1'-BIPHENYL	330	3600 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3600 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3600 U	UG/KG
CAPROLACTAM	330	3600 U	UG/KG
CARBAZOLE	330	550 J	UG/KG
INDENO(1,2,3-CD)PYRENE	330	1200 J	UG/KG
4-CHLOROANILINE	330	3600 U	UG/KG
BIS(-2-CHLOROETHOXY)METHANE	330	3600 U	UG/KG
BIS(2-CHLOROETHYL)ETHER	330	3600 U	UG/KG
2-CHLORONAPHTHALENE	330	3600 U	UG/KG
2-CHLOROPHENOL	330	3600 U	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	330	3600 U	UG/KG
CHRYSENE	330	2900 J	UG/KG
DIBENZO(A,H)ANTHRACENE	330	3600 U	UG/KG
DIBENZOFURAN	330	880 J	UG/KG
3,3'-DICHLOROBENZIDINE	330	3600 U	UG/KG
2,4-DICHLOROPHENOL	330	3600 U	UG/KG
DIETHYLPHTHALATE	330	3600 U	UG/KG
DIMETHYL PHTHALATE	330	3600 U	UG/KG
2,4-DIMETHYLPHENOL	330	3600 U	UG/KG
2,4-DINITROPHENOL	1700	19000 U	UG/KG
2,4-DINITROTOLUENE	330	3600 U	UG/KG
2,6-DINITROTOLUENE	330	3600 U	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	330	3600 U	UG/KG
FLUORANTHENE	330	7700	UG/KG
FLUORENE	330	1400 J	UG/KG
HEXACHLOROBENZENE	330	3600 U	UG/KG
HEXACHLOROBUTADIENE	330	3600 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3600 U	UG/KG
HEXACHLOROETHANE	330	3600 U	UG/KG
ISOPHORONE	330	3600 U	UG/KG
2-METHYLNAPHTHALENE	330	490 J	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 90.7

DATE EXTRACTED : 03/12/08
DATE ANALYZED : 03/12/08
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	19000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	3600 U	UG/KG
2-METHYLPHENOL	330	3600 U	UG/KG
4-METHYLPHENOL	330	3600 U	UG/KG
NAPHTHALENE	330	410 J	UG/KG
2-NITROANILINE	1700	19000 U	UG/KG
3-NITROANILINE	1700	19000 U	UG/KG
4-NITROANILINE	1700	19000 U	UG/KG
NITROBENZENE	330	3600 U	UG/KG
2-NITROPHENOL	330	3600 U	UG/KG
4-NITROPHENOL	1700	19000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3600 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3600 U	UG/KG
PENTACHLOROPHENOL	1700	19000 U	UG/KG
PHENANTHRENE	330	8600	UG/KG
PHENOL	330	3600 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3600 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3600 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3600 U	UG/KG
PYRENE	330	5600	UG/KG
2,4,6-TRICHLOROPHENOL	330	3600 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	3600 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	86	%
NITROBENZENE-d5	(27 - 130 %)	71	%
PHENOL-d6	(10 - 133 %)	64	%
2-FLUOROBIPHENYL	(32 - 130 %)	80	%
2-FLUOROPHENOL	(10 - 130 %)	37	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	5 *	%

