

**Former Hooker Chemical/Oxy/
Ruco Polymer Corporation Site
125 New South Road
HICKSVILLE, NEW YORK**

**Operable Unit 4
Final Engineering Report**

NYSDEC Site Number: 130004

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SEPTEMBER 2017

CERTIFICATIONS

I, John C. Brussel, am currently a registered professional engineer licensed by the State of New York and I had primary direct responsibility for implementation of the remedial activities performed at the former Hooker Chemical/Oxy/Ruco Polymer Corporation site (“the Site”) during the period between February 2013 and May 2015. Based on my inquiry of the persons under my direction and involved in coordinating and observing the remedial activities summarized herein, I certify that the remedial actions were completed in substantial conformance with the NYSDEC-approved *Remedial Design* (the “RD”; Arcadis, February 2013), the *Remedial Design Addendum* (the “RDA”; Arcadis, August 2014), and the work plan modifications and clarifications included on the attached flash drive together referred to as the RD.

I certify that the data submitted to the NYSDEC in support of this Final Engineering Report demonstrate that the remediation requirements set forth in the RD and RDA, work plan modifications, and applicable statutes and regulations have been achieved in general accordance with the timeframes established for the remedy.

I certify that the use restrictions, Institutional Controls, Engineering Controls, and operation and maintenance requirements applicable to the Site are contained in an Environmental Easement created and recorded pursuant to Environmental Conservation Law (ECL) 71-3605 and that affected local governments, as defined in ECL 71-3603, have been notified that such Environmental Easement has been recorded.

I certify that a Site Management Plan for Operable Unit 4 (OU4) has been submitted for the continual and proper operation, maintenance, and monitoring of the Engineering Controls (soil cover system) employed at the Site and that such plan has been approved by the NYSDEC.

I certify that all documents generated in support of this report have been submitted in accordance with the Division of Environmental Remediation electronic submission protocols and have been accepted by the NYSDEC.

I certify that all data generated in support of this report have been submitted in accordance with the NYSDEC’s electronic data deliverable requirements and have been accepted by the NYSDEC.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, John C. Brussel P.E., of Arcadis of New York, Inc., One Lincoln Center, 110 West Fayette Street, Suite 300, Syracuse, New York, am certifying as the Owner's Designated Site Representative for the Site.



John C. Brussel
Signature

9-25-17
Date

John C. Brussel, P.E.
NYS PE License #075208

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Design Modifications
Remedial Contractor Submittals
Construction-Related Permits
Waste Profiles
Waste Transportation and Disposal Manifests and Weight Tickets
Weekly Construction Progress Reports and Meeting Minutes
Community Air Monitoring Reports
Contractor Pre-Remediation and Post-Remediation Surveys
Excavation Area As-Built Survey Limits
Imported Fill Weight Tickets
Backfill Compaction Test Reports
Laboratory Analytical Data Reports
Data Usability Summary Reports

LIST OF ACRONYMS

ACM	Asbestos-Containing Material
CAMP	Community Air Monitoring Plan
C&D	Construction and Demolition (C&D) Debris
CFR	Code of Federal Regulation
CQAP	Construction Quality Assurance Plan
EC	Engineering Control
ECL	Environmental Conservation Law
EWP	Excavation Work Plan
FS	Feasibility Study
HASP	Health and Safety Plan
IC	Institutional Control
ICM	Interim Corrective Measure
LIRR	Long Island Railroad
NAPL	Non-Aqueous Phase Liquid
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PPM	Parts per million
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
ROD	Record of Decision
ROW	Right-of-Way
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Site Operations Plans
SVI	Soil Vapor Intrusion
SVOCs	Semi-Volatile Organic Compounds
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

FINAL ENGINEERING REPORT

1.0 INTRODUCTION AND BACKGROUND

Bayer MaterialScience LLC (“Bayer”) (now known as Covestro LLC), entered into an Order on Consent (the “Order”) with the New York State Department of Environmental Conservation (NYSDEC) on June 21, 2012 (Index #A1-0781-11-11, Site #130004) to investigate and remediate the former Hooker Chemical/Oxy/Ruco Polymer Corporation site located in Hicksville, New York (the Site). The NYSDEC issued a Record of Decision (ROD) in December 2012 that identified the final remedy for the Site. A Remedial Design (RD) and Remedial Design Addendum (RDA) were subsequently developed and approved by the NYSDEC, and the final remedial action was implemented between February 2013 and May 2015 pursuant to these documents.

The final site remediation was performed under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program (also known as the State Superfund program) administered by the NYSDEC and addressed remaining impacted soil at the Site via excavation/off-site disposal and capping. Earlier remedial activities were performed at the Site by Bayer and/or Occidental Chemical Corporation (Oxy): (1) under state law and the Resource Conservation and Recovery Act (RCRA) Corrective Action program with NYSDEC oversight; and (2) under the federal Superfund program with United States Environmental Protection Agency (USEPA) oversight. Those earlier remedial activities addressed impacted soil, soil vapor, and groundwater at the Site via removal and in-situ treatment. The previous remedial actions performed at the Site with USEPA oversight addressed environmental concerns in Operable Units OU1, OU2, and OU3. The final remedial action summarized herein addressed environmental concerns in Operable Unit OU4.

The focus of this document is the investigation and remediation work performed for Operable Unit OU4, which covers onsite soil and soil vapor. A Site Management Plan for Operable Unit OU4 (the “OU4 SMP”) has already been approved by the NYSDEC. Operable Unit OU5 covers off-site soil vapor concerns. A separate SMP will be prepared for Operable Unit OU5. A brief description of each of the Operable Units and corresponding remediation is provided below in Section 1.3.

An electronic copy of this Final Engineering Report (FER) with all supporting documentation is included on the attached flash drive.

1.1 Site Description

The Site is located in the County of Nassau, New York and is identified as Section 46, Block N, and Lots 30 and 31 on the Nassau County Tax Map #S46-BN-01-22-2009. The Site is situated on an approximately 15.1-acre¹ area bounded by Kalda Lane/Commerce Place to the north, Long Island Railroad (LIRR) to the south, commercial businesses to the east, and New South Road to the west (see Figure 1). The boundaries of the Site are fully described in the Metes and Bounds Survey provided in Appendix A. The site layout/conditions prior to the remedial activities summarized herein are shown on Figure 2 and Drawing 1.

1.2 Site History

The Site was formerly used as a production facility for polyester resin, polyurethane dispersions, and polyvinyl chloride (PVC). The manufacturing facility was originally constructed in 1945 and operations were expanded in subsequent years. The manufacturing facility was previously owned/operated by the Hooker Chemical and Plastic Corporation/Occidental Chemical Corporation (hereinafter referred to as “Oxy”) from 1966 to 1982. The Site was designated as a Superfund site and placed on the National Priorities List (NPL) established under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in 1984. Various soil and groundwater investigation/remedial activities have been implemented since that time. Oxy is solely responsible for all actions required to address compliance with certain issues under various Orders on Consent with the USEPA.

Ruco Polymer Corporation (Ruco) purchased the facility from Oxy in 1982. Ruco was acquired by Sybron Chemical Corporation (Sybron) in 1988. Sybron was, in turn, acquired by Bayer Corporation in 2000. In a 2003 corporate restructuring, Bayer Corporation transferred ownership to Bayer Polymers LLC. Bayer Polymers LLC changed its name to “Bayer MaterialScience LLC” in 2004. As a result of a name change, Bayer MaterialScience LLC is now known as Covestro. Covestro is now an independent entity and owns the Site.

Manufacturing operations were discontinued in 2002. Thereafter, all raw materials, products, and hazardous chemicals were removed from the Site. In addition,

¹ The boundary survey completed for the Environmental Easement determined that the Site was 15.1 acres, but the ROD and other historical site documents indicate the Site is 14 acres.

equipment was decommissioned and tanks/piping were closed pursuant to applicable regulations. All buildings and aboveground structures formerly used in connection with site operations were demolished down to their floor slabs in 2003, except for the Administration Building located in the northern portion of the Site, which was demolished in 2014. Asbestos-containing materials were removed from the buildings and aboveground structures prior to their demolition.

Most subsurface utilities at the Site were abandoned in-place (refer to Figure 3 for the approximate locations of the utilities prior to remedial activities). Sections of the subsurface utilities were later removed when they were within remedial excavation limits (refer to Figure 3 and Drawing 2 for excavation limits). Although subsurface utilities remain at the Site, the utilities have been disconnected at/near the property boundary, as required by the respective utility owner. Some remaining subsurface utilities contain asbestos (e.g., transite pipe).

Blasland, Bouck, & Lee, Inc. (formerly BBL, and now Arcadis) implemented a RCRA Facility Investigation (RFI) on behalf of Bayer in 2004. The basis for the RFI and subsequent remedial and corrective action activities was an onsite RCRA interim status drum storage facility operated by Ruco in the early 1980s. The RFI and interim remedial work at the Site were implemented pursuant to an Order on Consent (Index #R1-20011022-212) between Bayer Corporation and the NYSDEC dated December 9, 2002. That Order was superseded and terminated on June 21, 2012 by a new Order on Consent (Index #A1-0781-11-11) between Bayer and the NYSDEC for the remaining (final) remedial work performed at the Site (OU4) under the State Superfund program.

After above-ground portions of the buildings were demolished, pre-demolition characterization sampling was performed as described in the NYSDEC-approved *Demolition Work Plan* (Arcadis BBL, July 2005). The characterization sampling was performed to evaluate handling requirements for the stockpiled construction and demolition (C&D) debris (from the 2003 building demolition) and the concrete building floor slabs in preparation for “foundation” demolition activities. The sampling determined whether the materials could be reused (as onsite or off-site fill material) or required off-site disposal. The concrete floor slabs and other concrete surfaces, including ramps, driveways, and former equipment/tank pads were demolished in 2005 and 2006 in accordance with the *Demolition Work Plan*. As part of the demolition activities, the underlying concrete foundation materials (e.g., frost walls, spread footers) were demolished and removed to a depth of approximately 2 feet below ground surface (bgs)

(relative to pre-remediation grades)². Foundations extending deeper than 2 feet were left in-place. Part of the foundation demolition in the Plant 1 area was deferred until 2009 when impacted soil in that area, which had been discovered during the foundation demolition activities in 2006, was removed as an interim corrective measure (ICM). Foundations in selected areas were removed to depths greater than 2 feet during the ICMs and subsequent remedial excavation, as follows:

- Many of the spread footer foundations remaining in the Pilot Plant footprint and in the eastern section of the Plant 1 footprint were completely removed during ICMs in those areas in 2006 and 2009, respectively.
- Additional foundations in the Plant 2 and 3 areas were removed during the final remedial activities from 2013 through 2015 where excavations overlapped the building footprints.
- The perimeter foundation below the Administration Building was completely removed in 2014. The concrete sidewalk leading to the front of the building and the ramp alongside the building were left in-place.

After the demolition activities were completed, the impacted concrete C&D debris were transported for proper off-site disposal. Remaining concrete and/or C&D debris that could be reused onsite as backfill (considered “exempt C&D debris”) were crushed and placed into stockpiles. Some of the stockpiles containing exempt C&D debris were used as onsite fill during interim remedial and corrective measure (ICM) activities later in 2006. Details of the handling of the impacted concrete and other C&D debris are presented in the *Demolition Summary Report* (Arcadis BBL, April 2007) previously submitted to NYSDEC.

All but one of the remaining stockpiles of crushed concrete were used as subsurface fill material during the ICM implemented in 2009 (refer to Section 2 for more information on the 2009 ICM and other ICMs). The stockpiled material was used to backfill several of the excavation areas and portions of an onsite sump referred to as Area of Concern (AOC) 30. One of the stockpiles contained polychlorinated biphenyls (PCBs) at concentrations greater than 10 parts per million (ppm) and was therefore removed and transported for off-site disposal during the 2009 ICM.

² The referenced depth is relative to the ground surface at the time demolition was performed. The existing ground surface elevation in the southeastern portion of the Site is lower than it was in 2006 because of re-grading performed during final remedial construction in 2015. Some foundations may be encountered closer than 2 feet below existing grade.

ICMs were implemented at the Site in 2005, 2006, and 2009 and involved removal of approximately 15,500 tons of soil, most of which contained PCBs at concentrations greater than the 50 ppm disposal threshold for a Toxic Substances Control Act- (TSCA-) regulated PCB waste and NYS listed hazardous waste. The impacted soil excavated as part of the ICMs was transported for proper off-site disposal. Following completion of the 2009 ICM, Bayer conducted several delineation/verification sampling programs to support a Corrective Measures Study (CMS) for the Site and to further delineate PCBs, arsenic, and cadmium remaining in soil. Following soil delineation/verification activities, final remedial actions were implemented at the Site between 2013 and 2015 as summarized herein.

1.3 Operable Units

Over time, the Site has been divided into five OUs (OU1 through OU5) for investigation and remediation purposes under various programs. Oxy executed Administrative Consent Orders with the USEPA for the investigation and remediation under OU1, OU2, and OU3. Bayer executed an Order on Consent with the NYSDEC for the investigation and remediation under OU4, and both Oxy and Bayer executed an order for the implementation of the actions required under OU5. An overview of these five OUs and related investigations is presented below.

- OU1 – Onsite Soil and Groundwater: This OU consists of groundwater beneath the Site and soil in four areas, including two sumps/recharge basin areas referred to as AOC Nos. 28 and 29, a former drum storage area north of the sumps, and an area around a nearby groundwater monitoring well. A ROD for this OU was issued by the USEPA in January 1994 (see attached flash drive). The ROD required additional investigation in certain areas, OMM of a groundwater extraction and treatment system, soil flushing within the two sumps (via discharge of treated groundwater and recapture by extraction wells), treatability studies, excavation/off-site disposal of soils within the drum storage area and near an existing monitoring well, and institutional controls.
- OU2 – PCB Soil Removal: This OU consists of soil/debris within four areas, including a “direct-spill area” in the vicinity of the Pilot Plant where heat transfer fluid containing PCBs was released, nearby areas where the fluid was tracked, a sump/recharge basin that received surface water runoff from the vicinity of the Pilot Plant (AOC 30), and former soil stockpile areas east and south of the Pilot

Plant. A Remedial Investigation/Feasibility Study (RI/FS) was completed and a ROD was issued by USEPA in September 1990 (see attached flash drive). PCBs and organic constituents were the primary constituents of interest for this OU. The ROD required excavation and off-site treatment and disposal of soil with PCBs at concentrations greater than 10 ppm.

- OU3 – Off-Site Groundwater: The pump and treat system under OU1 was eliminated and the off-site groundwater impacts element was transferred to OU3 as an off-site component of the OU3 remedy. The USEPA issued the OU3 ROD in September 2000 (see attached flash drive). Oxy is responsible for site impacts under OU3 with oversight provided by USEPA. The remedial design for OU3 includes biosparging for volatile organic compounds (VOCs), groundwater monitoring and participating in the downgradient Northrop Grumman and Naval Weapons Industrial Reserve Plant (NWIRP) groundwater containment system. Oxy is performing the VOC biosparging program which also includes groundwater and vadose zone monitoring. The USEPA lead action ongoing at the Site under OU3 is preserved and otherwise not negatively impacted from any future site uses.
- OU4 – Onsite Soil and Onsite Soil Vapor: Operable Unit OU4 is the focus of this FER. The OU4 ROD was issued by the NYSDEC in December 2012 (see attached flash drive). OU4 includes all onsite soil and onsite soil vapor not previously addressed by the EPA OU2 ROD. The OU4 ROD was issued pursuant to the State Superfund program and also addresses the outstanding RCRA corrective action issues. The ROD required excavation and off-site disposal of soil with PCBs at concentrations greater than 10 ppm and installation of a 1 foot thick soil cover system to achieve a PCB cleanup level of 1 ppm in surface soil (0 to 1 foot) and 10 ppm in subsurface soil (greater than 1 foot deep). The OU4 remedy also includes all aspects of Site closure, including demolition of the onsite buildings and associated foundations. The OU4 remedy has been implemented, as described in more detail in Section 4.
- OU5 – Off-Site Soil Vapor Intrusion: OU5 addresses the potential for soil vapor intrusion (SVI) at a commercial building immediately east of the Site. The off-site SVI pathway has been evaluated by Oxy and Covestro, and a ROD for mitigating the soil vapor pathway was issued by the NYSDEC on March 31, 2017 (see attached flash drive).

2.0 SUMMARY OF INTERIM REMEDIAL ACTIONS

Several interim remedial actions were performed at the Site after the remedial work performed under USEPA oversight and before the final remedy performed under NYSDEC oversight. These interim remedial actions were performed in accordance with NYSDEC-approved work plans and designs under the RCRA corrective action program, which is consistent with the Inactive Hazardous Waste Disposal Site Program or New York State Superfund Program. Work performed as part of these interim remedial actions is described and summarized in the following plans and reports previously submitted to and approved by NYSDEC:

- *Interim Corrective Measure Work Plan*, (BBL, April 2005)
- *Interim Corrective Measure Certification Report*, (BBL, November 2005)
- *Demolition Work Plan* (BBL, July 2005)
- *Demolition Summary Report* (Arcadis BBL, April 2007)
- *AOC 45 Interim Corrective Measure Soil Removal Work Plan* (Arcadis BBL, January 2006)
- *AOC 45 Interim Corrective Measure Certification Report* (Arcadis BBL, May 2007)
- *Interim Corrective Measure Additional PCB Soil Removal Work Plan*, (Arcadis, November 2008)
- *Interim Corrective Measure Additional PCB Soil Removal Certification Report* (Arcadis, January 2010)

The interim remedial actions were all performed with NYSDEC review and approval. The foundation demolition was also performed in accordance with the requirements of the Town of Oyster Bay demolition permit. Details of these interim remedial actions are provided below.

2.1 2005 Interim Corrective Measure

Work performed as part of the 2005 ICM included the following:

- Removing a 1,000-gallon gasoline steel underground storage tank (UST) located northeast of the former Plant 1 building in (AOC 50).

- Removing standing water from a foundation sump at the southeast end of Plant 1 (AOC 44).
- Removing accumulated debris from the manholes/catch basins, sumps, and floor trenches at the Site associated with AOCs 11, 21B, 38, 40, 42 through 46, and 49.
- Excavating soil within AOC 39 that exhibited PCBs at concentrations above 50 ppm.

Based on the verification soil sampling results for AOC 39, no further action was required for that AOC. In total, approximately 30 cubic yards (CY) of PCB-impacted soil were removed from the AOC 39 excavation and transported for proper off-site disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste.

2.2 2006 Foundation Demolition

Work performed as part of the 2006 foundation demolition included the following:

- Demolishing remaining concrete floor slabs and other concrete surfaces, including ramps, driveways, and former equipment/tank pads to a depth of approximately 2 feet bgs. Aside from the Administration Building located in the northern portion of the Site, all other buildings and aboveground structures formerly used in connection with site operations had been demolished down to their floor slabs in 2003.
- Removing a 1,000-gallon steel UST (AOC 51) (suspected former heating oil tank).
- Pumping approximately 85 gallons of viscous black non-aqueous phase liquid (NAPL) encountered beneath the southwest end of the former Plant 2 building and containerizing the NAPL in steel 55-gallon drums.
- Excavating soil from an area approximately 10 feet wide by 10 feet long to a depth of 4.5 feet below the surrounding grade after removing the NAPL.

Following removal of the NAPL and associated impacted soils, verification soil samples were collected from the excavation limits and submitted for laboratory analysis for PCBs, VOCs, and semi-volatile organic compounds (SVOCs). Based on the analytical results, no additional excavation was required. In total, approximately 17 CY of PCB-impacted soil were removed from the southwest end of the former Plant 2 building area

and transported for off-site disposal as a nonhazardous waste. The drummed NAPL was also transported off-site for treatment/disposal as a non-hazardous waste.

2.3 2006 Interim Corrective Measure

Soil removal activities were completed beneath and around the former Pilot Plant sumps (AOC 45) to address soil containing PCBs at concentrations greater than 50 ppm. The final excavations included the following:

- Excavation Area 1 – approximately 5-foot long by 5-foot wide by 6.5 feet deep excavation west of the Pilot Plant sumps.
- Excavation Area 2 (consisting of western, middle and eastern sections) – approximately 28-foot long by 28-foot wide excavation around the Pilot Plant sumps. Relative to the surrounding grade, the western section was approximately 7.6 feet deep, the middle section was approximately 27.5 feet deep, and the eastern section was approximately 18.7 feet deep.

Approximately 670 CY of PCB-impacted soils from these areas and associated concrete from the former Pilot Plant floor slab were transported off-site for disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste.

2.4 2009 Interim Corrective Measure

This ICM involved the removal of soil from “the eastern plant area” that exhibited PCBs at concentrations greater than 25 ppm (the remedial cleanup objective was changed once work was underway from the 50 ppm goal presented in the work plan to 25 ppm in response to discussions with the NYSDEC about potential cleanup levels for the final site remediation). The activities also addressed certain areas where soil exhibited VOCs and SVOCs at concentrations exceeding the commercial use SCOs. Concrete spread footers encountered in the excavation areas were also removed. As a result of this work, approximately 6,500 CY of impacted soil (estimated based on the excavation volumes presented in the 2009 ICM Certification Report) or approximately 8,800 CY of impacted soil and concrete (based on the weight tickets provided by the landfill and an assumed material density of 1.6 tons per CY) were removed and transported off-site for disposal.

During the ICM, soil located within the Plant 1 footprint that was approximately 3 feet above the ground surface (referred to as the “scrape area”) was excavated to match the surrounding surface level. Following NYSDEC approval, the excavated soil was used

as subsurface fill material in the onsite sumps (identified as AOCs 28 through 30). Approximately 2,500 CY of soil were excavated and used as subsurface fill. An approximate 10,035 square-foot area adjacent to this area (referred to as the “mound area”) remained in the Plant 1 footprint approximately 3 feet above the surrounding ground surface after completion of the 2009 ICM activities. The mound area was later removed as part of the final remedial action (OU4 remedial action) conducted from February 2013 to May 2015.

2.5 Septic Tank/Leachate Pit Abandonment

Sanitary wastewater from the facility was formerly conveyed via underground piping to several septic tanks and leachate pits (refer to Figure 2 for septic tank and leachate pit locations). The septic tanks and leachate pits were abandoned in-place when sanitary sewer piping was installed to convey the sanitary wastewater to the municipal sewer system beneath Commerce Place. The locations of the septic tanks and leachate pits were confirmed by geophysical survey (electromagnetic and ground-penetrating radar survey) performed as part of the RFI. Available facility design drawings showed the septic tanks extending approximately 6 to 8 feet bgs and the leachate pits extending approximately 12 to 14 feet bgs. The leachate pits had perforations extending from a depth of approximately 6 feet bgs to the depth of completion. During the RFI, soil borings were drilled immediately adjacent to the septic tanks and leachate pits, and samples were collected from intervals below the bottom of septic tanks/leachate pits (intervals most likely to show impacts, if any, from former releases) and submitted for laboratory analysis for site-related constituents. Based on the analytical results (refer to the RFI Report [BBL, June 2004] and Phase II RFI Report [BBL, January 2005]), NYSDEC concurrence was received that no further action is required for the septic tanks and leachate pits. During remedial activities (described above in Sections 2.3 and 2.4 and below in Section 3), septic tanks, leachate pits, and associated piping that were within excavation limits were removed and transported for off-site disposal with the surface soil and underlying soil that were impacted.

3.0 SUMMARY OF FINAL SITE REMEDY

3.1 Remedial Action Objectives

Based on the results of the previous investigation and previous remedial activities performed at the Site, the following remedial action objectives (RAOs) were established for the final remedial action:

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure to contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

3.2 Description of Selected Remedy

The Site was remediated in accordance with the remedy selected by the NYSDEC in the ROD issued on December 18, 2012. The factors considered during the selection of the remedy are those listed in Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-1.8. The selected remedy consisted of the following components:

1. Excavation of soil containing PCBs at concentrations greater than 10 ppm to a maximum depth of 10 feet bgs (relative to pre-remediation grade) for off-site transportation and disposal. The PCB soil cleanup objectives (SCOs) at the Site were 10 ppm for subsurface soil (greater than 1-foot bgs) and 1 ppm for surface soil (0 to 1 foot bgs). The PCB surface soil cleanup objective was achieved by excavation or capping (i.e., construction of a soil cover system as described below). The PCB cleanup values for the Site are consistent with those in the NYSDEC policy document titled “CP-51/Soil Cleanup Guidance” dated October 21, 2010 (CP-51/Soil Cleanup Guidance). The 10-foot deep excavation cut-off depth was proposed in the OU4 ROD because substantially all soil at the Site found to contain PCBs at concentrations greater than the 50 ppm disposal

threshold for a TSCA-regulated PCB waste and NYS listed hazardous waste had been removed through the ICMs. At the completion of the remedial activities, all soil at the Site found to contain PCBs at concentrations greater than 50 ppm had been removed and transported for off-site disposal.

2. Excavation of soil containing arsenic and cadmium at concentrations exceeding commercial use SCOs presented in 6 NYCRR Part 375-6.8(b) and transportation of the soil for off-site disposal.
3. Excavation of soil containing polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding the 500 ppm threshold presented in CP-51/Soil Cleanup Guidance and transportation of the soil for off-site disposal.
4. Backfilling of all excavation areas to the pre-remediation ground surface except for locations in the southeastern corner of the Site where grading plans were used to promote site drainage and prevent surface water ponding.
5. Construction and maintenance of a 1-foot soil cover system consisting of 8 inches of general fill over a demarcation layer and 4 inches of topsoil to prevent human exposure to contaminated soil/fill remaining at the Site (soil greater than 1-foot bgs containing PCBs, PAHs, and/or metals at concentrations exceeding NYSDEC restricted commercial use SCOs).
6. Performing asbestos abatement and demolishing the last remaining building at the Site (the Administration Building). The abatement was performed in accordance with the recommendations in the Pre-Demolition Survey Report included in a January 29, 2014 letter from Arcadis to the NYSDEC.
7. Execution and recording of an Environmental Easement (EE) to restrict land use and prevent potential future exposure to impacts remaining at the Site.
8. Development and implementation of an SMP for long-term management of remaining potential impacts as required by the EE, which includes plans for: (1) Institutional and Engineering Controls; (2) monitoring; (3) operation and maintenance (O&M); and (4) reporting.
9. Periodic certification of the institutional and engineering controls listed above.

The final remedial action was implemented in two phases (the first in 2013 and the second in 2014/2015) by two different contractors, as described in Section 4.3 of this report.

4.0 DESCRIPTION OF FINAL REMEDIAL ACTION

Final remedial activities at the Site were conducted in accordance with the following NYSDEC-approved documents: (1) *Remedial Design* (RD; Arcadis, February 2013); (2) *Remedial Design Addendum* (RDA; Arcadis, August 2014); (3) RD Modification #1 (contained in a May 23, 2013 letter from Arcadis to the NYSDEC); and (4) RDA Modification #1 (contained in a November 19, 2014 letter from Arcadis to the NYSDEC). The remedial activities were completed by two different remedial contractors in two separate phases, between February 2013 and May 2015:

- The Environmental Quality Company (EQ) of Wrentham, Massachusetts – Phase 1 OU4 Remedial Activities (February 2013 to July 2013).
- Posillico Environmental, Inc. (Posillico) of Farmingdale, New York – Phase 2 OU4 Remedial Activities (August 2014 to May 2015).

All deviations from the RD and RDA were discussed with and acknowledged or approved by the NYSDEC. The deviations are noted in the sections below.

4.1 Governing Documents

The work activities included in the RD and RDA were completed in accordance with the following:

- The ROD
- Paragraph III of the Order on Consent (“Consent Order”) between Bayer and the NYSDEC (Index No. A1-0781-11-11, issued by NYSDEC on June 21, 2012)
- 6 NYCRR Part 375-1.8 and 375-2.8
- CP-51/Soil Cleanup Guidance (CP-51)
- Sections 5.1 and 5.2 of the NYSDEC document titled, “DER-10 Technical Guidance for Site Investigation and Remediation,” (DER-10) issued on May 3, 2010

All of the work performed as part of the final remedial actions was performed after review and approval by the NYSDEC.

4.1.1 Site-Specific Health & Safety Plan

All remedial work performed under the final remedial action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by the federal Occupational Safety and Health Administration (OSHA).

Site-specific Health and Safety Plans (HASPs) prepared by Arcadis, EQ, and Posillico were followed for all remedial and invasive work performed at the Site.

4.1.2 Quality Assurance Project Plan

The Quality Assurance Project Plan (QAPP) consisted of the field and laboratory procedures presented in the *RCRA Facility Assessment/RCRA Facility Investigation Work Plan* (RFA/RFI Work Plan) (ENSR, December 2003), which was approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/quality control (QA/QC) activities designed to achieve project data quality objectives.

4.1.3 Construction Quality Assurance Plan

The Construction Quality Assurance Plan (CQAP) managed performance of the remedial action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remedial objectives and specifications. The CQAP was implemented through inspection, sampling, testing, and review of services, workmanship, and materials.

Key personnel of the construction project team are summarized in the table below, followed by a brief summary of each position's responsibility.

Project Position	Personnel
Remediation Engineer/ Engineer-of-Record	Arcadis Principal Engineer/Project Manager: John Brussel, P.E.
Construction Quality Assurance Officer (CQAO)	Arcadis Construction Manager: David Kingsley
Sample Quality Assurance Officer (SQAQO)	Arcadis Associate Project Manager: Andrew Enigk
Construction Quality Control Representative (CQCR)	Arcadis Field Construction Manager/Oversight Engineer: Greg McDermott and Charles Atanasio
Sampling Representative	Arcadis, EQ, and Posillico (various)

Project Position	Personnel
Contractor	Phase 1 OU4 Remedial Activities: EQ Phase 2 OU4 Remedial Activities: Posillico

The Contractor was responsible for coordinating field operations for the remedial activities, including coordination of subcontractors. The CQAO was responsible for facilitating that the quality of construction meets or exceeds that defined by the RD, RDA, and CQAP. The SQAQO was responsible for confirming that sampling efforts meet or exceed that defined by the RD, RDA, and CQAP, and reporting directly to the CQAO. The CQCR was onsite during the construction and took actions necessary to ensure compliance with the RD and RDA as necessary to achieve quality. The Sampling Representative supported the CQCR during the construction process.

The Remediation Engineer reviewed plans and submittals for this remedial project and confirmed that they were in compliance with the RD and RDA. Remedial documents were submitted to NYSDEC and NYSDOH in a timely manner.

Quality assurance procedures and tests were implemented as required under DER-10, as follows:

- Submittal by Contractor of weight tickets for earthen materials transported to or from the Site. The weight tickets are included on the attached flash drive.
- Submittal by Contractor, prior to work, of sieve analyses for imported earthen materials. Geotechnical test results are included on the attached flash drive.
- Evaluation by the Engineer of the Contractor's proposed sources for imported earthen materials. The Contractor provided analytical data to the Engineer indicating that imported material was unimpacted. Laboratory analytical results for imported fill are included in Table 1. Results were also tabulated and provided to the NYSDEC following receipt from the laboratory during the remedial action.
- Surveying, by the Contractor with field verification by the Engineer, of the work limits to include areas, elevations, and volumes of excavations and placed materials.

4.1.4 Erosion and Sedimentation Control Plan

The Erosion and Sedimentation (E&S) Control Plan was included in the RD and RDA. The E&S controls for remedial construction were performed during all onsite earthwork activities in conformance with requirements presented in applicable NYS guidelines, the RD, and the RDA. Storm water run-off was controlled in a manner to

prevent contact with impacted soils. Stormwater that contacted impacted soils was managed in accordance with the RD/RDA. Silt fence, erosion control fabric, and stone were used as necessary to prevent erosion of exposed soils. The erosion control structures were inspected a minimum of once per week and after storm events. Documentation of these inspections was included in the Contractor's Weekly Construction Report. Additional erosion control materials were kept onsite to immediately repair any deficiencies discovered during the inspections or as directed by the Engineer. During all portions of the construction, E&S controls were maintained in accordance with the RD/RDA.

4.1.5 Community Air Monitoring Plan

The site-specific Community Air Monitoring Plan (CAMP) was included in the RD. The CAMP specified real-time monitoring for VOCs and particulate matter less than 10 micrometers in diameter (PM₁₀) at one perimeter upwind station and three perimeter downwind stations, creating an envelope around the work area. The CAMP was established to:

- Monitor concentrations of VOCs and total suspended particulates to protect human health and the environment.
- Provide an early warning system so engineering controls could be enacted to prevent unnecessary exposure to emissions resulting from project activities.
- Measure and document the concentrations of VOCs and total suspended particulates for determining compliance with the established air-monitoring limits.

Air monitoring was continuously performed during the remedial activities when ground intrusive work was being performed. Readings were recorded in 15-minute increments by instrument dataloggers.

VOCs were monitored using a MiniRAE 2000 equipped with a photoionization detector (PID) that was calibrated each day to a 100 ppm isobutylene air standard. Airborne monitoring for particulate matter less than 10 micrometers in diameter (PM₁₀) was performed using a TSI DustTRAK 2 Aerosol Monitor 8532. The action levels of 5 ppm (above background) for VOCs and 150 micrograms per cubic meter (µg/m³) (above background) for PM₁₀ were based on the average ambient readings calculated for continuous 15-minute increments. Corrective measures for responding to vapor emissions

exceeding the site action levels established in the CAMP did not need to be executed because the action levels were never exceeded during the project.

4.1.6 Contractor Site Operations Plans

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e. those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RD. The remedial activities covered in the plans and submittals were discussed during the weekly progress meetings, which were attended by the NYSDEC in person or by telephone conference. The remedial documents are provided on the attached flash drive.

4.1.7 Citizen Participation Plan

The Citizen Participation Plan (CPP) was submitted to the NYSDEC in February 2013 and was included as Appendix C of the NYSDEC-approved RD. The CPP detailed citizen participation activities that were implemented for this remediation project. A mailing list was developed that includes adjacent property owners and businesses, local and state elected officials, local media, and other identified interested parties. A fact sheet was sent to the mailing list on February 19, 2013 that introduced the Site and project, summarized Site background, and described anticipated remedial activities. The fact sheet is included as project correspondence included on the attached flash drive.

4.2 Remedial Program Elements

4.2.1 Contractors and Consultants

The table below lists subcontractors who worked under EQ and Posillico and each subcontractor's associated work tasks:

Subcontractor	Work Task
Preferred Environmental Services	Air Monitoring Confirmation Sampling
Naeva Geophysics	Utility Location
Chemtech Laboratories (NYSDOH Lab ID #11376); American Analytical Laboratories LLC (NYSDOH Lab ID #11418); York Analytical Laboratories, Inc. (NYSDOH Lab ID #10854)	Laboratory Analytical
Hicksville Water Department Merrick Utility Long Island Power Authority	Utility Testing, Installation, Deactivation, Removal

Subcontractor	Work Task
National Grid PSEG Verizon	
Ocean Electric Johnson Electric	Electrical Service Connections, Disconnects
Ponderosa Fence	Site Fencing
LVI Demolition Services, Inc.	Asbestos Abatement
EQ Northeast, Inc. Eastern Environmental, Inc. William J. Lauer Corp.	Vacuum Truck, UST/Water Removal
C.M. Testing, MT Group	Geotechnical Testing
Angle of Attack Land Surveying, Posillico	Surveying
Double Nickel Contracting, Inc. J&D Trucking, Inc. Costa Haulers JC Transport, Inc. R&B Debris LLC Horwith Truck, Inc. Newark Carting, Inc. Clean Venture, Inc.	Waste Transportation
East Coast Mines Stony Creek Services	Backfill Importation
WRS Environmental Services	Lead-Based Paint Abatement

4.2.2 Site Mobilization and Preparation

Pre-construction meetings with the NYSDEC, Bayer, Arcadis, and the remedial contractors were held as follows:

- January 30, 2013 for the Phase 1 OU4 remedial action
- August 26, 2014 for the Phase 2 OU4 remedial action

Mobilization and preparation activities included:

- Mobilizing all labor, equipment, materials, and supplies needed to implement the remedial activities.
- Obtaining required approvals and permits (See Section 4.2.3).
- Installing erosion and sediment control measures (See Section 4.2.4).
- Clearing vegetation to facilitate survey, remedial activities, and installation of the site-wide soil cover system.

- Mobilizing two office trailers.
- Inspecting the existing site perimeter security fencing to verify it is secure prior to the start of work.
- Performing pre-remediation/baseline surveying prior to both phases of OU4 remedial activities to establish the vertical and horizontal limits of the excavation areas and the soil cover system.
- Contacting New York 811, Inc. (utility locating call center) and NAEVA Geophysics, Inc. (private utility locating service) prior to the start of remedial activities to identify and mark-out remaining utilities up to the site property boundary and on site. The remaining utilities identified at the Site were permanently decommissioned prior to demolition of the Administration Building and implementation of the remedial activities. A list of the utilities and a brief description of the decommissioning activities are as follows:
 - *Sanitary Sewer* – The Nassau County Department of Public Works (NCDPW) verified on September 30, 2014 that the sanitary sewer was previously disconnected. The disconnection was previously made in support of facility demolition activities in 2002.
 - *Water* – Water mains entering the Site from New South Road and Commerce Place were permanently disconnected by Posillico’s utility subcontractor, Merrick Utility.
 - *Natural Gas* – National Grid disconnected the gas service line on June 26, 2014. The gas valve curb box remains in place for connection of future gas lines during property redevelopment.
 - *Overhead Electric* – Public Service Enterprise Group, Inc. (PSEG) Long Island removed the inactive onsite overhead electric lines and cut the tops off the utility poles so they could not be reused. The poles were subsequently removed entirely during later construction activities. The utility poles were transported off-site to 110 Sand Company Landfill in Melville, New York for disposal as C&D debris.
 - *Overhead Communication* – Inactive telecommunication lines were removed by Posillico. As indicated above, the bottom half of the utility poles were removed and transported off-site to 110 Sand Company for disposal as C&D debris.

- Constructing remediation support areas (i.e., waste material staging areas and equipment/material/personnel decontamination areas) in accordance with the RD (See Section 4.2.4). EQ constructed the remediation support areas during Phase 1 OU4. The support areas were reused by Posillico to facilitate the Phase 2 OU4 remedial activities.
- Mobilizing a portable water storage tank.
- Installing a NYSDEC-specification project sign. The sign provided by EQ for the Phase 1 OU4 remedial activities was updated as appropriate by Posillico and used during the Phase 2 OU4 remedial activities.

Before contractor mobilization for Phase 2 OU4 remedial activities, Arcadis conducted a pre-demolition building survey at the Administration Building to locate, identify, quantify, and sample building materials and other materials of concern, including asbestos. The survey activities were conducted to provide data and information for evaluating material handling in connection with the Administration Building demolition to be performed as part of Phase 2 OU4 remedial activities. The pre-demolition survey activities are summarized in the *Pre-Demolition Survey Report* (Arcadis, January 2014), which was provided to the NYSDEC in January 29, 2014 e-mail correspondence from Arcadis and included as an attachment to the RDA. Following the building survey, Bayer contracted Synatech, Inc. (Synatech) of Little Egg Harbor, New Jersey to perform asbestos abatement and regulated materials removal activities at the Administration building. The asbestos abatement and regulated materials removal activities were completed in June 2014 and are summarized in the *Asbestos Abatement and Regulated Materials Removal Report* (Arcadis, October 2014) provided on the attached flash drive. Synatech returned to the Site prior to the building demolition and removed additional asbestos-containing material (ACM) roofing from under a heating, ventilation, and air conditioning (HVAC) unit after Posillico removed the unit from the roof. The ACM roofing removal activities are summarized in the *Supplemental Asbestos Abatement Report* (Arcadis, January 2015), which is provided on the attached flash drive. The NYSDEC was informed about the pre-demolition activities in the NYSDEC-mandated monthly progress reports.

4.2.3 Agency Approvals and Permits

The NYSDEC granted exemption from state permits required for completion of the remedial action pursuant to 6 NYCRR Part 375-1.12(b)(2) and Section 1.10,

Paragraph (b)2. of DER-10. The following local permits were obtained in support of the remedy:

- *Long Island Railroad (LIRR) Right-of-Way (ROW) Entry Permit- (EP-) 1085.* This permit was fully-executed by the LIRR Engineering Department on October 29, 2014 and allowed for delineation soil sampling within the railroad ROW. Posillico executed the agreement with LIRR.
- *Town of Oyster Bay (the Town) Tree Removal Permit.* Posillico removed 11 onsite trees greater than 8 inches in diameter after the Town inspected the trees onsite and provided the necessary tree removal permit.
- *Town of Oyster Bay Building Demolition Permit #14005066.* Posillico submitted a demolition permit application to the Town on October 14, 2014 and a “Yellow Card” was received by Posillico from the Town Building Department on October 28, 2014. Posillico fulfilled the performance bond requirements, and coordinated a mandatory pre-demolition rodent inspection with the Nassau County Department of Health (NCDOH). After the Administration Building demolition activities were completed in November 2014, the Town performed a Final Inspection of the Administration Building area on December 15, 2014 and approved the work by closing out Building Demolition Permit #14005066. Bayer and Arcadis also coordinated with the Town to close out two historical building demolition permits (Permit #R26213 and #R35598) issued for the 2002 plant building demolitions and 2005/2006 concrete slab/foundation demolition. Arcadis submitted a September 15, 2015 letter to the Town to support the permit close-outs, and the NYSDEC issued a November 19, 2015 acknowledgement letter to the Town. The Town issued a January 6, 2016 Certificate of Completion documenting the close-out of these two demolition permits.

Documentation of agency approvals required by the RD and RDA is included on the attached flash drive. All State Environmental Quality Review Act (SEQRA) requirements and all substantive compliance requirements for attainment of applicable natural resource or other permits were achieved during this remedial action.

4.2.4 General Site Controls

This section describes the measures/provisions in place at the Site to control work activities. The following were general site and nuisance controls implemented to keep the site orderly, secure, and safe:

- Perimeter Site fencing with a locking gate located at the Site entrance near the intersection of New South Road and Commerce Place. New permanent chain-link fencing was installed on the northern property boundary prior to demolishing the Administration Building. The new fencing tied in with the existing perimeter fence to maintain a continuous fence around the Site.
- Erosion and sedimentation controls in accordance with the RD and RDA, including: (1) site perimeter silt fencing; (2) storm water runoff control; (3) management of storm water that contacted impacted soil; (4) berms surrounding and water collection sumps in the decontamination and soil staging areas; and (5) covering of staged materials with polyethylene sheeting. The E&S structures were inspected at least once a week and after significant rainfall events. E&S controls were repaired onsite (as needed) during the work.
- Equipment decontamination for all equipment that came into contact with the impacted soil. Onsite decontamination pads were used to remove mud and soil from equipment and prevent tracking of impacted soil onto the roadway. The decontamination pads used for the project consisted of an impoundment sloped toward a low point (collection sump), bermed sidewalls around the impoundment perimeter, and a 40-mil high density polyethylene (HDPE) liner covering both the sides and the bottom of the impoundment and the collection sump. Equipment decontamination was performed via dry methods (brushing, wiping) and wet methods (water spray). Residues from decontamination operations were collected and managed with other impacted soil. Decontamination water was collected for treatment with other wastewater generated onsite. Equipment that came in contact with impacted soil was decontaminated prior to placement and compaction of backfill material.
- Truck tire wash prior to trucks leaving the Site and use of a street sweeper for cleaning the onsite paved access road and New South Road at the end of each workday. Trucks were equipped with a solid tarp covering the entire load and gasketed watertight tailgates. Trucks were loaded in such a way as to minimize impacted debris and soil from touching truck exteriors, including the tires. Trucks were inspected before leaving the Site and all loose soil or other material was sprayed or brushed off to prevent spreading on egress roads and streets. An onsite truck route was used to minimize tracking of impacted onsite soils.

- Waste material staging area for impacted materials. Materials placed in the staging area were continuously covered with a properly anchored plastic cover (a minimum thickness of 20 mil), except while material was actively being managed (placed, stabilized, or removed).
- Vapor and dust controls were employed throughout the remedial action to minimize disturbances to the surrounding residential and commercial buildings. A variety of engineering controls were used to control vapor and dust. Vapor and dust suppression measures used onsite included: (1) wetting soils with water to control dust; (2) limiting the size of excavations; and (3) covering impacted soil with plastic sheeting.

4.2.6 Community Air Monitoring Results

As discussed in subsection 4.1.5 of this report, airborne monitoring for particulate matter (PM₁₀) and VOCs was conducted during the remedial activities when ground intrusive work was being performed as approved by NYSDEC. Airborne monitoring consisted of: (1) exclusion zone air-monitoring for evaluating construction worker health and safety; and (2) community air monitoring to determine the levels of VOCs and total suspended particulates at the perimeter of the Site. This air monitoring was performed in accordance with the NYSDOH Generic CAMP and site-specific CAMP included in the RD.

The air quality within the exclusion zone was monitored to ensure worker health and safety in accordance with requirements specified in 29 Code of Federal Regulations (CFR) 1910.120. Based on the air monitoring results during the remedial and redevelopment activities, all work was performed in Modified Level D personal protective equipment, and no upgrades to higher level protection work were required.

The action levels established in the CAMP were not exceeded at any air monitoring station for the duration of the project. Dust suppression measures (the application of water using a water truck) were implemented throughout the remedial activities to eliminate the potential for excessive dust.

The CAMP air monitoring data recorded by dataloggers is included with the weekly progress reports provided on the attached flash drive. Copies of weekly CAMP reports submitted to the NYSDEC and NYSDOH are provided on the attached flash drive.

4.2.7 Reporting

Field activities were documented in accordance with the RD. Separate weekly construction progress reports and weekly meeting minutes were prepared for Phase 1 OU4 remedial activities. Combined weekly construction reports/weekly construction coordination meeting summaries were prepared for the Phase 2 OU4 remedial activities. Arcadis prepared the weekly reports and meeting summaries and distributed them to the NYSDEC, NYSDOH, and Bayer as work progressed.

The weekly progress reports summarized work activities completed for the previous workweek, included representative pictures of the work performed each week, provided soil removal/backfilling and soil cover system construction progress tracking figures and tables, and included a Community Air Monitoring Report (summary of the week's air monitoring results, air monitoring station location figures, raw data from each monitor, and meteorological data from the onsite weather station). The photos provided in the weekly progress reports serve as the photo log for the Site. The weekly construction reports (with digital photos) and weekly meeting minutes from the Phase 1 and Phase 2 OU4 remedial activities are included on the attached flash drive.

4.3 Remedial Activities

The OU4 remedial activities were performed to remove remaining soil that contained PCBs, PAHs, and metals at concentrations exceeding the site cleanup levels and install a clean soil cover to provide conditions that are protective of human health and the environment and support site redevelopment for commercial/industrial purposes in accordance with the uses in the NYSDEC-approved OU4 SMP. Soil removed for off-site disposal as part of OU4 contained: (1) PCBs at concentrations exceeding the 10 ppm subsurface soil cleanup level presented in CP-51/Soil Cleanup Guidance to no greater than 10 feet bgs relative to pre-remediation grade (with one minor exception near the former Pilot Plant area where excavation extended as deep as 14 feet bgs removing visibly-stained soil); (2) total PAHs at concentrations exceeding the 500 ppm threshold presented in CP-51/Soil Cleanup Guidance; and (3) arsenic and cadmium at concentrations exceeding the 16 ppm and 9.3 ppm commercial use SCOs presented in 6 NYCRR Part 375-6.8(b). The 10-foot deep excavation cutoff depth was proposed in the OU4 ROD because substantially all soil at the Site found to contain PCBs at concentrations greater than the 50 ppm disposal threshold for a TSCA-regulated PCB

waste and NYS listed hazardous waste had been removed through the ICMs. At the completion of the remedial activities, all soil at the Site found to contain PCBs at concentrations greater than 50 ppm had been removed and transported for off-site disposal.

The Phase 1 OU4 remedial activities were performed in accordance with the RD from February to July 2013. The Phase 2 OU4 remedial activities were performed in accordance with the RD and RDA from August 2014 to May 2015. The remedial activities described in the RD were recommended and presented (at a conceptual level) in the *Corrective Measures Study Report* (Arcadis, February 2012) and were incorporated into the NYSDEC OU4 ROD (December 2012). Combined, the Phase 1 and Phase 2 OU4 remedial activities involved excavation and off-site disposal of impacted soil at the Site, demolition of the only remaining building at the Site (i.e., Administration Building), removal of a 9,000-gallon UST (suspected former tower water system return tank), and partial removal and backfilling of several subsurface utility vaults.

4.3.1 Impacted Soil Removal

This section describes the soil removal activities performed by Bayer's remedial contractors, EQ and Posillico, and oversight by Arcadis for the Phase 1 and Phase 2 OU4 remedial activities, respectively.

Phase 1 OU4 Remedial Activities:

As part of the Phase 1 OU4 remedial activities, EQ removed approximately 9,664 CY of PCB-, PAH-, arsenic-, and cadmium-impacted soil (8,549 CY of subsurface excavated soils and 1,115 CY from above-grade materials referred to as the "Mound Area") from approximately 58 site-wide excavation areas. Of the total Phase 1 OU4 volume removed, approximately 300 CY consisted of concrete debris from subsurface building foundations and structures (See Section 4.3.3 for additional detail on the concrete structures). Approximately 2,086 CY of the material generated during the Phase 1 OU4 remedial activities remained stockpiled onsite for off-site disposal as part of the Phase 2 OU4 remedial activities in 2014. Based on the landfill weight slips for the Phase 1 OU4 remedial activities, approximately 915 tons of PCB-impacted material were transported to the Wayne Disposal, Inc. landfill in Belleville, Michigan for disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste and approximately 16,727 tons of PCB-impacted material were transported to the Brookhaven Township Landfill in Yaphank, New York for disposal as a non-hazardous waste.

Based on discussions between Bayer/Arcadis and the NYSDEC and with NYSDEC acknowledgement, the Phase 1 OU4 remedial activities were postponed in July 2013 after the following occurred:

(1) The NYSDEC monitor at the Brookhaven Township Landfill indicated that the landfill could no longer accept non-hazardous soil from the Site. This was due to the NYSDEC's change in interpretation of acceptance criteria for the landfill. Contaminant levels in the excavated/stockpiled soil did not change from profiled levels; and

(2) Additional sampling was found to be needed to delineate the extent of impacted soil at the Site. PCBs at concentrations greater than 10 ppm were identified in baseline soil samples collected by EQ from within the material staging area footprint (former Plant 3 building location before constructing the material staging area) and PCBs at concentrations greater than 10 ppm were identified in several post-excavation confirmation samples in the eastern portion of the Site). Arcadis subsequently developed and implemented a multi-phase site-wide delineation/verification sampling program to further assess the horizontal and vertical extent of the additional soil requiring excavation and off-site disposal for a second phase of OU4 remedial activities. The work performed and findings of the sampling programs are summarized in the following documents, which are included on the attached flash drive:

- *Additional PCB and Metals Soil Delineation Work Plan for Potential Soil Remediation* (contained in a May 9, 2013 letter from Arcadis to the NYSDEC)
- *2013 Phase 2 PCB and Metals Soil Delineation Work Plan for Soil Remediation* (contained in a July 22, 2013 letter from Arcadis to the NYSDEC)
- *2013 Phase 2 Delineation Soil Sampling Summary, Proposed PCB Delineation Refinement and Verification for Soil Remediation, and Proposed Arsenic Soil Cleanup Modification* (contained in a November 7, 2013 letter from Arcadis to the NYSDEC)
- *2014 Arsenic and PCB Soil Delineation Work Plan* (contained in a February 11, 2014 letter from Arcadis to the NYSDEC)
- *2014 Remedial Design Addendum* (Arcadis, August 2014)

Phase 2 OU4 Remedial Activities:

The Phase 2 OU4 remedial activities began after: (1) the multi-phase site-wide delineation/confirmation soil sampling program was completed; (2) Bayer completed a re-bidding of the remedial construction; and (3) the RDA was approved by the NYSDEC. The work activities described in the RDA were developed in accordance with the governing documents provided in Section 4.1. Further delineation/confirmation sampling was performed as part of the Phase 2 OU4 remedial activities to address comments provided by the NYSDEC on the RDA. That sampling focused on assessing potential impacts in a former tank farm in the southern portion of the Site (later identified as Excavation Area 27C), defining the southern excavation limits for Excavation Area 17B-3 (south of the property fence line adjacent to the LIRR), and determining if impacts were present under the Administration building concrete slab after it was demolished. Arcadis also completed delineation/confirmation sampling under the staging area liner where PCB impacts were found in surface soil during Phase 1 OU4. The additional sampling activities were implemented concurrently with the Phase 2 OU4 remedial construction (refer to Section 4.4 for additional information on the sampling activities).

As part of the Phase 2 OU4 remedial activities, Posillico excavated approximately 7,112 CY of PCB- and arsenic-impacted soil from approximately 38 site-wide excavation areas. Based on the landfill weight slips for the Phase 2 OU4 remedial activities, approximately 1,730 tons of >50 ppm PCB-impacted material were transported off-site to the CWM Chemical Services LLC landfill in Model City, New York for disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste, and approximately 15,869 tons of <50 ppm PCB-impacted material were transported to the Gloucester County Landfill in Swedesboro, New Jersey for disposal as a non-hazardous waste (this included soil remaining onsite from the Phase 1 OU4 remedial activities). Other remedial work performed by Posillico included: (1) demolishing the last remaining building at the Site (the Administration Building) and transporting 12 tons of concrete debris off-site for disposal as C&D debris; (3) constructing 1-foot site-wide soil cover system over a demarcation layer (i.e., orange construction fencing) across approximately 13.2 acres of the Site; and (4) performing permanent disconnections of the remaining utilities at the Site.

A summary of the excavation areas where soil was removed and transported off-site for disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste for both the Phase 1 and Phase 2 OU4 remedial activities is provided in Table 4-1 below.

Table 4-1
TSCA-Regulated PCB Waste/NYS Hazardous Waste Excavation Surface
Areas, Depths, and Volumes

Excavation ID	Excavation Area (SF)	Approximate Depths (*bgs)	Approximate Excavation Volume (CY)
Phase 1 OU4 Remedial Activities			
16B	7,165	1	521
Phase 2 OU4 Remedial Activities			
13A-1 (three sections)	750	8 (NW Quadrant)	167
		10 (NE Quadrant)	
		12 (Main Section)	
16B-2	77	1	3
16B-3	930	4	138
17B-1	1,940	1	72
17B-3	115	1	5
2C	295	2	22
5C	180	1	7
6C	435	2	33
12C	865	2	65
14C	1,350	2	100
Total:			1,133

*Below ground surface is relative to pre-remediation grade.

At the conclusion of the remedial activities in 2015, the Site was seeded and mulched to establish vegetative growth on the soil cover system. A construction close-out meeting was held on May 28, 2015 and attended by the NYSDEC, Bayer, Arcadis and Posillico. Weekly E&S control inspections of the Site were performed by Posillico following the site meeting until 80% vegetative growth (perennial grass) over 100% of the Site was established. Once the appropriate vegetative growth was established, Posillico removed the perimeter silt fencing.

The OU4 excavation and backfill details (excavation rationale, surface area, depth, and excavation/backfill volume for each excavation area) are provided in Table 2. The excavation areas from each remedial program, starting with the interim corrective measure in 2005 and concluding with the OU4 remedial activities in 2015, are shown on Figure 3 (color-coded by program). The limits of each excavation (horizontal and vertical) are shown on Drawing 2. Areas where reuse soil was placed as backfill are

shown on Drawing 3. The remaining areas were backfilled with imported clean fill as described in Section 4.5.

Survey as-built drawings showing pre-excavation elevations and final excavation elevations within each excavation area are provided on the attached flash drive.

4.3.2 Administration Building Demolition

After Posillico completed the necessary utility disconnects and received the required building demolition permit from the Town of Oyster Bay as discussed in Section 4.2.3, Posillico proceeded with removing general C&D debris (sheetrock [without lead paint], porcelain toilets, fixtures, etc.) from inside the building. Posillico had its lead-based paint abatement contractor (WRS Environmental Services, Inc.) remove the loose-lead based paint chips from the Administration building interior walls that had been identified during the pre-demolition building survey. The lead-based paint abatement was completed on October 24, 2014. Two 55-gallon drums of lead-based paint chips were generated by the abatement activities and subsequently transported off-site on October 27, 2014 for disposal at Cycle Chem located in Elizabeth, New Jersey.

As described in Section 4.2.2, Bayer's asbestos abatement contractor (Synatech) under the supervision of Arcadis, returned to the Site on October 23, 2014 and removed ACM from the roof deck below the HVAC unit located on the western side of the Administration Building roof. Posillico removed the HVAC unit from the roof on October 24, 2014.

Posillico installed a new chain-link perimeter fence along Commerce Place in front of the Administration Building on October 29, 2014 to enclose the work area for planned building demolition activities. The new fence was connected to the existing perimeter fencing along Commerce Place to maintain a continuous security fence around the Site (fencing previously had tied in to the corners of the Administration Building, which restricted access in that part of the Site). The fence work was completed by Posillico's fencing subcontractor, Ponderosa Fencing.

The Administration Building was demolished (except for the slab and footers) on December 3, 2014, and the building slab and footers removal was started after the above-slab building materials had been segregated for off-site recycling (steel) or disposal (masonry/concrete), as appropriate. The slab and footers were removed to a minimum 2 feet below ground surface on December 9, 2014.

4.3.3 Underground Structure Remedial Measures

The following UST and other subsurface structures (e.g., utility vaults and leachate pits) were removed and/or addressed during the remedial activities at the Site, as summarized below:

- *9,000-Gallon Steel UST (Suspected Former Tower Water System Return Tank):*
The UST was encountered during the Phase 1 OU4 excavation activities and was identified on a historical site design drawing as part of the fire suppression water piping loop. The tank was located in the eastern portion of the property between AOCs 29 and 30, as shown on Figure 3. Approximately 5,000 gallons of water were pumped from the UST by Posillico's environmental subcontractor (Eastern Environmental, Inc.) and transported off-site for treatment/disposal as a non-hazardous liquid waste at the Clear Flo Technologies/Clean & Green Recycling, Inc. of North Lindenhurst, New York based on the results of characterization sample "Tank-1" collected by Arcadis (refer to Table 3 for the analytical results). The tank was cut, crushed, and transported off-site for recycling. During cutting of the tank, the debris from the bottom of the tank was transferred to the lined material staging area for off-site disposal with the non-hazardous, PCB-containing soil from the area, based on the results of debris characterization sample "Tank-1A" collected by Arcadis (refer to Table 4 for the analytical results). The excavation size resulting from the UST removal was approximately 7 feet wide by 7 feet deep by 30 feet long (i.e., the void remaining after removing the tank). Based on visual observation of the soil surrounding the tank during removal and the former use of the tank, no verification sampling was required.
- *Subsurface Utility Vaults:* Three utility vaults were identified during brush/vegetation clearing in preparation for performing the Phase 2 OU4 excavation activities and installation of the site-wide soil cover system. The vaults included a 9.5-foot deep water valve pit (located mid-way between former Plant 2 and 3 buildings) and two 4-foot deep former pull boxes for electrical cable (one located east of Excavation Area 3B and one located west of Excavation Area 11C), as shown on Figure 3. The vaults were addressed as follows: (1) the steel plates covering the vaults were removed and recycled; (2) the steel water pipes/valves from the water valve pit were removed and recycled; (3) the vaults were backfilled with either washed stone or imported clean soil; and (4) the concrete/block walls were removed to a depth of 2 feet below the surrounding

ground surface before backfilling to the pre-remediation ground surface and installing the 1-foot soil cover system over the vaults.

- *Leachate Pits:* One leachate pit was encountered during the Phase 1 OU4 remedial activities in Excavation Area 23A. Because the leachate pit was not sampled during the RFI, Arcadis collected a sample of sediment (debris) from the bottom of the pit for laboratory analysis for PCBs, VOCs, and SVOCs. The debris sample was also analyzed for waste characterization parameters in accordance with the landfill requirements (refer to results for sample LMH-1 in Table 4). Based on the laboratory analytical results, none of the constituents in the debris exceeded the commercial use SCOs or the 10 ppm PCB subsurface soil cleanup level established for the Site. PCBs were detected at a concentration of 2.6 ppm in the leachate pit debris. The leachate pit was completely removed and the concrete was pulverized according to the landfill size requirements. The resulting concrete and leachate pit debris were placed in the soil staging area for off-site transportation and disposal as a non-hazardous waste with soil from the area. Approximately 110 linear feet (LF) of asbestos containing material (ACM) transite piping associated with the leachate pit was also removed. The piping was removed by EQ's asbestos abatement subcontractor (LVI Demolition Services, Inc.) and transported off-site for disposal. A letter from Arcadis to Bayer summarizing the asbestos abatement activities is provided on the attached flash drive.

As indicated in Section 2.5, septic tanks and leachate pits that were within excavation limits were removed and transported for off-site disposal with the surface soil and underlying soil that were impacted. The remaining pits were abandoned in-place. This action was supported by the analytical results for soil samples collected from soil borings drilled alongside the tanks/pits to depths below the bottom of the structures. Certain septic tanks and leachate pits that were abandoned in-place were filled with stone (as indicated below), and the remaining septic tanks and leachate pits covered over and not backfilled.

During the Phase 2 OU4 brush clearing activities, six leachate pits were encountered and determined to be a safety risk for site-wide heavy equipment operation and presented potential fall-in hazards for site personnel. For each of the six leachate pits, the caps were removed, the pits were backfilled with washed crushed limestone, and geotextile fabric was placed over the top of the stone. The 1-foot soil cover system was then placed over the filled leachate pits as detailed in

the RDA. The approach for handling the leachate pits was discussed and agreed upon during the weekly construction coordination meetings attended by the NYSDEC, NYSDOH, the Town, Bayer, Arcadis, and the remedial contractors and the work was approved by NYDEC.

4.3.4 Waste Disposal Details

Waste soil characterization for the Phase 1 OU4 remedial activities was performed by EQ in accordance with the requirements of the Brookhaven Township Landfill located in Yaphank, New York. EQ collected composite soil samples for waste characterization from waste soil stockpiles. Posillico performed waste characterization for the Phase 2 OU4 remedial activities in accordance with the requirements of Gloucester County Landfill located in Swedesboro, New Jersey. Posillico performed an extensive in-situ waste characterization sampling program to fulfill the requirements of Gloucester County Landfill, which was based on a waste characterization sampling plan submitted to the NYSDEC, Bayer, and Arcadis. During both phases of the OU4 remedial activities, the remedial contractors collected samples of water accumulated in onsite temporary water storage tanks prior to transporting the wastewater off-site for treatment. All waste disposal facilities used for the remedial activities had the appropriate and current permits to accept waste from the Site.

Waste managed during Phase 1 and Phase 2 OU4 remedial activities and the applicable off-site disposal locations are as follows:

- Approximately 32,596 tons of soil and concrete debris impacted with PCBs, SVOCs, arsenic, and/or cadmium were transported off-site for disposal as a non-hazardous waste during the OU4 remedial activities. During Phase 1, approximately 16,727 tons of non-hazardous waste soil and concrete debris were transported off-site for disposal at the Brookhaven Township Landfill. During Phase 2, approximately 15,869 tons of non-hazardous waste soil and concrete debris were transported off-site for disposal at the Gloucester County Landfill.
- Approximately 2,645 tons of the soil were removed and transported off-site for disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste during the OU4 remedial activities. During Phase 1, a total of 915 tons of TSCA-regulated PCB waste/NYS listed hazardous waste was transported to EQ's Wayne Disposal Inc. facility in Belleville, Michigan. During Phase 2, a total of 1,730 tons of TSCA-regulated PCB waste/NYS listed hazardous waste was

transported to CWM Chemical Services LLC landfill located in Model City, New York.

- Approximately 44,350 gallons of wastewater from the soil staging area, decontamination activities, and the 9,000-gallon steel UST were transported off-site for treatment during the OU4 remedial activities. Approximately 17,500 gallons were transported to Tradebe located in Bridgeport, Connecticut and 21,850 gallons were transported to Clean Waters of New York located in Staten Island, New York. As previously indicated, 5,000 gallons of wastewater were pumped from the 9,000-gallon steel UST and transported to Clear Flo Technologies, Inc. located in Lindenhurst, New York for treatment.
- Four 55-gallon drums of sediment from decontamination of the frac tank during the Phase 2 OU4 remedial activities were transported off-site for disposal as a TSCA-regulated PCB waste/NYS listed hazardous waste at the CWM Chemical Services LLC landfill in Model City, New York. The sediment was sent as a NYS listed hazardous waste because it was derived from: (1) the decontamination of equipment used to handle soil containing PCBs >50 ppm; and (2) water pumped from the TSCA soil staging area that was in contact with staged soil containing PCBs >50 ppm.
- Approximately 12 tons of C&D debris from the Administration Building demolition were transported off-site for disposal at 110 Sand Company located in Melville, New York.
- Two 55-gallon drums of lead-based paint chips removed from the interior walls of the Administration Building were transported off-site for disposal as a hazardous waste at Cycle Chem, Inc. located in Elizabeth, New Jersey.
- Approximately 110 LF of ACM transite piping removed during the Phase 1 OU4 Excavation Area 23A leachate pit work activities were transported off-site for disposal at 110 Sand Company located in Melville, New York.

A summary of the samples collected to characterize the waste and associated analytical results are presented in Tables 3 through 6. The total quantities of the non-hazardous and TSCA-regulated PCB waste/NYS listed hazardous waste soil removed from the Site and the disposal locations are summarized in Tables 7 and 8, respectively.

Letters from Applicants to the disposal facility owners, acceptance letters from disposal facility owners, and manifests and bills of lading for waste transportation/disposal are provided on the attached flash drive.

4.3.5 Reused Material

Approximately 80 CY of clean soil from off-site properties formerly owned by Northrop Grumman was imported to the Site by Oxy after receiving NYSDEC approval in June 19, 2012 e-mail correspondence. The fill was used subsurface at the Site during the Phase 2 OU4 remedial activities. The clean soil was from the installation of utility trenches for a groundwater biosparge system. Based on correspondence between Conestoga-Rovers & Associates (CRA; now known as GHD)(Oxy's environmental consultant) and Northrop Grumman (the former property owner where the biosparge system was being installed) the soil was removed from: (1) an open grass area that has historically always been an open grass area that was occasionally used for vehicle parking; and (2) the property used for the biosparge system control building. Phase I and II site assessments were performed by others on the biosparge control building property and there were no impacts from RCRA metals, VOCs, or SVOCs, and no PCB concentrations exceeded the cleanup levels in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046: *Determination of SCO's and Cleanup Levels* (January 24, 1994), which is consistent with and replaced by CP-51. CRA described the areas from which the soil was generated, the locations of the soil characterization samples collected from the soil, and the soil sample physical and chemical analytical results in a May 22, 2012 memorandum to Oxy, which was later provided to the NYSDEC for review/approval.

Based on the analytical results provided to the NYSDEC by CRA, the reuse soil: (1) exhibited no visible sheens or staining; (2) met geotechnical requirements for the planned restoration; and (3) analytical results were less than the site-specific soil cleanup levels. The memorandum and laboratory analytical results provided to the NYSDEC by OXY for the imported clean soil are provided on the attached flash drive.

4.4 Remedial Performance/Documentation Sampling

In addition to the multi-phase site-wide delineation/verification sampling program discussed in Subsection 4.3.1, additional delineation/confirmation soil samples were collected from the following locations during the Phase 2 OU4 remedial activities: (1) in and around proposed Excavation Areas 16B-4 and 18C (the former aboveground storage

tank farm area) located in the southern end of the Site (identified as Area 27C after the sampling was completed); (2) adjacent to and within the LIRR ROW to determine the southern excavation limits for Excavation Area 17B-3; (3) under the Administration building concrete slab after the slab was removed; and (4) under the soil staging area liner after the liner was removed and transported off-site for disposal. The analytical results for samples collected from these areas are presented in Tables 9 and 10.

The PCB soil results for four soil samples collected in and around Phase 2 OU4 proposed excavation areas 16B-4 and 18C (the former aboveground storage tank farm area) located in the southern end of the Site were summarized in a November 19, 2014 letter from Arcadis to the NYSDEC (RDA Modification #1). The soil sample results for PCBs ranged from 1.2 ppm to 11.8 ppm for the 0-0.2 feet bgs sample interval, and PCBs were not detected above the 1 ppm commercial use SCO in the subsurface soil (0.5-2'). Based on the results, it was determined that an additional 1-foot excavation was needed to address the PCBs greater than 10 ppm. The excavation was identified as Excavation Area 27C and the limits were determined to be 3,220 SF by 1 foot bgs (approximately 120 CY). Additional details regarding Excavation Area 27C are provided in Section 4.10.

Posillico obtained the necessary LIRR Entry Permit and performed sampling activities within the LIRR ROW. The sampling was performed to determine the southern boundary of Excavation Area 17B-3 and address PCBs at concentrations greater than 10 ppm in soil extending beyond the Site fence line. Based on the sample results, Excavation Area 17B-3 was extended 2 feet beyond the site fence line, up to the property line. The excavation did not extend onto LIRR property. The depth and width of the extended portion of 17B-3 remained 1-foot and 10-foot, respectively. The soil volume removed from this area beyond the fence line was approximately 0.75 CY. The sample results for the southern portion of Area 17B-3 were summarized in a December 12, 2014 letter from Arcadis to the NYSDEC (included on the attached flash drive).

Sub-slab soil sampling was performed by Arcadis within the Administration Building footprint on December 10, 2014 following demolition of the building and removal of the concrete slab-on-grade by Posillico as described in Section 4.3.2. The sub-slab soil sampling was performed as described in Section 3.9 of the RDA. No staining/discoloration was observed in the soil exposed following the slab removal. Therefore, samples were collected from the six mapped locations shown on Figure 3 of the RDA (locations SB-337 through SB-342). At each sampling location, Arcadis collected a surface soil sample (0-0.2') for laboratory analysis for PCBs, VOCs, SVOCs, and inorganic constituents and a subsurface soil sample (0.5-2.0') for laboratory archive. The

subsurface soil samples were collected from shallow test pits excavated by Posillico. A blind duplicate surface soil sample was collected from sampling location SB-341. The analyte list for the surface soil samples included each VOC, SVOC, and inorganic constituent listed in 6 NYCRR Part 375-6.8(b).

Laboratory analysis of the sub-slab soil samples was performed by Pace Analytical Services, Inc. (PAS) of Melville, New York on an expedited turnaround. Based on review of the results, no constituents were identified in the samples at concentrations exceeding the commercial use SCOs. However, lead was identified in the blind duplicate collected from location SB-341 at a concentration of 1,110 ppm, which slightly exceeded the 1,000 ppm commercial use SCO. This was observed as an anomaly when compared to the other samples including its duplicate. PAS performed an additional analysis of the duplicate sample and lead was identified in the second duplicate at a concentration of 474 ppm (well-below the 1,000 ppm commercial use SCO). Based on the results, the NYSDEC provided approval for the existing exposed soil within the building footprint to be restored with 4-inches of topsoil and hydroseeded.

Additional delineation/confirmation soil samples were collected by Arcadis from below the soil staging area after the soil staging area liner was sequentially removed and transported off-site for disposal. Soil samples were collected from sampling locations V-RD-274 through V-RD-279 as specified in the RDA and analyzed by PAS for PCBs. Samples from below the eastern, central, and western portions of the staging area were collected on December 12, 2014 (samples V-RD-276 and -279), December 19, 2014 (V-RD-275 and -278), and January 2, 2015 (V-RD-274 and -277), respectively. The samples were collected from each sampling location from 1-2 foot and 2-4 foot depth intervals. None of the results exceeded the 10 ppm PCB subsurface soil cleanup level. The data indicated that the excavation under the staging area (identified as Excavation Area 7C for the Phase 2 OU4 remedial action) could be limited to 1-foot bgs. Posillico completed the Area 7C excavation activities on January 7, 2015.

Based on the performance and documentation soil sampling performed as part of the final remedial activities and earlier ICMs, the excavations at the Site resulted in the removal of all soil found to contain PCBs at concentrations greater than the 50 ppm disposal threshold for a TSCA-regulated PCB waste and NYS listed hazardous waste. Based on the PCB laboratory analytical data, PCBs remain in soil at concentrations greater than 10 ppm more than 10 feet bgs at the following soil sampling locations:

- P1-S111 (north of the sump/recharge basin that received surface water runoff from the vicinity of the former Pilot Plant [AOC 30]): PCBs were identified at a concentration of 19.5 ppm in soil from 10 to 10.5 feet bgs at this sampling location.
- VS-45-2 (southwest corner of the former Pilot Plant): PCBs were identified at a concentration of 26 ppm (sample) or 48 ppm (sample duplicate) in soil from 34 to 36 feet bgs at this sampling location.
- VS-45-11 (approximately 10 feet east of sampling location VS-45-2): PCBs were identified at a concentration of 23 ppm in soil from 22 to 24 feet bgs at this sampling location.

Data validation was performed to achieve a validation rate of approximately 20% of the laboratory analytical results representing the remaining soil at the Site, consistent with the validation protocol presented in the NYSDEC-approved *RCRA Facility Assessment/RCRA Facility Investigation Work Plan* (ENSR, December 2003). Validation was not performed for soil samples representing locations where soil had been removed for off-site disposal as part of the Phase 2 OU4 or prior remedial activities. Data Usability Summary Reports (DUSRs) were prepared for the sample delivery groups (SDGs) selected and validated. These DUSRs and associated raw data are provided on the attached flash drive.

4.5 Imported Backfill

The OU4 excavation areas were backfilled using a combination of imported clean fill and clean reuse material (soil provided to Bayer by Oxy as discussed in Subsection 4.3.5). The majority of the OU4 excavation backfilling took place during Phase 2. Backfilling during Phase 1 focused on excavation areas greater than 4 feet deep. At the end of Phase 1, no excavation left open was greater than 4 feet deep. Bayer and EQ elected not to perform additional backfilling during Phase 1 for operational efficiencies (i.e., no other work besides backfilling was being performed at the end of Phase 1) and because certain excavations needed to be expanded (widened) during Phase 2. Excavation areas not backfilled at this time were secured by the perimeter site fencing. A total of approximately 35,000 CY of general fill was imported to the Site for use as subsurface fill and for construction of the 8-inch base layer of the soil cover system.

Two separate grading plans were developed to facilitate backfilling around the former Pilot Plant area and within the southeastern portion of the Site during Phase 2.

These plans were provided to the NYSDEC in e-mail correspondence from Arcadis dated November 25, 2014 and January 14, 2015 (included on the attached flash drive). The grading plans were consistent with the intent and fully met the objectives of the RD and RDA and were acknowledged by the NYSDEC during the weekly construction coordination meeting discussions. The grading plans provided subgrade control points for Posillico to backfill and restore these areas. The grading plans accomplished the following: (1) facilitated backfilling of these areas that included multiple adjoining excavations at varying depths; (2) improved surface drainage from the areas by providing a gentle slope downward toward the rainwater runoff sumps in the area (Sumps #2 through #4); and (3) reduced the volume of fill to be imported, which resulted in fewer trucks on the local roadways importing fill to the Site.

EQ imported approximately 2,000 CY of general fill (run-of-bank sand/gravel) from East Coast Mines & Material Corp. (ECM) (NYSDEC Permit #10020) located in East Quogue, New York during the Phase 1 OU4 remedial activities. As required in the RD, EQ had a sieve analysis performed on the material by C.M. Testing Laboratory, Inc. located in Garden City Park, New York. EQ's environmental subcontractor (PES) collected one composite sample from the ECM material for laboratory analysis for PCBs, pesticides, herbicides, SVOCs, VOCs, and metals (including cyanide) for the list of constituents presented in 6 NYCRR Part 375-6.8b. The samples were analyzed by Chemtech located in Mountainside, New Jersey. Based on the analytical results, no compounds were detected above the lower of the commercial use and groundwater protection SCOs presented in 6 NYCRR Part 375-6.8(b). Following the first round of sampling, one composite sample for PCBs, SVOCs, pesticides, herbicides, and metals and two discrete grab samples for VOCs were collected for an additional 1,000 CY prior to importation to the Site, which is consistent with the frequency specified after the first round of characterization sampling detailed in Table 5.4(e)10 of DER-10. The 2,000 CY of material were used to backfill select excavations to prepare the Site for a temporary shut-down pending completion of the site-wide delineation/verification soil sampling program to prepare for the Phase 2 OU4 remedial activities. Compaction testing was performed as required in the RD.

Posillico imported approximately 33,000 CY of clean general fill (run-of-bank sand/gravel) from Beth Moses Cemetery (BMC) located in West Babylon, New York during the Phase 2 OU4 remedial activities. Posillico had a sieve analysis performed on the BMC material by Universal Testing Inspection Services, Inc. located in West Babylon, New York. The sieve analysis results indicated it was similar in gradation to the

existing Site soil. For the first 1,000 CY of BMC material, Posillico collected two composite samples for SVOCs, metals, PCBs, and pesticides, and seven discrete samples for VOCs in accordance with the sampling requirements in Table 5.4(e)10 of DER-10. Arcadis observed the sampling activities at the fill source. Following the first round of sampling, one composite sample was collected for PCBs, SVOCs, pesticides, herbicides, and metals and two discrete grab samples were collected for VOCs for every additional 1,000 CY of material prior to importation to the Site, which is consistent with the frequencies specified in Table 5.4(e)10 of DER-10. The samples were analyzed by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The imported clean fill material met the lower of the restricted commercial use SCOs or the protection of groundwater values presented in 6 NYCRR Part 375-6.8(b) except for a few instances where acetone, chrysene, selenium, or lead were detected at concentrations slightly exceeding the protection of groundwater SCOs but did not exceed the commercial use SCOs. The soil represented by the samples with the slight exceedances was approved for use as fill onsite based on the following rationale for each compound:

- Acetone is a common artifact/contaminant both inside and outside of the laboratory. It was identified in several backfill samples at low levels (below SCOs) except for five samples where the concentrations (i.e., 0.076 ppm, 0.089 ppm, 0.130 ppm, 0.120 ppm, and 0.074 ppm) were only slightly greater than the 0.05 ppm groundwater protection SCO but well-below the 500 ppm commercial use SCO. Some of the acetone results for the other backfill samples were qualified with a “B” indicating that the corresponding result is clearly attributed to laboratory contamination. However, the absence of a “B” qualifier in the other results (including the five samples with exceedances identified above) does not necessarily mean that the acetone in those samples is attributed to the fill (and not laboratory contamination). Based on the VOC data taken as a whole and information on the historical use of the fill source (undeveloped land used as a cemetery), the acetone was determined to be primarily related to the laboratory.
- Chrysene was identified in one sample at a concentration of 1.07 ppm, which only slightly exceeded the 1 ppm groundwater protection SCO. The commercial use SCO for chrysene is 56 ppm. There were low levels of PAHs identified in other backfill samples, but results were all less than the groundwater protection and commercial use SCOs. Considering analytical variability, the true chrysene concentration could be below the groundwater protection SCO. PAHs are fairly

ubiquitous and could be a result of atmospheric deposition or other factor typical of background soil in the area.

- Selenium was identified in a sample at a concentration of 4.08, which slightly exceeding the groundwater protection SCO of 4.0 ppm. The commercial use SCO for selenium is 1,500 ppm. Based on the selenium results for other samples (with concentrations below, but near 4 ppm) and the historical use of the fill source (undeveloped land used as a cemetery), the selenium results in the sample could be due to typical background conditions.
- Lead was identified in one composite sample at a concentration of 911 ppm, which exceeded the 450 ppm groundwater protection SCO but was well-below the 1,000 ppm commercial SCO. Lead was identified in all 31 composite soil samples collected to characterize the imported fill material, with concentrations ranging from 9.5 ppm to 139 ppm. Based on this information, the one lead result exceeding the groundwater protection SCO appears to be an outlier. As indicated above, the fill source consists of undeveloped land used as a cemetery. The fill stockpile at the cemetery was the result of years of excavation for burials (i.e., surplus soil from an undeveloped area). Although the fill characterized by this sample was observed to be visually free of debris, the higher than expected lead result for the one sample may be related to wind-blown material from the surrounding off-site area.

The fill analytical data were provided to and accepted by the NYSDEC prior to fill importation.

A demarcation layer (i.e., orange construction fencing) was placed at the limits shown on Drawing 4 and as described below:

- At the interface between soil at the excavation limits and the imported clean fill backfilled into the excavations; and
- At the interface of the one-foot imported clean soil cover (8-inches of general fill and 4-inches of topsoil) and the underlying soil.

Posillico placed approximately 775,000 SF of demarcation layer at the Site.

The imported clean backfill was placed in approximately one-foot loose lifts and compacted. In-place compaction testing was performed on each lift at a minimum frequency of one sample per 2,500 SF (as required by the RDA) by Posillico's compaction testing subcontractor, MT Group located in Farmingdale, New York.

Posillico imported approximately 6,700 CY of topsoil from Pinelawn Cemetery located in Farmingdale, New York. The topsoil was sampled consistent with DER-10 and as performed for the general fill material imported from BMC. Topsoil samples were sent to York Analytical Laboratories, Inc. located in Stratford, Connecticut for analysis. The topsoil was placed as the top 4-inches of the 1-foot cover system.

Clean general fill from the Beth Moses Cemetery was used to construct part of the soil cover system that extends over the rainwater runoff sumps. With NYSDEC acknowledgement during the weekly construction progress meetings, fill placement in Sumps #2, #3 and #4 was modified and other materials/measures were used to promote drainage from the sumps, as follows:

- *Sump #2:* An estimated 65 CY of 1½-inch crushed limestone was placed in the bottom of Sump #2 to achieve the required 1-foot soil cover system coverage and maintain existing permeability and infiltration rates for this sump, which had a potential to be filled to a higher elevation during heavy storm events than the other sumps (based on its size relative to the drainage area). The side slopes of Sump #2 were formed using the materials and approach described below for Sumps #3 and #4.
- *Sumps #3 and #4:* Imported clean general fill from the Beth Moses Cemetery was used to line the sides and bottom of these sumps, but the 95% relative compaction requirement (i.e., 95% of the maximum dry density as determined by Standard Proctor testing) was waived. Instead of using vibratory compaction, fill compaction was achieved using a “track-in-place” method (i.e., tracking with a bulldozer). Posillico maintained the maximum un-compacted lift thicknesses as specified in the RD and achieved the minimum 1-foot cap thickness.

A more robust erosion control blanket than that proposed in the RDA was used on the side slopes of each sump to minimize potential erosion in the event the sumps were to retain water that limits vegetative growth. East Coast Erosion Control product ECC-3 Coconut Turf Reinforcement Mat was used as an alternative to the North American Green SC150BN erosion control blanket proposed in the RDA.

The analytical results for backfill material used in the OU4 remedial project, in comparison to allowable levels, are presented in Table 1. The areas where backfill was placed at the Site are shown on Drawings 2 and 3.

4.6 Impacts Remaining at the Site

As also described in Section 3.2, the following were the site-specific action levels specified in the ROD and used to determine subsurface soil removal for off-site transportation and disposal during the final remedial action: (1) PCBs >10 ppm to a maximum depth of 10 feet bgs; (2) total PAHs >500 ppm; (3) arsenic > 6 ppm; and (4) cadmium >9.3 ppm. PCBs in surface soil >1 ppm were addressed by constructing a 1-foot soil cover system consisting of 8 inches of general fill over a demarcation layer and 4 inches of topsoil to prevent human exposure to contaminated soil/fill remaining at the Site. The location and extent of impacted subsurface soil remaining at the Site following implementation of remedial activities are discussed below.

The analytical results for samples of reuse materials (crushed concrete, and “scrape area” soil) used as subsurface backfill onsite for the interim and OU4 final remedial activities are summarized in Tables 11 and 12, and laboratory data reports are provided on the attached flash drive. Analytical results for samples that characterize soil remaining at the Site with detected concentrations of PCBs, VOCs/SVOCs, and metals after completion of the remedial activities are presented in Tables 4, 5, and 6, respectively, of the OU4 SMP, which is provided on the attached flash drive. The corresponding sampling locations are shown on Figure 4 of this FER and Figure 3 of the OU4 SMP. Pursuant to NYSDEC’s approval of the site remedy and as indicated in the analytical data tables provided in the OU4 SMP, certain subsurface soil remaining at the Site contains PCBs and other constituents at concentrations greater than commercial SCOs, but the soil is covered by imported clean fill comprising the 1-foot thick soil cover system or is greater than 10 feet bgs. Soil vapor at the Site contains elevated VOC concentrations. However, there is currently no soil vapor intrusion concern at the Site because there are no occupied buildings onsite. The potential soil vapor intrusion exposure pathway associated with future building construction at the Site will be addressed as required by the OU4 SMP (e.g., installation of mitigation system(s) and/or monitoring, as needed).