COLUMBIA ANALYTICAL SERVICES

Reported: 03/17/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
METALS						
ALUMINUM	6010B	10.0	5780	MG/KG	03/13/08	1.0
ANTIMONY	6010B	6.00	6.81 U	MG/KG	03/13/08	1.0
ARSENIC	6010B	1.00	2.05	MG/KG	03/14/08	1.0
BARIUM	6010B	2.00	46.3	MG/KG	03/13/08	1.0
BERYLLIUM	6010B	0.500	0.568 U	MG/KG	03/13/08	1.0
CADMIUM	6010B	0.500	0.568 U	MG/KG	03/13/08	1.0
CALCIUM	6010B	100	60000	MG/KG	03/14/08	10.0
CHROMIUM	6010B	1.00	15.0	MG/KG	03/13/08	1.0
COBALT	6010B	5.00	5.68 U	MG/KG	03/13/08	1.0
COPPER	6010B	2.00	23.2	MG/KG	03/13/08	1.0
IRON	6010B	10.0	8770	MG/KG	03/14/08	1.0
LEAD	6010B	5.00	31.1	MG/KG	03/13/08	1.0
MAGNESIUM	6010B	100	11000	MG/KG	03/13/08	1.0
MANGANESE	6010B	1.00	185	MG/KG	03/13/08	1.0
MERCURY	7471A	0.0500	0.0568 U	MG/KG	03/12/08	1.0
NICKEL	6010B	4.00	8.74	MG/KG	03/13/08	1.0
POTASSIUM	6010B	200	924	MG/KG	03/14/08	1.0
SELENIUM	6010B	1.00	1.14 U	MG/KG	03/13/08	1.0
SILVER	6010B	1.00	1.14 U	MG/KG	03/13/08	1.0
SODIUM	6010B	100	346	MG/KG	03/14/08	1.0
THALLIUM	6010B	1.00	1.14 U	MG/KG	03/13/08	1.0
VANADIUM	6010B	5.00	18.3	MG/KG	03/13/08	1.0
ZINC	6010B	2.00	49.5	MG/KG	03/13/08	1.0
WET CHEMISTRY						
PERCENT SOLIDS	160.3M	1.00	88.1	%	03/12/08 14:50	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
METALS						
ALUMINUM	6010B	10.0	5480	MG/KG	03/13/08	1.0
ANTIMONY	6010B	6.00	6.58 U	MG/KG	03/13/08	1.0
ARSENIC	6010B	1.00	1.10 U	MG/KG	03/14/08	1.0
BARIUM	6010B	2.00	40.9	MG/KG	03/13/08	1.0
BERYLLIUM	6010B	0.500	0.548 U	MG/KG	03/13/08	1.0
CADMIUM	6010B	0.500	0.548 U	MG/KG	03/13/08	1.0
CALCIUM	6010B	100	36000	MG/KG	03/14/08	1.0
CHROMIUM	6010B	1.00	13.4	MG/KG	03/13/08	1.0
COBALT	6010B	5.00	5.48 U	MG/KG	03/13/08	1.0
COPPER	6010B	2.00	26.8	MG/KG	03/13/08	1.0
IRON	6010B	10.0	9770	MG/KG	03/14/08	1.0
LEAD	6010B	5.00	32.1	MG/KG	03/13/08	1.0
MAGNESIUM	6010B	100	4730	MG/KG	03/13/08	1.0
MANGANESE	6010B	1.00	150	MG/KG	03/13/08	1.0
MERCURY	7471A	0.0500	0.0548 U	MG/KG	03/12/08	1.0
NICKEL	6010B	4.00	9.77	MG/KG	03/13/08	1.0
POTASSIUM	6010B	200	885	MG/KG	03/14/08	1.0
SELENIUM	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
SILVER	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
SODIUM	6010B	100	317	MG/KG	03/14/08	1.0
THALLIUM	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
VANADIUM	6010B	5.00	24.5	MG/KG	03/13/08	1.0
ZINC	6010B	2.00	43.9	MG/KG	03/13/08	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
METALS						
ALUMINUM	6010B	10.0	5560	MG/KG	03/13/08	1.0
ANTIMONY	6010B	6.00	6.56 U	MG/KG	03/13/08	1.0
ARSENIC	6010B	1.00	1.09 U	MG/KG	03/13/08	1.0
BARIUM	6010B	2.00	39.2	MG/KG	03/13/08	1.0
BERYLLIUM	6010B	0.500	0.547 U	MG/KG	03/13/08	1.0
CADMIUM	6010B	0.500	0.547 U	MG/KG	03/13/08	1.0
CALCIUM	6010B	100	47800	MG/KG	03/14/08	1.0
CHROMIUM	6010B	1.00	14.6	MG/KG	03/13/08	1.0
COBALT	6010B	5.00	5.47 U	MG/KG	03/13/08	1.0
COPPER	6010B	2.00	28.9	MG/KG	03/13/08	1.0
IRON	6010B	10.0	9770	MG/KG	03/14/08	1.0
LEAD	6010B	5.00	28.4	MG/KG	03/13/08	1.0
MAGNESIUM	6010B	100	8400	MG/KG	03/13/08	1.0
MANGANESE	6010B	1.00	144	MG/KG	03/13/08	1.0
MERCURY	7471A	0.0500	0.0718	MG/KG	03/12/08	1.0
NICKEL	6010B	4.00	7.94	MG/KG	03/13/08	1.0
POTASSIUM	6010B	200	931	MG/KG	03/14/08	1.0
SELENIUM	6010B	1.00	1.09 U	MG/KG	03/13/08	1.0
SILVER	6010B	1.00	1.09 U	MG/KG	03/13/08	1.0
SODIUM	6010B	100	289	MG/KG	03/14/08	1.0
THALLIUM	6010B	1.00	1.09 U	MG/KG	03/13/08	1.0
VANADIUM	6010B	5.00	20.7	MG/KG	03/13/08	1.0