The final remedial activities performed at the Site resulted in removal of soil found to contain the following: (1) PCBs at concentrations exceeding the 10 ppm subsurface soil cleanup level presented in CP-51/Soil Cleanup Guidance to no greater than 10 feet bgs relative to pre-remediation grade (with one minor exception where soil excavation was extended deeper, as noted previously); (2) total PAHs at concentrations exceeding the 500 ppm threshold presented in CP-51/Soil Cleanup Guidance; and (3) arsenic and cadmium at concentrations exceeding the 16 ppm and 9.3 ppm commercial SCOs presented in 6 NYCRR Part 375-6.8(b). As indicated above, remaining impacted soil

is below the soil cover system and will be addressed by the institutional controls (ICs) consisting of the OU4 SMP and EE. At the completion of the remedial activities, all soil at the Site found to contain PCBs at concentrations greater than 50 ppm had been transported for off-site disposal.

The excavation areas were backfilled using a combination of imported clean fill and reuse material (crushed concrete from the foundation demolition, soil from within the former Plant 1 footprint that was approximately 3 feet above the ground surface (the “scrape area”), and soil provided to Bayer by Oxy from off-site sources). The reuse soils: (1) exhibited no visible sheens or staining; (2) met geotechnical requirements for the planned restoration; and (3) were characterized by analytical results less than SCOs. The imported clean fill material met the lower of the restricted commercial use SCOs or the protection of groundwater values presented in 6 NYCRR Part 375-6.8(b). A demarcation layer (i.e., orange construction fencing) was placed at the limits shown on Drawing 4 and as described in Section 4.5.

Since impacted soil, groundwater, and/or soil vapor remains beneath the Site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual impacts will be performed under the OU4 SMP approved by the NYSDEC.

4.7 Soil Cover System

Exposure to remaining impacts in soil/fill at the Site is prevented by a soil cover system placed over the Site. This cover system is comprised of a minimum 1 foot of clean soil or crushed stone, asphalt pavement, concrete-covered sidewalks, and a concrete loading dock. Drawing 5 shows the location of the 1-foot soil cover system constructed during OU4 and the remaining asphalt pavement and concrete areas. An Excavation Work Plan (EWP), which outlines the procedures required in the event the cover system and/or underlying residual impacts are disturbed, is provided as an appendix to the OU4 SMP.

4.8 Other Engineering Controls

The remedy for the Site did not require the construction of any other engineering control systems.

4.9 Institutional Controls

The site remedy requires that an EE be placed on the property to: (1) implement, maintain, and monitor the Engineering Controls; (2) prevent future exposure to remaining impacts by controlling disturbances of the subsurface impacts; (3) limit the use and development of the Site to commercial or industrial uses only; and (4) prohibit the use of groundwater without necessary water quality treatment as required by the NYSDOH or the Nassau County Health Department to render it safe for use as drinking water or for industrial purposes.

The EE for the Site was executed by the NYSDEC on June 19, 2017, and filed with the Nassau County Clerk on June 29, 2017. The County Recording Identifier number for this filing is 2017-00063963. A copy of the easement and proof of filing is provided in Appendix A.

4.10 Deviations from the Remedial Design and Remedial Design Addendum

The OU4 remedial activities were completed in general conformance with the RD and RDA with the following exceptions:

- *Remedial Design Modification:* The RD modification was presented in a May 23, 2013 letter from Arcadis to the NYSDEC and consisted of a revised soil handling method for soil removed from the “B” Group excavation areas. The reason for the RD modification was to address the presence of constituents of interest exceeding site cleanup levels in verification soil samples collected from the limits of excavation areas where soil was originally proposed for onsite reuse as subsurface fill. The RD was revised to require that the reuse of soil at the Site be based not only on the analytical results for post-excavation composite characterization samples (samples collected to characterize each approximately 500 CY of soil removed from the “B” Group excavation areas), but also based on the analytical results for verification soil samples collected from the excavation limits. In order for a stockpile of excavated “B” Group soil to be considered acceptable for re-use as subsurface fill, the following had to occur (in addition to meeting the RD requirements that there be no visible staining or obvious odors):
 - The analytical results for the composite characterization sample had to be less than the site cleanup levels for PCBs, SVOCs, and metals (arsenic and cadmium) outlined in Subsection 3.6.1 of the RD.

- The analytical results for the corresponding verification soil samples (i.e., the samples from the limits of the individual excavation areas where soil was removed and combined into the stockpile) had to meet the site cleanup levels for the constituents of interest associated with each excavation area.

The RD modification resulted in the “B” Group excavation area soil conservatively being transported off-site for disposal rather than being reused onsite as subsurface fill.

- *Remedial Design Addendum Modification:* The RDA Modification was presented in a November 19, 2014 letter from Arcadis to the NYSDEC. The RDA modification was prepared in response to NYSDEC comments on the “draft” RDA requesting additional sampling in and around Phase 2 OU4 proposed excavation areas 16B-4 and 18C (the former aboveground storage tank farm area) located in the southern end of the Site. The RDA modification summarized the laboratory analytical results for the four samples collected in the area (sampling locations SB-280 through SB-283) and described the addition of Excavation Area 27C to address PCB-impacted soil discovered in surface soil at one of the sampling locations.

4.11 Green Remediation Components

The following green remedial components were used during the remedial action:

- *Imported Clean Fill* – Approximately 33,000 CY of general fill and 6,700 CY of topsoil were imported from local suppliers, Beth Moses Cemetery and Pinelawn Cemetery, respectively. The fill and topsoil was virgin soil accumulated from stripping soil during new grave site preparation. The materials were repurposed as fill for the Site rather than importing mined fill material from potentially long distances from the Site. Both cemeteries are located approximately 10 miles from the Site so local hauling routes and companies were used to import the materials, which reduced overall carbon emissions for the project.
- *Steel Recycling* – Approximately 22 tons of steel pipes and underground steel tanks removed during the excavation activities and 10 tons of steel building materials from the Administration Building demolition, were transported off-site for recycling.
- *Reused/Repurposed Clean Fill* – Approximately 80 CY from another site owned by OXY for subsurface fill.

TABLES



TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		ECM-CF-1 05/30/13	ECM-CF-C2 06/24/13	ECM-CF-C3 07/15/13	ECM-CF-G2 06/24/13	ECM-CF-G3 06/24/13	ECM-CF-G4 07/15/13	ECM-CF-G5 07/15/13
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	ECM-CF-1	ECM-CF-C2	ECM-CF-C3	ECM-CF-G2	ECM-CF-G3	ECM-CF-G4	ECM-CF-G5
PCBs									
Total PCBs	1	3.2	<0.00360 [<0.00360]	<0.00350 [<0.00350]	<0.00340 [<0.00340]	NA	NA	NA	NA
VOCs									
1,1,1-Trichloroethane	500	0.68	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,1-Dichloroethane	240	0.27	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,1-Dichloroethene	500	0.33	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,2,4-Trimethylbenzene	190	3.6	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,2-Dichlorobenzene	500	1.1	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,2-Dichloroethane	30	0.02	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,3,5- Trimethylbenzene	190	8.4	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,3-Dichlorobenzene	280	2.4	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
1,4- Dioxane	130	0.1	NA [NA]	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	130	1.8	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
2-Butanone (MEK)	500	0.12	<0.0127 [<0.0128]	NA	NA	<0.00710 [<0.00760]	<0.00720	<0.00640 [<0.00720]	<0.00730
Acetone	500	0.05	<0.0127 [<0.0128]	NA	NA	0.0120 J [0.0184 J]	0.00960 J	<0.00210 [<0.00240]	<0.00240
Benzene	44	0.06	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Carbon tetrachloride	22	0.76	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Chlorobenzene	500	1.1	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Chloroform	350	0.37	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
cis-1,2-Dichloroethene	500	0.25	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Ethylbenzene	--	1	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Methyl tert-butyl ether	500	0.93	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Methylene chloride	500	0.05	0.00170 J [0.00160 J]	NA	NA	<0.000480 [<0.000510]	<0.000480	0.00120 J [<0.000480]	0.00210 J
n-Butylbenzene	500	12	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
n-Propylbenzene	500	3.9	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
sec-Butylbenzene	500	11	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
tert-Butylbenzene	500	5.9	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Tetrachloroethene	150	1.3	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Toluene	500	0.7	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
trans-1,2-Dichloroethene	500	0.19	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Trichloroethene	200	0.47	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Vinyl chloride	13	0.02	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480
Xylene (m,p)	--	--	<0.00510 [<0.00510]	NA	NA	<0.000950 [<0.00100]	<0.000960	<0.000850 [<0.000960]	<0.000970
Xylene (o)	--	--	<0.00250 [<0.00260]	NA	NA	<0.000480 [<0.000510]	<0.000480	<0.000420 [<0.000480]	<0.000480

TABLE 1
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FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		ECM-CF-1 05/30/13	ECM-CF-C2 06/24/13	ECM-CF-C3 07/15/13	ECM-CF-G2 06/24/13	ECM-CF-G3 06/24/13	ECM-CF-G4 07/15/13	ECM-CF-G5 07/15/13
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	ECM-CF-1	ECM-CF-C2	ECM-CF-C3	ECM-CF-G2	ECM-CF-G3	ECM-CF-G4	ECM-CF-G5
SVOCs									
1,4- Dioxane	NA	NA	<0.0715 [<0.0715]	<0.0690 [<0.0692]	<0.0688 [<0.0685]	NA	NA	NA	NA
Acenaphthene	500	98	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Acenaphthylene	500	107	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Anthracene	500	1,000	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Benzo(a)anthracene	5.6	1	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Benzo(a)pyrene	1	22	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	1.7	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Benzo(ghi)perylene	500	1,000	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Benzo(k)fluoranthene	56	1.7	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Chrysene	56	1	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Cresol (m,p)	--	--	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Cresol (o)	500	0.33	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	1,000	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Dibenzofuran	350	210	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Fluoranthene	500	1,000	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Fluorene	500	386	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Hexachlorobenzene	6	3.2	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Naphthalene	500	12	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Pentachlorophenol	6.7	0.8	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Phenanthrene	500	1,000	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Phenol	500	0.33	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Pyrene	500	1,000	<0.0358 [<0.0358]	<0.0345 [<0.0346]	<0.0344 [<0.0342]	NA	NA	NA	NA
Total PAHs	--	--	<0.286 [<0.286]	<0.276 [<0.277]	<0.275 [<0.274]	NA	NA	NA	NA
Pesticides									
4,4'-DDD	92	14	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
4,4'-DDE	62	17	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
4,4'-DDT	47	136	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Aldrin	0.68	0.19	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
alpha-BHC	3.4	0.02	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
beta-BHC	3	0.09	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Chlordane	24	2.9	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
delta-BHC	500	0.25	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Dieldrin	1.4	0.1	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Endosulfan I	200	102	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Endosulfan II	200	102	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Endosulfan Sulfate	200	1,000	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Endrin	89	0.06	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
gamma-BHC (Lindane)	9.2	0.1	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA
Heptachlor	15	0.38	<0.000353 [<0.000354]	<0.000342 [<0.000342]	<0.000340 [<0.000339]	NA	NA	NA	NA

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125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		ECM-CF-1 05/30/13	ECM-CF-C2 06/24/13	ECM-CF-C3 07/15/13	ECM-CF-G2 06/24/13	ECM-CF-G3 06/24/13	ECM-CF-G4 07/15/13	ECM-CF-G5 07/15/13
	Commercial SCOs	Groundwater Protection SCOs	ECM-CF-1	ECM-CF-C2	ECM-CF-C3	ECM-CF-G2	ECM-CF-G3	ECM-CF-G4	ECM-CF-G5
Herbicides									
2,4,5-TP Acid (Silvex)	500	3.8	<0.0178 [<0.0179]	<0.0173 [<0.0173]	<0.0172 [<0.0171]	NA	NA	NA	NA
Inorganics									
Arsenic	16	16	3.24 [2.78]	0.770 [0.920]	0.470 [0.370 J]	NA	NA	NA	NA
Barium	400	820	14.3 [12.3]	8.37 [10.8]	8.61 [8.20]	NA	NA	NA	NA
Beryllium	590	47	0.340 [0.290]	0.110 J [0.140]	<0.0650 [<0.0650]	NA	NA	NA	NA
Cadmium	9.3	7.5	<0.0650 [<0.0700]	0.0500 J [0.0600 J]	<0.0650 [<0.0650]	NA	NA	NA	NA
Chromium	--	--	NA	NA	NA	NA	NA	NA	NA
Chromium, hexavalent	400	19	<0.214 [<0.214]	0.100 J [<0.208]	<0.206 [<0.206]	NA	NA	NA	NA
Chromium, trivalent	1,500	--	4.05 [4.30]	2.80 [3.86]	2.10 [2.02]	NA	NA	NA	NA
Copper	270	1,720	3.67 [3.81]	2.27 [3.22]	1.85 [1.58]	NA	NA	NA	NA
Cyanide, Total	27	40	0.0530 J [<0.134]	0.0890 J [<0.130]	<0.129 [<0.128]	NA	NA	NA	NA
Lead	1,000	450	4.12 [2.00]	1.58 [1.98]	1.92 [1.78]	NA	NA	NA	NA
Manganese	10,000	2,000	77.7 [68.5]	53.7 [67.7]	40.4 [35.8]	NA	NA	NA	NA
Mercury	2.8	0.73	0.0100 J [0.0100 J]	<0.00500 [<0.00500]	0.00700 J [0.00600 J]	NA	NA	NA	NA
Nickel	310	130	3.53 [3.13]	1.97 [2.69]	1.50 [1.58]	NA	NA	NA	NA
Selenium	1,500	4	1.18 [1.23]	0.380 J [0.540]	<0.220 [<0.220]	NA	NA	NA	NA
Silver	1,500	8.3	0.980 [1.26]	<0.105 [<0.115]	<0.110 [<0.110]	NA	NA	NA	NA
Zinc	10,000	2,480	10.0 [10.3]	6.61 [8.33]	7.71 [7.27]	NA	NA	NA	NA
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	NA	NA	NA	NA	NA	NA	NA
pH	--	--	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-1C1 09/08/14	BMC-CF-1C2 09/08/14	BMC-CF-1G1 09/08/14	BMC-CF-1G2 09/08/14	BMC-CF-1G3 09/08/14	BMC-CF-1G4 09/08/14	BMC-CF-1G5 09/08/14	BMC-CF-1G6 09/08/14	BMC-CF-1G7 09/08/14	BMC-CF-2C1 10/09/14	BMC-CF-2G1 10/09/14	BMC-CF-2G2 10/09/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	Comp-1	Comp-2	1	2	3	4	5	6	7	BMC-CF-2C1	BMC-CF-2G1	BMC-CF-2G2
PCBs														
Total PCBs	1	3.2	<0.0179	<0.0173	NA	NA	NA	NA	NA	NA	NA	<0.0174	NA	NA
VOCs														
1,1,1-Trichloroethane	500	0.68	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,1-Dichloroethane	240	0.27	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,1-Dichloroethene	500	0.33	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,2,4-Trimethylbenzene	190	3.6	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,2-Dichlorobenzene	500	1.1	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,2-Dichloroethane	30	0.02	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,3,5- Trimethylbenzene	190	8.4	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,3-Dichlorobenzene	280	2.4	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
1,4- Dioxane	130	0.1	NA	NA	<0.0430	<0.0530	<0.0480	<0.0510	<0.0750	<0.0480	<0.0360	NA	<0.0880	<0.0590
1,4-Dichlorobenzene	130	1.8	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
2-Butanone (MEK)	500	0.12	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	0.00390
Acetone	500	0.05	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	0.00730	NA	<0.00880	0.0400
Benzene	44	0.06	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Carbon tetrachloride	22	0.76	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Chlorobenzene	500	1.1	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Chloroform	350	0.37	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
cis-1,2-Dichloroethene	500	0.25	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Ethylbenzene	--	1	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Methyl tert-butyl ether	500	0.93	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Methylene chloride	500	0.05	NA	NA	<0.00210	<0.00270	0.00330 J	<0.00260	0.00540 J	<0.00240	0.00730	NA	<0.00880	<0.00590
n-Butylbenzene	500	12	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
n-Propylbenzene	500	3.9	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
sec-Butylbenzene	500	11	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
tert-Butylbenzene	500	5.9	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Tetrachloroethene	150	1.3	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Toluene	500	0.7	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
trans-1,2-Dichloroethene	500	0.19	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Trichloroethene	200	0.47	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Vinyl chloride	13	0.02	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300
Xylene (m,p)	--	--	NA	NA	<0.00430	<0.00530	<0.00480	<0.00510	<0.00750	<0.00480	<0.00360	NA	<0.00880	<0.00590
Xylene (o)	--	--	NA	NA	<0.00210	<0.00270	<0.00240	<0.00260	<0.00370	<0.00240	<0.00180	NA	<0.00440	<0.00300

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-1C1 09/08/14	BMC-CF-1C2 09/08/14	BMC-CF-1G1 09/08/14	BMC-CF-1G2 09/08/14	BMC-CF-1G3 09/08/14	BMC-CF-1G4 09/08/14	BMC-CF-1G5 09/08/14	BMC-CF-1G6 09/08/14	BMC-CF-1G7 09/08/14	BMC-CF-2C1 10/09/14	BMC-CF-2G1 10/09/14	BMC-CF-2G2 10/09/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	Comp-1	Comp-2	1	2	3	4	5	6	7	BMC-CF-2C1	BMC-CF-2G1	BMC-CF-2G2
SVOCs														
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Acenaphthylene	500	107	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Anthracene	500	1,000	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Benzo(a)anthracene	5.6	1	<0.136	0.280 JD	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Benzo(a)pyrene	1	22	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Benzo(b)fluoranthene	5.6	1.7	<0.136	0.141 JD	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Benzo(ghi)perylene	500	1,000	<0.271	<0.261	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Benzo(k)fluoranthene	56	1.7	<0.136	0.158 JD	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Chrysene	56	1	0.150 JD	0.477 JD	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Cresol (m,p)	--	--	<0.271	<0.261	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Cresol (o)	500	0.33	<0.271	<0.261	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Dibenzo(a,h)anthracene	0.56	1,000	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Dibenzofuran	350	210	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Fluoranthene	500	1,000	0.220 JD	1.04 D	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Fluorene	500	386	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Hexachlorobenzene	6	3.2	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Naphthalene	500	12	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Pentachlorophenol	6.7	0.8	<0.271	<0.261	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Phenanthrene	500	1,000	<0.136	0.572 D	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Phenol	500	0.33	<0.136	<0.131	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Pyrene	500	1,000	0.201 JD	1.01 D	NA	NA	NA	NA	NA	NA	NA	<0.174	NA	NA
Total PAHs	--	--	1.52 J	4.33 J	NA	NA	NA	NA	NA	NA	NA	<1.39	NA	NA
Pesticides														
4,4'-DDD	92	14	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
4,4'-DDE	62	17	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
4,4'-DDT	47	136	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Aldrin	0.68	0.19	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
alpha-BHC	3.4	0.02	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
beta-BHC	3	0.09	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Chlordane	24	2.9	0.00533 D	0.00515 D	NA	NA	NA	NA	NA	NA	NA	0.00305	NA	NA
delta-BHC	500	0.25	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Dieldrin	1.4	0.1	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Endosulfan I	200	102	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Endosulfan II	200	102	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Endosulfan Sulfate	200	1,000	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Endrin	89	0.06	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
gamma-BHC (Lindane)	9.2	0.1	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA
Heptachlor	15	0.38	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA

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FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-1C1 09/08/14 Comp-1	BMC-CF-1C2 09/08/14 Comp-2	BMC-CF-1G1 09/08/14 1	BMC-CF-1G2 09/08/14 2	BMC-CF-1G3 09/08/14 3	BMC-CF-1G4 09/08/14 4	BMC-CF-1G5 09/08/14 5	BMC-CF-1G6 09/08/14 6	BMC-CF-1G7 09/08/14 7	BMC-CF-2C1 10/09/14 BMC-CF-2C1	BMC-CF-2G1 10/09/14 BMC-CF-2G1	BMC-CF-2G2 10/09/14 BMC-CF-2G2
	Commercial SCOs	Groundwater Protection SCOs												
Herbicides														
2,4,5-TP Acid (Silvex)	500	3.8	<0.0215	<0.0207	NA	NA	NA	NA	NA	NA	NA	<0.0209	NA	NA
Inorganics														
Arsenic	16	16	3.36	5.59	NA	NA	NA	NA	NA	NA	NA	3.51	NA	NA
Barium	400	820	23.0	20.3	NA	NA	NA	NA	NA	NA	NA	16.0	NA	NA
Beryllium	590	47	<0.108	<0.104	NA	NA	NA	NA	NA	NA	NA	<0.105	NA	NA
Cadmium	9.3	7.5	<0.323	<0.311	NA	NA	NA	NA	NA	NA	NA	<0.314	NA	NA
Chromium	--	--	8.07	12.6	NA	NA	NA	NA	NA	NA	NA	7.23	NA	NA
Chromium, hexavalent	400	19	<0.539	<0.519	NA	NA	NA	NA	NA	NA	NA	<0.523	NA	NA
Chromium, trivalent	1,500	--	8.07	12.6	NA	NA	NA	NA	NA	NA	NA	6.92	NA	NA
Copper	270	1,720	8.72	9.61	NA	NA	NA	NA	NA	NA	NA	4.78	NA	NA
Cyanide, Total	27	40	<0.539	<0.519	NA	NA	NA	NA	NA	NA	NA	<0.523	NA	NA
Lead	1,000	450	20.5	14.6	NA	NA	NA	NA	NA	NA	NA	9.48	NA	NA
Manganese	10,000	2,000	123	1,570	NA	NA	NA	NA	NA	NA	NA	88.8	NA	NA
Mercury	2.8	0.73	0.0331	<0.0311	NA	NA	NA	NA	NA	NA	NA	<0.0314	NA	NA
Nickel	310	130	7.25	11.8	NA	NA	NA	NA	NA	NA	NA	5.73	NA	NA
Selenium	1,500	4	<1.08	1.43	NA	NA	NA	NA	NA	NA	NA	1.31	NA	NA
Silver	1,500	8.3	<0.539	<0.519	NA	NA	NA	NA	NA	NA	NA	<0.523	NA	NA
Zinc	10,000	2,480	36.8	20.1	NA	NA	NA	NA	NA	NA	NA	17.3	NA	NA
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	92.8	96.4	96.2	92.4	94.1	96.5	98.5	98.4	97.1	95.5	88.8	96.1
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-3C1 10/09/14	BMC-CF-3G1 10/09/14	BMC-CF-3G2 10/09/14	BMC-CF-4C1 10/17/14	BMC-CF-4G1 10/17/14	BMC-CF-4G2 10/17/14	BMC-CF-5C1 10/17/14	BMC-CF-5G1 10/17/14	BMC-CF-5G2 10/17/14	BMC-CF-6C1 10/17/14	BMC-CF-6G1 10/17/14	BMC-CF-6G2 10/17/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-3C1	BMC-CF-3G1	BMC-CF-3G2	BMC-CF-4C1	BMC-CF-4G1	BMC-CF-4G2	BMC-CF-5C1	BMC-CF-5G1	BMC-CF-5G2	BMC-CF-6C1	BMC-CF-6G1	BMC-CF-6G2
PCBs														
Total PCBs	1	3.2	<0.0173	NA	NA	<0.0185	NA	NA	<0.0180	NA	NA	<0.0182	NA	NA
VOCs														
1,1,1-Trichloroethane	500	0.68	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,1-Dichloroethane	240	0.27	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,1-Dichloroethene	500	0.33	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,2,4-Trimethylbenzene	190	3.6	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,2-Dichlorobenzene	500	1.1	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,2-Dichloroethane	30	0.02	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,3,5- Trimethylbenzene	190	8.4	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,3-Dichlorobenzene	280	2.4	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
1,4- Dioxane	130	0.1	NA	<0.0930	<0.0800	NA	<0.0800	<0.0990	NA	<0.120	<0.110	NA	<0.100	<0.120
1,4-Dichlorobenzene	130	1.8	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
2-Butanone (MEK)	500	0.12	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Acetone	500	0.05	NA	<0.00930	<0.00800	NA	<0.00800	<0.00990	NA	<0.0120	<0.0110	NA	<0.0100	<0.0120
Benzene	44	0.06	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Carbon tetrachloride	22	0.76	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Chlorobenzene	500	1.1	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Chloroform	350	0.37	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
cis-1,2-Dichloroethene	500	0.25	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Ethylbenzene	--	1	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Methyl tert-butyl ether	500	0.93	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Methylene chloride	500	0.05	NA	<0.00930	<0.00800	NA	<0.00800	<0.00990	NA	<0.0120	<0.0110	NA	<0.0100	<0.0120
n-Butylbenzene	500	12	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
n-Propylbenzene	500	3.9	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
sec-Butylbenzene	500	11	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
tert-Butylbenzene	500	5.9	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Tetrachloroethene	150	1.3	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Toluene	500	0.7	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
trans-1,2-Dichloroethene	500	0.19	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Trichloroethene	200	0.47	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Vinyl chloride	13	0.02	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590
Xylene (m,p)	--	--	NA	<0.00930	<0.00800	NA	<0.00800	<0.00990	NA	<0.0120	<0.0110	NA	<0.0100	<0.0120
Xylene (o)	--	--	NA	<0.00460	<0.00400	NA	<0.00400	<0.00490	NA	<0.00580	<0.00540	NA	<0.00510	<0.00590

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-3C1 10/09/14	BMC-CF-3G1 10/09/14	BMC-CF-3G2 10/09/14	BMC-CF-4C1 10/17/14	BMC-CF-4G1 10/17/14	BMC-CF-4G2 10/17/14	BMC-CF-5C1 10/17/14	BMC-CF-5G1 10/17/14	BMC-CF-5G2 10/17/14	BMC-CF-6C1 10/17/14	BMC-CF-6G1 10/17/14	BMC-CF-6G2 10/17/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-3C1	BMC-CF-3G1	BMC-CF-3G2	BMC-CF-4C1	BMC-CF-4G1	BMC-CF-4G2	BMC-CF-5C1	BMC-CF-5G1	BMC-CF-5G2	BMC-CF-6C1	BMC-CF-6G1	BMC-CF-6G2
SVOCs														
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Acenaphthylene	500	107	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Anthracene	500	1,000	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Benzo(a)anthracene	5.6	1	<0.173	NA	NA	<0.185	NA	NA	0.0577 J	NA	NA	0.229 JD	NA	NA
Benzo(a)pyrene	1	22	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	0.119 JD	NA	NA
Benzo(b)fluoranthene	5.6	1.7	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	0.135 JD	NA	NA
Benzo(ghi)perylene	500	1,000	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Benzo(k)fluoranthene	56	1.7	<0.173	NA	NA	<0.185	NA	NA	0.0458 J	NA	NA	0.153 JD	NA	NA
Chrysene	56	1	<0.173	NA	NA	0.0485 J	NA	NA	0.0789 J	NA	NA	0.300 JD	NA	NA
Cresol (m,p)	--	--	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Cresol (o)	500	0.33	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Dibenzo(a,h)anthracene	0.56	1,000	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Dibenzofuran	350	210	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Fluoranthene	500	1,000	<0.173	NA	NA	0.0930 J	NA	NA	0.138 J	NA	NA	0.486 D	NA	NA
Fluorene	500	386	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Hexachlorobenzene	6	3.2	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Naphthalene	500	12	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Pentachlorophenol	6.7	0.8	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Phenanthrene	500	1,000	<0.173	NA	NA	<0.185	NA	NA	0.0483 J	NA	NA	0.159 JD	NA	NA
Phenol	500	0.33	<0.173	NA	NA	<0.185	NA	NA	<0.180	NA	NA	<0.364	NA	NA
Pyrene	500	1,000	<0.173	NA	NA	0.0741 J	NA	NA	0.115 J	NA	NA	0.390 D	NA	NA
Total PAHs	--	--	<1.38	NA	NA	1.42 J	NA	NA	1.38 J	NA	NA	3.43 J	NA	NA
Pesticides														
4,4'-DDD	92	14	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
4,4'-DDE	62	17	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
4,4'-DDT	47	136	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Aldrin	0.68	0.19	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
alpha-BHC	3.4	0.02	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
beta-BHC	3	0.09	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Chlordane	24	2.9	<0.00165	NA	NA	0.0106 D	NA	NA	0.00887 D	NA	NA	0.00934 D	NA	NA
delta-BHC	500	0.25	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Dieldrin	1.4	0.1	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Endosulfan I	200	102	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Endosulfan II	200	102	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Endosulfan Sulfate	200	1,000	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Endrin	89	0.06	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
gamma-BHC (Lindane)	9.2	0.1	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA
Heptachlor	15	0.38	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-3C1 10/09/14	BMC-CF-3G1 10/09/14	BMC-CF-3G2 10/09/14	BMC-CF-4C1 10/17/14	BMC-CF-4G1 10/17/14	BMC-CF-4G2 10/17/14	BMC-CF-5C1 10/17/14	BMC-CF-5G1 10/17/14	BMC-CF-5G2 10/17/14	BMC-CF-6C1 10/17/14	BMC-CF-6G1 10/17/14	BMC-CF-6G2 10/17/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-3C1	BMC-CF-3G1	BMC-CF-3G2	BMC-CF-4C1	BMC-CF-4G1	BMC-CF-4G2	BMC-CF-5C1	BMC-CF-5G1	BMC-CF-5G2	BMC-CF-6C1	BMC-CF-6G1	BMC-CF-6G2
Herbicides														
2,4,5-TP Acid (Silvex)	500	3.8	<0.0208	NA	NA	<0.0222	NA	NA	<0.0216	NA	NA	<0.0218	NA	NA
Inorganics														
Arsenic	16	16	3.15	NA	NA	3.15	NA	NA	3.05	NA	NA	6.35	NA	NA
Barium	400	820	17.0	NA	NA	20.6	NA	NA	18.5	NA	NA	38.4	NA	NA
Beryllium	590	47	<0.104	NA	NA	<0.111	NA	NA	<0.108	NA	NA	<0.109	NA	NA
Cadmium	9.3	7.5	<0.312	NA	NA	<0.333	NA	NA	<0.324	NA	NA	<0.327	NA	NA
Chromium	--	--	8.04	NA	NA	8.79	NA	NA	7.39	NA	NA	9.63	NA	NA
Chromium, hexavalent	400	19	<0.520	NA	NA	<0.556	NA	NA	<0.540	NA	NA	<0.546	NA	NA
Chromium, trivalent	1,500	--	7.73	NA	NA	8.79	NA	NA	7.39	NA	NA	9.63	NA	NA
Copper	270	1,720	5.05	NA	NA	6.30	NA	NA	6.23	NA	NA	14.7	NA	NA
Cyanide, Total	27	40	<0.520	NA	NA	<0.556	NA	NA	<0.540	NA	NA	<0.546	NA	NA
Lead	1,000	450	10.2	NA	NA	13.5	NA	NA	13.3	NA	NA	38.4	NA	NA
Manganese	10,000	2,000	103	NA	NA	104	NA	NA	99.6	NA	NA	174	NA	NA
Mercury	2.8	0.73	<0.0312	NA	NA	0.0379	NA	NA	0.0611	NA	NA	0.0821	NA	NA
Nickel	310	130	6.16	NA	NA	8.03	NA	NA	6.55	NA	NA	10.3	NA	NA
Selenium	1,500	4	1.16	NA	NA	<1.11	NA	NA	<1.08	NA	NA	<1.09	NA	NA
Silver	1,500	8.3	<0.520	NA	NA	<0.556	NA	NA	<0.540	NA	NA	<0.546	NA	NA
Zinc	10,000	2,480	17.4	NA	NA	23.4	NA	NA	21.0	NA	NA	49.4	NA	NA
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	96.1	93.6	98.0	90.0	97.4	82.9	92.5	93.3	82.7	91.6	91.6	91.1
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-7C1 10/17/14	BMC-CF-7G1 10/17/14	BMC-CF-7G2 10/17/14	BMC-CF-8C1 10/17/14	BMC-CF-8G1 10/17/14	BMC-CF-8G2 10/17/14	BMC-CF-9C1 10/28/14	BMC-CF-9G1 10/28/14	BMC-CF-9G2 10/28/14	BMC-CF-10C1 10/28/14	BMC-CF-10G1 10/28/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-7C1	BMC-CF-7G1	BMC-CF-7G2	BMC-CF-8C1	BMC-CF-8G1	BMC-CF-8G2	BMC-CF-9C1	BMC-CF-9G1	BMC-CF-9G2	BMC-CF-10C1	BMC-CF-10G1
PCBs													
Total PCBs	1	3.2	<0.0188	NA	NA	<0.0190	NA	NA	0.0585	NA	NA	<0.0198	NA
VOCs													
1,1,1-Trichloroethane	500	0.68	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,1-Dichloroethane	240	0.27	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,1-Dichloroethene	500	0.33	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,2,4-Trimethylbenzene	190	3.6	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,2-Dichlorobenzene	500	1.1	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,2-Dichloroethane	30	0.02	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,3,5- Trimethylbenzene	190	8.4	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,3-Dichlorobenzene	280	2.4	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
1,4- Dioxane	130	0.1	NA	<0.0920	<0.0970	NA	<0.0870	<0.100	NA	<0.110	<0.110	NA	<0.0830
1,4-Dichlorobenzene	130	1.8	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
2-Butanone (MEK)	500	0.12	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Acetone	500	0.05	NA	<0.00920	<0.00970	NA	<0.00870	<0.0100	NA	<0.0110	<0.0110	NA	0.0430
Benzene	44	0.06	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Carbon tetrachloride	22	0.76	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Chlorobenzene	500	1.1	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Chloroform	350	0.37	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
cis-1,2-Dichloroethene	500	0.25	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Ethylbenzene	--	1	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Methyl tert-butyl ether	500	0.93	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Methylene chloride	500	0.05	NA	<0.00920	<0.00970	NA	<0.00870	<0.0100	NA	<0.0110	<0.0110	NA	<0.00830
n-Butylbenzene	500	12	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
n-Propylbenzene	500	3.9	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
sec-Butylbenzene	500	11	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
tert-Butylbenzene	500	5.9	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Tetrachloroethene	150	1.3	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Toluene	500	0.7	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
trans-1,2-Dichloroethene	500	0.19	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Trichloroethene	200	0.47	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Vinyl chloride	13	0.02	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410
Xylene (m,p)	--	--	NA	<0.00920	<0.00970	NA	<0.00870	<0.0100	NA	<0.0110	<0.0110	NA	<0.00830
Xylene (o)	--	--	NA	<0.00460	<0.00480	NA	<0.00440	<0.00500	NA	<0.00550	<0.00550	NA	<0.00410