ZINC	6010B	2.00	43.4	MG/KG	03/13/08	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
METALS						
ALUMINUM	6010B	10.0	5920	MG/KG	03/13/08	1.0
ANTIMONY	6010B	6.00	6.73 U	MG/KG	03/13/08	1.0
ARSENIC	6010B	1.00	2.59	MG/KG	03/13/08	1.0
BARIUM	6010B	2.00	48.3	MG/KG	03/13/08	1.0
BERYLLIUM	6010B	0.500	0.561 U	MG/KG	03/13/08	1.0
CADMIUM	6010B	0.500	0.561 U	MG/KG	03/13/08	1.0
CALCIUM	6010B	100	44300	MG/KG	03/14/08	1.0
CHROMIUM	6010B	1.00	14.5	MG/KG	03/13/08	1.0
COBALT	6010B	5.00	5.61 U	MG/KG	03/13/08	1.0
COPPER	6010B	2.00	19.5	MG/KG	03/13/08	1.0
IRON	6010B	10.0	9410	MG/KG	03/14/08	1.0
LEAD	6010B	5.00	35.0	MG/KG	03/13/08	1.0
MAGNESIUM	6010B	100	6270	MG/KG	03/13/08	1.0
MANGANESE	6010B	1.00	146	MG/KG	03/13/08	1.0
MERCURY	7471A	0.0500	0.0561 U	MG/KG	03/12/08	1.0
NICKEL	6010B	4.00	10.1	MG/KG	03/13/08	1.0
POTASSIUM	6010B	200	778	MG/KG	03/14/08	1.0
SELENIUM	6010B	1.00	1.12 U	MG/KG	03/13/08	1.0
SILVER	6010B	1.00	1.12 U	MG/KG	03/13/08	1.0
SODIUM	6010B	100	298	MG/KG	03/14/08	1.0
THALLIUM	6010B	1.00	1.12 U	MG/KG	03/13/08	1.0
VANADIUM	6010B	5.00	27.8	MG/KG	03/13/08	1.0
ZINC	6010B	2.00	45.3	MG/KG	03/13/08	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
METALS						
ALUMINUM	6010B	10.0	5730	MG/KG	03/13/08	1.0
ANTIMONY	6010B	6.00	6.47 U	MG/KG	03/13/08	1.0
ARSENIC	6010B	1.00	2.31	MG/KG	03/13/08	1.0
BARIUM	6010B	2.00	47.0	MG/KG	03/13/08	1.0
BERYLLIUM	6010B	0.500	0.539 U	MG/KG	03/13/08	1.0
CADMIUM	6010B	0.500	0.539 U	MG/KG	03/13/08	1.0
CALCIUM	6010B	100	81800	MG/KG	03/14/08	10.0
CHROMIUM	6010B	1.00	14.5	MG/KG	03/13/08	1.0
COBALT	6010B	5.00	5.39 U	MG/KG	03/13/08	1.0
COPPER	6010B	2.00	16.0	MG/KG	03/13/08	1.0
IRON	6010B	10.0	9040	MG/KG	03/14/08	1.0
LEAD	6010B	5.00	27.5	MG/KG	03/13/08	1.0
MAGNESIUM	6010B	100	15100	MG/KG	03/13/08	1.0
MANGANESE	6010B	1.00	156	MG/KG	03/13/08	1.0
MERCURY	7471A	0.0500	0.0579	MG/KG	03/12/08	1.0
NICKEL	6010B	4.00	8.64	MG/KG	03/13/08	1.0
POTASSIUM	6010B	200	689	MG/KG	03/14/08	1.0
SELENIUM	6010B	1.00	1.08 U	MG/KG	03/13/08	1.0
SILVER	6010B	1.00	1.08 U	MG/KG	03/13/08	1.0
SODIUM	6010B	100	276	MG/KG	03/14/08	1.0
THALLIUM	6010B	1.00	1.08 U	MG/KG	03/13/08	1.0
VANADIUM	6010B	5.00	22.1	MG/KG	03/13/08	1.0
ZINC	6010B	2.00	45.1	MG/KG	03/13/08	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
METALS						
ALUMINUM	6010B	10.0	3940	MG/KG	03/13/08	1.0
ANTIMONY	6010B	6.00	6.62 U	MG/KG	03/13/08	1.0
ARSENIC	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
BARIUM	6010B	2.00	29.7	MG/KG	03/13/08	1.0
BERYLLIUM	6010B	0.500	0.551 U	MG/KG	03/13/08	1.0
CADMIUM	6010B	0.500	0.551 U	MG/KG	03/13/08	1.0
CALCIUM	6010B	100	45300	MG/KG	03/14/08	1.0
CHROMIUM	6010B	1.00	11.2	MG/KG	03/13/08	1.0
COBALT	6010B	5.00	5.51 U	MG/KG	03/13/08	1.0
COPPER	6010B	2.00	11.0	MG/KG	03/13/08	1.0
IRON	6010B	10.0	6700	MG/KG	03/14/08	1.0
LEAD	6010B	5.00	21.4	MG/KG	03/13/08	1.0
MAGNESIUM	6010B	100	11000	MG/KG	03/13/08	1.0
MANGANESE	6010B	1.00	111	MG/KG	03/13/08	1.0
MERCURY	7471A	0.0500	0.0551 U	MG/KG	03/12/08	1.0
NICKEL	6010B	4.00	6.99	MG/KG	03/13/08	1.0
POTASSIUM	6010B	200	719	MG/KG	03/14/08	1.0
SELENIUM	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
SILVER	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
SODIUM	6010B	100	176	MG/KG	03/14/08	1.0
THALLIUM	6010B	1.00	1.10 U	MG/KG	03/13/08	1.0
VANADIUM	6010B	5.00	19.0	MG/KG	03/13/08	1.0
ZINC	6010B	2.00	34.0	MG/KG	03/13/08	1.0