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-7C1 10/17/14	BMC-CF-7G1 10/17/14	BMC-CF-7G2 10/17/14	BMC-CF-8C1 10/17/14	BMC-CF-8G1 10/17/14	BMC-CF-8G2 10/17/14	BMC-CF-9C1 10/28/14	BMC-CF-9G1 10/28/14	BMC-CF-9G2 10/28/14	BMC-CF-10C1 10/28/14	BMC-CF-10G1 10/28/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-7C1	BMC-CF-7G1	BMC-CF-7G2	BMC-CF-8C1	BMC-CF-8G1	BMC-CF-8G2	BMC-CF-9C1	BMC-CF-9G1	BMC-CF-9G2	BMC-CF-10C1	BMC-CF-10G1
SVOCs													
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Acenaphthylene	500	107	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Anthracene	500	1,000	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	0.179 J	NA
Benzo(a)anthracene	5.6	1	0.245 JD	NA	NA	0.176 JD	NA	NA	0.176 J	NA	NA	0.341 J	NA
Benzo(a)pyrene	1	22	0.116 JD	NA	NA	<0.379	NA	NA	0.141 J	NA	NA	0.179 J	NA
Benzo(b)fluoranthene	5.6	1.7	0.132 JD	NA	NA	<0.379	NA	NA	0.151 J	NA	NA	0.202 J	NA
Benzo(ghi)perylene	500	1,000	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Benzo(k)fluoranthene	56	1.7	0.161 JD	NA	NA	0.110 JD	NA	NA	0.151 J	NA	NA	0.226 J	NA
Chrysene	56	1	0.451 D	NA	NA	0.253 JD	NA	NA	0.202 J	NA	NA	0.347 J	NA
Cresol (m,p)	--	--	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Cresol (o)	500	0.33	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Dibenzo(a,h)anthracene	0.56	1,000	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Dibenzofuran	350	210	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Fluoranthene	500	1,000	0.897 D	NA	NA	0.537 D	NA	NA	0.371 J	NA	NA	0.809	NA
Fluorene	500	386	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Hexachlorobenzene	6	3.2	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	0.101 J	NA
Naphthalene	500	12	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Pentachlorophenol	6.7	0.8	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Phenanthrene	500	1,000	0.487 D	NA	NA	0.357 JD	NA	NA	0.149 J	NA	NA	0.653	NA
Phenol	500	0.33	<0.376	NA	NA	<0.379	NA	NA	<0.373	NA	NA	<0.397	NA
Pyrene	500	1,000	0.706 D	NA	NA	0.445 D	NA	NA	0.271 J	NA	NA	0.675	NA
Total PAHs	--	--	4.70 J	NA	NA	3.77 J	NA	NA	3.10 J	NA	NA	4.90 J	NA
Pesticides													
4,4'-DDD	92	14	0.00285 D	NA	NA	0.00228 D	NA	NA	<0.00165	NA	NA	0.00597	NA
4,4'-DDE	62	17	0.00189 D	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00376	NA
4,4'-DDT	47	136	0.00287 D	NA	NA	0.00288 D	NA	NA	<0.00165	NA	NA	<0.00165	NA
Aldrin	0.68	0.19	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
alpha-BHC	3.4	0.02	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
beta-BHC	3	0.09	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Chlordane	24	2.9	0.00465 D	NA	NA	0.00387 D	NA	NA	0.00725	NA	NA	0.0144	NA
delta-BHC	500	0.25	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Dieldrin	1.4	0.1	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan I	200	102	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan II	200	102	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan Sulfate	200	1,000	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endrin	89	0.06	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
gamma-BHC (Lindane)	9.2	0.1	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Heptachlor	15	0.38	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-7C1 10/17/14	BMC-CF-7G1 10/17/14	BMC-CF-7G2 10/17/14	BMC-CF-8C1 10/17/14	BMC-CF-8G1 10/17/14	BMC-CF-8G2 10/17/14	BMC-CF-9C1 10/28/14	BMC-CF-9G1 10/28/14	BMC-CF-9G2 10/28/14	BMC-CF-10C1 10/28/14	BMC-CF-10G1 10/28/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-7C1	BMC-CF-7G1	BMC-CF-7G2	BMC-CF-8C1	BMC-CF-8G1	BMC-CF-8G2	BMC-CF-9C1	BMC-CF-9G1	BMC-CF-9G2	BMC-CF-10C1	BMC-CF-10G1
Herbicides													
2,4,5-TP Acid (Silvex)	500	3.8	<0.0226	NA	NA	<0.0228	NA	NA	<0.0224	NA	NA	<0.0238	NA
Inorganics													
Arsenic	16	16	2.11	NA	NA	3.88	NA	NA	5.56	NA	NA	4.86	NA
Barium	400	820	20.8	NA	NA	66.7	NA	NA	32.6	NA	NA	27.7	NA
Beryllium	590	47	<0.113	NA	NA	<0.114	NA	NA	<0.112	NA	NA	<0.119	NA
Cadmium	9.3	7.5	<0.339	NA	NA	2.28	NA	NA	<0.336	NA	NA	<0.357	NA
Chromium	--	--	7.22	NA	NA	10.3	NA	NA	12.0	NA	NA	9.61	NA
Chromium, hexavalent	400	19	<0.564	NA	NA	<0.569	NA	NA	<0.559	NA	NA	<0.595	NA
Chromium, trivalent	1,500	--	7.22	NA	NA	10.3	NA	NA	12.0	NA	NA	9.61	NA
Copper	270	1,720	11.6	NA	NA	27.6	NA	NA	11.5	NA	NA	17.9	NA
Cyanide, Total	27	40	<0.564	NA	NA	<0.569	NA	NA	<0.559	NA	NA	<0.595	NA
Lead	1,000	450	18.2	NA	NA	139	NA	NA	24.6	NA	NA	33.8	NA
Manganese	10,000	2,000	137	NA	NA	197	NA	NA	163	NA	NA	128	NA
Mercury	2.8	0.73	0.0972	NA	NA	0.137	NA	NA	0.0669	NA	NA	0.0888	NA
Nickel	310	130	8.09	NA	NA	13.0	NA	NA	10.7	NA	NA	9.11	NA
Selenium	1,500	4	<1.13	NA	NA	<1.14	NA	NA	<1.12	NA	NA	<1.19	NA
Silver	1,500	8.3	<0.564	NA	NA	<0.569	NA	NA	<0.559	NA	NA	<0.595	NA
Zinc	10,000	2,480	33.4	NA	NA	116	NA	NA	39.6	NA	NA	61.0	NA
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	88.6	87.5	86.9	87.8	86.0	82.9	89.4	92.9	92.5	84.0	94.1
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-10G2 10/28/14	BMC-CF-11C1 11/07/14	BMC-CF-11G1 11/07/14	BMC-CF-11G2 11/07/14	BMC-CF-12C1 11/07/14	BMC-CF-12G1 11/07/14	BMC-CF-12G2 11/07/14	BMC-CF-13C1 11/14/14	BMC-CF-13G1 11/14/14	BMC-CF-13G2 11/14/14	BMC-CF-14C1 11/14/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-10G2	BMC-CF-11C1	BMC-CF-11G1	BMC-CF-11G2	BMC-CF-12C1	BMC-CF-12G1	BMC-CF-12G2	BMC-CF-13C1	BMC-CF-13G1	BMC-CF-13G2	BMC-CF-14C1
PCBs													
Total PCBs	1	3.2	NA	<0.0192	NA	NA	<0.0186	NA	NA	<0.0186	NA	NA	<0.0205
VOCs													
1,1,1-Trichloroethane	500	0.68	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,1-Dichloroethane	240	0.27	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,1-Dichloroethene	500	0.33	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,2,4-Trimethylbenzene	190	3.6	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,2-Dichlorobenzene	500	1.1	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,2-Dichloroethane	30	0.02	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,3,5- Trimethylbenzene	190	8.4	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,3-Dichlorobenzene	280	2.4	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
1,4- Dioxane	130	0.1	<0.110	NA	<0.100	<0.120	NA	<0.110	<0.110	NA	<0.110	<0.100	NA
1,4-Dichlorobenzene	130	1.8	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
2-Butanone (MEK)	500	0.12	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Acetone	500	0.05	0.0210	NA	<0.0100	<0.0120	NA	0.0760	<0.0110	NA	<0.0110	<0.0100	NA
Benzene	44	0.06	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Carbon tetrachloride	22	0.76	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Chlorobenzene	500	1.1	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Chloroform	350	0.37	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
cis-1,2-Dichloroethene	500	0.25	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Ethylbenzene	--	1	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Methyl tert-butyl ether	500	0.93	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Methylene chloride	500	0.05	<0.0110	NA	<0.0100	<0.0120	NA	<0.0110	<0.0110	NA	<0.0110	<0.0100	NA
n-Butylbenzene	500	12	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
n-Propylbenzene	500	3.9	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
sec-Butylbenzene	500	11	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
tert-Butylbenzene	500	5.9	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Tetrachloroethene	150	1.3	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Toluene	500	0.7	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
trans-1,2-Dichloroethene	500	0.19	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Trichloroethene	200	0.47	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Vinyl chloride	13	0.02	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA
Xylene (m,p)	--	--	<0.0110	NA	<0.0100	<0.0120	NA	<0.0110	<0.0110	NA	<0.0110	<0.0100	NA
Xylene (o)	--	--	<0.00570	NA	<0.00500	<0.00600	NA	<0.00540	<0.00560	NA	<0.00550	<0.00510	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-10G2 10/28/14	BMC-CF-11C1 11/07/14	BMC-CF-11G1 11/07/14	BMC-CF-11G2 11/07/14	BMC-CF-12C1 11/07/14	BMC-CF-12G1 11/07/14	BMC-CF-12G2 11/07/14	BMC-CF-13C1 11/14/14	BMC-CF-13G1 11/14/14	BMC-CF-13G2 11/14/14	BMC-CF-14C1 11/14/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-10G2	BMC-CF-11C1	BMC-CF-11G1	BMC-CF-11G2	BMC-CF-12C1	BMC-CF-12G1	BMC-CF-12G2	BMC-CF-13C1	BMC-CF-13G1	BMC-CF-13G2	BMC-CF-14C1
SVOCs													
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Acenaphthylene	500	107	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Anthracene	500	1,000	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Benzo(a)anthracene	5.6	1	NA	0.227	NA	NA	0.676	NA	NA	0.0679 J	NA	NA	0.0394 J
Benzo(a)pyrene	1	22	NA	0.162	NA	NA	0.351	NA	NA	0.0783 J	NA	NA	0.0406 J
Benzo(b)fluoranthene	5.6	1.7	NA	0.177	NA	NA	0.392	NA	NA	0.0880 J	NA	NA	0.0554
Benzo(ghi)perylene	500	1,000	NA	0.0762 J	NA	NA	0.215 IS-LOJ	NA	NA	<0.0933	NA	NA	<0.0513
Benzo(k)fluoranthene	56	1.7	NA	0.196	NA	NA	0.409	NA	NA	0.0917 J	NA	NA	0.0575
Chrysene	56	1	NA	0.303	NA	NA	1.07	NA	NA	0.139	NA	NA	0.0858
Cresol (m,p)	--	--	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Cresol (o)	500	0.33	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Dibenzo(a,h)anthracene	0.56	1,000	NA	<0.0963	NA	NA	<0.232 IS-LO	NA	NA	<0.0933	NA	NA	<0.0513
Dibenzofuran	350	210	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Fluoranthene	500	1,000	NA	0.587	NA	NA	2.28	NA	NA	0.294	NA	NA	0.178
Fluorene	500	386	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Hexachlorobenzene	6	3.2	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	0.0778 J	NA	NA	0.217 IS-LOJ	NA	NA	<0.0933	NA	NA	<0.0513
Naphthalene	500	12	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Pentachlorophenol	6.7	0.8	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Phenanthrene	500	1,000	NA	0.263	NA	NA	1.16	NA	NA	0.174	NA	NA	0.0792
Phenol	500	0.33	NA	<0.0963	NA	NA	<0.232	NA	NA	<0.0933	NA	NA	<0.0513
Pyrene	500	1,000	NA	0.472	NA	NA	1.73	NA	NA	0.237	NA	NA	0.145
Total PAHs	--	--	NA	2.83 J	NA	NA	9.20 J	NA	NA	1.54 J	NA	NA	0.886 J
Pesticides													
4,4'-DDD	92	14	NA	<0.00165	NA	NA	0.0144	NA	NA	<0.00165	NA	NA	<0.00165
4,4'-DDE	62	17	NA	<0.00165	NA	NA	0.00556	NA	NA	0.00274	NA	NA	0.00284
4,4'-DDT	47	136	NA	<0.00165	NA	NA	0.00399	NA	NA	0.00494	NA	NA	0.00520
Aldrin	0.68	0.19	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
alpha-BHC	3.4	0.02	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
beta-BHC	3	0.09	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Chlordane	24	2.9	NA	0.00832	NA	NA	0.0228	NA	NA	0.0263	NA	NA	0.0149
delta-BHC	500	0.25	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Dieldrin	1.4	0.1	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00824	NA	NA	0.00552
Endosulfan I	200	102	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan II	200	102	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan Sulfate	200	1,000	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Endrin	89	0.06	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
gamma-BHC (Lindane)	9.2	0.1	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Heptachlor	15	0.38	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-10G2 10/28/14	BMC-CF-11C1 11/07/14	BMC-CF-11G1 11/07/14	BMC-CF-11G2 11/07/14	BMC-CF-12C1 11/07/14	BMC-CF-12G1 11/07/14	BMC-CF-12G2 11/07/14	BMC-CF-13C1 11/14/14	BMC-CF-13G1 11/14/14	BMC-CF-13G2 11/14/14	BMC-CF-14C1 11/14/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-10G2	BMC-CF-11C1	BMC-CF-11G1	BMC-CF-11G2	BMC-CF-12C1	BMC-CF-12G1	BMC-CF-12G2	BMC-CF-13C1	BMC-CF-13G1	BMC-CF-13G2	BMC-CF-14C1
Herbicides													
2,4,5-TP Acid (Silvex)	500	3.8	NA	<0.0231	NA	NA	<0.0223	NA	NA	<0.0224	NA	NA	<0.0246
Inorganics													
Arsenic	16	16	NA	3.02	NA	NA	3.84	NA	NA	7.42	NA	NA	7.46
Barium	400	820	NA	21.0	NA	NA	23.8	NA	NA	60.5	NA	NA	45.7
Beryllium	590	47	NA	<0.115	NA	NA	<0.111	NA	NA	<0.112	NA	NA	<0.123
Cadmium	9.3	7.5	NA	<0.346	NA	NA	<0.334	NA	NA	<0.336	NA	NA	<0.369
Chromium	--	--	NA	8.22	NA	NA	9.32	NA	NA	14.2	NA	NA	12.8
Chromium, hexavalent	400	19	NA	<0.577	NA	NA	<0.557	NA	NA	<0.559	NA	NA	<0.616
Chromium, trivalent	1,500	--	NA	8.22	NA	NA	9.32	NA	NA	14.2	NA	NA	12.8
Copper	270	1,720	NA	8.10	NA	NA	17.4	NA	NA	17.8	NA	NA	17.8
Cyanide, Total	27	40	NA	<0.577	NA	NA	<0.557	NA	NA	<0.559	NA	NA	<0.616
Lead	1,000	450	NA	19.2	NA	NA	36.0	NA	NA	54.4	NA	NA	50.3
Manganese	10,000	2,000	NA	97.7	NA	NA	93.5	NA	NA	202	NA	NA	197
Mercury	2.8	0.73	NA	0.0577	NA	NA	0.0726	NA	NA	0.124	NA	NA	0.118
Nickel	310	130	NA	7.33	NA	NA	9.83	NA	NA	14.4	NA	NA	14.0
Selenium	1,500	4	NA	2.37	NA	NA	2.78	NA	NA	3.92	NA	NA	3.93
Silver	1,500	8.3	NA	<0.577	NA	NA	<0.557	NA	NA	<0.559	NA	NA	<0.616
Zinc	10,000	2,480	NA	27.4	NA	NA	66.0	NA	NA	68.5	NA	NA	63.8
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	89.0	86.6	95.0	86.1	89.7	80.2	98.8	89.4	94.8	84.7	81.2
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-14G1 11/14/14	BMC-CF-14G2 11/14/14	BMC-CF-15C1 11/14/14	BMC-CF-15G1 11/14/14	BMC-CF-15G2 11/14/14	BMC-CF-16C1 11/14/14	BMC-CF-16G1 11/14/14	BMC-CF-16G2 11/14/14	BMC-CF-17C1 12/02/14	BMC-CF-17G1 12/02/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-14G1	BMC-CF-14G2	BMC-CF-15C1	BMC-CF-15G1	BMC-CF-15G2	BMC-CF-16C1	BMC-CF-16G1	BMC-CF-16G2	BMC-CF-17C1	BMC-CF-17G1
PCBs												
Total PCBs	1	3.2	NA	NA	<0.0186	NA	NA	<0.0174	NA	NA	<0.0192	NA
VOCs												
1,1,1-Trichloroethane	500	0.68	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,1-Dichloroethane	240	0.27	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,1-Dichloroethene	500	0.33	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,2,4-Trimethylbenzene	190	3.6	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,2-Dichlorobenzene	500	1.1	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,2-Dichloroethane	30	0.02	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,3,5- Trimethylbenzene	190	8.4	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,3-Dichlorobenzene	280	2.4	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
1,4- Dioxane	130	0.1	<0.130	<0.120	NA	<0.0950	<0.0960	NA	<0.0930	<0.100	NA	<0.0820
1,4-Dichlorobenzene	130	1.8	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
2-Butanone (MEK)	500	0.12	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Acetone	500	0.05	0.00800 J	<0.0120	NA	<0.00950	<0.00960	NA	<0.00930	0.00710 J	NA	<0.00820
Benzene	44	0.06	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Carbon tetrachloride	22	0.76	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Chlorobenzene	500	1.1	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Chloroform	350	0.37	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
cis-1,2-Dichloroethene	500	0.25	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Ethylbenzene	--	1	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Methyl tert-butyl ether	500	0.93	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Methylene chloride	500	0.05	<0.0130 CCV-E	<0.0120 CCV-E	NA	<0.00950 CCV-E	<0.00960 CCV-E	NA	<0.00930 CCV-E	<0.0100	NA	<0.00820
n-Butylbenzene	500	12	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
n-Propylbenzene	500	3.9	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
sec-Butylbenzene	500	11	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
tert-Butylbenzene	500	5.9	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Tetrachloroethene	150	1.3	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Toluene	500	0.7	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
trans-1,2-Dichloroethene	500	0.19	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Trichloroethene	200	0.47	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Vinyl chloride	13	0.02	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410
Xylene (m,p)	--	--	<0.0130	<0.0120	NA	<0.00950	<0.00960	NA	<0.00930	<0.0100	NA	<0.00820
Xylene (o)	--	--	<0.00650	<0.00600	NA	<0.00470	<0.00480	NA	<0.00470	<0.00510	NA	<0.00410

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-14G1 11/14/14	BMC-CF-14G2 11/14/14	BMC-CF-15C1 11/14/14	BMC-CF-15G1 11/14/14	BMC-CF-15G2 11/14/14	BMC-CF-16C1 11/14/14	BMC-CF-16G1 11/14/14	BMC-CF-16G2 11/14/14	BMC-CF-17C1 12/02/14	BMC-CF-17G1 12/02/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-14G1	BMC-CF-14G2	BMC-CF-15C1	BMC-CF-15G1	BMC-CF-15G2	BMC-CF-16C1	BMC-CF-16G1	BMC-CF-16G2	BMC-CF-17C1	BMC-CF-17G1
SVOCs												
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Acenaphthylene	500	107	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Anthracene	500	1,000	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Benzo(a)anthracene	5.6	1	NA	NA	<0.0466	NA	NA	0.0974	NA	NA	<0.0961	NA
Benzo(a)pyrene	1	22	NA	NA	<0.0466	NA	NA	0.0682 J	NA	NA	<0.0961	NA
Benzo(b)fluoranthene	5.6	1.7	NA	NA	0.0287 J	NA	NA	0.143	NA	NA	<0.0961	NA
Benzo(ghi)perylene	500	1,000	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Benzo(k)fluoranthene	56	1.7	NA	NA	0.0291 J	NA	NA	0.0863 J	NA	NA	<0.0961	NA
Chrysene	56	1	NA	NA	0.0537	NA	NA	0.170	NA	NA	<0.0961	NA
Cresol (m,p)	--	--	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Cresol (o)	500	0.33	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Dibenzo(a,h)anthracene	0.56	1,000	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Dibenzofuran	350	210	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Fluoranthene	500	1,000	NA	NA	0.108	NA	NA	0.317	NA	NA	0.0668 J	NA
Fluorene	500	386	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Hexachlorobenzene	6	3.2	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Naphthalene	500	12	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Pentachlorophenol	6.7	0.8	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Phenanthrene	500	1,000	NA	NA	0.0492	NA	NA	0.175	NA	NA	<0.0961	NA
Phenol	500	0.33	NA	NA	<0.0466	NA	NA	<0.0871	NA	NA	<0.0961	NA
Pyrene	500	1,000	NA	NA	0.0895	NA	NA	0.296	NA	NA	<0.0961	NA
Total PAHs	--	--	NA	NA	0.591 J	NA	NA	1.70 J	NA	NA	0.788 J	NA
Pesticides												
4,4'-DDD	92	14	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00559	NA
4,4'-DDE	62	17	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00648	NA
4,4'-DDT	47	136	NA	NA	0.00193	NA	NA	<0.00165	NA	NA	0.00866	NA
Aldrin	0.68	0.19	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
alpha-BHC	3.4	0.02	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
beta-BHC	3	0.09	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Chlordane	24	2.9	NA	NA	0.00740	NA	NA	0.00937	NA	NA	0.00831	NA
delta-BHC	500	0.25	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Dieldrin	1.4	0.1	NA	NA	0.00310	NA	NA	0.00329	NA	NA	0.0159	NA
Endosulfan I	200	102	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan II	200	102	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan Sulfate	200	1,000	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endrin	89	0.06	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
gamma-BHC (Lindane)	9.2	0.1	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Heptachlor	15	0.38	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA

TABLE 1
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FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-14G1 11/14/14	BMC-CF-14G2 11/14/14	BMC-CF-15C1 11/14/14	BMC-CF-15G1 11/14/14	BMC-CF-15G2 11/14/14	BMC-CF-16C1 11/14/14	BMC-CF-16G1 11/14/14	BMC-CF-16G2 11/14/14	BMC-CF-17C1 12/02/14	BMC-CF-17G1 12/02/14	
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-14G1	BMC-CF-14G2	BMC-CF-15C1	BMC-CF-15G1	BMC-CF-15G2	BMC-CF-16C1	BMC-CF-16G1	BMC-CF-16G2	BMC-CF-17C1	BMC-CF-17G1	
Herbicides													
2,4,5-TP Acid (Silvex)	500	3.8	NA	NA	<0.0224	NA	NA	<0.0209	NA	NA	<0.0230	NA	
Inorganics													
Arsenic	16	16	NA	NA	7.17	NA	NA	3.87	NA	NA	5.37	NA	
Barium	400	820	NA	NA	46.7	NA	NA	24.3	NA	NA	25.4	NA	
Beryllium	590	47	NA	NA	<0.112	NA	NA	<0.104	NA	NA	<0.115	NA	
Cadmium	9.3	7.5	NA	NA	<0.335	NA	NA	<0.313	NA	NA	<0.346	NA	
Chromium	--	--	NA	NA	12.7	NA	NA	9.81	NA	NA	9.40	NA	
Chromium, hexavalent	400	19	NA	NA	<0.559	NA	NA	<0.522	NA	NA	<0.576	NA	
Chromium, trivalent	1,500	--	NA	NA	12.7	NA	NA	9.81	NA	NA	9.40	NA	
Copper	270	1,720	NA	NA	16.1	NA	NA	7.92	NA	NA	12.3	NA	
Cyanide, Total	27	40	NA	NA	<0.559	NA	NA	<0.522	NA	NA	<0.576	NA	
Lead	1,000	450	NA	NA	45.4	NA	NA	19.5	NA	NA	22.7	NA	
Manganese	10,000	2,000	NA	NA	199	NA	NA	115	NA	NA	157	NA	
Mercury	2.8	0.73	NA	NA	0.0925	NA	NA	0.0676	NA	NA	0.0770	NA	
Nickel	310	130	NA	NA	13.2	NA	NA	9.76	NA	NA	7.55	NA	
Selenium	1,500	4	NA	NA	4.08	NA	NA	3.30	NA	NA	3.37	NA	
Silver	1,500	8.3	NA	NA	<0.559	NA	NA	<0.522	NA	NA	<0.576	NA	
Zinc	10,000	2,480	NA	NA	52.2	NA	NA	27.9	NA	NA	29.9	NA	
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
% Solids	--	--	80.9	84.5	89.4	84.3	85.9	95.8	94.6	86.9	86.8	88.5	
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

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FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-17G2 12/02/14	BMC-CF-18C1 12/02/14	BMC-CF-18G1 12/02/14	BMC-CF-18G2 12/02/14	BMC-CF-19C1 12/02/14	BMC-CF-19G1 12/02/14	BMC-CF-19G2 12/02/14	BMC-CF-20C1 12/12/14	BMC-CF-20G1 12/12/14	BMC-CF-20G2 12/12/14	BMC-CF-21C1 12/12/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-17G2	BMC-CF-18C1	BMC-CF-18G1	BMC-CF-18G2	BMC-CF-19C1	BMC-CF-19G1	BMC-CF-19G2	BMC-CF-20C1	BMC-CF-20G1	BMC-CF-20G2	BMC-CF-21C1
PCBs													
Total PCBs	1	3.2	NA	<0.0185	NA	NA	<0.0173	NA	NA	<0.0189	NA	NA	<0.0186
VOCs													
1,1,1-Trichloroethane	500	0.68	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,1-Dichloroethane	240	0.27	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,1-Dichloroethene	500	0.33	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,2,4-Trimethylbenzene	190	3.6	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,2-Dichlorobenzene	500	1.1	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,2-Dichloroethane	30	0.02	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,3,5- Trimethylbenzene	190	8.4	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,3-Dichlorobenzene	280	2.4	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
1,4- Dioxane	130	0.1	<0.0860	NA	<0.120	<0.230	NA	<0.0990	<0.0940	NA	<0.230	<0.250	NA
1,4-Dichlorobenzene	130	1.8	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
2-Butanone (MEK)	500	0.12	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Acetone	500	0.05	0.00770 JB	NA	0.00620 JB	0.0200 BJ	NA	<0.00990	0.0490 B	NA	<0.0120	<0.0130	NA
Benzene	44	0.06	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Carbon tetrachloride	22	0.76	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Chlorobenzene	500	1.1	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Chloroform	350	0.37	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
cis-1,2-Dichloroethene	500	0.25	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Ethylbenzene	--	1	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Methyl tert-butyl ether	500	0.93	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Methylene chloride	500	0.05	<0.00860	NA	<0.0120	0.0180 J	NA	<0.00990	<0.00940	NA	<0.0120	<0.0130	NA
n-Butylbenzene	500	12	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
n-Propylbenzene	500	3.9	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
sec-Butylbenzene	500	11	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
tert-Butylbenzene	500	5.9	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Tetrachloroethene	150	1.3	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Toluene	500	0.7	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
trans-1,2-Dichloroethene	500	0.19	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Trichloroethene	200	0.47	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Vinyl chloride	13	0.02	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA
Xylene (m,p)	--	--	<0.00860	NA	<0.0120	<0.0230	NA	<0.00990	<0.00940	NA	<0.0120	<0.0130	NA
Xylene (o)	--	--	<0.00430	NA	<0.00610	<0.0110	NA	<0.00490	<0.00470	NA	<0.00580	<0.00630	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

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FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-17G2 12/02/14	BMC-CF-18C1 12/02/14	BMC-CF-18G1 12/02/14	BMC-CF-18G2 12/02/14	BMC-CF-19C1 12/02/14	BMC-CF-19G1 12/02/14	BMC-CF-19G2 12/02/14	BMC-CF-20C1 12/12/14	BMC-CF-20G1 12/12/14	BMC-CF-20G2 12/12/14	BMC-CF-21C1 12/12/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-17G2	BMC-CF-18C1	BMC-CF-18G1	BMC-CF-18G2	BMC-CF-19C1	BMC-CF-19G1	BMC-CF-19G2	BMC-CF-20C1	BMC-CF-20G1	BMC-CF-20G2	BMC-CF-21C1
SVOCs													
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	<0.0926	NA	NA	0.0705 J	NA	NA	<0.0949	NA	NA	<0.0932
Acenaphthylene	500	107	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Anthracene	500	1,000	NA	<0.0926	NA	NA	0.198	NA	NA	<0.0949	NA	NA	<0.0932
Benzo(a)anthracene	5.6	1	NA	<0.0926	NA	NA	0.726	NA	NA	0.0538 J	NA	NA	0.168
Benzo(a)pyrene	1	22	NA	<0.0926	NA	NA	0.209	NA	NA	0.0728 J	NA	NA	0.117
Benzo(b)fluoranthene	5.6	1.7	NA	0.0563 J	NA	NA	0.315	NA	NA	0.0842 J	NA	NA	0.104
Benzo(ghi)perylene	500	1,000	NA	<0.0926	NA	NA	0.248	NA	NA	0.0553 J	NA	NA	0.0738 J
Benzo(k)fluoranthene	56	1.7	NA	<0.0926	NA	NA	0.260	NA	NA	0.0622 J	NA	NA	0.162
Chrysene	56	1	NA	0.0814 J	NA	NA	0.667	NA	NA	0.148	NA	NA	0.264
Cresol (m,p)	--	--	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Cresol (o)	500	0.33	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Dibenzo(a,h)anthracene	0.56	1,000	NA	<0.0926	NA	NA	0.114	NA	NA	<0.0949	NA	NA	<0.0932
Dibenzofuran	350	210	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Fluoranthene	500	1,000	NA	0.185	NA	NA	1.39	NA	NA	0.260	NA	NA	0.471
Fluorene	500	386	NA	<0.0926	NA	NA	0.0629 J	NA	NA	<0.0949	NA	NA	<0.0932
Hexachlorobenzene	6	3.2	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	<0.0926	NA	NA	0.257	NA	NA	0.0561 J	NA	NA	0.0738 J
Naphthalene	500	12	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Pentachlorophenol	6.7	0.8	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Phenanthrene	500	1,000	NA	0.110	NA	NA	0.836	NA	NA	0.0796 J	NA	NA	0.265
Phenol	500	0.33	NA	<0.0926	NA	NA	<0.0865	NA	NA	<0.0949	NA	NA	<0.0932
Pyrene	500	1,000	NA	0.113	NA	NA	1.78	NA	NA	0.183	NA	NA	0.429
Total PAHs	--	--	NA	1.06 J	NA	NA	7.22 J	NA	NA	1.34 J	NA	NA	2.41 J
Pesticides													
4,4'-DDD	92	14	NA	0.00440	NA	NA	0.0150	NA	NA	0.00348	NA	NA	0.00213
4,4'-DDE	62	17	NA	0.00561	NA	NA	0.00359	NA	NA	0.00509	NA	NA	0.00361
4,4'-DDT	47	136	NA	0.00306	NA	NA	0.00547	NA	NA	0.00266	NA	NA	0.00488
Aldrin	0.68	0.19	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
alpha-BHC	3.4	0.02	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
beta-BHC	3	0.09	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Chlordane	24	2.9	NA	0.00828	NA	NA	0.0264	NA	NA	0.0120	NA	NA	0.0161
delta-BHC	500	0.25	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Dieldrin	1.4	0.1	NA	0.00399	NA	NA	0.00703	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan I	200	102	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan II	200	102	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan Sulfate	200	1,000	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Endrin	89	0.06	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
gamma-BHC (Lindane)	9.2	0.1	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165
Heptachlor	15	0.38	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-17G2 12/02/14	BMC-CF-18C1 12/02/14	BMC-CF-18G1 12/02/14	BMC-CF-18G2 12/02/14	BMC-CF-19C1 12/02/14	BMC-CF-19G1 12/02/14	BMC-CF-19G2 12/02/14	BMC-CF-20C1 12/12/14	BMC-CF-20G1 12/12/14	BMC-CF-20G2 12/12/14	BMC-CF-21C1 12/12/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-17G2	BMC-CF-18C1	BMC-CF-18G1	BMC-CF-18G2	BMC-CF-19C1	BMC-CF-19G1	BMC-CF-19G2	BMC-CF-20C1	BMC-CF-20G1	BMC-CF-20G2	BMC-CF-21C1
Herbicides													
2,4,5-TP Acid (Silvex)	500	3.8	NA	<0.0222	NA	NA	<0.0207	NA	NA	<0.0227	NA	NA	<0.0224
Inorganics													
Arsenic	16	16	NA	4.68	NA	NA	3.41	NA	NA	9.10	NA	NA	6.98
Barium	400	820	NA	26.4	NA	NA	59.0	NA	NA	29.6	NA	NA	36.1
Beryllium	590	47	NA	<0.111	NA	NA	<0.104	NA	NA	<0.114	NA	NA	<0.112
Cadmium	9.3	7.5	NA	<0.333	NA	NA	<0.311	NA	NA	<0.341	NA	NA	<0.335
Chromium	--	--	NA	9.47	NA	NA	9.66	NA	NA	9.24	NA	NA	11.1
Chromium, hexavalent	400	19	NA	<0.555	NA	NA	<0.519	NA	NA	<0.569	NA	NA	<0.559
Chromium, trivalent	1,500	--	NA	9.47	NA	NA	9.66	NA	NA	9.24	NA	NA	11.1
Copper	270	1,720	NA	13.1	NA	NA	22.7	NA	NA	17.7	NA	NA	22.4
Cyanide, Total	27	40	NA	<0.555	NA	NA	<0.519	NA	NA	<0.569	NA	NA	<0.559
Lead	1,000	450	NA	23.5	NA	NA	68.1	NA	NA	42.3	NA	NA	49.2
Manganese	10,000	2,000	NA	163	NA	NA	151	NA	NA	158	NA	NA	140
Mercury	2.8	0.73	NA	0.0757	NA	NA	0.371	NA	NA	0.136	NA	NA	0.104
Nickel	310	130	NA	7.47	NA	NA	9.33	NA	NA	9.02	NA	NA	10.6
Selenium	1,500	4	NA	3.43	NA	NA	3.33	NA	NA	3.22	NA	NA	3.23
Silver	1,500	8.3	NA	<0.555	NA	NA	<0.519	NA	NA	<0.569	NA	NA	<0.559
Zinc	10,000	2,480	NA	36.7	NA	NA	76.3	NA	NA	55.7	NA	NA	52.6
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	89.1	90.1	94.3	88.5	96.4	97.4	96.0	87.9	90.8	88.9	89.5
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-21G1 12/12/14	BMC-CF-21G2 12/12/14	BMC-CF-22C1 12/23/14	BMC-CF-22G1 12/23/14	BMC-CF-22G2 12/23/14	BMC-CF-23C1 12/23/14	BMC-CF-23G1 12/23/14	BMC-CF-23G2 12/23/14	BMC-CF-24C1 12/30/14	BMC-CF-24G1 12/31/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-21G1	BMC-CF-21G2	BMC-CF-22-C1	BMC-CF-22-G1	BMC-CF-22-G2	BMC-CF-23-C1	BMC-CF-23-G1	BMC-CF-23-G2	BMC-CF-24C1	BMC-CF-24G1
PCBs												
Total PCBs	1	3.2	NA	NA	<0.0185	NA	NA	<0.0181	NA	NA	<0.0184	NA
VOCS												
1,1,1-Trichloroethane	500	0.68	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,1-Dichloroethane	240	0.27	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,1-Dichloroethene	500	0.33	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,2,4-Trimethylbenzene	190	3.6	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,2-Dichlorobenzene	500	1.1	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,2-Dichloroethane	30	0.02	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,3,5- Trimethylbenzene	190	8.4	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,3-Dichlorobenzene	280	2.4	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
1,4- Dioxane	130	0.1	<0.230	<0.230	NA	<0.0930	<0.0570	NA	<0.0930	<0.0950	NA	<0.160
1,4-Dichlorobenzene	130	1.8	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
2-Butanone (MEK)	500	0.12	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Acetone	500	0.05	<0.0120	<0.0120	NA	<0.00930	<0.00570	NA	0.00740 J	0.00900 J	NA	0.0430
Benzene	44	0.06	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Carbon tetrachloride	22	0.76	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Chlorobenzene	500	1.1	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Chloroform	350	0.37	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
cis-1,2-Dichloroethene	500	0.25	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Ethylbenzene	--	1	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Methyl tert-butyl ether	500	0.93	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Methylene chloride	500	0.05	<0.0120	<0.0120	NA	0.00970 B	0.00600 B	NA	0.00790 JB	0.00610 JB	NA	<0.0160
n-Butylbenzene	500	12	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
n-Propylbenzene	500	3.9	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
sec-Butylbenzene	500	11	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
tert-Butylbenzene	500	5.9	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Tetrachloroethene	150	1.3	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Toluene	500	0.7	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
trans-1,2-Dichloroethene	500	0.19	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Trichloroethene	200	0.47	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	0.00830	<0.00480	NA	<0.00820
Vinyl chloride	13	0.02	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820
Xylene (m,p)	--	--	<0.0120	<0.0120	NA	<0.00930	<0.00570	NA	<0.00930	<0.00950	NA	<0.0160
Xylene (o)	--	--	<0.00580	<0.00580	NA	<0.00470	<0.00290	NA	<0.00460	<0.00480	NA	<0.00820

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-21G1 12/12/14	BMC-CF-21G2 12/12/14	BMC-CF-22C1 12/23/14	BMC-CF-22G1 12/23/14	BMC-CF-22G2 12/23/14	BMC-CF-23C1 12/23/14	BMC-CF-23G1 12/23/14	BMC-CF-23G2 12/23/14	BMC-CF-24C1 12/30/14	BMC-CF-24G1 12/31/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-21G1	BMC-CF-21G2	BMC-CF-22-C1	BMC-CF-22-G1	BMC-CF-22-G2	BMC-CF-23-C1	BMC-CF-23-G1	BMC-CF-23-G2	BMC-CF-24C1	BMC-CF-24G1
SVOCs												
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Acenaphthylene	500	107	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Anthracene	500	1,000	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Benzo(a)anthracene	5.6	1	NA	NA	0.0868 J	NA	NA	0.289 J	NA	NA	0.0796 J	NA
Benzo(a)pyrene	1	22	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Benzo(b)fluoranthene	5.6	1.7	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	0.0723 J	NA
Benzo(ghi)perylene	500	1,000	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Benzo(k)fluoranthene	56	1.7	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	0.0686 J	NA
Chrysene	56	1	NA	NA	0.102	NA	NA	0.289 J	NA	NA	0.128	NA
Cresol (m,p)	--	--	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Cresol (o)	500	0.33	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Dibenzo(a,h)anthracene	0.56	1,000	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Dibenzofuran	350	210	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Fluoranthene	500	1,000	NA	NA	0.213	NA	NA	0.578	NA	NA	0.213	NA
Fluorene	500	386	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Hexachlorobenzene	6	3.2	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Naphthalene	500	12	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Pentachlorophenol	6.7	0.8	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Phenanthrene	500	1,000	NA	NA	0.124	NA	NA	0.304 J	NA	NA	0.0885 J	NA
Phenol	500	0.33	NA	NA	<0.0928	NA	NA	<0.452	NA	NA	<0.0922	NA
Pyrene	500	1,000	NA	NA	0.180	NA	NA	0.524	NA	NA	0.177	NA
Total PAHs	--	--	NA	NA	1.22 J	NA	NA	4.47 J	NA	NA	1.24 J	NA
Pesticides												
4,4'-DDD	92	14	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
4,4'-DDE	62	17	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
4,4'-DDT	47	136	NA	NA	0.00453	NA	NA	0.00347	NA	NA	<0.00165	NA
Aldrin	0.68	0.19	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
alpha-BHC	3.4	0.02	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
beta-BHC	3	0.09	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Chlordane	24	2.9	NA	NA	0.0124	NA	NA	0.00479	NA	NA	0.00666	NA
delta-BHC	500	0.25	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Dieldrin	1.4	0.1	NA	NA	0.0169	NA	NA	0.00397	NA	NA	<0.00165	NA
Endosulfan I	200	102	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan II	200	102	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endosulfan Sulfate	200	1,000	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Endrin	89	0.06	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
gamma-BHC (Lindane)	9.2	0.1	NA	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00165	NA
Heptachlor	15	0.38	NA	NA	0.00489	NA	NA	<0.00165	NA	NA	<0.00165	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-21G1 12/12/14	BMC-CF-21G2 12/12/14	BMC-CF-22C1 12/23/14	BMC-CF-22G1 12/23/14	BMC-CF-22G2 12/23/14	BMC-CF-23C1 12/23/14	BMC-CF-23G1 12/23/14	BMC-CF-23G2 12/23/14	BMC-CF-24C1 12/30/14	BMC-CF-24G1 12/31/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-21G1	BMC-CF-21G2	BMC-CF-22-C1	BMC-CF-22-G1	BMC-CF-22-G2	BMC-CF-23-C1	BMC-CF-23-G1	BMC-CF-23-G2	BMC-CF-24C1	BMC-CF-24G1
Herbicides												
2,4,5-TP Acid (Silvex)	500	3.8	NA	NA	<0.0222	NA	NA	<0.0217	NA	NA	<0.0221	NA
Inorganics												
Arsenic	16	16	NA	NA	5.29	NA	NA	4.22	NA	NA	3.55	NA
Barium	400	820	NA	NA	46.1	NA	NA	21.8	NA	NA	22.0	NA
Beryllium	590	47	NA	NA	<0.111	NA	NA	<0.108	NA	NA	<0.111	NA
Cadmium	9.3	7.5	NA	NA	<0.334	NA	NA	<0.325	NA	NA	<0.332	NA
Chromium	--	--	NA	NA	9.90	NA	NA	6.94	NA	NA	7.94	NA
Chromium, hexavalent	400	19	NA	NA	<0.556	NA	NA	<0.542	NA	NA	<0.553	NA
Chromium, trivalent	1,500	--	NA	NA	9.90	NA	NA	6.94	NA	NA	7.94	NA
Copper	270	1,720	NA	NA	17.4	NA	NA	9.61	NA	NA	8.85	NA
Cyanide, Total	27	40	NA	NA	<0.556	NA	NA	<0.542	NA	NA	<0.553	NA
Lead	1,000	450	NA	NA	91.5	NA	NA	29.4	NA	NA	17.5	NA
Manganese	10,000	2,000	NA	NA	150	NA	NA	91.6	NA	NA	90.4	NA
Mercury	2.8	0.73	NA	NA	0.250	NA	NA	0.0713	NA	NA	0.0581	NA
Nickel	310	130	NA	NA	10.4	NA	NA	6.82	NA	NA	6.95	NA
Selenium	1,500	4	NA	NA	2.51	NA	NA	2.02	NA	NA	2.35	NA
Silver	1,500	8.3	NA	NA	<0.556	NA	NA	<0.542	NA	NA	<0.553	NA
Zinc	10,000	2,480	NA	NA	57.1	NA	NA	35.2	NA	NA	29.7	NA
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	90.1	88.2	89.9	88.0	87.3	92.3	88.4	85.4	90.4	92.1
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-24G2 12/31/14	BMC-CF-25C1 12/30/14	BMC-CF-25G1 12/31/14	BMC-CF-25G2 12/31/14	BMC-CF-26C1 12/30/14	BMC-CF-26G1 12/31/14	BMC-CF-26G2 12/31/14	BMC-CF-27C1 01/09/15	BMC-CF-27G1 01/09/15	BMC-CF-27G2 01/09/15
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-24G2	BMC-CF-25C1	BMC-CF-25G1	BMC-CF-25G2	BMC-CF-26C1	BMC-CF-26G1	BMC-CF-26G2	BMC-CF-27C1	BMC-CF-27G1	BMC-CF-27G2
PCBs												
Total PCBs	1	3.2	NA	<0.0195	NA	NA	<0.0201	NA	NA	<0.0283	NA	NA
VOCs												
1,1,1-Trichloroethane	500	0.68	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,1-Dichloroethane	240	0.27	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,1-Dichloroethene	500	0.33	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,2,4-Trimethylbenzene	190	3.6	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,2-Dichlorobenzene	500	1.1	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,2-Dichloroethane	30	0.02	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,3,5- Trimethylbenzene	190	8.4	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,3-Dichlorobenzene	280	2.4	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
1,4- Dioxane	130	0.1	<0.110	NA	<0.140	<0.150	NA	<0.0950	<0.100	NA	<0.130	<0.120
1,4-Dichlorobenzene	130	1.8	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
2-Butanone (MEK)	500	0.12	<0.00530	NA	0.0170	<0.00730	NA	<0.00470	<0.00500	NA	0.0320 CCV-E	0.00680 CCV-E
Acetone	500	0.05	0.0260	NA	0.0890	<0.0150	NA	0.00970	0.00630 J	NA	0.130 CCV-E	0.0370 CCV-E
Benzene	44	0.06	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Carbon tetrachloride	22	0.76	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Chlorobenzene	500	1.1	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Chloroform	350	0.37	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
cis-1,2-Dichloroethene	500	0.25	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Ethylbenzene	--	1	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Methyl tert-butyl ether	500	0.93	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Methylene chloride	500	0.05	<0.0110	NA	<0.0140	<0.0150	NA	<0.00950	<0.0100	NA	<0.0130	<0.0120
n-Butylbenzene	500	12	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
n-Propylbenzene	500	3.9	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
sec-Butylbenzene	500	11	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
tert-Butylbenzene	500	5.9	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Tetrachloroethene	150	1.3	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Toluene	500	0.7	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
trans-1,2-Dichloroethene	500	0.19	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Trichloroethene	200	0.47	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Vinyl chloride	13	0.02	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610
Xylene (m,p)	--	--	<0.0110	NA	<0.0140	<0.0150	NA	<0.00950	<0.0100	NA	<0.0130	<0.0120
Xylene (o)	--	--	<0.00530	NA	<0.00680	<0.00730	NA	<0.00470	<0.00500	NA	<0.00660	<0.00610