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 88.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ALDRIN	1.7	19 U	UG/KG
ALPHA-BHC	1.7	19 U	UG/KG
BETA-BHC	1.7	19 U	UG/KG
DELTA-BHC	1.7	19 U	UG/KG
GAMMA-BHC (LINDANE)	1.7	19 U	UG/KG
CHLORDANE	8.3	360	UG/KG
4,4'-DDD	3.3	37 U	UG/KG
4,4'-DDE	3.3	37 U	UG/KG
4,4'-DDT	3.3	37 U	UG/KG
DIELDRIN	3.3	37 U	UG/KG
ALPHA-ENDOSULFAN	1.7	19 U	UG/KG
BETA-ENDOSULFAN	3.3	37 U	UG/KG
ENDOSULFAN SULFATE	3.3	37 U	UG/KG
ENDRIN	3.3	37 U	UG/KG
ENDRIN ALDEHYDE	3.3	37 U	UG/KG
ENDRIN KETONE	3.3	37 U	UG/KG
HEPTACHLOR	1.7	19 U	UG/KG
HEPTACHLOR EPOXIDE	1.7	19 U	UG/KG
METHOXYCHLOR	17	190 U	UG/KG
TOXAPHENE	33	370 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(18 - 176 %)	103	%
TETRACHLORO-META-XYLENE (TCMX)	(24 - 136 %)	83	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.2