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-24G2 12/31/14	BMC-CF-25C1 12/30/14	BMC-CF-25G1 12/31/14	BMC-CF-25G2 12/31/14	BMC-CF-26C1 12/30/14	BMC-CF-26G1 12/31/14	BMC-CF-26G2 12/31/14	BMC-CF-27C1 01/09/15	BMC-CF-27G1 01/09/15	BMC-CF-27G2 01/09/15
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-24G2	BMC-CF-25C1	BMC-CF-25G1	BMC-CF-25G2	BMC-CF-26C1	BMC-CF-26G1	BMC-CF-26G2	BMC-CF-27C1	BMC-CF-27G1	BMC-CF-27G2
SVOCs												
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Acenaphthylene	500	107	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Anthracene	500	1,000	NA	<0.0976	NA	NA	<0.101	NA	NA	0.141	NA	NA
Benzo(a)anthracene	5.6	1	NA	0.114	NA	NA	0.160	NA	NA	0.427	NA	NA
Benzo(a)pyrene	1	22	NA	0.0671 J	NA	NA	0.0829 J	NA	NA	0.218	NA	NA
Benzo(b)fluoranthene	5.6	1.7	NA	0.0710 J	NA	NA	0.109	NA	NA	0.321	NA	NA
Benzo(ghi)perylene	500	1,000	NA	<0.0976	NA	NA	<0.101	NA	NA	0.116	NA	NA
Benzo(k)fluoranthene	56	1.7	NA	0.0843 J	NA	NA	0.105	NA	NA	0.260	NA	NA
Chrysene	56	1	NA	0.176	NA	NA	0.261	NA	NA	0.505	NA	NA
Cresol (m,p)	--	--	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Cresol (o)	500	0.33	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Dibenzo(a,h)anthracene	0.56	1,000	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Dibenzofuran	350	210	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Fluoranthene	500	1,000	NA	0.315	NA	NA	0.479	NA	NA	1.03	NA	NA
Fluorene	500	386	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Hexachlorobenzene	6	3.2	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	<0.0976	NA	NA	<0.101	NA	NA	0.0968	NA	NA
Naphthalene	500	12	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Pentachlorophenol	6.7	0.8	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Phenanthrene	500	1,000	NA	0.151	NA	NA	0.232	NA	NA	0.614	NA	NA
Phenol	500	0.33	NA	<0.0976	NA	NA	<0.101	NA	NA	<0.0946	NA	NA
Pyrene	500	1,000	NA	0.261	NA	NA	0.386	NA	NA	0.829	NA	NA
Total PAHs	--	--	NA	1.63 J	NA	NA	2.22 J	NA	NA	4.79	NA	NA
Pesticides												
4,4'-DDD	92	14	NA	0.00455	NA	NA	0.00563	NA	NA	0.00472	NA	NA
4,4'-DDE	62	17	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00563	NA	NA
4,4'-DDT	47	136	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00450	NA	NA
Aldrin	0.68	0.19	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
alpha-BHC	3.4	0.02	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
beta-BHC	3	0.09	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
Chlordane	24	2.9	NA	0.0123	NA	NA	0.0417	NA	NA	0.0140	NA	NA
delta-BHC	500	0.25	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
Dieldrin	1.4	0.1	NA	<0.00165	NA	NA	<0.00165	NA	NA	0.00631	NA	NA
Endosulfan I	200	102	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
Endosulfan II	200	102	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
Endosulfan Sulfate	200	1,000	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
Endrin	89	0.06	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
gamma-BHC (Lindane)	9.2	0.1	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA
Heptachlor	15	0.38	NA	<0.00165	NA	NA	<0.00165	NA	NA	<0.00248	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-24G2 12/31/14	BMC-CF-25C1 12/30/14	BMC-CF-25G1 12/31/14	BMC-CF-25G2 12/31/14	BMC-CF-26C1 12/30/14	BMC-CF-26G1 12/31/14	BMC-CF-26G2 12/31/14	BMC-CF-27C1 01/09/15	BMC-CF-27G1 01/09/15	BMC-CF-27G2 01/09/15
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-24G2	BMC-CF-25C1	BMC-CF-25G1	BMC-CF-25G2	BMC-CF-26C1	BMC-CF-26G1	BMC-CF-26G2	BMC-CF-27C1	BMC-CF-27G1	BMC-CF-27G2
Herbicides												
2,4,5-TP Acid (Silvex)	500	3.8	NA	<0.0234	NA	NA	<0.0241	NA	NA	<0.0227	NA	NA
Inorganics												
Arsenic	16	16	NA	5.95	NA	NA	9.37	NA	NA	4.41	NA	NA
Barium	400	820	NA	33.8	NA	NA	31.4	NA	NA	32.3	NA	NA
Beryllium	590	47	NA	<0.117	NA	NA	<0.121	NA	NA	<0.113	NA	NA
Cadmium	9.3	7.5	NA	<0.351	NA	NA	<0.362	NA	NA	<0.340	NA	NA
Chromium	--	--	NA	12.2	NA	NA	11.4	NA	NA	11.5	NA	NA
Chromium, hexavalent	400	19	NA	<0.585	NA	NA	<0.603	NA	NA	<0.567	NA	NA
Chromium, trivalent	1,500	--	NA	12.2	NA	NA	11.4	NA	NA	11.5	NA	NA
Copper	270	1,720	NA	16.3	NA	NA	15.4	NA	NA	13.9	NA	NA
Cyanide, Total	27	40	NA	<0.585	NA	NA	<0.603	NA	NA	<0.567	NA	NA
Lead	1,000	450	NA	46.0	NA	NA	911	NA	NA	34.1	NA	NA
Manganese	10,000	2,000	NA	129	NA	NA	133	NA	NA	146	NA	NA
Mercury	2.8	0.73	NA	0.126	NA	NA	0.508	NA	NA	0.0998	NA	NA
Nickel	310	130	NA	8.91	NA	NA	9.16	NA	NA	9.94	NA	NA
Selenium	1,500	4	NA	2.58	NA	NA	2.85	NA	NA	2.64	NA	NA
Silver	1,500	8.3	NA	<0.585	NA	NA	<0.603	NA	NA	<0.567	NA	NA
Zinc	10,000	2,480	NA	50.4	NA	NA	43.9	NA	NA	40.6	NA	NA
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	86.8	85.4	86.9	85.4	82.9	83.9	82.4	88.2	90.6	92.7
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-28C1 01/09/15	BMC-CF-28G1 01/09/15	BMC-CF-28G2 01/09/15	BMC-CF-29C1 01/09/15	BMC-CF-29G1 01/09/15	BMC-CF-29G2 01/09/15	BMC-CF-30C1 01/09/15	BMC-CF-30G1 01/09/15	BMC-CF-30G2 01/09/15	BMC-CF-31C1 01/09/15
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-28C1	BMC-CF-28G1	BMC-CF-28G2	BMC-CF-29C1	BMC-CF-29G1	BMC-CF-29G2	BMC-CF-30C1	BMC-CF-30G1	BMC-CF-30G2	BMC-CF-31C1
PCBs												
Total PCBs	1	3.2	<0.0294	NA	NA	<0.0277	NA	NA	<0.0302	NA	NA	<0.0292
VOCs												
1,1,1-Trichloroethane	500	0.68	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,1-Dichloroethane	240	0.27	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,1-Dichloroethene	500	0.33	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,2,4-Trimethylbenzene	190	3.6	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,2-Dichlorobenzene	500	1.1	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,2-Dichloroethane	30	0.02	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,3,5- Trimethylbenzene	190	8.4	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,3-Dichlorobenzene	280	2.4	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
1,4- Dioxane	130	0.1	NA	<0.160	<0.130	NA	<0.110	<0.150	NA	<0.0960	<0.0890	NA
1,4-Dichlorobenzene	130	1.8	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
2-Butanone (MEK)	500	0.12	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	0.0270 CCV-E	0.0240 CCV-E	NA
Acetone	500	0.05	NA	0.00820 CCV-EJ	0.0380 CCV-E	NA	0.0100 CCV-EJ	<0.0150	NA	0.120 CCV-E	0.0740 CCV-E	NA
Benzene	44	0.06	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Carbon tetrachloride	22	0.76	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Chlorobenzene	500	1.1	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Chloroform	350	0.37	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
cis-1,2-Dichloroethene	500	0.25	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Ethylbenzene	--	1	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Methyl tert-butyl ether	500	0.93	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Methylene chloride	500	0.05	NA	<0.0160	<0.0130	NA	<0.0110	<0.0150	NA	<0.00960	<0.00890	NA
n-Butylbenzene	500	12	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
n-Propylbenzene	500	3.9	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
sec-Butylbenzene	500	11	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
tert-Butylbenzene	500	5.9	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Tetrachloroethene	150	1.3	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Toluene	500	0.7	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
trans-1,2-Dichloroethene	500	0.19	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Trichloroethene	200	0.47	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Vinyl chloride	13	0.02	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA
Xylene (m,p)	--	--	NA	<0.0160	<0.0130	NA	<0.0110	<0.0150	NA	<0.00960	<0.00890	NA
Xylene (o)	--	--	NA	<0.00780	<0.00660	NA	<0.00550	<0.00740	NA	<0.00480	<0.00450	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		BMC-CF-28C1 01/09/15	BMC-CF-28G1 01/09/15	BMC-CF-28G2 01/09/15	BMC-CF-29C1 01/09/15	BMC-CF-29G1 01/09/15	BMC-CF-29G2 01/09/15	BMC-CF-30C1 01/09/15	BMC-CF-30G1 01/09/15	BMC-CF-30G2 01/09/15	BMC-CF-31C1 01/09/15
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-28C1	BMC-CF-28G1	BMC-CF-28G2	BMC-CF-29C1	BMC-CF-29G1	BMC-CF-29G2	BMC-CF-30C1	BMC-CF-30G1	BMC-CF-30G2	BMC-CF-31C1
SVOCs												
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Acenaphthylene	500	107	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Anthracene	500	1,000	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Benzo(a)anthracene	5.6	1	0.0737 J	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	0.106
Benzo(a)pyrene	1	22	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Benzo(b)fluoranthene	5.6	1.7	0.0909 J	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Benzo(ghi)perylene	500	1,000	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Benzo(k)fluoranthene	56	1.7	0.0893 J	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Chrysene	56	1	0.0799 J	NA	NA	<0.0924	NA	NA	0.0757 J	NA	NA	0.160
Cresol (m,p)	--	--	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Cresol (o)	500	0.33	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Dibenzo(a,h)anthracene	0.56	1,000	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Dibenzofuran	350	210	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Fluoranthene	500	1,000	0.158	NA	NA	0.0805 J	NA	NA	0.130	NA	NA	0.338
Fluorene	500	386	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Hexachlorobenzene	6	3.2	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Indeno(1,2,3-cd)pyrene	5.6	8.2	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Naphthalene	500	12	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Pentachlorophenol	6.7	0.8	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Phenanthrene	500	1,000	0.0807 J	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	0.167
Phenol	500	0.33	<0.0980	NA	NA	<0.0924	NA	NA	<0.101	NA	NA	<0.0975
Pyrene	500	1,000	0.129	NA	NA	0.0679 J	NA	NA	0.103	NA	NA	0.266
Total PAHs	--	--	1.14 J	NA	NA	0.795 J	NA	NA	0.965 J	NA	NA	1.57
Pesticides												
4,4'-DDD	92	14	<0.00248	NA	NA	0.00418	NA	NA	0.00346	NA	NA	<0.00248
4,4'-DDE	62	17	<0.00248	NA	NA	<0.00248	NA	NA	0.00807	NA	NA	<0.00248
4,4'-DDT	47	136	<0.00248	NA	NA	<0.00248	NA	NA	0.00360	NA	NA	<0.00248
Aldrin	0.68	0.19	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
alpha-BHC	3.4	0.02	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
beta-BHC	3	0.09	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
Chlordane	24	2.9	0.00448	NA	NA	0.00565	NA	NA	0.0322	NA	NA	0.00766
delta-BHC	500	0.25	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
Dieldrin	1.4	0.1	<0.00248	NA	NA	<0.00248	NA	NA	0.00733	NA	NA	0.00324
Endosulfan I	200	102	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
Endosulfan II	200	102	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
Endosulfan Sulfate	200	1,000	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
Endrin	89	0.06	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
gamma-BHC (Lindane)	9.2	0.1	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248
Heptachlor	15	0.38	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248	NA	NA	<0.00248

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs Commercial SCOs	Groundwater Protection SCOs	BMC-CF-28C1 01/09/15 BMC-CF-28C1	BMC-CF-28G1 01/09/15 BMC-CF-28G1	BMC-CF-28G2 01/09/15 BMC-CF-28G2	BMC-CF-29C1 01/09/15 BMC-CF-29C1	BMC-CF-29G1 01/09/15 BMC-CF-29G1	BMC-CF-29G2 01/09/15 BMC-CF-29G2	BMC-CF-30C1 01/09/15 BMC-CF-30C1	BMC-CF-30G1 01/09/15 BMC-CF-30G1	BMC-CF-30G2 01/09/15 BMC-CF-30G2	BMC-CF-31C1 01/09/15 BMC-CF-31C1
Herbicides												
2,4,5-TP Acid (Silvex)	500	3.8	<0.0235	NA	NA	<0.0222	NA	NA	<0.0242	NA	NA	<0.0234
Inorganics												
Arsenic	16	16	4.69	NA	NA	3.09	NA	NA	6.20	NA	NA	5.18
Barium	400	820	34.2	NA	NA	20.3	NA	NA	26.3	NA	NA	35.6
Beryllium	590	47	<0.118	NA	NA	<0.111	NA	NA	<0.121	NA	NA	<0.117
Cadmium	9.3	7.5	<0.353	NA	NA	<0.332	NA	NA	<0.363	NA	NA	<0.351
Chromium	--	--	10.9	NA	NA	6.39	NA	NA	10.3	NA	NA	11.8
Chromium, hexavalent	400	19	<0.588	NA	NA	<0.554	NA	NA	<0.604	NA	NA	<0.585
Chromium, trivalent	1,500	--	10.9	NA	NA	6.39	NA	NA	10.3	NA	NA	11.8
Copper	270	1,720	14.7	NA	NA	7.22	NA	NA	13.7	NA	NA	16.6
Cyanide, Total	27	40	<0.588	NA	NA	<0.554	NA	NA	<0.604	NA	NA	<0.585
Lead	1,000	450	27.8	NA	NA	17.5	NA	NA	21.4	NA	NA	34.3
Manganese	10,000	2,000	163	NA	NA	80.8	NA	NA	157	NA	NA	157
Mercury	2.8	0.73	0.0933	NA	NA	0.0526	NA	NA	0.0669	NA	NA	0.0976
Nickel	310	130	9.95	NA	NA	5.50	NA	NA	10.2	NA	NA	12.1
Selenium	1,500	4	3.13	NA	NA	1.82	NA	NA	3.56	NA	NA	3.22
Silver	1,500	8.3	<0.588	NA	NA	<0.554	NA	NA	<0.604	NA	NA	<0.585
Zinc	10,000	2,480	46.3	NA	NA	26.0	NA	NA	33.1	NA	NA	44.4
Organic Content	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	85.1	91.8	81.3	90.3	90.9	94.6	82.8	90.4	91.8	85.5
pH	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-31G1 01/09/15	BMC-CF-31G2 01/09/15	BMC-TS-1C1 10/28/14	BMC-TS-1C2 10/28/14	BMC-TS-1G1 10/28/14	BMC-TS-1G2 10/28/14	BMC-TS-1G3 10/28/14	BMC-TS-1G4 10/28/14	BMC-TS-1G5 10/28/14	BMC-TS-1G6 10/28/14	BMC-TS-1G7 10/28/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-31G1	BMC-CF-31G2	BMC-TS-1C1	BMC-TS-1C2	BMC-TS-1G1	BMC-TS-1G2	BMC-TS-1G3	BMC-TS-1G4	BMC-TS-1G5	BMC-TS-1G6	BMC-TS-1G7
PCBs													
Total PCBs	1	3.2	NA	NA	<0.0186	<0.0181	NA	NA	NA	NA	NA	NA	NA
VOCs													
1,1,1-Trichloroethane	500	0.68	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,1-Dichloroethane	240	0.27	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,1-Dichloroethene	500	0.33	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,2,4-Trimethylbenzene	190	3.6	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,2-Dichlorobenzene	500	1.1	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,2-Dichloroethane	30	0.02	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,3,5- Trimethylbenzene	190	8.4	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,3-Dichlorobenzene	280	2.4	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
1,4- Dioxane	130	0.1	<0.110	<0.100	NA	NA	<0.0960	<0.110	<0.120	<0.110	<0.0840	<0.0950	<0.0990
1,4-Dichlorobenzene	130	1.8	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
2-Butanone (MEK)	500	0.12	0.00620 CCV-E	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Acetone	500	0.05	0.0490 CCV-E	0.00900 CCV-EJ	NA	NA	<0.00960	<0.0110	<0.0120	<0.0110	<0.00840	<0.00950	<0.00990
Benzene	44	0.06	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Carbon tetrachloride	22	0.76	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Chlorobenzene	500	1.1	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Chloroform	350	0.37	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
cis-1,2-Dichloroethene	500	0.25	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Ethylbenzene	-	1	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Methyl tert-butyl ether	500	0.93	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Methylene chloride	500	0.05	<0.0110	<0.0100	NA	NA	<0.00960	<0.0110	<0.0120	<0.0110	<0.00840	<0.00950	<0.00990
n-Butylbenzene	500	12	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
n-Propylbenzene	500	3.9	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
sec-Butylbenzene	500	11	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
tert-Butylbenzene	500	5.9	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Tetrachloroethene	150	1.3	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Toluene	500	0.7	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
trans-1,2-Dichloroethene	500	0.19	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Trichloroethene	200	0.47	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Vinyl chloride	13	0.02	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500
Xylene (m,p)	-	-	<0.0110	<0.0100	NA	NA	<0.00960	<0.0110	<0.0120	<0.0110	<0.00840	<0.00950	<0.00990
Xylene (o)	-	-	<0.00540	<0.00500	NA	NA	<0.00480	<0.00560	<0.00590	<0.00570	<0.00420	<0.00470	<0.00500

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-31G1 01/09/15	BMC-CF-31G2 01/09/15	BMC-TS-1C1 10/28/14	BMC-TS-1C2 10/28/14	BMC-TS-1G1 10/28/14	BMC-TS-1G2 10/28/14	BMC-TS-1G3 10/28/14	BMC-TS-1G4 10/28/14	BMC-TS-1G5 10/28/14	BMC-TS-1G6 10/28/14	BMC-TS-1G7 10/28/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-31G1	BMC-CF-31G2	BMC-TS-1C1	BMC-TS-1C2	BMC-TS-1G1	BMC-TS-1G2	BMC-TS-1G3	BMC-TS-1G4	BMC-TS-1G5	BMC-TS-1G6	BMC-TS-1G7
SVOCs													
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	107	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	1,000	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	1	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	22	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	1.7	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	1,000	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	1.7	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	1	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Cresol (m,p)	--	--	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Cresol (o)	500	0.33	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	1,000	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	350	210	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	1,000	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	386	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	6	3.2	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	12	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	6.7	0.8	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	1,000	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Phenol	500	0.33	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	1,000	NA	NA	<0.371	<0.361	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	--	NA	NA	<2.97	<2.89	NA	NA	NA	NA	NA	NA	NA
Pesticides													
4,4'-DDD	92	14	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	62	17	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	47	136	NA	NA	<0.00165	0.00251	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.68	0.19	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	3.4	0.02	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
beta-BHC	3	0.09	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
Chlordane	24	2.9	NA	NA	0.00326	0.00462	NA	NA	NA	NA	NA	NA	NA
delta-BHC	500	0.25	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
Dieldrin	1.4	0.1	NA	NA	<0.00165	0.00208	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	200	102	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	200	102	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	200	1,000	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
Endrin	89	0.06	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	9.2	0.1	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA
Heptachlor	15	0.38	NA	NA	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		BMC-CF-31G1 01/09/15	BMC-CF-31G2 01/09/15	BMC-TS-1C1 10/28/14	BMC-TS-1C2 10/28/14	BMC-TS-1G1 10/28/14	BMC-TS-1G2 10/28/14	BMC-TS-1G3 10/28/14	BMC-TS-1G4 10/28/14	BMC-TS-1G5 10/28/14	BMC-TS-1G6 10/28/14	BMC-TS-1G7 10/28/14
	Commercial SCOs	Groundwater Protection SCOs	BMC-CF-31G1	BMC-CF-31G2	BMC-TS-1C1	BMC-TS-1C2	BMC-TS-1G1	BMC-TS-1G2	BMC-TS-1G3	BMC-TS-1G4	BMC-TS-1G5	BMC-TS-1G6	BMC-TS-1G7
Herbicides													
2,4,5-TP Acid (Silvex)	500	3.8	NA	NA	<0.0223	<0.0217	NA	NA	NA	NA	NA	NA	NA
Inorganics													
Arsenic	16	16	NA	NA	3.45	3.84	NA	NA	NA	NA	NA	NA	NA
Barium	400	820	NA	NA	19.0	21.2	NA	NA	NA	NA	NA	NA	NA
Beryllium	590	47	NA	NA	<0.111	<0.108	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	7.5	NA	NA	<0.334	<0.325	NA	NA	NA	NA	NA	NA	NA
Chromium	--	--	NA	NA	8.46	9.58	NA	NA	NA	NA	NA	NA	NA
Chromium, hexavalent	400	19	NA	NA	<0.557	<0.542	NA	NA	NA	NA	NA	NA	NA
Chromium, trivalent	1,500	--	NA	NA	8.46	9.58	NA	NA	NA	NA	NA	NA	NA
Copper	270	1,720	NA	NA	5.31	6.17	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	27	40	NA	NA	<0.557	<0.542	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	450	NA	NA	12.4	15.1	NA	NA	NA	NA	NA	NA	NA
Manganese	10,000	2,000	NA	NA	101	130	NA	NA	NA	NA	NA	NA	NA
Mercury	2.8	0.73	NA	NA	0.0399	0.0404	NA	NA	NA	NA	NA	NA	NA
Nickel	310	130	NA	NA	7.90	8.96	NA	NA	NA	NA	NA	NA	NA
Selenium	1,500	4	NA	NA	<1.11	<1.08	NA	NA	NA	NA	NA	NA	NA
Silver	1,500	8.3	NA	NA	<0.557	<0.542	NA	NA	NA	NA	NA	NA	NA
Zinc	10,000	2,480	NA	NA	21.3	23.9	NA	NA	NA	NA	NA	NA	NA
Organic Content	--	--	NA	NA	2.69 HT-04	2.43 HT-04	NA	NA	NA	NA	NA	NA	NA
% Solids	--	--	87.4	86.1	89.8	92.3	93.5	91.8	91.8	90.9	89.8	93.3	93.0
pH	--	--	NA	NA	6.16 HT-pH	6.11 HT-pH	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		PL-TS-1C1 12/12/14	PL-TS-1C2 12/12/14	PL-TS-1G1 12/12/14	PL-TS-1G2 12/12/14	PL-TS-1G3 12/12/14	PL-TS-1G4 12/12/14	PL-TS-1G5 12/12/14	PL-TS-1G6 12/12/14	PL-TS-1G7 12/12/14	PL-TS-2C1 12/31/14	PL-TS-2G1 12/31/14	PL-TS-2G2 12/31/14	PL-TS-3C1 12/31/14
	Commercial SCOs	Groundwater Protection SCOs	PL-TS-1C1	PL-TS-1C2	PL-TS-1G1	PL-TS-1G2	PL-TS-1G3	PL-TS-1G4	PL-TS-1G5	PL-TS-1G6	PL-TS-1G7	PL TS-2 C1	PL- TS- 2 G1	PL-TS-2G2	PL TS-3C1
PCBs															
Total PCBs	1	3.2	<0.0203	<0.0200	NA	NA	NA	NA	NA	NA	NA	<0.0197	NA	NA	<0.0190
VOCs															
1,1,1-Trichloroethane	500	0.68	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,1-Dichloroethane	240	0.27	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,1-Dichloroethene	500	0.33	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,2,4-Trimethylbenzene	190	3.6	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,2-Dichlorobenzene	500	1.1	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,2-Dichloroethane	30	0.02	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,3,5- Trimethylbenzene	190	8.4	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,3-Dichlorobenzene	280	2.4	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
1,4- Dioxane	130	0.1	NA	NA	<0.150	<0.120	<0.130	<0.110	<0.140	<0.0920	<0.0890	NA	<0.100	<0.100	NA
1,4-Dichlorobenzene	130	1.8	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
2-Butanone (MEK)	500	0.12	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Acetone	500	0.05	NA	NA	<0.0150	<0.0120	<0.0130	<0.0110	<0.0140	<0.00920	<0.00890	NA	<0.0100	<0.0100	NA
Benzene	44	0.06	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Carbon tetrachloride	22	0.76	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Chlorobenzene	500	1.1	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Chloroform	350	0.37	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
cis-1,2-Dichloroethene	500	0.25	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Ethylbenzene	--	1	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Methyl tert-butyl ether	500	0.93	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Methylene chloride	500	0.05	NA	NA	<0.0150	<0.0120	<0.0130	<0.0110	<0.0140	<0.00920	<0.00890	NA	<0.0100	<0.0100	NA
n-Butylbenzene	500	12	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
n-Propylbenzene	500	3.9	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
sec-Butylbenzene	500	11	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
tert-Butylbenzene	500	5.9	NA	NA	<0.00760	<0.00610	<0.00630 IS-LO	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Tetrachloroethene	150	1.3	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Toluene	500	0.7	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
trans-1,2-Dichloroethene	500	0.19	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Trichloroethene	200	0.47	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Vinyl chloride	13	0.02	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA
Xylene (m,p)	--	--	NA	NA	<0.0150	<0.0120	<0.0130	<0.0110	<0.0140	<0.00920	<0.00890	NA	<0.0100	<0.0100	NA
Xylene (o)	--	--	NA	NA	<0.00760	<0.00610	<0.00630	<0.00540	<0.00720	<0.00460	<0.00440	NA	<0.00520	<0.00500	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		PL-TS-1C1 12/12/14	PL-TS-1C2 12/12/14	PL-TS-1G1 12/12/14	PL-TS-1G2 12/12/14	PL-TS-1G3 12/12/14	PL-TS-1G4 12/12/14	PL-TS-1G5 12/12/14	PL-TS-1G6 12/12/14	PL-TS-1G7 12/12/14	PL-TS-2C1 12/31/14	PL-TS-2G1 12/31/14	PL-TS-2G2 12/31/14	PL-TS-3C1 12/31/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	PL-TS-1C1	PL-TS-1C2	PL-TS-1G1	PL-TS-1G2	PL-TS-1G3	PL-TS-1G4	PL-TS-1G5	PL-TS-1G6	PL-TS-1G7	PL TS-2 C1	PL- TS- 2 G1	PL-TS-2G2	PL TS-3C1
SVOCs															
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Acenaphthylene	500	107	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Anthracene	500	1,000	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Benzo(a)anthracene	5.6	1	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Benzo(a)pyrene	1	22	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Benzo(b)fluoranthene	5.6	1.7	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Benzo(ghi)perylene	500	1,000	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Benzo(k)fluoranthene	56	1.7	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Chrysene	56	1	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Cresol (m,p)	--	--	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Cresol (o)	500	0.33	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Dibenzo(a,h)anthracene	0.56	1,000	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Dibenzofuran	350	210	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Fluoranthene	500	1,000	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Fluorene	500	386	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Hexachlorobenzene	6	3.2	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Indeno(1,2,3-cd)pyrene	5.6	8.2	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Naphthalene	500	12	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Pentachlorophenol	6.7	0.8	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Phenanthrene	500	1,000	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Phenol	500	0.33	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Pyrene	500	1,000	<0.0508	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0494	NA	NA	<0.0477
Total PAHs	--	--	<0.406	<0.400	NA	NA	NA	NA	NA	NA	NA	<0.395	NA	NA	<0.382
Pesticides															
4,4'-DDD	92	14	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
4,4'-DDE	62	17	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
4,4'-DDT	47	136	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Aldrin	0.68	0.19	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
alpha-BHC	3.4	0.02	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
beta-BHC	3	0.09	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Chlordane	24	2.9	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
delta-BHC	500	0.25	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Dieldrin	1.4	0.1	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan I	200	102	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan II	200	102	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Endosulfan Sulfate	200	1,000	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Endrin	89	0.06	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
gamma-BHC (Lindane)	9.2	0.1	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165
Heptachlor	15	0.38	<0.00165	<0.00165	NA	NA	NA	NA	NA	NA	NA	<0.00165	NA	NA	<0.00165

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		PL-TS-1C1 12/12/14	PL-TS-1C2 12/12/14	PL-TS-1G1 12/12/14	PL-TS-1G2 12/12/14	PL-TS-1G3 12/12/14	PL-TS-1G4 12/12/14	PL-TS-1G5 12/12/14	PL-TS-1G6 12/12/14	PL-TS-1G7 12/12/14	PL-TS-2C1 12/31/14	PL-TS-2G1 12/31/14	PL-TS-2G2 12/31/14	PL-TS-3C1 12/31/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	PL-TS-1C1	PL-TS-1C2	PL-TS-1G1	PL-TS-1G2	PL-TS-1G3	PL-TS-1G4	PL-TS-1G5	PL-TS-1G6	PL-TS-1G7	PL TS-2 C1	PL- TS- 2 G1	PL-TS-2G2	PL TS-3C1
Herbicides															
2,4,5-TP Acid (Silvex)	500	3.8	<0.0244	<0.0240	NA	NA	NA	NA	NA	NA	NA	<0.0237	NA	NA	<0.0229
Inorganics															
Arsenic	16	16	4.12	4.30	NA	NA	NA	NA	NA	NA	NA	5.23	NA	NA	4.85
Barium	400	820	20.9	20.4	NA	NA	NA	NA	NA	NA	NA	25.2	NA	NA	23.8
Beryllium	590	47	<0.122	<0.120	NA	NA	NA	NA	NA	NA	NA	<0.118	NA	NA	<0.114
Cadmium	9.3	7.5	<0.366	<0.360	NA	NA	NA	NA	NA	NA	NA	<0.355	NA	NA	<0.343
Chromium	--	--	8.98	8.01	NA	NA	NA	NA	NA	NA	NA	10.9	NA	NA	9.42
Chromium, hexavalent	400	19	<0.609	<0.599	NA	NA	NA	NA	NA	NA	NA	<0.592	NA	NA	<0.572
Chromium, trivalent	1,500	--	8.98	8.01	NA	NA	NA	NA	NA	NA	NA	10.9	NA	NA	9.42
Copper	270	1,720	8.52	9.01	NA	NA	NA	NA	NA	NA	NA	9.42	NA	NA	9.11
Cyanide, Total	27	40	<0.609	<0.599	NA	NA	NA	NA	NA	NA	NA	<0.592	NA	NA	<0.572
Lead	1,000	450	13.3	13.3	NA	NA	NA	NA	NA	NA	NA	13.5	NA	NA	14.1
Manganese	10,000	2,000	97.9	101	NA	NA	NA	NA	NA	NA	NA	114	NA	NA	105
Mercury	2.8	0.73	0.0445	0.0396	NA	NA	NA	NA	NA	NA	NA	0.0394	NA	NA	<0.0343
Nickel	310	130	7.77	7.54	NA	NA	NA	NA	NA	NA	NA	8.77	NA	NA	7.44
Selenium	1,500	4	2.85	3.00	NA	NA	NA	NA	NA	NA	NA	3.11	NA	NA	2.67
Silver	1,500	8.3	<0.609	<0.599	NA	NA	NA	NA	NA	NA	NA	<0.592	NA	NA	<0.572
Zinc	10,000	2,480	23.3	22.5	NA	NA	NA	NA	NA	NA	NA	23.8	NA	NA	24.2
Organic Content	--	--	5.01	4.78	NA	NA	NA	NA	NA	NA	NA	4.08	NA	NA	5.74
% Solids	--	--	82.0	83.4	84.1	84.9	82.6	86.9	82.0	85.5	88.8	84.5	86.3	89.5	87.5
pH	--	--	7.23	7.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		PL-TS-3G1 12/31/14	PL-TS-3G2 12/31/14	PL-TS-4C1 12/31/14	PL-TS-4G1 12/31/14	PL-TS-4G2 12/31/14
	Commercial SCOs	Groundwater Protection SCOs	PL-TS-3G1	PL-TS-3G2	PL TS-4C1	PL-TS-4G1	PL-TS-4G2
PCBs							
Total PCBs	1	3.2	NA	NA	<0.0186	NA	NA
VOCs							
1,1,1-Trichloroethane	500	0.68	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,1-Dichloroethane	240	0.27	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,1-Dichloroethene	500	0.33	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,2,4-Trimethylbenzene	190	3.6	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,2-Dichlorobenzene	500	1.1	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,2-Dichloroethane	30	0.02	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,3,5- Trimethylbenzene	190	8.4	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,3-Dichlorobenzene	280	2.4	<0.00610	<0.00600	NA	<0.00520	<0.00560
1,4- Dioxane	130	0.1	<0.120	<0.120	NA	<0.100	<0.110
1,4-Dichlorobenzene	130	1.8	<0.00610	<0.00600	NA	<0.00520	<0.00560
2-Butanone (MEK)	500	0.12	<0.00610	<0.00600	NA	<0.00520	<0.00560
Acetone	500	0.05	<0.0120	<0.0120	NA	<0.0100	<0.0110
Benzene	44	0.06	<0.00610	<0.00600	NA	<0.00520	<0.00560
Carbon tetrachloride	22	0.76	<0.00610	<0.00600	NA	<0.00520	<0.00560
Chlorobenzene	500	1.1	<0.00610	<0.00600	NA	<0.00520	<0.00560
Chloroform	350	0.37	<0.00610	<0.00600	NA	<0.00520	<0.00560
cis-1,2-Dichloroethene	500	0.25	<0.00610	<0.00600	NA	<0.00520	<0.00560
Ethylbenzene	--	1	<0.00610	<0.00600	NA	<0.00520	<0.00560
Methyl tert-butyl ether	500	0.93	<0.00610	<0.00600	NA	<0.00520	<0.00560
Methylene chloride	500	0.05	<0.0120	<0.0120	NA	<0.0100	<0.0110
n-Butylbenzene	500	12	<0.00610	<0.00600	NA	<0.00520	<0.00560
n-Propylbenzene	500	3.9	<0.00610	<0.00600	NA	<0.00520	<0.00560
sec-Butylbenzene	500	11	<0.00610	<0.00600	NA	<0.00520	<0.00560
tert-Butylbenzene	500	5.9	<0.00610	<0.00600	NA	<0.00520	<0.00560
Tetrachloroethene	150	1.3	<0.00610	<0.00600	NA	<0.00520	<0.00560
Toluene	500	0.7	<0.00610	<0.00600	NA	<0.00520	<0.00560
trans-1,2-Dichloroethene	500	0.19	<0.00610	<0.00600	NA	<0.00520	<0.00560
Trichloroethene	200	0.47	<0.00610	<0.00600	NA	<0.00520	<0.00560
Vinyl chloride	13	0.02	<0.00610	<0.00600	NA	<0.00520	<0.00560
Xylene (m,p)	--	--	<0.0120	<0.0120	NA	<0.0100	<0.0110
Xylene (o)	--	--	<0.00610	<0.00600	NA	<0.00520	<0.00560

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	6 NYCRR Part 375 SCOs		PL-TS-3G1 12/31/14	PL-TS-3G2 12/31/14	PL-TS-4C1 12/31/14	PL-TS-4G1 12/31/14	PL-TS-4G2 12/31/14
Sample Name:	Commercial SCOs	Groundwater Protection SCOs	PL-TS-3G1	PL-TS-3G2	PL TS-4C1	PL-TS-4G1	PL-TS-4G2
SVOCs							
1,4- Dioxane	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	98	NA	NA	<0.0465	NA	NA
Acenaphthylene	500	107	NA	NA	<0.0465	NA	NA
Anthracene	500	1,000	NA	NA	<0.0465	NA	NA
Benzo(a)anthracene	5.6	1	NA	NA	<0.0465	NA	NA
Benzo(a)pyrene	1	22	NA	NA	<0.0465	NA	NA
Benzo(b)fluoranthene	5.6	1.7	NA	NA	<0.0465	NA	NA
Benzo(ghi)perylene	500	1,000	NA	NA	<0.0465	NA	NA
Benzo(k)fluoranthene	56	1.7	NA	NA	<0.0465	NA	NA
Chrysene	56	1	NA	NA	<0.0465	NA	NA
Cresol (m,p)	--	--	NA	NA	<0.0465	NA	NA
Cresol (o)	500	0.33	NA	NA	<0.0465	NA	NA
Dibenzo(a,h)anthracene	0.56	1,000	NA	NA	<0.0465	NA	NA
Dibenzofuran	350	210	NA	NA	<0.0465	NA	NA
Fluoranthene	500	1,000	NA	NA	0.0398 J	NA	NA
Fluorene	500	386	NA	NA	<0.0465	NA	NA
Hexachlorobenzene	6	3.2	NA	NA	<0.0465	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	8.2	NA	NA	<0.0465	NA	NA
Naphthalene	500	12	NA	NA	<0.0465	NA	NA
Pentachlorophenol	6.7	0.8	NA	NA	<0.0465	NA	NA
Phenanthrene	500	1,000	NA	NA	<0.0465	NA	NA
Phenol	500	0.33	NA	NA	<0.0465	NA	NA
Pyrene	500	1,000	NA	NA	0.0331 J	NA	NA
Total PAHs	--	--	NA	NA	0.398 J	NA	NA
Pesticides							
4,4'-DDD	92	14	NA	NA	<0.00165	NA	NA
4,4'-DDE	62	17	NA	NA	<0.00165	NA	NA
4,4'-DDT	47	136	NA	NA	<0.00165	NA	NA
Aldrin	0.68	0.19	NA	NA	<0.00165	NA	NA
alpha-BHC	3.4	0.02	NA	NA	<0.00165	NA	NA
beta-BHC	3	0.09	NA	NA	<0.00165	NA	NA
Chlordane	24	2.9	NA	NA	<0.00165	NA	NA
delta-BHC	500	0.25	NA	NA	<0.00165	NA	NA
Dieldrin	1.4	0.1	NA	NA	<0.00165	NA	NA
Endosulfan I	200	102	NA	NA	<0.00165	NA	NA
Endosulfan II	200	102	NA	NA	<0.00165	NA	NA
Endosulfan Sulfate	200	1,000	NA	NA	<0.00165	NA	NA
Endrin	89	0.06	NA	NA	<0.00165	NA	NA
gamma-BHC (Lindane)	9.2	0.1	NA	NA	<0.00165	NA	NA
Heptachlor	15	0.38	NA	NA	<0.00165	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected: Sample Name:	6 NYCRR Part 375 SCOs		PL-TS-3G1 12/31/14	PL-TS-3G2 12/31/14	PL-TS-4C1 12/31/14	PL-TS-4G1 12/31/14	PL-TS-4G2 12/31/14
	Commercial SCOs	Groundwater Protection SCOs	PL-TS-3G1	PL-TS-3G2	PL TS-4C1	PL-TS-4G1	PL-TS-4G2
Herbicides							
2,4,5-TP Acid (Silvex)	500	3.8	NA	NA	<0.0223	NA	NA
Inorganics							
Arsenic	16	16	NA	NA	3.66	NA	NA
Barium	400	820	NA	NA	18.0	NA	NA
Beryllium	590	47	NA	NA	<0.112	NA	NA
Cadmium	9.3	7.5	NA	NA	<0.335	NA	NA
Chromium	--	--	NA	NA	7.72	NA	NA
Chromium, hexavalent	400	19	NA	NA	<0.558	NA	NA
Chromium, trivalent	1,500	--	NA	NA	7.72	NA	NA
Copper	270	1,720	NA	NA	6.54	NA	NA
Cyanide, Total	27	40	NA	NA	<0.558	NA	NA
Lead	1,000	450	NA	NA	13.6	NA	NA
Manganese	10,000	2,000	NA	NA	82.5	NA	NA
Mercury	2.8	0.73	NA	NA	<0.0335	NA	NA
Nickel	310	130	NA	NA	5.78	NA	NA
Selenium	1,500	4	NA	NA	2.05	NA	NA
Silver	1,500	8.3	NA	NA	<0.558	NA	NA
Zinc	10,000	2,480	NA	NA	17.6	NA	NA
Organic Content	--	--	NA	NA	3.32	NA	NA
% Solids	--	--	85.3	88.1	89.7	90.9	92.1
pH	--	--	NA	NA	NA	NA	NA

TABLE 1
IMPORTED CLEAN FILL MATERIAL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Notes:

1. The 2013 samples were collected by Preferred Environmental Services and the 2014/2015 samples were collected by Posillico Environmental, Inc. on the dates indicated.
2. VOCs = Volatile Organic Compounds.
3. SVOCs = Semi-Volatile Organic Compounds.
4. PCBs = Polychlorinated Biphenyls.
5. PAHs = Polycyclic Aromatic Hydrocarbons.
6. Samples were analyzed by York Analytical Laboratories, Inc. located in Stratford, Connecticut for:
 - VOCs using United States Environmental Protection Agency (USEPA) SW-846 Method 8260.
 - SVOCs using USEPA SW-846 Method 8270.
 - Inorganics using USEPA SW-846 Methods 6010, 7471 and 335.4.
 - PCBs using USEPA SW-846 Method 8082.
 - Pesticides using USEPA SW-846 Method 8081.
7. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
8. Data qualifiers are defined as follows:
 - < = Constituent not detected at a concentration above the reported detection limit.
 - B = The compound has been found in the sample as well as its associated blank.
 - D = Concentration is based on a diluted sample analysis.
 - HT-04 = Client requested analysis be conducted outside of holding times.
 - J = Indicates that the associated numerical value is an estimated concentration.
 - CCV-E = The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
 - IS LO = Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit.
9. 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b).
10. Bold font indicates that the result exceeds the Commercial SCO and shading indicates that the result exceeds the Groundwater Protection SCO.
11. - - = No 6 NYCRR Part 375 SCO listed.
12. Total PAHs were calculated as the sum of the following, which is consistent with the NYSDEC list from: <http://www.dec.ny.gov/chemical/24922.html>:

2-Methylnaphthalene	Benzo(b)fluoranthene	Fluorene
Acenaphthene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene
Acenaphthylene	Benzo(k)fluoranthene	Naphthalene
Anthracene	Chrysene	Phenanthrene
Benzo(a)anthracene	Dibenzo(a,h)anthracene	Pyrene
Benzo(a)pyrene	Fluoranthene	

TABLE 2
EXCAVATION AREA DETAIL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Excavation Area ID	Excavation Rationale	Surface Area (SF)	Excavation Depth (ft)	Volume of Excavated Soil (CY)	Volume of Backfill Material Placed During Phase (CY)	Backfill Material Source
Phase 1 OU4 Remedial Activities (2013)						
1A	Arsenic Impacts	4,431	1	165	0	All Phase 1 OU4 excavations were backfilled with imported clean fill to within 4 feet of bgs in 2013. Backfill volume listed for each Phase 1 OU4 excavation was the volume placed in 2013. A zero indicates that remaining backfilling of the excavation was deferred until the Phase 2 OU4 remediation in 2014/2015.
2A	PCB Impacts	5,118	2	380	0	
3A	Arsenic Impacts	3,736	1	139	0	
4A	Arsenic Impacts	2,373	1	88	0	
5A	Arsenic Impacts	900	1	34	0	
6A	PCB Impacts	3,138	4	465	0	
7A	Arsenic Impacts	1,213	1	45	0	
8A	PCB Impacts	1,128	4	168	0	
9A	PCB Impacts	1,453	4	216	0	
10A	PCB Impacts	1,487	8	441	220	
11A	PCB Impacts	1,208	4	179	0	
12A	PCB Impacts	782	2	58	0	
13A	PCB Impacts	1,114	6	248	0	
14A	PCB and Chromium Impacts	1,714	4	254	0	
15A	PCB Impacts	801	2	60	0	
16A	PCB Impacts	398	8.5	126	37	
17A	PCB Impacts	2,215	4	329	0	
18A	PCB Impacts	765	2	57	0	
19A	PCB Impacts	900	6	200	67	
20A	PCB Impacts	1,127	10	418	250	
21A	PCB Impacts	2,758	2	205	0	
22A	PCB Impacts	578	10	215	128	
23A	PCB Impacts	1,517	6	338	112	
24A	PCB Impacts	392	6	88	29	
25A	PCB Impacts	999	10	370	222	
26A	PCB Impacts	1,025	4	152	0	
27A	PCB Impacts	645	8	192	96	
28A	SVOC Impacts	496	1	19	0	
29A	PCB Impacts	2,325	4	345	0	
30A	PCB Impacts	864	6	192	64	
31A	PCB Impacts	388	2	29	0	
32A	PCB Impacts	1,629	2	121	0	
33A	PCB Impacts	1,238	6	276	92	
34A	PCB Impacts	1,509	6	336	112	
35A	SVOC Impacts	900	2	67	0	
36A	PCB Impacts	395	4	59	0	
37A	PCB Impacts	443	4	66	0	
1B	SVOC Impacts	1,085	1	41	0	
2B	PCB Impacts	1,025	1	38	0	
3B	SVOC Impacts	2,140	1	80	0	
4B	SVOC Impacts	900	1	34	0	
5B	PCB Impacts	3,265	1	121	0	
6B	PCB Impacts	915	1	34	0	
7B	SVOC Impacts	2,250	1	84	0	
8B	PCB Impacts	1,000	1	38	0	
10B	SVOC Impacts	2,065	1	77	0	
11B	SVOC Impacts	900	1	34	0	
12B	PCB Impacts	855	1	32	0	
13B	PCB Impacts	6,900	1	256	0	
15B	PCB Impacts	760	1	29	0	
16B	PCB Impacts	7,840	1	291	0	
18B	PCB Impacts	795	1	30	0	
19B	PCB Impacts	490	1	19	0	
20B	PCB Impacts	650	1	25	0	
21B	PCB Impacts	1,640	1	61	0	
22B	PCB Impacts	440	1	17	0	
23B	PCB and SVOC Impacts	900	1	34	0	
24B	PCB Impacts	900	1	34	0	
Phase 1 OU4 Excavation and Backfill Subtotals:				8,549	1,429	--
Uncompleted Backfill Volume Addressed During Phase 2 OU4:				--	7,120	--

**TABLE 2
EXCAVATION AREA DETAIL SUMMARY**

**FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK**

Excavation Area ID	Excavation Rationale	Surface Area (SF)	Excavation Depth (ft)	Volume of Excavated Soil (CY)	Volume of Backfill Material Placed During Phase (CY)	Backfill Material Source
Phase 2 OU4 Remedial Activities (2014/2015)						
13A-1	PCB Impacts	750	8 (NW Quadrant) 10 (NE Quadrant) 12 (Main Section)	167	167	Imported clean fill
13A-2	PCB Impacts	115	14	35	35	
21A	PCB Impacts	922	6	137	137	
24A	Arsenic Impacts	272	8 (N Section) 10 (SW Quadrant) 12 (SE Quadrant)	60.44	60.44	
16B-1	PCB Impacts	480	2	36	36	
16B-2	PCB Impacts	77	1	3	3	
16B-3	PCB Impacts	930	4	138	138	
16B-4	PCB Impacts	2,405	1	90	90	
17B-1	PCB Impacts	1,940	1	72	72	
17B-2	Arsenic Impacts	1,530	1	57	57	
17B-3	PCB Impacts	115	1	5	5	
1C	PCB Impacts	1,040	2	78	78	
2C	PCB Impacts	295	2	22	22	
3C	PCB Impacts	4,790	1	178	178	
4C	PCB Impacts	1,350	1	50	50	
5C	PCB Impacts	180	1	7	7	
6C	PCB Impacts	435	2	33	33	
7C	PCB Impacts	14,660	2	1,086	1,086	
8C	PCB Impacts	950	1	36	36	
9C	PCB Impacts	910	1	34	34	
10C	PCB Impacts	2,255	1	84	84	
11C	PCB Impacts	920	1	35	35	
12C	PCB Impacts	865	2	65	65	
13C	PCB Impacts	900	2	67	67	
14C	PCB Impacts	1,350	2	100	100	
15C	PCB Impacts	9,180	1	340	340	
16C	PCB Impacts	1,155	2	86	86	
17C	PCB Impacts	4,355	1	162	162	
18C	PCB Impacts	1,135	8	337	337	
19C	PCB Impacts	1,290	2	96	96	
20C	Arsenic Impacts	2,180	1	81	81	
21C	Arsenic Impacts	4,255	2	316	316	
22C	Arsenic Impacts	990	4	147	147	
23C	Arsenic Impacts	11,300	1	419	419	
24C	Arsenic Impacts	29,860	2	2,212	2,212	
25C	PCB Impacts	1,741	1	65	65	
26C	PCB Impacts	1,499	1	56	56	
27C	PCB Impacts	3,220	1	120	120	
Mound Area	PCB Impacts	10,035	2-3	1,115	--	--
Phase 1 OU4 Remaining Open Excavation Areas:				--	7,120	Imported clean fill
Phase 2 OU4 Grading Plan Backfill Reduction (Grading Plan Areas):				--	(2,100)	--
Phase 2 OU4 Excavation and Backfill Subtotals:				8,227	13,247	--
Phase 1 and 2 OU4 Excavation and Backfill Totals:				16,776	14,676	--

Notes:

- Excavations completed as part of the OU4 remedial activities had a demarcation layer (i.e., orange construction fencing) placed at the final excavation depth prior to backfilling.
- SF = Square Feet.
- ft = Feet.
- CY = Cubic Yards.
- PCBs = Polychlorinated Biphenyls.
- OU = Operable Unit.

TABLE 3
WASTE LIQUID CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	EQ Frac Tank	Posillico Frack Tank		9,000-Gallon UST
		Bayer-Frac Liq-1 06/11/13	FT-2 12/17/14	FT-2 12/18/14	TANK-1 05/29/13
PCBs					
Total PCBs	50	0.00130	0.00214	NA	<0.000250
VOCs					
1,1,1,2-Tetrachloroethane	--	NA	NA	<0.000500	NA
1,1,1-Trichloroethane	--	NA	NA	<0.000500	<0.00100
1,1,2,2-Tetrachloroethane	--	NA	NA	<0.000500	<0.000500
1,1,2-Trichloro-1,2,2-trifluoroethane	--	NA	NA	<0.000500	NA
1,1,2-Trichloroethane	--	NA	NA	<0.000500	<0.00100
1,1-Dichloroethane	--	NA	NA	<0.000500	<0.00100
1,1-Dichloroethene	0.7	NA	NA	<0.000500	<0.00100
1,1-Dichloropropene	--	NA	NA	<0.000500	NA
1,2,3-Trichlorobenzene	--	NA	NA	<0.000500	NA
1,2,3-Trichloropropane	--	NA	NA	<0.000500	NA
1,2,4-Trichlorobenzene	--	NA	NA	<0.000500	NA
1,2,4-Trimethylbenzene	--	NA	NA	<0.000500	NA
1,2-Dibromo-3-Chloropropane	--	NA	NA	<0.000500	NA
1,2-Dibromoethane	--	NA	NA	<0.000500	NA
1,2-Dichlorobenzene	--	NA	NA	<0.000500	NA
1,2-Dichloroethane	0.5	NA	NA	<0.000500	<0.00100
1,2-Dichloropropane	--	NA	NA	<0.000500	<0.00200
1,3,5,- Trimethylbenzene	--	NA	NA	<0.000500	NA
1,3-Dichlorobenzene	--	NA	NA	<0.000500	NA
1,3-Dichloropropane	--	NA	NA	<0.000500	NA
1,4-Dichlorobenzene	7.5	NA	NA	<0.000500	NA
2,2-Dichloropropane	--	NA	NA	<0.000500	NA
2-Butanone (MEK)	200	NA	NA	<0.000500	<0.00500
2-Chlorotoluene	--	NA	NA	<0.000500	NA
2-Hexanone	--	NA	NA	<0.000500	<0.00500
4-Chlorotoluene	--	NA	NA	<0.000500	NA
4-Isopropyltoluene	--	NA	NA	<0.000500	NA
4-Methyl-2-pentanone (MIBK)	--	NA	NA	0.000360 J	<0.00500
Acetone	--	NA	NA	0.00260 Cal-ECCV	<0.0100
Benzene	0.5	NA	NA	<0.000500	<0.000500
Bromobenzene	--	NA	NA	<0.000500	NA
Bromochloromethane	--	NA	NA	<0.000500	NA
Bromodichloromethane	--	NA	NA	<0.000500	<0.00100
Bromoform	--	NA	NA	<0.000500	<0.00100
Bromomethane	--	NA	NA	<0.000500	<0.00200
Carbon disulfide	--	NA	NA	<0.000500	<0.00500
Carbon tetrachloride	0.5	NA	NA	<0.000500	<0.00100
Chlorobenzene	100	NA	NA	<0.000500	<0.00100
Chloroethane	--	NA	NA	<0.000500	<0.00200
Chloroform	6	NA	NA	<0.000500	<0.00100
Chloromethane	--	NA	NA	<0.000500	<0.00200
cis-1,2-Dichloroethene	--	NA	NA	<0.000500	<0.00100
cis-1,3-Dichloropropene	--	NA	NA	<0.000500	<0.000500
Dibromochloromethane	--	NA	NA	<0.000500	<0.00100
Dibromomathane	--	NA	NA	<0.000500	NA
Dichlorodifluoromethane	--	NA	NA	<0.000500	NA
Ethylbenzene	--	NA	NA	<0.000500	<0.00100
Freon 11	--	NA	NA	<0.000500	NA
Hexachlorobutadiene	0.5	NA	NA	<0.000500	NA
Isopropylbenzene	--	NA	NA	<0.000500	NA
Methyl tert-butyl ether	--	NA	NA	<0.000500	NA
Methylene chloride	--	NA	NA	0.00110 JB	<0.00200
Naphthalene	--	NA	NA	<0.00200	NA
n-Butylbenzene	--	NA	NA	<0.000500	NA
n-Propylbenzene	--	NA	NA	<0.000500	NA

TABLE 3
WASTE LIQUID CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	EQ Frac Tank	Posillico Frack Tank		9,000-Gallon UST
		Bayer-Frac Liq-1 06/11/13	FT-2 12/17/14	FT-2 12/18/14	TANK-1 05/29/13
sec-Butylbenzene	--	NA	NA	<0.000500	NA
Styrene	--	NA	NA	<0.000500	<0.00500
tert-Butylbenzene	--	NA	NA	<0.000500	NA
Tetrachloroethene	0.5	NA	NA	<0.000500	<0.00100
Toluene	--	NA	NA	<0.000500	<0.00100
trans-1,2-Dichloroethene	--	NA	NA	<0.000500	<0.00100
trans-1,3-Dichloropropene	--	NA	NA	<0.000500	<0.000500
Trichloroethene	0.5	NA	NA	<0.000500	<0.00100
Vinyl chloride	0.2	NA	NA	<0.000500	<0.00100
Xylene (m,p)	--	NA	NA	<0.00100	NA
Xylene (o)	--	NA	NA	<0.000500	NA
Xylenes (total)	--	NA	NA	<0.00150	<0.00100
SVOCs					
1,2,4-Trichlorobenzene	--	NA	NA	NA	<0.00500
1,2-Dichlorobenzene	--	NA	NA	NA	<0.00500
1,3-Dichlorobenzene	--	NA	NA	NA	<0.00500
1,4-Dichlorobenzene	7.5	NA	NA	NA	<0.00500
2,2-oxybis (1-chloropropane)	--	NA	NA	NA	<0.00500
2,4,5-Trichlorophenol	400	NA	NA	NA	<0.0100
2,4,6-Trichlorophenol	2	NA	NA	NA	<0.0100
2,4-Dichlorophenol	--	NA	NA	NA	<0.0100
2,4-Dimethylphenol	--	NA	NA	NA	<0.0100
2,4-Dinitrophenol	--	NA	NA	NA	<0.0200
2,4-Dinitrotoluene	0.13	NA	NA	NA	<0.0100
2,6-Dinitrotoluene	--	NA	NA	NA	<0.0100
2-Chloronaphthalene	--	NA	NA	NA	<0.00500
2-Chlorophenol	--	NA	NA	NA	<0.00500
2-Methylnaphthalene	--	NA	NA	NA	<0.00200
2-Nitroaniline	--	NA	NA	NA	<0.0100
2-Nitrophenol	--	NA	NA	NA	<0.0100
3,3-Dichlorobenzidine	--	NA	NA	NA	<0.00500
3-Nitroaniline	--	NA	NA	NA	<0.0100
4,6-Dinitro-2-methylphenol	--	NA	NA	NA	<0.0100
4-Bromophenyl phenyl ether	--	NA	NA	NA	<0.00500
4-Chloro-3-methylphenol	--	NA	NA	NA	<0.0100
4-Chloroaniline	--	NA	NA	NA	<0.0100
4-Chlorophenyl phenyl ether	--	NA	NA	NA	<0.00500
4-Nitroaniline	--	NA	NA	NA	<0.0100
4-Nitrophenol	--	NA	NA	NA	<0.0200
Acenaphthene	--	NA	NA	NA	<0.00200
Acenaphthylene	--	NA	NA	NA	<0.00200
Anthracene	--	NA	NA	NA	<0.00200
Benzo(a)anthracene	--	NA	NA	NA	<0.00200
Benzo(a)pyrene	--	NA	NA	NA	<0.00200
Benzo(b)fluoranthene	--	NA	NA	NA	<0.00200
Benzo(ghi)perylene	--	NA	NA	NA	<0.00200
Benzo(k)fluoranthene	--	NA	NA	NA	<0.00200
Bis(2-chloroethoxy)methane	--	NA	NA	NA	<0.00500
Bis(2-chloroethyl)ether	--	NA	NA	NA	<0.00500
Bis(2-ethylhexyl)phthalate	--	NA	NA	NA	<0.00200
Butyl benzyl phthalate	--	NA	NA	NA	<0.00500
Carbazole	--	NA	NA	NA	<0.00200
Chrysene	--	NA	NA	NA	<0.00200
Cresol (m,p)	--	NA	NA	NA	<0.0100
Cresol (o)	200	NA	NA	NA	<0.0100
Dibenzo(a,h)anthracene	--	NA	NA	NA	<0.00200
Dibenzofuran	--	NA	NA	NA	<0.00200
Diethyl phthalate	--	NA	NA	NA	<0.00500

TABLE 3
WASTE LIQUID CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	EQ Frac Tank	Posillico Frack Tank		9,000-Gallon UST
		Bayer-Frac Liq-1 06/11/13	FT-2 12/17/14	FT-2 12/18/14	TANK-1 05/29/13
Dimethyl phthalate	--	NA	NA	NA	<0.00500
Di-n-butyl phthalate	--	NA	NA	NA	<0.00500
Di-n-octyl phthalate	--	NA	NA	NA	<0.00500
Fluoranthene	--	NA	NA	NA	<0.00200
Fluorene	--	NA	NA	NA	<0.00200
Hexachlorobenzene	0.13	NA	NA	NA	<0.00500
Hexachlorobutadiene	0.5	NA	NA	NA	<0.00500
Hexachlorocyclopentadiene	--	NA	NA	NA	<0.0100
Hexachloroethane	3	NA	NA	NA	<0.00500
Indeno(1,2,3-cd)pyrene	--	NA	NA	NA	<0.00200
Isophorone	--	NA	NA	NA	<0.00500
Naphthalene	--	NA	NA	NA	<0.00200
Nitrobenzene	2	NA	NA	NA	<0.00500
n-Nitroso-di-n-propylamine	--	NA	NA	NA	<0.00500
n-Nitrosodiphenylamine	--	NA	NA	NA	<0.00500
Pentachlorophenol	100	NA	NA	NA	<0.0100
Phenanthrene	--	NA	NA	NA	<0.00200
Phenol	--	NA	NA	NA	<0.00500
Pyrene	--	NA	NA	NA	<0.00200
Total PAHs	--	NA	NA	NA	<0.0170
Metals					
Aluminum	--	NA	NA	NA	<0.200
Antimony	--	NA	NA	NA	<0.00600
Arsenic	5	0.0103 J	0.00464	NA	<0.00400
Barium	100	0.367	NA	NA	<0.0500
Beryllium	--	NA	NA	NA	<0.00400
Cadmium	1	<0.00500	<0.00300	NA	<0.00400
Calcium	--	NA	NA	NA	17.6
Chromium	5	0.0169 J	<0.00500	NA	<0.0100
Cobalt	--	NA	NA	NA	<0.0500
Copper	--	NA	NA	NA	<0.0250
Cyanide, Total	--	NA	NA	NA	<0.0100
Iron	--	NA	NA	NA	0.260
Lead	5	0.0219	0.0180	NA	<0.00500
Magnesium	--	NA	NA	NA	6.89
Manganese	--	NA	NA	NA	0.0655
Mercury	0.2	NA	NA	NA	<0.000200
Nickel	--	NA	NA	NA	<0.0400
Potassium	--	NA	NA	NA	<5.00
Selenium	1	<0.0100	NA	NA	<0.0100
Silver	5	<0.00500	NA	NA	<0.00500
Sodium	--	NA	NA	NA	33.0
Thallium	--	NA	NA	NA	<0.00500
Vanadium	--	NA	NA	NA	<0.0100
Zinc	--	NA	NA	NA	0.0279

TABLE 3
WASTE LIQUID CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	EQ Frac Tank	Posillico Frack Tank		9,000-Gallon UST
		Bayer-Frac Liq-1 06/11/13	FT-2 12/17/14	FT-2 12/18/14	TANK-1 05/29/13
Miscellaneous					
Flashpoint	--	NA	>200	NA	NA
Total Organic Halogens (TOX)	--	NA	0.0243	NA	NA
Total Solids	--	NA	344	NA	NA
Ignitability (Flashpoint)	--	NA	NA	NA	Neg
pH					
pH	--	NA	NA	NA	6.7
Hydrocarbons					
TPH-DRO (Semi-VOA)	--	NA	NA	NA	0.158 J
TPH-GRO (VOA)	--	NA	NA	NA	0.0266 J

Notes:

- The 2013 samples were collected by Arcadis and the 2014 samples were collected by Posillico Environmental, Inc. on the dates indicated.
- PCBs = Polychlorinated biphenyls.
- SVOCs = Semi-Volatile Organic Compounds.
- VOCs = Volatile Organic Compounds.
- The 2013 samples were analyzed by American Analytical Laboratories, LLC located in Farmingdale, NY and the 2014 samples were analyzed by York Analytical Laboratories, Inc. located in Stratford, Connecticut for:
 - PCBs using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
 - VOCs using USEPA SW-846 Method 8260.
 - SVOCs using USEPA SW-846 Method 8270.
 - Metals using USEPA SW-846 Method 1311 and 8260B.
 - Corrosivity (pH) using USEPA SW-846 Method 9045C.
 - Ignitability using USEPA SW-846 Method 1030.
- All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per Liter (mg/L).
- Data qualifiers are defined as follows:
 - J - Indicates that the associated numerical value is an estimated concentration.
 - < - The compound was not detected above the reported detection limit.
 - B - Indicates the analyte was found in the associated analysis batch blank.
- 6 NYCRR Part 371 Criteria are the thresholds for a characteristic hazardous waste (or in the case of PCBs - a listed hazardous waste) from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Parts 371.3(b) through (e), and Part 371.4(e).
- = No cleanup level applicable.
- UST = Underground storage tank.
- NA = Not Analyzed.

TABLE 4
DEBRIS CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Waste Characterization Regulatory Limits	Phase 1 Operable Unit 4 Waste		
			Bayer-WC-Concrete-1 05/31/13	LMH-1 05/29/13	TANK-1A 05/29/13
PCBs					
Total PCBs	--	50 (TSCA)	<0.0100	2.48	1.81
VOCs					
1,1,1,2-Tetrachloroethane	--	--	<0.000990	NA	NA
1,1,1-Trichloroethane	500	--	<0.000990	<0.0870	<0.150
1,1,2,2-Tetrachloroethane	--	--	<0.000990	<0.0870	<0.150
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	<0.000990	NA	NA
1,1,2-Trichloroethane	--	--	<0.000990	<0.0870	<0.150
1,1-Dichloroethane	240	--	<0.000990	<0.0870	<0.150
1,1-Dichloroethene	500	--	<0.000990	<0.0870	<0.150
1,1-Dichloropropene	--	--	<0.000990	NA	NA
1,2,3-Trichlorobenzene	--	--	<0.000990	NA	NA
1,2,3-Trichloropropane	--	--	<0.000990	NA	NA
1,2,4,5-Tetramethylbenzene	--	--	<0.000990	NA	NA
1,2,4-Trichlorobenzene	--	--	<0.000990	NA	NA
1,2,4-Trimethylbenzene	190	--	<0.000990	NA	NA
1,2-Dibromo-3-Chloropropane	--	--	<0.00200	NA	NA
1,2-Dibromoethane	--	--	<0.000990	NA	NA
1,2-Dichlorobenzene	500	--	<0.000990	NA	NA
1,2-Dichloroethane	30	--	<0.000990 C	<0.0870	<0.150
1,2-Dichloropropane	--	--	<0.000990	<0.0870	<0.150
1,2-Dichlorotetrafluoroethane	--	--	<0.000990	NA	NA
1,3,5,- Trimethylbenzene	190	--	<0.000990	NA	NA
1,3-Dichlorobenzene	280	--	<0.000990	NA	NA
1,3-Dichloropropane	--	--	<0.000990	NA	NA
1,4- Dioxane	130	--	<0.000990	NA	NA
1,4-Dichlorobenzene	130	--	<0.000990	NA	NA
2,2-Dichloropropane	--	--	<0.000990 C	NA	NA
2-Butanone (MEK)	500	--	<0.00490	3.90	6.89
2-Chloroethylvinylether	--	--	<0.000990 C	NA	NA
2-Chlorotoluene	--	--	<0.000990	NA	NA
2-Hexanone	--	--	<0.00490	<0.220	<0.380
4-Chlorotoluene	--	--	<0.000990	NA	NA
4-Ethyltoluene	--	--	<0.000990	NA	NA
4-Isopropyltoluene	--	--	<0.000990	NA	NA
4-Methyl-2-pentanone (MIBK)	--	--	<0.00490	<0.220	<0.380
Acetone	500	--	0.0150 B	3.49	5.95
Acrolein	--	--	<0.0120	NA	NA
Acrylonitrile	--	--	<0.000990	NA	NA
Benzene	44	--	<0.000990	<0.0220	<0.0380
Benzene, 1,4-diethyl-	--	--	<0.000990	NA	NA
Bromobenzene	--	--	<0.000990	NA	NA
Bromochloromethane	--	--	<0.000990	NA	NA
Bromodichloromethane	--	--	<0.000990	<0.0870	<0.150
Bromoform	--	--	<0.000990	<0.0870	<0.150
Bromomethane	--	--	<0.000990 C	<0.0870	<0.150
Carbon disulfide	--	--	<0.000990	<0.220	0.0468 J
Carbon tetrachloride	22	--	<0.000990	<0.0870	<0.150
Chlorobenzene	500	--	<0.000990	<0.0870	<0.150
Chlorodifluoromethane	--	--	<0.000990	NA	NA
Chloroethane	--	--	<0.000990	<0.220	<0.380
Chloroform	350	--	<0.000990	<0.0870	<0.150
Chloromethane	--	--	<0.000990	<0.220	<0.380
cis-1,2-Dichloroethene	500	--	<0.000990	<0.0870	<0.150
cis-1,3-Dichloropropene	--	--	<0.000990	<0.0870	<0.150
Dibromochloromethane	--	--	<0.000990	<0.0870	<0.150
Dibromomathane	--	--	<0.000990	NA	NA
Dichlorodifluoromethane	--	--	<0.000990	NA	NA
Diisopropylether	--	--	<0.000990	NA	NA

TABLE 4
DEBRIS CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Waste Characterization Regulatory Limits	Phase 1 Operable Unit 4 Waste		
			Bayer-WC-Concrete-1 05/31/13	LMH-1 05/29/13	TANK-1A 05/29/13
VOCs (cont'd)					
Ethanol	--	--	<0.0120	NA	NA
Ethylbenzene	--	--	<0.000990	<0.0870	<0.150
Freon 11	--	--	<0.000990	NA	NA
Hexachlorobutadiene	--	--	<0.000990	NA	NA
Isopropyl Alcohol	--	--	<0.00200	NA	NA
Isopropylbenzene	--	--	<0.000990	NA	NA
Methyl acetate	--	--	<0.000990	NA	NA
Methyl tert-butyl ether	500	--	<0.000990	NA	NA
Methylene chloride	500	--	0.00180 JBC	<0.0870	<0.150
Naphthalene	500	--	<0.000990	NA	NA
n-Butylbenzene	500	--	<0.000990	NA	NA
n-Propylbenzene	500	--	<0.000990	NA	NA
sec-Butylbenzene	500	--	<0.000990	NA	NA
Styrene	--	--	<0.000990	<0.220	<0.380
tert-Butyl Alcohol	--	--	<0.000990	NA	NA
tert-Butylbenzene	500	--	<0.000990	NA	NA
Tetrachloroethene	150	--	<0.000990	0.0468 J	<0.150
Toluene	500	--	<0.000990	<0.220	<0.380
trans-1,2-Dichloroethene	500	--	<0.000990	<0.0870	<0.150
trans-1,3-Dichloropropene	--	--	<0.000990	<0.0870	<0.150
Trichloroethene	200	--	<0.000990	<0.0870	<0.150
Vinyl Acetate	--	--	<0.000990	NA	NA
Vinyl chloride	13	--	<0.000990	<0.0870	<0.150
Xylene (m,p)	--	--	<0.00200	NA	NA
Xylene (o)	--	--	<0.000990	NA	NA
Xylenes (total)	500	--	NA	<0.0870	<0.150
Total TCL VOCs	--	--	0.0168 J	NA	NA
TCLP VOCs					
1,1-Dichloroethene	--	0.7	<0.0100	NA	NA
1,2-Dichloroethane	--	0.5	<0.0100	NA	NA
1,4-Dichlorobenzene	--	7.5	<0.0100	NA	NA
2-Butanone (MEK)	--	200	<0.0200	NA	NA
Benzene	--	0.5	<0.0100	NA	NA
Carbon tetrachloride	--	0.5	<0.0100	NA	NA
Chlorobenzene	--	100	<0.0100	NA	NA
Chloroform	--	6	<0.0100	NA	NA
Tetrachloroethene	--	0.5	<0.0100	NA	NA
Trichloroethene	--	0.5	<0.0100	NA	NA
Vinyl chloride	--	0.2	<0.0100	NA	NA
SVOCs					
1,1'-Biphenyl	--	--	<0.0250	NA	NA
1,2,4-Trichlorobenzene	--	--	<0.0250	<0.260	<0.390
1,2-Dichlorobenzene	500	--	<0.0250	<0.260	<0.390
1,3-Dichlorobenzene	280	--	<0.0250	<0.260	<0.390
1,4-Dichlorobenzene	130	--	<0.0250	<0.260	<0.390
2,2-oxybis (1-chloropropane)	--	--	<0.0250	<0.260	<0.390
2,3,4,6-Tetrachlorophenol	--	--	<0.0250	NA	NA
2,4,5-Trichlorophenol	--	--	<0.0250	<0.520	<0.780
2,4,6-Trichlorophenol	--	--	<0.0250	<0.520	<0.780
2,4-Dichlorophenol	--	--	<0.0250	<0.520	<0.780
2,4-Dimethylphenol	--	--	<0.0250	<0.520	<0.780
2,4-Dinitrophenol	--	--	<0.0490 C	<1.00	<1.60
2,4-Dinitrotoluene	--	--	<0.0250	<0.520	<0.780
2,6-Dinitrotoluene	--	--	<0.0490	<0.520	<0.780
2-Chloronaphthalene	--	--	<0.0250	<0.260	<0.390
2-Chlorophenol	--	--	<0.0250	<0.260	<0.390
2-Methylnaphthalene	--	--	<0.0250	<0.100	<0.160
2-Nitroaniline	--	--	<0.0250	<0.520	<0.780

TABLE 4
DEBRIS CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Waste Characterization Regulatory Limits	Phase 1 Operable Unit 4 Waste		
			Bayer-WC-Concrete-1 05/31/13	LMH-1 05/29/13	TANK-1A 05/29/13
SVOCs (cont'd)					
2-Nitrophenol	--	--	<0.0490	<0.520	<0.780
3,3-Dichlorobenzidine	--	--	<0.0250	<0.260	<0.390
3-Nitroaniline	--	--	<0.0250	<0.520	<0.780
4,6-Dinitro-2-methylphenol	--	--	<0.0490	<0.520	<0.780
4-Bromophenyl phenyl ether	--	--	<0.0250	<0.260	<0.390
4-Chloro-3-methylphenol	--	--	<0.0250	<0.520	<0.780
4-Chloroaniline	--	--	<0.0250	<0.520	<0.780
4-Chlorophenyl phenyl ether	--	--	<0.0250	<0.260	<0.390
4-Nitroaniline	--	--	<0.0250	<0.520	<0.780
4-Nitrophenol	--	--	<0.0490	<1.00	<1.60
Acenaphthene	500	--	<0.0250	<0.100	<0.160
Acenaphthylene	500	--	<0.0250	<0.100	<0.160
Acetophenone	--	--	<0.0250 C	NA	NA
Aniline	--	--	<0.0250 C	NA	NA
Anthracene	500	--	<0.0250	<0.100	0.504
Atrazine	--	--	<0.0250 C	NA	NA
Azobenzene	--	--	<0.0250	NA	NA
Benzaldehyde	--	--	<0.0490 C	NA	NA
Benzidine	--	--	<0.0490 C	NA	NA
Benzo(a)anthracene	5.6	--	<0.0250	<0.100	<0.160
Benzo(a)pyrene	1	--	<0.0250	<0.100	<0.160
Benzo(b)fluoranthene	5.6	--	<0.0250	<0.100	<0.160
Benzo(ghi)perylene	500	--	<0.0250	<0.100	<0.160
Benzo(k)fluoranthene	56	--	<0.0250	<0.100	<0.160
Benzoic acid	--	--	<0.0490 C	NA	NA
Benzyl alcohol	--	--	<0.0250	NA	NA
Bis(2-chloroethoxy)methane	--	--	<0.0250	<0.260	<0.390
Bis(2-chloroethyl)ether	--	--	<0.0250	<0.260	<0.390
Bis(2-ethylhexyl)phthalate	--	--	<0.0250	0.810	<0.390
Butyl benzyl phthalate	--	--	<0.0250	<0.260	<0.390
Caprolactam	--	--	<0.0250	NA	NA
Carbazole	--	--	<0.0250	<0.100	<0.160
Chrysene	56	--	<0.0250	<0.100	<0.160
Cresol (m,p)	--	--	<0.0250	<0.520	<0.780
Cresol (o)	500	--	<0.0250	<0.520	<0.780
Dibenzo(a,h)anthracene	0.56	--	<0.0250	<0.100	<0.160
Dibenzofuran	350	--	<0.0250	<0.100	<0.160
Diethyl phthalate	--	--	<0.0250	<0.260	<0.390
Dimethyl phthalate	--	--	<0.0250	<0.260	<0.390
Di-n-butyl phthalate	--	--	<0.0250	0.0375 J	<0.390
Di-n-octyl phthalate	--	--	<0.0250	<0.260	<0.390
Fluoranthene	500	--	<0.0250	0.0389 J	<0.160
Fluorene	500	--	<0.0250	<0.100	1.07
Hexachlorobenzene	6	--	<0.0250	<0.260	<0.390
Hexachlorobutadiene	--	--	<0.0250	<0.260	<0.390
Hexachlorocyclopentadiene	--	--	<0.0490	<0.520	<0.780
Hexachloroethane	--	--	<0.0250	<0.260	<0.390
Indeno(1,2,3-cd)pyrene	5.6	--	<0.0250	<0.100	<0.160
Isophorone	--	--	<0.0250	<0.260	<0.390
Naphthalene	500	--	<0.0250	<0.100	<0.160
Nitrobenzene	--	--	<0.0250	<0.260	<0.390
N-Nitrosodimethylamine	--	--	<0.0250	NA	NA
n-Nitroso-di-n-propylamine	--	--	<0.0250	<0.260	<0.390
n-Nitrosodiphenylamine	--	--	<0.0250	<0.260	<0.390
Parathion	--	--	<0.0490	NA	NA
Pentachlorophenol	6.7	--	<0.0490 C	<0.520	<0.780
Phenanthrene	500	--	<0.0250	0.0425 J	1.23
Phenol	500	--	<0.0250	<0.260	<0.390

TABLE 4
DEBRIS CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Waste Characterization Regulatory Limits	Phase 1 Operable Unit 4 Waste		
			Bayer-WC-Concrete-1 05/31/13	LMH-1 05/29/13	TANK-1A 05/29/13
SVOCs (cont'd)					
Pyrene	500	--	<0.0250	<0.100	<0.160
Pyridine	--	--	<0.0250	NA	NA
Total PAHs	--	--	<0.213	0.831 J	3.92
TCLP SVOCs					
1,4-Dichlorobenzene	--	7.5	NA	NA	NA
2,4,5-Trichlorophenol	--	400	<0.00500	NA	NA
2,4,6-Trichlorophenol	--	2	<0.00500	NA	NA
2,4-Dinitrotoluene	--	0.13	<0.00500 C	NA	NA
Cresol (m,p)	--	--	0.100	NA	NA
Cresol (o)	--	200	0.0150 J	NA	NA
Cresols, total	--	--	NA	NA	NA
Hexachlorobenzene	--	0.13	<0.00500	NA	NA
Hexachlorobutadiene	--	0.5	<0.00500	NA	NA
Hexachloroethane	--	3	<0.00500	NA	NA
Nitrobenzene	--	2	<0.00500	NA	NA
Pentachlorophenol	--	100	<0.0100	NA	NA
Pyridine	--	5	<0.00500	NA	NA
Metals					
Aluminum	--	--	2,340	NA	NA
Antimony	--	--	<0.200	NA	NA
Arsenic	16	--	1.06	NA	NA
Barium	400	--	21.0	NA	NA
Beryllium	590	--	<0.100	NA	NA
Cadmium	9.3	--	<0.100	NA	NA
Calcium	--	--	38,500	NA	NA
Chromium	--	--	4.35	NA	NA
Cobalt	--	--	0.160 J	NA	NA
Copper	270	--	3.36	NA	NA
Iron	--	--	2,980	NA	NA
Lead	1,000	--	2.24	NA	NA
Magnesium	--	--	1,250	NA	NA
Manganese	10,000	--	62.3	NA	NA
Mercury	2.8	--	0.00650 J	NA	NA
Nickel	310	--	2.54	NA	NA
Potassium	--	--	632	NA	NA
Selenium	1,500	--	<0.200	NA	NA
Silver	1,500	--	<0.100	NA	NA
Sodium	--	--	132	NA	NA
Thallium	--	--	<0.300	NA	NA
Vanadium	--	--	2.87	NA	NA
Zinc	10,000	--	7.26	NA	NA
TCLP Metals					
Arsenic	--	5	<0.0100	NA	NA
Barium	--	100	1.12 J	NA	NA
Cadmium	--	1	<0.00500	NA	NA
Chromium	--	5	0.143	NA	NA
Lead	--	5	<0.00500	NA	NA
Mercury	--	0.2	<0.000500	NA	NA
Selenium	--	1	<0.0100	NA	NA
Silver	--	5	<0.00500	NA	NA
Miscellaneous					
% Solids	--	--	NA	NA	NA
Cyanide, Total	27	--	NA	<0.130	<0.160
Ignitability	--	--	NA	Non-Ignit.	Non-Ignit.
Cyanide, Reactive	--	--	NA	NA	NA
Sulfide, Reactive	--	--	NA	NA	NA
pH	--	--	NA	7.3	6.4

TABLE 4
DEBRIS CHARACTERIZATION ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Waste Characterization Regulatory Limits	Phase 1 Operable Unit 4 Waste		
			Bayer-WC-Concrete-1 05/31/13	LMH-1 05/29/13	TANK-1A 05/29/13
Hydrocarbons					
TPH-DRO (Semi-VOA)	--	--	NA	225	19,600
TPH-GRO (VOA)	--	--	NA	5.35	19.7
Total EPH	--	--	NA	NA	NA

Notes:

- The samples were collected by Arcadis on the dates indicated from a leachate pit near excavation area 21A (LMH), a 9,000 gallon UST (Tank1A) and concrete near the mound area.
- PCBs = Polychlorinated biphenyls.
- SVOCs = Semi-Volatile Organic Compounds.
- VOCs = Volatile Organic Compounds.
- TCLP = Toxicity Characteristic Leaching Procedure.
- The samples were analyzed by American Analytical Laboratories, LLC located in Farmingdale, NY and for:
 - PCBs using USEPA SW-846 Method 8082.
 - TCLP VOCs using USEPA SW-846 Method 1311 and 8260B.
 - TCLP SVOCs using USEPA SW-846 Method 1311 and 8270C.
 - TCLP metals using USEPA SW-846 Method 1311 and 8260B.
 - Corrosivity (pH) using USEPA SW-846 Method 9045C.
 - Ignitability using USEPA SW-846 Method 1030.
 - VOCs using United States Environmental Protection Agency (USEPA) SW-846 Method 8260.
 - SVOCs using USEPA SW-846 Method 8270.
 - Metals using USEPA SW-846 Methods 6010C and 7473.
- All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg) for non-TCLP parameters and milligrams per liter (mg/L) for TCLP parameters.
- Data qualifiers are defined as follows:
 - J - Indicates that the associated numerical value is an estimated concentration.
 - < - The compound was not detected above the reported detection limit.
 - B - Indicates the analyte was found in the associated analysis batch blank.
 - C - Calibration acceptability criteria exceeded for this analyte.
- 6 NYCRR Part 371 Criteria are the thresholds for a characteristic hazardous waste (or in the case of PCBs - a listed hazardous waste) from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Parts 371.3(b) through (e), and Part 371.4(e)
- = No cleanup level applicable.
- NA = Not Analyzed.

TABLE 5
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR PCBs AND HAZARDOUS WASTE CHARACTERISTICS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	Phase 1 OU4 Waste Soil													
		Bayer-WC-3 04/04/13	Bayer-WC-4 04/08/13	Bayer-WC-5 04/11/13	Bayer-WC-6 04/16/13	Bayer-WC-7 04/23/13	Bayer-WC-8 04/22/13	Bayer-WC-9 04/24/13	Bayer-WC-10 04/26/13	Bayer-WC-11 04/30/13	Bayer-WC-12 05/01/13	Bayer-WC-13 05/01/13	Bayer-WC-14 05/01/13	Bayer-WC-15 05/08/13	Bayer-WC-16 05/08/13
PCBs															
Total PCBs	50 (TSCA)	1.80	1.10	5.20	4.75	1.12	2.20	3.20	3.30	5.40	NA	NA	<0.0110	1.50	1.90
TCLP VOCs															
1,1-Dichloroethene	0.7	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
1,2-Dichloroethane	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
1,4-Dichlorobenzene	7.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
2-Butanone (MEK)	200	<0.0200	<0.0200	<0.0200 C	0.0480 JB	0.0390 JB	0.0390 JB	0.0310 JB	<0.0200	<0.0200	NA	NA	<0.0200	0.0290 JB	0.0240 JB
Benzene	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Carbon tetrachloride	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Chlorobenzene	100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Chloroform	6	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Tetrachloroethene	0.5	<0.0100	<0.0100	0.0160 J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Trichloroethene	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Vinyl chloride	0.2	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
TCLP SVOCs															
1,4-Dichlorobenzene	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	400	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
2,4,6-Trichlorophenol	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
2,4-Dinitrotoluene	0.13	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Cresol (m,p)	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Cresol (o)	200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Cresols, total	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.13	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Hexachlorobutadiene	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Hexachloroethane	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Nitrobenzene	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
Pentachlorophenol	100	<0.0100	<0.0100	<0.0100	<0.0100 C	<0.0100	<0.0100	<0.0100 C	<0.0100	<0.0100	NA	NA	<0.0100	<0.0100	<0.0100
Pyridine	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA	NA	<0.00500	<0.00500	<0.00500
TCLP Organochlorine Pesticides															
Chlordane (technical)	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Organochlorine Herbicides															
2,4,5-TP Acid (Silvex)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals															
Arsenic	5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Barium	100	<1.00	<1.00	1.04 J	<1.00	<1.00	<1.00	<1.00	<1.00	1.16 J	1.08 J	1.18 J	<1.00	1.04 J	1.03 J
Cadmium	1	0.0182 J	0.00847 J	<0.00500	0.0302 J	<0.00500	0.00512 J	0.00621 J	<0.00500	0.00577 J	0.0127 J	0.00530 J	<0.00500	0.00627 J	<0.00500
Chromium	5	<0.00500	<0.00500	0.0247 J	0.0218 J	<0.00500	0.00836 J	<0.00500	0.00548 J	0.0122 J	<0.00500	0.00888 J	<0.00500	<0.00500	<0.00500
Lead	5	0.0545	0.0511	0.0578	0.0222 J	<0.00500	0.0258 J	0.0475 J	0.00596 J	0.0124 J	0.0487 J	0.0195 J	0.0197 J	0.0243 J	0.0129 J
Mercury	0.2	<0.000500	NA	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Selenium	1	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Miscellaneous															
% Solids	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Reactive	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide, Reactive	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH															
pH	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 5
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR PCBs AND HAZARDOUS WASTE CHARACTERISTICS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	Phase 1 OU 4 Waste Soil								Phase 2 OU4 Waste Soil								
		Bayer-WC-17 05/13/13	Bayer-WC-18 05/16/13	Bayer-WC-19 05/22/13	Bayer-WC-20 06/13/13	Bayer-WC-21 06/13/13	Bayer-WC-22 06/13/13	Bayer-WC- Mound 1 03/20/13	Bayer-WC- Mound 2 03/20/13	Rolloff-1 12/23/14	S-1-1 (a-e) 09/09/14	S-2-1 (a-e) 09/09/14	S-3-1 (a-e) 09/09/14	S-4-1 (a-e) 09/09/14	S-5-1 (a-e) 09/09/14	S-6-1 (a-e) 09/09/14	S-12-1 (a-e) 09/09/14	S-13-1 (a-e) 09/09/14
PCBs																		
Total PCBs	50 (TSCA)	4.80	0.0500	0.780	3.40	0.0260	5.70	0.580	0.590	0.756	2.81	4.69	6.96	0.601	7.30	0.831	1.05	1.24
TCLP VOCs																		
1,1-Dichloroethene	0.7	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0130	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
1,2-Dichloroethane	0.5	<0.0100	<0.0100	<0.0100	<0.0100 C	<0.0100	<0.0100	<0.0100	<0.0100	<0.00650	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
1,4-Dichlorobenzene	7.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00680	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
2-Butanone (MEK)	200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0520 JB	0.0510 JB	<0.0260	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Benzene	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00480	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Carbon tetrachloride	0.5	<0.0100	<0.0100	<0.0100	<0.0100 C	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Chlorobenzene	100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00350	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Chloroform	6	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00360	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Tetrachloroethene	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00520	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Trichloroethene	0.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00570	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Vinyl chloride	0.2	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00970	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
TCLP SVOCs																		
1,4-Dichlorobenzene	7.5	NA	NA	NA	NA	NA	NA	NA	NA	<0.00645	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
2,4,5-Trichlorophenol	400	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00722	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
2,4,6-Trichlorophenol	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00654	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
2,4-Dinitrotoluene	0.13	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00473	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cresol (m,p)	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00743	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Cresol (o)	200	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00171	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cresols, total	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.00740	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300
Hexachlorobenzene	0.13	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00591	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Hexachlorobutadiene	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00662	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Hexachloroethane	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00726	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Nitrobenzene	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00393	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Pentachlorophenol	100	<0.0100 C	<0.0100 C	<0.0100	<0.0100 C	<0.0100 C	<0.0100 C	<0.0100	<0.0100	<0.00753	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Pyridine	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00637	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
TCLP Organochlorine Pesticides																		
Chlordane (technical)	0.03	NA	NA	NA	NA	NA	NA	NA	NA	<0.0000533	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	0.02	NA	NA	NA	NA	NA	NA	NA	NA	<0.0000133	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.4	NA	NA	NA	NA	NA	NA	NA	NA	<0.0000133	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.008	NA	NA	NA	NA	NA	NA	NA	NA	<0.0000133	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.0000133	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	10	NA	NA	NA	NA	NA	NA	NA	NA	<0.0000667	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	<0.000667	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Organochlorine Herbicides																		
2,4,5-TP Acid (Silvex)	1	NA	NA	NA	NA	NA	NA	NA	NA	<0.00500	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	10	NA	NA	NA	NA	NA	NA	NA	NA	<0.00500	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals																		
Arsenic	5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.00400	<0.00400	<0.00400	<0.00400	<0.00400	<0.00400	<0.00400	<0.00400	<0.00400
Barium	100	1.03 J	1.87 J	2.02 J	1.13 J	<1.00	1.22 J	1.20 J	<1.00	0.282	0.298	0.550	0.451	0.995	0.324	0.350	0.247	0.271
Cadmium	1	<0.00500	0.00626 J	<0.00500	0.0220 J	<0.00500	0.0450 J	<0.00500	0.0142 J	<0.00300	<0.00300	0.0260	0.00400	0.00600	0.00400	<0.00300	0.0100	0.00400
Chromium	5	<0.00500	0.00573 J	<0.00500	0.00847 J	0.0192 J	0.00699 J	0.00535 J	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00900	<0.00500
Lead	5	0.00891 J	0.0512	0.00662 J	0.0911	0.0396 J	0.134	0.0452 J	0.00882 J	0.0150	0.0320	0.0600	0.00800	0.0210	0.00700	0.00300	0.00700	0.0100
Mercury	0.2	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Selenium	1	<0.0100	<0.0100	0.0137 J	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Silver	5	<0.00500	<0.00500	<0.00500	0.0405 J	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Miscellaneous																		
% Solids	--	NA	NA	NA	NA	NA	NA	NA	NA	94.3	96.2	96.7	95.2	99.0	97.7	93.9	97.7	93.7
Ignitability	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	Non-Ignit.	Non-Ignit.	Non-Ignit.	Non-Ignit.	Non-Ignit.	Non-Ignit.	Non-Ignit.	Non-Ignit.
Cyanide, Reactive	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Sulfide, Reactive	--	NA	NA	NA	NA	NA	NA	NA	NA	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
pH																		
pH	--	NA	NA	NA	NA	NA	NA	NA	NA	8.32	9.48 HT-pH	10.4 HT-pH	8.56 HT-pH	8.69 HT-pH	9.73 HT-pH	8.99 HT-pH	8.87 HT-pH	8.49 HT-pH