DATE EXTRACTED : 03/12/08
DATE ANALYZED : 03/13/08
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
			Dry Weight
ALDRIN	1.7	19 U	UG/KG
ALPHA-BHC	1.7	19 U	UG/KG
BETA-BHC	1.7	19 U	UG/KG
DELTA-BHC	1.7	19 U	UG/KG
GAMMA-BHC (LINDANE)	1.7	19 U	UG/KG
CHLORDANE	8.3	390	UG/KG
4,4'-DDD	3.3	36 U	UG/KG
4,4'-DDE	3.3	36 U	UG/KG
4,4'-DDT	3.3	36 U	UG/KG
DIELDRIN	3.3	36 U	UG/KG
ALPHA-ENDOSULFAN	1.7	19 U	UG/KG
BETA-ENDOSULFAN	3.3	36 U	UG/KG
ENDOSULFAN SULFATE	3.3	36 U	UG/KG
ENDRIN	3.3	36 U	UG/KG
ENDRIN ALDEHYDE	3.3	36 U	UG/KG
ENDRIN KETONE	3.3	36 U	UG/KG
HEPTACHLOR	1.7	19 U	UG/KG
HEPTACHLOR EPOXIDE	1.7	19 U	UG/KG
METHOXYCHLOR	17	190 U	UG/KG
TOXAPHENE	33	360 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(18 - 176 %)	89	%
TETRACHLORO-META-XYLENE (TCMX)	(24 - 136 %)	75	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ALDRIN	1.7	19 U	UG/KG
ALPHA-BHC	1.7	19 U	UG/KG
BETA-BHC	1.7	19 U	UG/KG
DELTA-BHC	1.7	19 U	UG/KG
GAMMA-BHC (LINDANE)	1.7	19 U	UG/KG
CHLORDANE	8.3	590	UG/KG
4,4'-DDD	3.3	36 U	UG/KG
4,4'-DDE	3.3	36 U	UG/KG
4,4'-DDT	3.3	36 U	UG/KG
DIELDRIN	3.3	36 U	UG/KG
ALPHA-ENDOSULFAN	1.7	19 U	UG/KG
BETA-ENDOSULFAN	3.3	36 U	UG/KG
ENDOSULFAN SULFATE	3.3	36 U	UG/KG
ENDRIN	3.3	36 U	UG/KG
ENDRIN ALDEHYDE	3.3	36 U	UG/KG
ENDRIN KETONE	3.3	36 U	UG/KG
HEPTACHLOR	1.7	19 U	UG/KG
HEPTACHLOR EPOXIDE	1.7	19 U	UG/KG
METHOXYCHLOR	17	190 U	UG/KG
TOXAPHENE	33	360 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(18 - 176 %)	87	%
TETRACHLORO-META-XYLENE (TCMX)	(24 - 136 %)	74	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 89.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ALDRIN	1.7	43	UG/KG
ALPHA-BHC	1.7	19 U	UG/KG
BETA-BHC	1.7	19 U	UG/KG
DELTA-BHC	1.7	19 U	UG/KG
GAMMA-BHC (LINDANE)	1.7	19 U	UG/KG
CHLORDANE	8.3	480	UG/KG
4,4'-DDD	3.3	37 U	UG/KG
4,4'-DDE	3.3	37 U	UG/KG
4,4'-DDT	3.3	37 U	UG/KG
DIELDRIN	3.3	37 U	UG/KG
ALPHA-ENDOSULFAN	1.7	19 U	UG/KG
BETA-ENDOSULFAN	3.3	37 U	UG/KG
ENDOSULFAN SULFATE	3.3	37 U	UG/KG
ENDRIN	3.3	37 U	UG/KG
ENDRIN ALDEHYDE	3.3	37 U	UG/KG
ENDRIN KETONE	3.3	37 U	UG/KG
HEPTACHLOR	1.7	19 U	UG/KG
HEPTACHLOR EPOXIDE	1.7	19 U	UG/KG
METHOXYCHLOR	17	190 U	UG/KG
TOXAPHENE	33	370 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(18 - 176 %)	101	%
TETRACHLORO-META-XYLENE (TCMX)	(24 - 136 %)	80	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 92.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ALDRIN	1.7	18 U	UG/KG
ALPHA-BHC	1.7	18 U	UG/KG
BETA-BHC	1.7	18 U	UG/KG
DELTA-BHC	1.7	18 U	UG/KG
GAMMA-BHC (LINDANE)	1.7	18 U	UG/KG
CHLORDANE	8.3	440	UG/KG
4,4'-DDD	3.3	36 U	UG/KG
4,4'-DDE	3.3	36 U	UG/KG
4,4'-DDT	3.3	36 U	UG/KG
DIELDRIN	3.3	36 U	UG/KG
ALPHA-ENDOSULFAN	1.7	18 U	UG/KG
BETA-ENDOSULFAN	3.3	36 U	UG/KG
ENDOSULFAN SULFATE	3.3	36 U	UG/KG
ENDRIN	3.3	36 U	UG/KG
ENDRIN ALDEHYDE	3.3	36 U	UG/KG
ENDRIN KETONE	3.3	36 U	UG/KG
HEPTACHLOR	1.7	18 U	UG/KG
HEPTACHLOR EPOXIDE	1.7	18 U	UG/KG
METHOXYCHLOR	17	180 U	UG/KG
TOXAPHENE	33	360 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(18 - 176 %)	92	%
TETRACHLORO-META-XYLENE (TCMX)	(24 - 136 %)	75	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8081A
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 90.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/13/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ALDRIN	1.7	19 U	UG/KG
ALPHA-BHC	1.7	19 U	UG/KG
BETA-BHC	1.7	19 U	UG/KG
DELTA-BHC	1.7	19 U	UG/KG
GAMMA-BHC (LINDANE)	1.7	19 U	UG/KG
CHLORDANE	8.3	280	UG/KG
4,4'-DDD	3.3	36 U	UG/KG
4,4'-DDE	3.3	36 U	UG/KG
4,4'-DDT	3.3	36 U	UG/KG
DIELDRIN	3.3	36 U	UG/KG
ALPHA-ENDOSULFAN	1.7	19 U	UG/KG
BETA-ENDOSULFAN	3.3	36 U	UG/KG
ENDOSULFAN SULFATE	3.3	36 U	UG/KG
ENDRIN	3.3	36 U	UG/KG
ENDRIN ALDEHYDE	3.3	36 U	UG/KG
ENDRIN KETONE	3.3	36 U	UG/KG
HEPTACHLOR	1.7	19 U	UG/KG
HEPTACHLOR EPOXIDE	1.7	19 U	UG/KG
METHOXYCHLOR	17	190 U	UG/KG
TOXAPHENE	33	360 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL (DCB)	(18 - 176 %)	87	%
TETRACHLORO-META-XYLENE (TCMX)	(24 - 136 %)	78	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-01