TABLE 5
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR PCBs AND HAZARDOUS WASTE CHARACTERISTICS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	Phase 2 OU4 Waste Soil																	
		S-14-1 (a-e) 09/09/14	SP-1-1 (a-e) 09/10/14	SP-1-1 (a-e) 10/03/14	SP-2-1 (a-e) 09/10/14	SP-2-1 (a-e) 10/03/14	SP-3-1 (a-e) 09/10/14	SP-3-1 (a-e) 10/03/14	SP-4-1 (a-e) 09/10/14	SP-4-1 (a-e) 10/03/14	SP-5-1 (a-e) 09/10/14	SP-5-1 (a-e) 10/03/14	SS-1-1 (a-e) 10/03/14	SS-2-1 (a-e) 10/03/14	SS-3-1 (a-e) 10/03/14	SS-4-1 (a-e) 10/03/14	SS-5-1 (a-e) 10/03/14	SS-6-1 (a-e) 10/03/14	SS-7-1 (a-e) 09/10/14
PCBs																			
Total PCBs	50 (TSCA)	1.61	0.480	NA	2.24	NA	4.04	NA	0.455	NA	1.69	NA	NA	NA	NA	NA	NA	NA	4.51
TCLP VOCs																			
1,1-Dichloroethene	0.7	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
1,2-Dichloroethane	0.5	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
1,4-Dichlorobenzene	7.5	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
2-Butanone (MEK)	200	<0.100	<0.100	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.100	NA	NA	NA	NA	NA	NA	NA	<0.100
Benzene	0.5	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
Carbon tetrachloride	0.5	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
Chlorobenzene	100	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
Chloroform	6	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
Tetrachloroethene	0.5	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
Trichloroethene	0.5	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
Vinyl chloride	0.2	<0.0500	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	NA	NA	NA	<0.0500
TCLP SVOCs																			
1,4-Dichlorobenzene	7.5	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
2,4,5-Trichlorophenol	400	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
2,4,6-Trichlorophenol	2	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
2,4-Dinitrotoluene	0.13	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Cresol (m,p)	--	<0.0200	<0.0200	NA	<0.0200	NA	<0.0200	NA	<0.0200	NA	<0.0200	NA	NA	NA	NA	NA	NA	NA	<0.0200
Cresol (o)	200	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Cresols, total	--	<0.0300	<0.0300	NA	<0.0300	NA	<0.0300	NA	<0.0300	NA	<0.0300	NA	NA	NA	NA	NA	NA	NA	<0.0300
Hexachlorobenzene	0.13	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Hexachlorobutadiene	0.5	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Hexachloroethane	3	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Nitrobenzene	2	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Pentachlorophenol	100	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Pyridine	5	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
TCLP Organochlorine Pesticides																			
Chlordane (technical)	0.03	NA	NA	<0.0000500	NA	<0.0000500	NA	<0.0000500	NA	<0.0000500	NA	<0.0000444	<0.0000485	<0.0000500	<0.0000516	<0.0000500	<0.0000533	<0.0000500	NA
Endrin	0.02	NA	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000111	<0.0000121	<0.0000125	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA
gamma-BHC (Lindane)	0.4	NA	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000111	<0.0000121	<0.0000125	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA
Heptachlor	0.008	NA	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000111	<0.0000121	<0.0000125	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA
Heptachlor epoxide	--	NA	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000125	NA	<0.0000111	<0.0000121	<0.0000125	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA
Methoxychlor	10	NA	NA	<0.0000625	NA	<0.0000625	NA	<0.0000625	NA	<0.0000625	NA	<0.0000556	<0.0000606	<0.0000625	<0.0000645	<0.0000625	<0.0000667	<0.0000625	NA
Toxaphene	0.5	NA	NA	<0.000625	NA	<0.000625	NA	<0.000625	NA	<0.000625	NA	<0.000556	<0.000606	<0.000625	<0.000645	<0.000625	<0.000667	<0.000625	NA
TCLP Organochlorine Herbicides																			
2,4,5-TP Acid (Silvex)	1	NA	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA
2,4-D	10	NA	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	NA
TCLP Metals																			
Arsenic	5	<0.00400	<0.00400	NA	<0.00400	NA	<0.00400	NA	<0.00400	NA	<0.00400	NA	NA	NA	NA	NA	NA	NA	<0.00400
Barium	100	1.46	0.171	NA	0.416	NA	0.560	NA	0.246	NA	0.847	NA	NA	NA	NA	NA	NA	NA	0.386
Cadmium	1	0.00400	0.00400	NA	<0.00300	NA	0.0280	NA	0.0130	NA	0.0170	NA	NA	NA	NA	NA	NA	NA	0.0550
Chromium	5	<0.00500	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	0.00800	NA	NA	NA	NA	NA	NA	NA	<0.00500
Lead	5	0.0320	0.00400	NA	0.00600	NA	0.0130	NA	0.0740	NA	0.0310	NA	NA	NA	NA	NA	NA	NA	0.0130
Mercury	0.2	<0.000200	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA	NA	NA	NA	NA	NA	NA	<0.000200
Selenium	1	<0.0100	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	NA	NA	NA	<0.0100
Silver	5	<0.00500	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	NA	NA	NA	NA	NA	NA	<0.00500
Miscellaneous																			
% Solids	--	97.9	99.1	NA	97.8	NA	96.3	NA	98.7	NA	98.6	NA	NA	NA	NA	NA	NA	NA	97.3
Ignitability	--	Non-Ignit.	Non-Ignit.	NA	Non-Ignit.	NA	Non-Ignit.	NA	Non-Ignit.	NA	Non-Ignit.	NA	NA	NA	NA	NA	NA	NA	Non-Ignit.
Cyanide, Reactive	--	<0.250	<0.250	NA	<0.250	NA	<0.250	NA	<0.250	NA	<0.250	NA	NA	NA	NA	NA	NA	NA	<0.250
Sulfide, Reactive	--	<15.0	64.0	NA	96.0	NA	64.0	NA	56.0	NA	56.0	NA	NA	NA	NA	NA	NA	NA	32.0
pH																			
pH	--	8.56 HT-pH	9.65 HT-pH	NA	9.28 HT-pH	NA	9.62 HT-pH	NA	9.56 HT-pH	NA	9.29 HT-pH	NA	NA	NA	NA	NA	NA	NA	7.69 HT-pH

TABLE 5
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR PCBs AND HAZARDOUS WASTE CHARACTERISTICS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	Phase 2 OU4 Waste Soil																
		SS-7-1 (a-e) 10/03/14	SS-8-1 (a-e) 09/10/14	SS-8-1 (a-e) 10/03/14	SS-9-1 (a-e) 09/10/14	SS-9-1 (a-e) 10/03/14	SS-12-1 (a-e) 10/03/14	SS-13-1 (a-e) 10/03/14	SS-14-1 (a-e) 10/03/14	SS-15-1 (a-e) 09/10/14	SS-15-1 (a-e) 10/03/14	SS-16-1 (a-e) 09/10/14	SS-16-1 (a-e) 10/03/14	SS-17-1 (a-e) 09/10/14	SS-17-1 (a-e) 10/03/14	SS-18-1 (a-e) 09/10/14	SS-18-1 (a-e) 10/03/14	SS-19-1 (a-e) 09/10/14
PCBs																		
Total PCBs	50 (TSCA)	NA	1.39	NA	0.894	NA	NA	NA	NA	<0.0183	NA	0.0983	NA	0.0332	NA	<0.0174	NA	<0.0186
TCLP VOCs																		
1,1-Dichloroethene	0.7	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
1,2-Dichloroethane	0.5	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
1,4-Dichlorobenzene	7.5	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
2-Butanone (MEK)	200	NA	<0.100	NA	<0.100	NA	NA	NA	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.100	NA	<0.100
Benzene	0.5	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
Carbon tetrachloride	0.5	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
Chlorobenzene	100	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
Chloroform	6	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
Tetrachloroethene	0.5	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
Trichloroethene	0.5	NA	0.0130 J	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
Vinyl chloride	0.2	NA	<0.0500	NA	<0.0500	NA	NA	NA	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500	NA	<0.0500
TCLP SVOCs																		
1,4-Dichlorobenzene	7.5	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
2,4,5-Trichlorophenol	400	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
2,4,6-Trichlorophenol	2	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
2,4-Dinitrotoluene	0.13	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Cresol (m,p)	--	NA	<0.0200	NA	<0.0200	NA	NA	NA	NA	<0.0200	NA	<0.0200	NA	<0.0200	NA	<0.0200	NA	<0.0200
Cresol (o)	200	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Cresols, total	--	NA	<0.0300	NA	<0.0300	NA	NA	NA	NA	<0.0300	NA	<0.0300	NA	<0.0300	NA	<0.0300	NA	<0.0300
Hexachlorobenzene	0.13	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Hexachlorobutadiene	0.5	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Hexachloroethane	3	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Nitrobenzene	2	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Pentachlorophenol	100	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Pyridine	5	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
TCLP Organochlorine Pesticides																		
Chlordane (technical)	0.03	<0.0000516	NA	<0.0000516	NA	<0.0000516	<0.0000500	<0.0000533	<0.0000500	NA	<0.0000471	NA	<0.0000516	NA	<0.0000500	NA	<0.0000500	NA
Endrin	0.02	<0.0000129	NA	<0.0000129	NA	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA	<0.0000118	NA	<0.0000129	NA	<0.0000125	NA	<0.0000125	NA
gamma-BHC (Lindane)	0.4	<0.0000129	NA	<0.0000129	NA	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA	<0.0000118	NA	<0.0000129	NA	<0.0000125	NA	<0.0000125	NA
Heptachlor	0.008	<0.0000129	NA	<0.0000129	NA	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA	<0.0000118	NA	<0.0000129	NA	<0.0000125	NA	<0.0000125	NA
Heptachlor epoxide	--	<0.0000129	NA	<0.0000129	NA	<0.0000129	<0.0000125	<0.0000133	<0.0000125	NA	<0.0000118	NA	<0.0000129	NA	<0.0000125	NA	<0.0000125	NA
Methoxychlor	10	<0.0000645	NA	<0.0000645	NA	<0.0000645	<0.0000625	<0.0000667	<0.0000625	NA	<0.0000588	NA	<0.0000645	NA	<0.0000625	NA	<0.0000625	NA
Toxaphene	0.5	<0.000645	NA	<0.000645	NA	<0.000645	<0.000625	<0.000667	<0.000625	NA	<0.000588	NA	<0.000645	NA	<0.000625	NA	<0.000625	NA
TCLP Organochlorine Herbicides																		
2,4,5-TP Acid (Silvex)	1	<0.00500	NA	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA
2,4-D	10	<0.00500	NA	<0.00500	NA	<0.00500	<0.00500	<0.00500	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA
TCLP Metals																		
Arsenic	5	NA	<0.00400	NA	<0.00400	NA	NA	NA	NA	<0.00400	NA	<0.00400	NA	<0.00400	NA	<0.00400	NA	<0.00400
Barium	100	NA	0.183	NA	0.372	NA	NA	NA	NA	0.227	NA	0.229	NA	0.199	NA	0.188	NA	0.208
Cadmium	1	NA	0.0110	NA	0.00400	NA	NA	NA	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300
Chromium	5	NA	<0.00500	NA	<0.00500	NA	NA	NA	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500
Lead	5	NA	0.0150	NA	0.0160	NA	NA	NA	NA	0.0190	NA	0.00400	NA	0.0270	NA	0.0200	NA	0.0170
Mercury	0.2	NA	<0.000200	NA	<0.000200	NA	NA	NA	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200
Selenium	1	NA	<0.0100	NA	<0.0100	NA	NA	NA	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100	NA	<0.0100
Silver	5	NA	<0.00500	NA	<0.00500	NA	NA	NA	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500	NA	<0.00500
Miscellaneous																		
% Solids	--	NA	96.4	NA	93.4	NA	NA	NA	NA	91.0	NA	94.7	NA	93.2	NA	95.6	NA	89.7
Ignitability	--	NA	Non-Ignit.	NA	Non-Ignit.	NA	NA	NA	NA	Non-Ignit.	NA	Non-Ignit.	NA	Non-Ignit.	NA	Non-Ignit.	NA	Non-Ignit.
Cyanide, Reactive	--	NA	<0.250	NA	<0.250	NA	NA	NA	NA	<0.250	NA	<0.250	NA	<0.250	NA	<0.250	NA	<0.250
Sulfide, Reactive	--	NA	40.0	NA	32.0	NA	NA	NA	NA	32.0	NA	24.0	NA	40.0	NA	48.0	NA	56.0
pH																		
pH	--	NA	7.62 HT-pH	NA	7.78 HT-pH	NA	NA	NA	NA	7.66 HT-pH	NA	9.26 HT-pH	NA	8.44 HT-pH	NA	7.88 HT-pH	NA	7.63 HT-pH

TABLE 5
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR PCBs AND HAZARDOUS WASTE CHARACTERISTICS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Waste Characterization Regulatory Limits	Phase 2 OU4 Waste Soil			
		SS-19-1 (a-e) 10/03/14	SS-20-1 (a-e) 09/10/14	SS-20-1 (a-e) 10/03/14	WC-1 1A-1E 12/17/14
PCBs					
Total PCBs	50 (TSCA)	NA	0.0216	NA	0.137
TCLP VOCs					
1,1-Dichloroethene	0.7	NA	<0.0500	NA	<0.0500
1,2-Dichloroethane	0.5	NA	<0.0500	NA	<0.0500
1,4-Dichlorobenzene	7.5	NA	<0.0500	NA	<0.0500
2-Butanone (MEK)	200	NA	<0.100	NA	<0.100
Benzene	0.5	NA	<0.0500	NA	<0.0500
Carbon tetrachloride	0.5	NA	<0.0500	NA	<0.0500
Chlorobenzene	100	NA	<0.0500	NA	<0.0500
Chloroform	6	NA	<0.0500	NA	<0.0500
Tetrachloroethene	0.5	NA	<0.0500	NA	<0.0500
Trichloroethene	0.5	NA	<0.0500	NA	<0.0500
Vinyl chloride	0.2	NA	<0.0500	NA	<0.0500
TCLP SVOCs					
1,4-Dichlorobenzene	7.5	NA	<0.0100	NA	<0.0100
2,4,5-Trichlorophenol	400	NA	<0.0100	NA	<0.0100
2,4,6-Trichlorophenol	2	NA	<0.0100	NA	<0.0100
2,4-Dinitrotoluene	0.13	NA	<0.0100	NA	<0.0100
Cresol (m,p)	--	NA	<0.0200	NA	<0.0200
Cresol (o)	200	NA	<0.0100	NA	<0.0100
Cresols, total	--	NA	<0.0300	NA	<0.0300
Hexachlorobenzene	0.13	NA	<0.0100	NA	<0.0100
Hexachlorobutadiene	0.5	NA	<0.0100	NA	<0.0100
Hexachloroethane	3	NA	<0.0100	NA	<0.0100
Nitrobenzene	2	NA	<0.0100	NA	<0.0100
Pentachlorophenol	100	NA	<0.0100	NA	<0.0100
Pyridine	5	NA	<0.0100	NA	<0.0100
TCLP Organochlorine Pesticides					
Chlordane (technical)	0.03	<0.0000516	NA	<0.0000500	<0.0000485
Endrin	0.02	<0.0000129	NA	<0.0000125	<0.0000121
gamma-BHC (Lindane)	0.4	<0.0000129	NA	<0.0000125	<0.0000121
Heptachlor	0.008	<0.0000129	NA	<0.0000125	<0.0000121
Heptachlor epoxide	--	<0.0000129	NA	<0.0000125	<0.0000121
Methoxychlor	10	<0.0000645	NA	<0.0000625	<0.0000606
Toxaphene	0.5	<0.000645	NA	<0.000625	<0.000606
TCLP Organochlorine Herbicides					
2,4,5-TP Acid (Silvex)	1	<0.00500	NA	<0.00500	<0.00500
2,4-D	10	<0.00500	NA	<0.00500	<0.00500
TCLP Metals					
Arsenic	5	NA	<0.00400	NA	<0.00400
Barium	100	NA	0.244	NA	0.288
Cadmium	1	NA	0.00300	NA	0.0180
Chromium	5	NA	<0.00500	NA	<0.00500
Lead	5	NA	0.0180	NA	0.0140
Mercury	0.2	NA	<0.000200	NA	<0.000200
Selenium	1	NA	<0.0100	NA	<0.0100
Silver	5	NA	<0.00500	NA	<0.00500
Miscellaneous					
% Solids	--	NA	95.0	NA	88.2
Ignitability	--	NA	Non-Ignit.	NA	Non-Ignit.
Cyanide, Reactive	--	NA	<0.250	NA	<0.250
Sulfide, Reactive	--	NA	32.0	NA	<15.0
pH					
pH	--	NA	7.53 HT-pH	NA	7.81 HT-pH

TABLE 5
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR PCBs AND HAZARDOUS WASTE CHARACTERISTICS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Notes:

1. The 2013 samples were collected by Arcadis and the 2014 samples were collected by Posillico Environmental, Inc. on the dates indicated.
2. PCBs = Polychlorinated biphenyls.
3. SVOCs = Semi-Volatile Organic Compounds.
4. VOCs = Volatile Organic Compounds.
5. TCLP = Toxicity Characteristic Leaching Procedure.
6. The 2013 samples were analyzed by American Analytical Laboratories, LLC located in Farmingdale, NY and the 2014 samples were analyzed by York Analytical Laboratories, Inc. located in Stratford, Connecticut for:
 - PCBs using USEPA SW-846 Method 8082.
 - TCLP VOCs using USEPA SW-846 Method 1311 and 8260B.
 - TCLP SVOCs using USEPA SW-846 Method 1311 and 8270C.
 - TCLP metals using USEPA SW-846 Method 1311 and 8260B.
 - Corrosivity (pH) using USEPA SW-846 Method 9045C.
 - Ignitability using USEPA SW-846 Method 1030.
7. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg) for non-TCLP parameters and milligrams per liter (mg/L) for TCLP parameters.
8. Data qualifiers are defined as follows:
 - J - Indicates that the associated numerical value is an estimated concentration.
 - < - The compound was not detected above the reported detection limit.
 - B - Indicates the analyte was found in the associated analysis batch blank.
 - C - Calibration acceptability criteria exceeded for this analyte.
 - HT-pH - Sample exceeded holding time.
 - HT-01R - Sample exceeded holding time.
9. 6 NYCRR Part 371 Criteria are the thresholds for a characteristic hazardous waste (or in the case of PCBs - a listed hazardous waste) from Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) Parts 371.3(b) through (e), and Part 371.4(e).
10. - - = No cleanup level applicable.
11. NA = Not Analyzed.

TABLE 6
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR SUPPLEMENTAL PARAMETERS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Rolloff-1 12/23/14	S-1-1 (a-e) 09/09/14	S-2-1 (a-e) 09/09/14	S-3-1 (a-e) 09/09/14	S-4-1 (a-e) 09/09/14	S-5-1 (a-e) 09/09/14	S-6-1 (a-e) 09/09/14	S-12-1 (a-e) 09/09/14	S-13-1 (a-e) 09/09/14	S-14-1 (a-e) 09/09/14	SP-1-1 (a-e) 09/10/14	SP-2-1 (a-e) 09/10/14	SP-3-1 (a-e) 09/10/14	SP-4-1 (a-e) 09/10/14
Organochlorine Pesticides															
4,4'-DDD	92	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
4,4'-DDE	62	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
4,4'-DDT	47	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Aldrin	0.68	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
alpha-BHC	3.4	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
beta-BHC	3	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Chlordane	24	NA	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Chlordane (technical)	--	<0.00700	<0.00686	<0.00683	<0.00693	<0.00667	<0.00675	<0.00703	<0.00676	<0.00705	<0.00674	<0.00666	<0.00675	<0.00685	<0.00669
delta-BHC	500	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Dieldrin	1.4	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Endosulfan I	200	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Endosulfan II	200	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Endosulfan Sulfate	200	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Endrin	89	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Endrin aldehyde	--	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Endrin ketone	--	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
gamma-BHC (Lindane)	9.2	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
gamma-Chlordane	--	NA	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Heptachlor	15	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Heptachlor epoxide	--	<0.00175	<0.00171	<0.00171	<0.00173	<0.00167	<0.00169	<0.00176	<0.00169	<0.00176	<0.00168	<0.00166	<0.00169	<0.00171	<0.00167
Methoxychlor	--	<0.00875	<0.00857	<0.00853	<0.00866	<0.00834	<0.00844	<0.00879	<0.00844	<0.00881	<0.00842	<0.00832	<0.00844	<0.00856	<0.00836
Toxaphene	--	<0.0886	<0.0868	<0.0864	<0.0877	<0.0844	<0.0854	<0.0889	<0.0855	<0.0891	<0.0853	<0.0842	<0.0854	<0.0867	<0.0846
Organochlorine Herbicides															
2,4,5-T	--	<0.0212	<0.0208	<0.0207	<0.0210	<0.0202	<0.0205	<0.0213	<0.0205	<0.0213	<0.0204	<0.0202	<0.0204	<0.0208	<0.0203
2,4,5-TP Acid (Silvex)	500	<0.0212	<0.0208	<0.0207	<0.0210	<0.0202	<0.0205	<0.0213	<0.0205	<0.0213	<0.0204	<0.0202	<0.0204	<0.0208	<0.0203
2,4-D	--	<0.0212	<0.0208	<0.0207	<0.0210	<0.0202	<0.0205	<0.0213	<0.0205	<0.0213	<0.0204	<0.0202	<0.0204	<0.0208	<0.0203
Metals															
Aluminum	--	2,740	1,980	3,480	1,960	3,840	7,100	7,080	5,990	8,730	5,210	5,290	5,810	5,820	1,370
Antimony	--	<0.530	<0.520	2.55	0.963	2.23	1.12	1.09	3.76	3.10	1.07	<0.504	0.704	3.33	10.9
Arsenic	16	1.47	7.93	2.18	2.04	4.97	7.41	9.51	4.17	6.15	4.30	4.45	7.55	5.07	1.10
Barium	400	12.8	10.3	43.4	23.3	102	34.1	40.3	23.2	28.8	41.9	22.8	55.8	79.2	9.45
Beryllium	590	<0.106	<0.104	<0.103	<0.105	<0.101	<0.102	<0.107	<0.102	<0.107	<0.102	<0.101	<0.102	<0.104	<0.101
Cadmium	9.3	<0.318	<0.312	0.388	<0.315	0.478	<0.307	<0.320	0.761	<0.320	0.322	<0.303	<0.307	1.97	0.657
Calcium	--	459	385	5,430	210	633	5,810	22,800	4,200	3,800	2,820	32,300	10,900	8,520	903
Chromium	--	4.01	4.91	9.91	11.0	13.6	22.0	9.30	71.0	12.7	15.6	15.9	12.6	9.70	3.81
Cobalt	--	1.98	3.51	1.90	1.37	1.79	3.64	2.94	5.07	4.39	2.99	3.57	3.49	3.19	0.841
Copper	270	4.70	4.99	13.8	8.18	14.6	20.2	18.2	13.1	17.0	23.6	12.9	17.1	16.9	4.26
Iron	--	2,980	8,020	5,440	7,120	6,080	12,300	10,400	9,750	12,100	9,260	11,600	10,200	8,550	2,640
Lead	1,000	2.24	2.73	16.5	5.28	28.3	22.4	23.3	18.5	24.9	49.8	27.0	21.1	30.2	13.0
Magnesium	--	1,250	435	696	414	492	1,370	13,200	2,850	2,400	1,630	15,200	3,080	1,710	382
Manganese	10,000	62.3	50.5	43.7	40.7	59.5	118	176	150	148	85.8	128	105	78.8	42.7
Mercury	2.8	0.00650 J	<0.0312	0.0396	<0.0315	0.0633	0.0755	0.0998	0.0542	0.0835	0.120	0.0464	0.0864	0.124	<0.0304
Nickel	310	2.54	11.5	6.18	6.53	6.94	11.7	8.56	11.7	13.5	10.0	10.5	10.7	10.9	2.70

TABLE 6
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR SUPPLEMENTAL PARAMETERS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	Rolloff-1 12/23/14	S-1-1 (a-e) 09/09/14	S-2-1 (a-e) 09/09/14	S-3-1 (a-e) 09/09/14	S-4-1 (a-e) 09/09/14	S-5-1 (a-e) 09/09/14	S-6-1 (a-e) 09/09/14	S-12-1 (a-e) 09/09/14	S-13-1 (a-e) 09/09/14	S-14-1 (a-e) 09/09/14	SP-1-1 (a-e) 09/10/14	SP-2-1 (a-e) 09/10/14	SP-3-1 (a-e) 09/10/14	SP-4-1 (a-e) 09/10/14
Metals Continued															
Potassium	--	632	223	244	195	178	361	431	311	384	306	398	334	440	108
Selenium	1,500	<0.200	<1.04	<1.03	<1.05	<1.01	<1.02	<1.07	<1.02	<1.07	<1.02	<1.01	<1.02	<1.04	<1.01
Silver	1,500	<0.100	<0.520	<0.517	<0.525	<0.505	<0.512	<0.533	<0.512	<0.534	<0.511	<0.504	<0.511	<0.519	<0.507
Sodium	--	132	27.5	30.5	26.6	23.1	47.4	110	49.3	61.6	78.2	128	76.9	64.5	34.4
Thallium	--	<0.300	<1.04	<1.03	<1.05	<1.01	<1.02	<1.07	<1.02	<1.07	<1.02	<1.01	<1.02	<1.04	<1.01
Vanadium	--	2.87	5.99	8.99	9.01	16.2	21.3	21.9	17.5	20.8	17.5	17.6	16.1	19.7	5.65
Zinc	10,000	7.26	13.3	79.2	55.8	157	55.6	53.5	41.1	54.1	112	56.8	82.4	199	17.9
Miscellaneous															
Cyanide, Total	27	<0.530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrocarbons															
TPH-DRO (Semi-VOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO (VOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total EPH	--	2,250	1,030	88.7	<52.5	<505 HT-01F	73.2	<533	<51.2	76.1	<51.1	<504	<511	<519	<50.7

TABLE 6
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR SUPPLEMENTAL PARAMETERS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	SP-5-1 (a-e) 09/10/14	SS-7-1 (a-e) 09/10/14	SS-8-1 (a-e) 09/10/14	SS-9-1 (a-e) 09/10/14	SS-15-1 (a-e) 09/10/14	SS-16-1 (a-e) 09/10/14	SS-17-1 (a-e) 09/10/14	SS-18-1 (a-e) 09/10/14	SS-19-1 (a-e) 09/10/14	SS-20-1 (a-e) 09/10/14	WC-1 1A-1E 12/17/14
Organochlorine Pesticides												
4,4'-DDD	92	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
4,4'-DDE	62	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
4,4'-DDT	47	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Aldrin	0.68	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
alpha-BHC	3.4	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
beta-BHC	3	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Chlordane	24	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Chlordane (technical)	--	<0.00670	<0.00679	<0.00685	<0.00707	<0.00725	<0.00697	<0.00708	<0.00691	<0.00736	<0.00695	NA
delta-BHC	500	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Dieldrin	1.4	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Endosulfan I	200	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Endosulfan II	200	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Endosulfan Sulfate	200	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Endrin	89	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Endrin aldehyde	--	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	NA
Endrin ketone	--	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	NA
gamma-BHC (Lindane)	9.2	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
gamma-Chlordane	--	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	NA
Heptachlor	15	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	<0.00165
Heptachlor epoxide	--	<0.00167	<0.00170	<0.00171	<0.00177	<0.00181	<0.00174	<0.00177	<0.00173	<0.00184	<0.00174	NA
Methoxychlor	--	<0.00837	<0.00848	<0.00856	<0.00883	<0.00907	<0.00871	<0.00885	<0.00863	<0.00920	<0.00868	NA
Toxaphene	--	<0.0847	<0.0859	<0.0866	<0.0894	<0.0918	<0.0882	<0.0896	<0.0874	<0.0931	<0.0879	NA
Organochlorine Herbicides												
2,4,5-T	--	<0.0203	<0.0206	<0.0207	<0.0214	<0.0220	<0.0211	<0.0215	<0.0209	<0.0223	<0.0211	NA
2,4,5-TP Acid (Silvex)	500	<0.0203	<0.0206	<0.0207	<0.0214	<0.0220	<0.0211	<0.0215	<0.0209	<0.0223	<0.0211	<0.0227
2,4-D	--	<0.0203	<0.0206	<0.0207	<0.0214	<0.0220	<0.0211	<0.0215	<0.0209	<0.0223	<0.0211	NA
Metals												
Aluminum	--	3,720	8,650	3,540	10,300	9,800	9,710	9,450	7,720	8,470	8,690	8,820
Antimony	--	4.77	1.47	0.874	0.675	<0.550	<0.528	<0.537	<0.523	<0.558	<0.526	<0.567
Arsenic	16	2.45	10.1	9.57	13.6	19.2	7.96	23.3	17.7	16.3	14.0	7.54
Barium	400	86.1	46.8	16.2	36.4	28.4	30.6	26.6	24.7	23.9	31.7	28.1
Beryllium	590	<0.101	<0.103	<0.104	<0.107	<0.110	0.379	<0.107	<0.105	<0.112	<0.105	<0.113
Cadmium	9.3	0.769	7.33	1.01	<0.321	<0.330	<0.317	<0.322	<0.314	<0.335	<0.316	1.04
Calcium	--	2,790	2,580	208	7,950	649	20,700	666	431	2,050	1,170	3,030
Chromium	--	19.3	21.0	41.0	11.8	12.4	16.3	12.7	9.30	9.80	10.2	15.9
Cobalt	--	2.43	3.78	1.82	3.69	4.36	7.49	3.05	3.01	3.07	3.23	4.64
Copper	270	16.4	17.4	13.8	45.4	25.7	56.4	26.6	23.3	22.2	23.9	14.4
Iron	--	11,800	12,900	6,720	13,100	12,400	14,900	12,000	10,700	12,200	11,000	11,400
Lead	1,000	26.5	27.3	16.9	27.6	36.1	46.6	33.2	30.7	26.3	30.9	14.8
Magnesium	--	1,160	1,420	480	3,850	1,250	9,040	1,040	800	1,660	1,290	1,230
Manganese	10,000	83.7	100	67.6	145	149	169	139	170	136	138	122
Mercury	2.8	0.0452	0.0898	0.0777	0.111	0.171	0.0713	0.125	0.101	0.121	0.0959	0.0526
Nickel	310	9.58	11.9	6.56	10.7	10.5	30.4	9.56	8.03	9.16	10.2	10.3

TABLE 6
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR SUPPLEMENTAL PARAMETERS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Date Collected:	Commercial SCOs	SP-5-1 (a-e) 09/10/14	SS-7-1 (a-e) 09/10/14	SS-8-1 (a-e) 09/10/14	SS-9-1 (a-e) 09/10/14	SS-15-1 (a-e) 09/10/14	SS-16-1 (a-e) 09/10/14	SS-17-1 (a-e) 09/10/14	SS-18-1 (a-e) 09/10/14	SS-19-1 (a-e) 09/10/14	SS-20-1 (a-e) 09/10/14	WC-1 1A-1E 12/17/14
Metals Continued												
Potassium	--	276	343	204	343	313	455	311	293	296	357	431
Selenium	1,500	<1.01	1.30	<1.04	1.50	<1.10	<1.06	<1.07	1.69	<1.12	1.12	3.27
Silver	1,500	<0.507	<0.514	<0.519	<0.535	<0.550	<0.528	<0.537	<0.523	<0.558	<0.526	<0.567
Sodium	--	38.0	89.4	73.5	114	70.2	144	57.1	48.4	49.5	58.6	<11.3
Thallium	--	<1.01	<1.03	<1.04	<1.07	<1.10	<1.06	<1.07	<1.05	<1.12	<1.05	<1.13
Vanadium	--	14.4	21.1	9.60	21.6	19.5	22.0	18.1	14.7	15.6	16.9	15.8
Zinc	10,000	157	53.2	25.1	61.2	26.3	122	23.8	26.8	22.7	32.5	50.2
Miscellaneous												
Cyanide, Total	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrocarbons												
TPH-DRO (Semi-VOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO (VOA)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total EPH	--	<507	<514	108	<535	<55	687	<53.7	<523	<55.8	60.4	<56.7

TABLE 6
WASTE SOIL CHARACTERIZATION ANALYTICAL RESULTS FOR SUPPLEMENTAL PARAMETERS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Notes:

1. The samples were collected by Posillico Environmental, Inc. on the dates indicated.
2. Samples were analyzed by York Analytical Laboratories, Inc. located in Stratford, Connecticut for:
 - Pesticides using USEPA SW-846 Method 8081B.
 - Herbicides using USEPA SW-846 Method 8151A modified.
 - Metals using USEPA SW-846 Methods 6010C and 7473.
3. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
4. Data qualifiers are defined as follows:
 - <- Constituent not detected at a concentration above the reported detection limit.
 - J- Indicates that the associated numerical value is an estimated concentration.
5. The commercial soil cleanup objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b).
6. Shading indicates that the result exceeds the 6 NYCRR Part 375 Commercial Use SCO.
7. -- = No 6 NYCRR Part 375 SCO listed.

TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
4/9/2013	081789	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.79
4/9/2013	081790	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.35
4/9/2013	081791	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.67
4/9/2013	081792	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.68
4/9/2013	081793	Double Nickel Contracting, Inc.	1A-996	NY37375JV	18.64
4/9/2013	081794	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.63
4/9/2013	081795	Double Nickel Contracting, Inc.	1A-996	NY64546JY	22.05
4/9/2013	081796	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.92
4/10/2013	081797	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.33
4/10/2013	081798	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.60
4/10/2013	081799	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.30
4/10/2013	081800	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.96
4/10/2013	081801	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	18.78
4/10/2013	081802	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	18.03
4/10/2013	081803	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.52
4/10/2013	081804	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	18.70
4/10/2013	081805	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.18
4/10/2013	081806	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.26
4/10/2013	081807	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	17.45
4/11/2013	081808	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.29
4/11/2013	081809	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	17.70
4/11/2013	081810	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.93
4/11/2013	081811	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	16.41
4/11/2013	081812	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.60
4/11/2013	081813	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.71
4/11/2013	081814	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.45
4/11/2013	081815	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	17.94
4/11/2013	081816	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	18.82
4/11/2013	081817	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.67
4/11/2013	081818	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.33
4/11/2013	081819	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.98
4/11/2013	081820	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.70
4/11/2013	081821	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	18.57
4/11/2013	081822	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.69
4/15/2013	081823	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.35
4/15/2013	081824	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.88
4/15/2013	081825	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.71
4/15/2013	081826	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.79
4/15/2013	081827	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.91
4/15/2013	081828	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.41
4/15/2013	081829	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.80
4/15/2013	081830	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.77
4/15/2013	081831	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	25.57
4/15/2013	081832	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.23
4/15/2013	081833	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.58
4/15/2013	081834	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.24
4/15/2013	081835	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.32
4/15/2013	081836	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.89
4/15/2013	081837	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.47
4/15/2013	081838	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.62
4/16/2013	081839	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.08
4/16/2013	081840	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.97
4/16/2013	081841	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.67
4/16/2013	081842	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.67
4/16/2013	081843	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.96
4/16/2013	081844	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.81

9/25/2017

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
4/16/2013	081845	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.55
4/16/2013	081846	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.67
4/16/2013	081847	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.31
4/17/2013	081848	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.50
4/17/2013	081849	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.90
4/17/2013	081850	Double Nickel Contracting, Inc.	1A-996	NY17355JZ	19.37
4/17/2013	081851	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.49
4/17/2013	081852	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.08
4/17/2013	081853	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.14
4/17/2013	081854	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.47
4/18/2013	081855	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.52
4/18/2013	081856	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.19
4/18/2013	081857	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	24.03
4/18/2013	081858	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.21
4/18/2013	081859	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.99
4/18/2013	081860	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.25
4/18/2013	081861	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.35
4/18/2013	081862	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	25.18
4/18/2013	081863	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.38
4/18/2013	081864	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.94
4/18/2013	081865	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.65
4/18/2013	081866	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.34
4/18/2013	081867	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	19.79
4/18/2013	081868	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.98
4/18/2013	081869	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.28
4/18/2013	081870	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.12
4/18/2013	081871	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	27.18
4/18/2013	081872	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	26.30
4/19/2013	081873	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	27.66
4/19/2013	081874	Double Nickel Contracting, Inc.	1A-996	NY17355JZ	23.24
4/19/2013	081875	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.31
4/19/2013	081876	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	18.64
4/19/2013	081877	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	18.34
4/19/2013	081878	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.74
4/19/2013	081879	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.18
4/19/2013	081880	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	17.23
4/19/2013	081881	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	17.54
4/19/2013	081882	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	16.46
4/19/2013	081883	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.13
4/19/2013	081884	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.07
4/19/2013	081885	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	19.96
4/19/2013	081886	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	18.90
4/19/2013	081887	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.47
4/19/2013	081689	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.67
4/19/2013	081690	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.80
4/19/2013	081691	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.14
4/19/2013	081692	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	19.23
4/19/2013	081693	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.32
4/22/2013	081694	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.04
4/22/2013	081695	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.20
4/22/2013	081696	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.94
4/22/2013	081697	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.89
4/22/2013	081698	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.83
4/22/2013	081699	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.54
4/22/2013	081700	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.79
4/22/2013	081701	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.28

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NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
4/22/2013	081702	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.48
4/22/2013	081703	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.60
4/22/2013	081704	Double Nickel Contracting, Inc.	1A-996	NY17355JZ	19.19
4/22/2013	081705	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.89
4/22/2013	081706	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	18.94
4/22/2013	081707	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.60
4/22/2013	081708	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.86
4/23/2013	081709	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.85
4/23/2013	081710	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.40
4/23/2013	081711	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.40
4/23/2013	081712	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.46
4/23/2013	081713	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.69
4/23/2013	081714	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.62
4/23/2013	081715	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.70
4/23/2013	081716	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.47
4/23/2013	081717	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.67
4/23/2013	081718	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.68
4/23/2013	081719	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.48
4/23/2013	081720	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.43
4/23/2013	081721	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.95
4/23/2013	081722	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.67
4/23/2013	081723	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.42
4/23/2013	081724	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.28
4/24/2013	081725	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.32
4/24/2013	081726	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.32
4/24/2013	081727	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.37
4/24/2013	081728	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.97
4/24/2013	081729	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.48
4/24/2013	081730	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.88
4/24/2013	081731	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.70
4/24/2013	081732	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.92
4/24/2013	081733	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.89
4/24/2013	081734	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.60
4/24/2013	081735	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.18
4/24/2013	081736	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.33
4/24/2013	081737	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.72
4/24/2013	081738	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.54
4/24/2013	081739	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.03
4/24/2013	081740	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.89
4/25/2013	081741	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.13
4/25/2013	081742	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.16
4/25/2013	081743	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.75
4/25/2013	081744	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.11
4/25/2013	081745	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.26
4/25/2013	081746	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.64
4/25/2013	081747	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.45
4/25/2013	081748	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.99
4/25/2013	081749	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.30
4/25/2013	081750	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	18.53
4/25/2013	081751	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.46
4/25/2013	081752	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.21
4/25/2013	081753	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.43
4/25/2013	081754	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.01
4/25/2013	081755	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.79
4/25/2013	081756	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.53
4/26/2013	081757	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.47

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FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
4/26/2013	081758	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.87
4/26/2013	081759	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.10
4/26/2013	081760	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.06
4/26/2013	081761	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.63
4/26/2013	081762	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.89
4/26/2013	081763	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.20
4/26/2013	081764	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.71
4/26/2013	081765	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.68
4/26/2013	081766	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.74
4/26/2013	081767	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.75
4/26/2013	081768	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.10
4/26/2013	081769	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.54
4/26/2013	081770	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.31
4/26/2013	081771	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.91
4/29/2013	081772	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.56
4/29/2013	081773	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.35
4/29/2013	081774	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.27
4/29/2013	081775	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.01
4/29/2013	081776	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.91
4/29/2013	081777	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.32
4/29/2013	081778	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.89
4/29/2013	081779	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.07
4/29/2013	081780	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.65
4/29/2013	081781	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.81
4/29/2013	081782	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.37
4/29/2013	081783	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.78
4/29/2013	081784	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.92
4/29/2013	081785	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.57
4/29/2013	081786	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.51
4/29/2013	081787	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.47
4/30/2012	081788	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.67
5/1/2013	084133	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.44
5/1/2013	084134	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.07
5/1/2013	084135	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.71
5/1/2013	084136	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.24
5/1/2013	084137	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.95
5/1/2013	084138	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.11
5/1/2013	084139	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.67
5/1/2013	084140	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.04
5/1/2013	084141	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.37
5/1/2013	084142	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.60
5/1/2013	084143	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.38
5/1/2013	084144	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.81
5/1/2013	084145	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.70
5/1/2013	084146	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.95
5/1/2013	084147	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.48
5/1/2013	084148	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.98
5/1/2013	084149	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.26
5/1/2013	084150	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.07
5/1/2013	084151	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.39
5/1/2013	084152	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.01
5/2/2013	084153	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.49
5/2/2013	084154	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	18.98
5/2/2013	084155	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.06
5/2/2013	084156	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.94
5/2/2013	084157	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.46