Date Sampled : 03/10/08 12:55 **Order #:** 1082405 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 88.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	37 U	UG/KG
PCB 1221	67	76 U	UG/KG
PCB 1232	33	37 U	UG/KG
PCB 1242	33	37 U	UG/KG
PCB 1248	33	37 U	UG/KG
PCB 1254	33	37 U	UG/KG
PCB 1260	33	37 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	75	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	93	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-02

Date Sampled : 03/10/08 13:00 **Order #:** 1082406 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	36 U	UG/KG
PCB 1221	67	73 U	UG/KG
PCB 1232	33	36 U	UG/KG
PCB 1242	33	36 U	UG/KG
PCB 1248	33	36 U	UG/KG
PCB 1254	33	36 U	UG/KG
PCB 1260	33	36 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	66	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	95	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-03

Date Sampled : 03/10/08 13:05 **Order #:** 1082407 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 91.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	36 U	UG/KG
PCB 1221	67	73 U	UG/KG
PCB 1232	33	36 U	UG/KG
PCB 1242	33	36 U	UG/KG
PCB 1248	33	36 U	UG/KG
PCB 1254	33	36 U	UG/KG
PCB 1260	33	36 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	70	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	92	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-04

Date Sampled : 03/10/08 13:10 **Order #:** 1082408 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 89.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	37 U	UG/KG
PCB 1221	67	75 U	UG/KG
PCB 1232	33	37 U	UG/KG
PCB 1242	33	37 U	UG/KG
PCB 1248	33	37 U	UG/KG
PCB 1254	33	37 U	UG/KG
PCB 1260	33	37 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	66	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	96	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-05

Date Sampled : 03/10/08 13:15 **Order #:** 1082409 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 92.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	36 U	UG/KG
PCB 1221	67	72 U	UG/KG
PCB 1232	33	36 U	UG/KG
PCB 1242	33	36 U	UG/KG
PCB 1248	33	36 U	UG/KG
PCB 1254	33	36 U	UG/KG
PCB 1260	33	36 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	63	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	98	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/14/08

ARCADIS of New York
Project Reference: NGC SVE IRM
Client Sample ID : NGSC-BF-RCA-031008-06

Date Sampled : 03/10/08 13:20 **Order #:** 1082410 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 03/11/08 **Submission #:** R2842651 **Percent Solid:** 90.7

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 03/12/08			
DATE ANALYZED : 03/12/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	36 U	UG/KG
PCB 1221	67	74 U	UG/KG
PCB 1232	33	36 U	UG/KG
PCB 1242	33	36 U	UG/KG
PCB 1248	33	36 U	UG/KG
PCB 1254	33	36 U	UG/KG
PCB 1260	33	36 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	62	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	95	%