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FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/2/2013	084158	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.35
5/2/2013	084159	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.59
5/2/2013	084160	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.39
5/2/2013	084161	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.28
5/2/2013	084162	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.51
5/2/2013	084163	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.91
5/2/2013	084164	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.95
5/2/2013	084165	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.31
5/2/2013	084166	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.14
5/2/2013	084167	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.95
5/2/2013	084168	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.84
5/2/2013	084169	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.54
5/2/2013	084170	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.27
5/2/2013	084171	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	15.78
5/2/2013	084172	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.22
5/3/2013	084173	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.02
5/3/2013	084174	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	16.82
5/3/2013	084175	Double Nickel Contracting, Inc.	1A-996	NY17355JZ	16.64
5/3/2013	084176	Double Nickel Contracting, Inc.	1A-996	NY 39004TR	19.58
5/3/2013	084177	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	17.07
5/3/2013	084178	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	16.36
5/3/2013	084179	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.84
5/3/2013	084180	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.87
5/3/2013	084181	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.56
5/3/2013	084182	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.09
5/3/2013	084183	Double Nickel Contracting, Inc.	1A-996	NY 39004TR	32.32
5/3/2013	084184	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.55
5/3/2013	084185	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.31
5/3/2013	084186	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.67
5/3/2013	084187	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.32
5/3/2013	084188	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.79
5/3/2013	084189	Double Nickel Contracting, Inc.	1A-996	NY 39004TR	31.41
5/3/2013	084190	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.34
5/3/2013	084191	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.32
5/3/2013	084192	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.09
5/3/2013	084193	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.38
5/6/2013	084194	Double Nickel Contracting, Inc.	1A-996	NY 39004TR	33.29
5/6/2013	084195	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.62
5/6/2013	084196	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.41
5/6/2013	084197	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.95
5/6/2013	084198	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.29
5/6/2013	084199	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.80
5/6/2013	084200	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.40
5/6/2013	084201	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	26.78
5/6/2013	084202	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.63
5/6/2013	084203	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.58
5/6/2013	084204	Double Nickel Contracting, Inc.	1A-996	NY17355JZ	19.54
5/6/2013	084205	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.95
5/6/2013	084206	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.84
5/6/2013	084207	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.15
5/6/2013	084208	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.60
5/6/2013	084209	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.70
5/6/2013	084210	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.28
5/7/2013	084211	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.70
5/7/2013	084212	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.51
5/7/2013	084213	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.95

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FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/7/2013	084214	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.19
5/7/2013	084215	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.35
5/7/2013	084216	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.01
5/7/2013	084217	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	17.72
5/7/2013	084218	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	19.53
5/7/2013	084219	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.42
5/7/2013	084220	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.17
5/7/2013	084221	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.56
5/7/2013	084222	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.30
5/7/2013	084223	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.12
5/7/2013	084224	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.25
5/7/2013	084225	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.21
5/7/2013	084226	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.00
5/7/2013	084227	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.17
5/7/2013	084228	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.04
5/7/2013	084229	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.41
5/7/2013	084230	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.61
5/8/2013	084231	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.96
5/8/2013	084232	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.05
5/8/2013	084233	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.08
5/8/2013	084234	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.61
5/8/2013	084235	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	25.19
5/8/2013	084236	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.82
5/8/2013	084237	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	27.63
5/8/2013	084238	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.80
5/8/2013	084239	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.45
5/8/2013	084240	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.10
5/8/2013	084241	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	19.87
5/8/2013	084242	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	18.91
5/8/2013	084243	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.88
5/8/2013	084244	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.28
5/8/2013	084245	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.32
5/8/2013	084246	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.48
5/8/2013	084247	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.12
5/8/2013	084248	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.23
5/9/2013	084249	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.61
5/9/2013	084250	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.70
5/9/2013	084251	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.04
5/9/2013	084252	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.23
5/9/2013	084253	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.96
5/9/2013	084254	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.05
5/9/2013	084255	Double Nickel Contracting, Inc.	1A-996	NY17355JZ	20.72
5/9/2013	084256	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.13
5/9/2013	084257	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.20
5/9/2013	084258	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.81
5/9/2013	084259	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	24.69
5/9/2013	084260	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.14
5/9/2013	084261	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.29
5/9/2013	084262	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.77
5/9/2013	084263	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.15
5/9/2013	084264	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.83
5/9/2013	084265	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.68
5/9/2013	084266	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	20.21
5/9/2013	084267	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.67
5/9/2013	084268	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.85
5/9/2013	084269	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.50

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NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/9/2013	084270	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.07
5/9/2013	084271	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.80
5/9/2013	084272	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.03
5/9/2013	084273	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.58
5/9/2013	084274	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.57
5/10/2013	084275	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	22.52
5/10/2013	084276	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	20.79
5/10/2013	084277	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.08
5/10/2013	084278	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	24.11
5/10/2013	084279	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.40
5/10/2013	084280	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.60
5/10/2013	084281	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.83
5/10/2013	084282	Double Nickel Contracting, Inc.	1A-996	NY BB63792	38.27
5/10/2013	084283	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.50
5/10/2013	084284	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.96
5/10/2013	084285	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.20
5/10/2013	084286	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.47
5/10/2013	084287	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.77
5/10/2013	084288	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	25.00
5/10/2013	084289	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.43
5/10/2013	084290	Double Nickel Contracting, Inc.	1A-996	NY BB63792	32.78
5/10/2013	084291	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.85
5/10/2013	084292	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.42
5/10/2013	084293	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.09
5/10/2013	084294	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	25.24
5/10/2013	084295	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.69
5/10/2013	084296	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.16
5/10/2013	084297	Double Nickel Contracting, Inc.	1A-996	NY BB63792	36.15
5/10/2013	084300	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.65
5/10/2013	084301	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.93
5/13/2013	084298	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.81
5/13/2013	084299	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.21
5/13/2013	084302	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.79
5/13/2013	084303	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.85
5/13/2013	084304	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.71
5/13/2013	084305	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.56
5/13/2013	084306	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.69
5/13/2013	084307	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.79
5/13/2013	084308	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.30
5/13/2013	084309	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	20.49
5/13/2013	084310	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.55
5/13/2013	084311	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.89
5/13/2013	084312	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.09
5/13/2013	084313	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.33
5/13/2013	084314	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.95
5/13/2013	084315	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.79
5/13/2013	084319	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.33
5/13/2013	084320	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.49
5/13/2013	084321	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.34
5/13/2013	084322	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.99
5/13/2013	084323	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.34
5/13/2013	084324	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.33
5/13/2013	084325	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	22.74
5/13/2013	084326	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.72
5/13/2013	084327	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.70
5/13/2013	084328	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.21

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125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/14/2013	084329	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.14
5/14/2013	084330	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.88
5/14/2013	084331	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	36.11
5/14/2013	084332	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	24.14
5/14/2013	084333	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.70
5/14/2013	084108	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.49
5/15/2013	084109	Double Nickel Contracting, Inc.	1A-996	NY BB63792	23.11
5/14/2013	084110	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	23.50
5/14/2013	084334	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.57
5/14/2013	084335	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.70
5/14/2013	084336	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	24.24
5/14/2013	084337	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.14
5/14/2013	084338	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.41
5/14/2013	084339	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	24.47
5/14/2013	084340	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	29.60
5/14/2013	084341	Double Nickel Contracting, Inc.	1A-996	NY BB63792	39.51
5/14/2013	084342	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.55
5/14/2013	084343	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.79
5/14/2013	084344	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	23.86
5/14/2013	084345	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	25.29
5/14/2013	084346	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	20.36
5/14/2013	084347	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.13
5/14/2013	084348	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.17
5/14/2013	084349	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.37
5/14/2013	084350	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.27
5/14/2013	084351	Double Nickel Contracting, Inc.	1A-996	NY 86242JX	21.86
5/14/2013	084352	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	16.53
5/14/2013	084353	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.55
5/15/2013	084354	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.65
5/15/2013	084355	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.39
5/15/2013	084356	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.35
5/15/2013	084357	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.67
5/15/2013	084358	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.76
5/15/2013	084359	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	23.08
5/15/2013	084360	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.77
5/15/2013	084361	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.93
5/15/2013	084362	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.96
5/15/2013	084363	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.62
5/15/2013	084364	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.00
5/15/2013	084365	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.90
5/15/2013	084366	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.60
5/15/2013	084367	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.74
5/15/2013	084368	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.99
5/15/2013	084369	Double Nickel Contracting, Inc.	1A-996	NY BB63792	36.31
5/15/2013	084370	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.27
5/15/2013	084371	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	23.16
5/15/2013	084372	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.38
5/15/2013	084373	Double Nickel Contracting, Inc.	1A-996	NY 7375JV	22.14
5/15/2013	084374	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.01
5/16/2013	084375	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.83
5/16/2013	084376	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.28
5/16/2013	084377	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.19
5/16/2013	084378	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.60
5/16/2013	084379	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.82
5/16/2013	084380	Double Nickel Contracting, Inc.	1A-996	NY35802MC	22.75
5/16/2013	084381	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.33

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5/16/2013	084382	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.41
5/16/2013	084383	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.90
5/16/2013	084384	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	20.02
5/16/2013	084385	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	16.11
5/16/2013	084386	Double Nickel Contracting, Inc.	1A-996	NY 5802MC	22.70
5/16/2013	084387	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.00
5/16/2013	084388	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.18
5/16/2013	084389	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.30
5/16/2013	084390	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.21
5/16/2013	084391	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.40
5/16/2013	084392	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.22
5/16/2013	084393	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.00
5/16/2013	084394	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.72
5/16/2013	084395	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.66
5/16/2013	084396	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	17.82
5/17/2013	084397	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.88
5/17/2013	084398	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.15
5/17/2013	084399	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.82
5/17/2013	084400	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.92
5/17/2013	084401	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.82
5/17/2013	084402	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.49
5/17/2013	084403	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.08
5/17/2013	084404	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	16.81
5/17/2013	084405	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.85
5/20/2013	084406	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.83
5/20/2013	084407	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.94
5/20/2013	084408	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.36
5/20/2013	084409	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	18.31
5/20/2013	084410	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	19.37
5/20/2013	084411	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.88
5/20/2013	084412	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.68
5/20/2013	084414	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.95
5/20/2013	084415	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.63
5/20/2013	084416	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.96
5/20/2013	084417	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.91
5/20/2013	084418	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.42
5/20/2013	084419	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.83
5/20/2013	084420	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.93
5/20/2013	084421	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.88
5/20/2013	084422	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.00
5/20/2013	084423	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.74
5/20/2013	084424	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.67
5/21/2013	084425	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.64
5/21/2013	084426	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	22.03
5/21/2013	084427	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.17
5/21/2013	084428	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.94
5/21/2013	084429	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.22
5/21/2013	084430	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.30
5/21/2013	084431	Double Nickel Contracting, Inc.	1A-996	NY 20501PB	22.57
5/21/2013	084432	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.51
5/21/2013	084434	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	21.93
5/21/2013	084435	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.71
5/21/2013	084436	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.10
5/21/2013	084437	Double Nickel Contracting, Inc.	1A-996	NY BB63792	32.84
5/21/2013	084438	Double Nickel Contracting, Inc.	1A-996	NY 20501PB	21.87
5/21/2013	084439	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.37

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/21/2013	084440	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	21.92
5/21/2013	084441	Double Nickel Contracting, Inc.	1A-996	NY 7375JV	22.15
5/21/2013	084442	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.20
5/21/2013	084443	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.16
5/21/2013	084444	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.28
5/21/2013	084445	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.59
5/21/2013	084446	Double Nickel Contracting, Inc.	1A-996	NY 20501PB	21.66
5/21/2013	084448	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.36
5/21/2013	084449	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.88
5/21/2013	084450	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	19.73
5/21/2013	084451	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	17.80
5/21/2013	084452	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.68
5/22/2013	084447	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	17.55
5/22/2013	084453	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.37
5/22/2013	084454	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.14
5/22/2013	084455	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.39
5/22/2013	084456	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	20.58
5/22/2013	084457	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.66
5/22/2013	084458	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.94
5/22/2013	084459	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.33
5/22/2013	084460	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.85
5/22/2013	084461	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	19.74
5/22/2013	084462	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.79
5/22/2013	084463	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.22
5/22/2013	084464	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.17
5/22/2013	084465	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.75
5/22/2013	084466	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	19.54
5/22/2013	084467	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.91
5/22/2013	084468	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	17.74
5/22/2013	084469	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.75
5/23/2013	084470	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.18
5/23/2013	084471	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	15.30
5/23/2013	084472	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.16
5/23/2013	084473	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	20.59
5/23/2013	084474	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	18.90
5/23/2013	084475	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.54
5/23/2013	084476	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.56
5/23/2013	084477	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	15.48
5/23/2013	084478	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.70
5/23/2013	084479	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.47
5/23/2013	084480	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	16.33
5/23/2013	084481	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	16.35
5/23/2013	084482	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.69
5/23/2013	084483	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.35
5/23/2013	084484	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.94
5/24/2013	084485	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.02
5/24/2013	084486	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.56
5/24/2013	084487	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.57
5/24/2013	084488	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.76
5/24/2013	084489	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.18
5/24/2013	084490	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.76
5/24/2013	084491	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.66
5/24/2013	084492	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.23
5/24/2013	084493	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.88
5/28/2013	084494	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.11
5/28/2013	084495	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.40

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/28/2013	084496	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.71
5/28/2013	084497	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	20.87
5/28/2013	084498	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.87
5/28/2013	084499	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.92
5/28/2013	084500	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.78
5/28/2013	084501	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.17
5/28/2013	084502	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.49
5/28/2013	084503	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	22.71
5/28/2013	084504	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.09
5/28/2013	084505	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.74
5/28/2013	084506	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.43
5/28/2013	084507	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.37
5/28/2013	084508	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.03
5/28/2013	084509	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	22.96
5/28/2013	084510	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	22.50
5/28/2013	084511	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.94
5/28/2013	084512	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	23.04
5/28/2013	084513	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.31
5/28/2013	084514	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.68
5/28/2013	084515	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.09
5/28/2013	084516	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	22.49
5/28/2013	084517	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.90
5/28/2013	084518	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.21
5/28/2013	084519	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.04
5/29/2013	084128	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.09
5/29/2013	090520	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.01
5/29/2013	090521	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.82
5/29/2013	090522	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.64
5/29/2013	090523	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.01
5/29/2013	090524	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	22.01
5/29/2013	090525	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.88
5/29/2013	090526	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.28
5/29/2013	090527	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.80
5/29/2013	090528	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.03
5/29/2013	090529	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.03
5/29/2013	090530	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	22.39
5/29/2013	090531	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.52
5/29/2013	090532	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.71
5/29/2013	090664	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.17
5/29/2013	090665	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	20.73
5/29/2013	090666	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.46
5/29/2013	090667	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	21.17
5/29/2013	090668	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.24
5/29/2013	090669	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	19.46
5/29/2013	090670	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.41
5/29/2013	090671	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.83
5/29/2013	090672	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.16
5/29/2013	090673	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.40
5/29/2013	090674	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.36
5/29/2013	090675	Double Nickel Contracting, Inc.	1A-996	NY 67445MC	19.89
5/30/2013	090676	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.25
5/30/2013	090677	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.79
5/30/2013	090678	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.84
5/30/2013	090679	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.31
5/30/2013	090680	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.14
5/30/2013	090681	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.38

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
5/30/2013	090682	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	19.55
5/30/2013	090683	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.49
5/30/2013	090684	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	24.38
5/30/2013	090685	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	25.00
5/30/2013	090686	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.73
5/30/2013	090687	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.29
5/30/2013	090688	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.51
5/30/2013	090689	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	22.66
5/30/2013	090690	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.85
5/30/2013	090691	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.93
5/30/2013	090692	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	25.34
5/30/2013	090693	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.12
5/31/2013	090694	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.60
5/31/2013	090695	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	33.65
5/31/2013	090696	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	38.54
5/31/2013	090697	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.62
5/31/2013	090698	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.59
5/31/2013	090699	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.89
5/31/2013	090700	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.93
5/31/2013	090701	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.45
5/31/2013	090702	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.08
5/31/2013	090703	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.84
5/31/2013	090704	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.11
5/31/2013	090705	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.07
5/31/2013	090706	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.38
5/31/2013	090707	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	20.54
5/31/2013	090708	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.96
5/31/2013	090709	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.52
5/31/2013	090710	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.66
5/31/2013	090711	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.28
5/31/2013	090712	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.92
5/31/2013	090713	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.60
5/31/2013	090564	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	20.84
5/31/2013	090565	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.63
5/31/2013	090566	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.72
5/31/2013	090567	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.51
5/31/2013	090568	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.16
5/31/2013	090569	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.77
5/31/2013	090570	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.32
6/3/2013	090571	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	35.35
6/3/2013	090572	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.33
6/3/2013	090573	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.62
6/3/2013	090574	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.18
6/3/2013	090575	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.48
6/3/2013	090576	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	22.16
6/3/2013	090577	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	23.31
6/3/2013	090578	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.91
6/3/2013	090579	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.54
6/3/2013	090580	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.72
6/3/2013	090581	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	24.56
6/3/2013	090582	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.00
6/3/2013	090583	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.40
6/3/2013	090584	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	20.99
6/3/2013	090585	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.53
6/3/2013	090586	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.78
6/3/2013	090587	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	24.00

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
6/3/2013	090588	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.16
6/3/2013	090589	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.98
6/4/2013	090590	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	33.31
6/4/2013	090591	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	34.07
6/4/2013	090592	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.18
6/4/2013	090593	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.03
6/4/2013	090594	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	20.19
6/4/2013	090595	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.44
6/4/2013	090596	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.57
6/4/2013	090597	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.71
6/4/2013	090598	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.63
6/4/2013	090599	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	19.97
6/4/2013	090600	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.02
6/4/2013	090601	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.33
6/4/2013	090602	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.89
6/4/2013	090603	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.47
6/4/2013	090604	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.00
6/4/2013	090605	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.74
6/4/2013	090606	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.04
6/4/2013	090607	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.41
6/4/2013	090608	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.53
6/4/2013	090609	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.35
6/7/2013	090617	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.47
6/7/2013	090618	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.45
6/7/2013	090619	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.90
6/7/2013	090620	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	21.93
6/7/2013	090621	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.86
6/7/2013	090622	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	22.82
6/7/2013	090623	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	22.98
6/7/2013	090624	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.89
6/7/2013	090625	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.04
6/7/2013	090626	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.11
6/7/2013	090627	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	22.84
6/7/2013	090628	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.76
6/7/2013	090629	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	19.28
6/7/2013	090630	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.11
6/7/2013	090631	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.07
6/7/2013	090632	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.08
6/7/2013	090633	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	19.98
6/7/2013	090634	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.37
6/7/2013	090635	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.93
6/7/2013	090636	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.37
6/7/2013	090637	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	23.44
6/7/2013	090638	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	25.38
6/10/2013	090639	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	20.87
6/10/2013	090640	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	21.25
6/10/2013	090641	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	20.82
6/10/2013	090642	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	23.89
6/10/2013	090643	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	23.86
6/10/2013	090644	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	22.12
6/10/2013	090645	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.93
6/10/2013	090646	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.68
6/10/2013	090647	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.20
6/10/2013	090648	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	23.60
6/10/2013	090649	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	26.70
6/10/2013	090650	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	19.95

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
6/10/2013	090651	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.03
6/10/2013	090652	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.18
6/10/2013	090653	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	25.42
6/10/2013	090654	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	24.24
6/10/2013	090655	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.93
6/10/2013	090656	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.77
6/11/2013	090657	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.70
6/11/2013	090658	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	23.13
6/11/2013	090659	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	18.20
6/11/2013	090660	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	18.81
6/11/2013	090661	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	21.89
6/11/2013	090662	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	21.42
6/11/2013	090663	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	25.59
6/11/2013	090841	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.40
6/11/2013	090842	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.89
6/11/2013	090843	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	25.16
6/11/2013	090844	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	25.64
6/11/2013	090845	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	25.30
6/11/2013	090850	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	26.12
6/11/2013	090851	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	25.39
6/11/2013	090852	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	24.33
6/11/2013	090853	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	22.73
6/11/2013	090854	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	21.15
6/11/2013	090855	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	22.77
6/11/2013	090856	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	23.63
6/11/2013	090857	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	23.33
6/11/2013	090858	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	22.35
6/11/2013	090859	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	21.22
6/11/2013	090860	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	22.87
6/11/2013	090861	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	24.17
6/12/2013	090814	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	25.22
6/12/2013	090815	Double Nickel Contracting, Inc.	1A-996	NY 37375JV	25.85
6/12/2013	090816	Double Nickel Contracting, Inc.	1A-996	NY 93341JX	25.52
6/12/2013	090838	Double Nickel Contracting, Inc.	1A-996	NY 20502PB	25.81
6/12/2013	090839	Double Nickel Contracting, Inc.	1A-996	NY 32565MB	25.63
6/12/2013	090840	Double Nickel Contracting, Inc.	1A-996	NY 35802MC	21.72
6/13/2013	090817	Double Nickel Contracting, Inc.	1A-996	NY 64546JY	25.13
6/13/2013	090818	Double Nickel Contracting, Inc.	1A-996	NY 17355JZ	25.11
2013 Waste Shipment Subtotal:					16,726.77
11/3/2014	983715	J & D Trucking, Inc.	NJ-471	NJ AJ201D	22.95
11/3/2014	983714	J & D Trucking, Inc.	NJ-471	NJ AJ120G	22.86
11/3/2014	983716	J & D Trucking, Inc.	NJ-471	NJ AJ137N	22.13
11/5/2014	983717	J & D Trucking, Inc.	NJ-471	NJ AM469H	20.50
11/5/2014	983718	J & D Trucking, Inc.	NJ-471	NJ AJ201D	21.93
11/5/2014	983720	J & D Trucking, Inc.	NJ-471	NJ AM954Y	20.43
11/5/2014	983721	J & D Trucking, Inc.	NJ-471	NJ AJ504T	23.39
11/5/2014	983722	J & D Trucking, Inc.	NJ-471	NJ AJ137N	27.12
11/5/2014	983723	J & D Trucking, Inc.	NJ-471	NJ AM119B	26.95
11/5/2014	983725	J & D Trucking, Inc.	NJ-471	NJ AJ120G	22.54
11/5/2014	983724	J & D Trucking, Inc.	NJ-471	NJ AP728E	27.19
11/5/2014	983719	J & D Trucking, Inc.	NJ-471	NJ AN353U	25.92
11/6/2014	983726	J & D Trucking, Inc.	NJ-471	NJ AN353U	25.29
11/6/2014	983727	J & D Trucking, Inc.	NJ-471	NJ AJ201D	21.53
11/6/2014	983728	J & D Trucking, Inc.	NJ-471	NJ AM469H	23.55
11/6/2014	983729	J & D Trucking, Inc.	NJ-471	NJ AM119B	24.40
11/6/2014	983730	J & D Trucking, Inc.	NJ-471	NJ AP303S	25.06

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
11/6/2014	983731	J & D Trucking, Inc.	NJ-471	NJ AJ504T	23.87
11/6/2014	983732	J & D Trucking, Inc.	NJ-471	NJ AP728E	21.85
11/6/2014	983733	J & D Trucking, Inc.	NJ-471	NJ AM740D	24.69
11/6/2014	983734	J & D Trucking, Inc.	NJ-471	NJ AJ184R	24.59
11/6/2014	983735	J & D Trucking, Inc.	NJ-471	NJ AJ137N	24.71
11/6/2014	983736	J & D Trucking, Inc.	NJ-471	NJ AP569X	23.03
11/6/2014	983737	J & D Trucking, Inc.	NJ-471	NJ AJ120G	24.01
11/6/2014	983738	J & D Trucking, Inc.	NJ-471	NJ AK488C	21.49
11/6/2014	983739	J & D Trucking, Inc.	NJ-471	NJ AM415P	20.79
11/6/2014	983740	Costa Haulers LLC	NJ-923	NJ AN780W	18.92
11/6/2014	983741	J & D Trucking, Inc.	NJ-471	NJ AP736X	25.00
11/6/2014	983742	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.22
11/6/2014	983743	J & D Trucking, Inc.	NJ-471	NJ AR524B	21.04
11/7/2014	983745	J & D Trucking, Inc.	NJ-471	NJ AJ201D	21.70
11/7/2014	983744	J & D Trucking, Inc.	NJ-471	NJ AM954Y	18.06
11/7/2014	983746	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.49
11/7/2014	983747	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.58
11/7/2014	983748	J & D Trucking, Inc.	NJ-471	NJ AJ137N	23.52
11/7/2014	983749	J & D Trucking, Inc.	NJ-471	NJ AJ120G	23.04
11/7/2014	983750	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.09
11/7/2014	983751	J & D Trucking, Inc.	NJ-471	NJ AM119B	20.85
11/10/2014	983752	J & D Trucking, Inc.	NJ-471	NJ AJ504T	20.26
11/10/2014	983753	J & D Trucking, Inc.	NJ-471	NJ AM119B	23.77
11/10/2014	983754	J & D Trucking, Inc.	NJ-471	NJ AM954Y	25.09
11/10/2014	983755	J & D Trucking, Inc.	NJ-471	NJ AP728E	25.24
11/10/2014	983756	J & D Trucking, Inc.	NJ-471	NJ AR524B	27.24
11/10/2014	983758	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.44
11/10/2014	983759	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.95
11/10/2014	983760	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.35
11/11/2014	983762	J & D Trucking, Inc.	NJ-471	NJ AM953Y	22.45
11/11/2014	983763	J & D Trucking, Inc.	NJ-471	NJ AM119B	25.70
11/11/2014	983764	J & D Trucking, Inc.	NJ-471	NJ AJ504T	20.70
11/11/2014	983765	J & D Trucking, Inc.	NJ-471	NJ AK488C	23.50
11/11/2014	983766	J & D Trucking, Inc.	NJ-471	NJ AJ184R	27.13
11/11/2014	983767	J & D Trucking, Inc.	NJ-471	NJ AM415P	23.67
11/11/2014	983769	J & D Trucking, Inc.	NJ-471	NJ AP736X	27.33
11/11/2014	983768	J & D Trucking, Inc.	NJ-471	NJ AR524B	28.53
11/11/2014	983770	J & D Trucking, Inc.	NJ-471	NJ AK807E	24.68
11/12/2014	983771	J & D Trucking, Inc.	NJ-471	NJ AM119B	27.35
11/12/2014	983772	J & D Trucking, Inc.	NJ-471	NJ AN570X	26.27
11/12/2014	983773	J & D Trucking, Inc.	NJ-471	NJ AL104U	25.05
11/12/2014	983774	J & D Trucking, Inc.	NJ-471	NJ AJ137N	21.47
11/12/2014	983775	J & D Trucking, Inc.	NJ-471	NJ AP728E	20.94
11/12/2014	983776	J & D Trucking, Inc.	NJ-471	NJ AJ504T	25.72
11/12/2014	983777	J & D Trucking, Inc.	NJ-471	NJ AM415P	28.43
11/12/2014	983778	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.55
11/12/2014	983780	J & D Trucking, Inc.	NJ-471	NJ AM953Y	23.06
11/12/2014	983779	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.91
11/12/2014	1125943	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.43
11/12/2014	1125944	J & D Trucking, Inc.	NJ-471	NJ AK488C	19.73
11/13/2014	983781	J & D Trucking, Inc.	NJ-471	NJ AM119B	26.01
11/13/2014	983782	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.69
11/13/2014	983783	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.18
11/13/2014	983784	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.44
11/13/2014	983785	J & D Trucking, Inc.	NJ-471	NJ AR524B	24.70
11/13/2014	983786	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.31

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
11/13/2014	983787	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.66
11/13/2014	983788	J & D Trucking, Inc.	NJ-471	NJ AK488C	27.38
11/13/2014	983789	J & D Trucking, Inc.	NJ-471	NJ AM953Y	24.10
11/14/2014	983790	J & D Trucking, Inc.	NJ-471	NJ AJ504T	23.24
11/14/2014	983791	J & D Trucking, Inc.	NJ-471	NJ AM119B	25.71
11/14/2014	983792	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.43
11/14/2014	983793	J & D Trucking, Inc.	NJ-471	NJ AM953Y	20.66
11/14/2014	983794	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.73
11/14/2014	983795	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.74
11/14/2014	983796	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.08
11/14/2014	983797	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.46
11/14/2014	983798	J & D Trucking, Inc.	NJ-471	NJ AK488C	24.97
11/14/2014	983799	J & D Trucking, Inc.	NJ-471	NJ AJ137N	18.60
11/17/2014	1125901	J & D Trucking, Inc.	NJ-471	NJ AJ504T	16.04
11/17/2014	983800	JC Transport, Inc.	NJ-883	NJ AP124L	21.24
11/17/2014	1125902	JC Transport, Inc.	NJ-883	NJ AP153H	20.40
11/17/2014	1125904	JC Transport, Inc.	NJ-883	NJ AR610G	21.77
11/17/2014	1125905	JC Transport, Inc.	NJ-883	NJ AR611G	21.99
11/17/2014	1125906	JC Transport, Inc.	NJ-883	NJ AP345S	20.83
11/17/2014	1125907	JC Transport, Inc.	NJ-883	NJ AP688X	23.23
11/17/2014	1125908	JC Transport, Inc.	NJ-883	NJ AP395N	22.46
11/17/2014	1125903	J & D Trucking, Inc.	NJ-471	NJ AM119B	23.54
11/17/2014	1125909	JC Transport, Inc.	NJ-883	NJ AS622A	21.52
11/17/2014	1125912	J & D Trucking, Inc.	NJ-471	NJ AR524B	22.53
11/17/2014	1125911	J & D Trucking, Inc.	NJ-471	NJ AK807E	23.92
11/17/2014	1125910	J & D Trucking, Inc.	NJ-471	NJ AM415P	24.42
11/17/2014	1125914	J & D Trucking, Inc.	NJ-471	NJ AM953Y	22.57
11/17/2014	1125915	J & D Trucking, Inc.	NJ-471	NJ AP736X	25.39
11/17/2014	1125913	J & D Trucking, Inc.	NJ-471	NJ AK488C	22.64
11/18/2014	1125916	JC Transport, Inc.	NJ-883	NJ AP124L	18.99
11/18/2014	1125917	JC Transport, Inc.	NJ-883	NJ AP345S	21.81
11/18/2014	1125918	JC Transport, Inc.	NJ-883	NJ AR610G	18.14
11/18/2014	1125924	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.10
11/18/2014	1125919	JC Transport, Inc.	NJ-883	NJ AP153H	20.98
11/18/2014	1125920	JC Transport, Inc.	NJ-883	NJ AP668X	17.35
11/18/2014	1125921	JC Transport, Inc.	NJ-883	NJ AR611G	20.37
11/18/2014	1125925	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.78
11/18/2014	1125926	J & D Trucking, Inc.	NJ-471	NJ AM119B	23.07
11/18/2014	1125922	JC Transport, Inc.	NJ-883	NJ AP395N	24.69
11/18/2014	1125923	JC Transport, Inc.	NJ-883	NJ AS622A	21.13
11/18/2014	1125928	J & D Trucking, Inc.	NJ-471	NJ AJ504T	22.91
11/18/2014	1125929	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.25
11/18/2014	1125930	J & D Trucking, Inc.	NJ-471	NJ AP736X	25.97
11/18/2014	1125931	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.15
11/18/2014	1125932	J & D Trucking, Inc.	NJ-471	NJ AM415P	28.14
11/18/2014	1125933	J & D Trucking, Inc.	NJ-471	NJ AK488C	28.22
11/19/2014	1125941	JC Transport, Inc.	NJ-883	NJ AR610G	24.64
11/19/2014	1125940	JC Transport, Inc.	NJ-883	NJ AR345S	21.79
11/19/2014	1125939	JC Transport, Inc.	NJ-883	NJ AP124L	23.16
11/19/2014	1125938	JC Transport, Inc.	NJ-883	NJ AP395N	24.26
11/19/2014	1125937	JC Transport, Inc.	NJ-883	NJ AS622A	24.74
11/19/2014	1125936	JC Transport, Inc.	NJ-883	NJ AP668X	25.29
11/19/2014	1125935	JC Transport, Inc.	NJ-883	NJ AR611G	26.16
11/19/2014	1125934	JC Transport, Inc.	NJ-883	NJ AP153H	23.35
11/19/2014	1125942	J & D Trucking, Inc.	NJ-471	NJ AM953Y	20.81
11/19/2014	1011924	J & D Trucking, Inc.	NJ-471	NJ AP728E	19.06

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
11/19/2014	1011925	J & D Trucking, Inc.	NJ-471	NJ AJ504T	23.07
11/19/2014	1011926	J & D Trucking, Inc.	NJ-471	NJ AM119B	24.63
11/19/2014	1011927	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.01
11/19/2014	1011928	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.14
11/19/2014	1011929	J & D Trucking, Inc.	NJ-471	NJ AP736X	25.36
11/19/2014	1011930	J & D Trucking, Inc.	NJ-471	NJ AK488C	19.65
11/19/2014	1011931	J & D Trucking, Inc.	NJ-471	NJ AM415P	19.52
11/20/2014	1011923	JC Transport, Inc.	NJ-883	NJ AP124L	24.77
11/20/2014	1011922	JC Transport, Inc.	NJ-883	NJ AP345S	23.02
11/20/2014	1011921	JC Transport, Inc.	NJ-883	NJ AS622A	23.56
11/20/2014	1011920	JC Transport, Inc.	NJ-883	NJ AP395N	25.82
11/20/2014	1011919	JC Transport, Inc.	NJ-883	NJ AP668X	24.33
11/20/2014	1011918	JC Transport, Inc.	NJ-883	NJ AR611G	23.72
11/20/2014	1011915	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.97
11/20/2014	1011914	J & D Trucking, Inc.	NJ-471	NJ AM953Y	22.34
11/20/2014	1011913	J & D Trucking, Inc.	NJ-471	NJ AP728E	21.63
11/20/2014	1011912	J & D Trucking, Inc.	NJ-471	NJ AM119B	25.14
11/20/2014	1011911	J & D Trucking, Inc.	NJ-471	NJ AJ120G	24.46
11/20/2014	1011910	J & D Trucking, Inc.	NJ-471	NJ AJ137N	20.88
11/20/2014	1011909	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.17
11/20/2014	1011908	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.32
11/20/2014	1011907	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.95
11/20/2014	1011906	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.45
11/20/2014	1011905	J & D Trucking, Inc.	NJ-471	NJ AM415P	25.03
11/21/2014	1011916	JC Transport, Inc.	NJ-883	NJ AP345S	22.77
11/21/2014	1011904	JC Transport, Inc.	NJ-883	NJ AP124L	25.36
11/21/2014	1011903	JC Transport, Inc.	NJ-883	NJ AR610G	23.80
11/21/2014	1011902	JC Transport, Inc.	NJ-883	NJ AP395N	25.40
11/21/2014	1011901	JC Transport, Inc.	NJ-883	NJ AP668X	24.42
11/21/2014	1011900	JC Transport, Inc.	NJ-883	NJ AS622A	25.15
11/21/2014	1011899	JC Transport, Inc.	NJ-883	NJ AP153H	24.95
11/21/2014	1011898	J & D Trucking, Inc.	NJ-471	NJ AP728E	19.78
11/21/2014	1011897	JC Transport, Inc.	NJ-883	NJ AR611G	27.17
11/21/2014	1011896	J & D Trucking, Inc.	NJ-471	NJ AM953Y	21.56
11/21/2014	1011895	J & D Trucking, Inc.	NJ-471	NJ AJ504T	18.71
11/21/2014	1011894	J & D Trucking, Inc.	NJ-471	NJ AM119B	24.79
11/21/2014	1011893	J & D Trucking, Inc.	NJ-471	NJ AP736X	24.92
11/21/2014	1011892	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.07
11/21/2014	1011891	J & D Trucking, Inc.	NJ-471	NJ AK488C	26.74
11/21/2014	1011890	J & D Trucking, Inc.	NJ-471	NJ AM415P	25.11
11/24/2014	1011888	JC Transport, Inc.	NJ-883	NJ AP345S	21.32
11/24/2014	1011887	JC Transport, Inc.	NJ-883	NJ AR610G	24.43
11/24/2014	1011886	JC Transport, Inc.	NJ-883	NJ AP153H	22.73
11/24/2014	1011885	JC Transport, Inc.	NJ-883	NJ AS622A	23.12
11/24/2014	1011884	JC Transport, Inc.	NJ-883	NJ AR611G	21.65
11/24/2014	1011883	JC Transport, Inc.	NJ-883	NJ AP668X	21.96
11/24/2014	1011889	JC Transport, Inc.	NJ-883	NJ AP345N	21.48
11/24/2014	1011881	J & D Trucking, Inc.	NJ-471	NJ AJ504T	18.61
11/24/2014	1011880	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.73
11/24/2014	1011879	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.38
11/24/2014	1011878	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.92
11/24/2014	1011877	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.58
11/24/2014	1011876	J & D Trucking, Inc.	NJ-471	NJ AJ184R	25.69
11/24/2014	1011875	J & D Trucking, Inc.	NJ-471	NJ AP736X	27.86
11/25/2014	1011882	JC Transport, Inc.	NJ-883	NJ AP345S	24.41
11/25/2014	1011874	JC Transport, Inc.	NJ-883	NJ AP395N	25.13

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
11/25/2014	1011861	JC Transport, Inc.	NJ-883	NJ AR610G	25.51
11/25/2014	1011863	R&B Debris, LLC	NJ-801	NJ AM911G	29.42
11/25/2014	1011872	R&B Debris, LLC	NJ-801	NJ AP500U	25.44
11/25/2014	1011871	J & D Trucking, Inc.	NJ-471	NJ AM953Y	22.51
11/25/2014	1011873	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.05
11/25/2014	1011870	J & D Trucking, Inc.	NJ-471	NJ AM119B	23.03
11/25/2014	1011869	J & D Trucking, Inc.	NJ-471	NJ AJ137N	20.68
11/25/2014	1011868	J & D Trucking, Inc.	NJ-471	NJ AJ504T	19.26
11/25/2014	1011867	J & D Trucking, Inc.	NJ-471	NJ AJ120G	24.73
11/25/2014	1011862	JC Transport, Inc.	NJ-883	NJ AS622A	24.94
11/25/2014	1011864	JC Transport, Inc.	NJ-883	NJ AP668X	23.59
11/25/2014	1011866	JC Transport, Inc.	NJ-883	NJ AR611G	25.28
11/25/2014	1011865	R&B Debris, LLC	NJ-801	NJ AP389S	25.28
11/25/2014	1011860	J & D Trucking, Inc.	NJ-471	NJ AP736X	27.66
11/25/2014	1011858	J & D Trucking, Inc.	NJ-471	NJ AR524B	22.60
11/25/2014	1011859	J & D Trucking, Inc.	NJ-471	NJ AK488C	26.53
11/26/2014	1011857	J & D Trucking, Inc.	NJ-471	NJ AP728E	13.82
11/26/2014	1011856	J & D Trucking, Inc.	NJ-471	NJ AJ504T	17.46
11/26/2014	1011855	JC Transport, Inc.	NJ-883	NJ AP345S	24.05
11/26/2014	1011854	JC Transport, Inc.	NJ-883	NJ AR610G	23.40
11/26/2014	1011853	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.32
11/26/2014	1011852	J & D Trucking, Inc.	NJ-471	NJ AM119B	24.42
11/26/2014	1011851	J & D Trucking, Inc.	NJ-471	NJ AJ120G	20.25
11/26/2014	1011850	R&B Debris, LLC	NJ-801	NJ AP755Y	28.05
11/26/2014	1011849	JC Transport, Inc.	NJ-883	NJ AP395N	24.41
11/26/2014	1011848	JC Transport, Inc.	NJ-883	NJ AP668X	22.20
11/26/2014	1011847	JC Transport, Inc.	NJ-883	NJ AR611G	23.80
11/26/2014	1011846	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.95
11/26/2014	1011845	J & D Trucking, Inc.	NJ-471	NJ AP736X	24.10
11/26/2014	1011844	J & D Trucking, Inc.	NJ-471	NJ AK488C	27.40
11/26/2014	1011843	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.39
11/26/2014	1011842	R&B Debris, LLC	NJ-801	NJ AM206J	25.42
11/26/2014	1011841	R&B Debris, LLC	NJ-801	NJ AK540X	24.67
11/26/2014	1011840	R&B Debris, LLC	NJ-801	NJ AM205J	22.96
11/26/2014	1011839	JC Transport, Inc.	NJ-883	NJ AS121E	24.99
12/1/2014	1011837	JC Transport, Inc.	NJ-883	NJ AP124L	26.24
12/1/2014	1011836	JC Transport, Inc.	NJ-883	NJ AP395N	24.54
12/1/2014	1011835	JC Transport, Inc.	NJ-883	NJ AP345S	24.80
12/1/2014	1011834	R&B Debris, LLC	NJ-801	NJ THD80S	28.66
12/1/2014	1011833	R&B Debris, LLC	NJ-801	NJ THD79S	26.24
12/1/2014	1011832	R&B Debris, LLC	NJ-801	NJ AP755Y	29.73
12/1/2014	1011831	JC Transport, Inc.	NJ-883	NJ AR610G	26.59
12/1/2014	1011830	JC Transport, Inc.	NJ-883	NJ AS121E	27.84
12/1/2014	1011829	JC Transport, Inc.	NJ-883	NJ AS307C	28.19
12/1/2014	1011828	JC Transport, Inc.	NJ-883	NJ 668X	25.17
12/1/2014	1011827	R&B Debris, LLC	NJ-801	NJ AM206J	25.90
12/1/2014	1011826	R&B Debris, LLC	NJ-801	NJ AK540X	27.50
12/1/2014	1011825	R&B Debris, LLC	NJ-801	NJ AM205J	26.63
12/1/2014	1011824	JC Transport, Inc.	NJ-883	NJ AR611G	24.74
12/1/2014	1011823	J & D Trucking, Inc.	NJ-471	NJ AJ504T	27.76
12/1/2014	1011822	J & D Trucking, Inc.	NJ-471	NJ AP728E	24.24
12/1/2014	1011821	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.22
12/1/2014	1011820	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.14
12/1/2014	1011819	J & D Trucking, Inc.	NJ-471	NJ AJ184R	28.09
12/1/2014	1011818	J & D Trucking, Inc.	NJ-471	NJ AM953Y	17.53
12/1/2014	1011817	J & D Trucking, Inc.	NJ-471	NJ AP736X	28.37

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NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/1/2014	1011816	J & D Trucking, Inc.	NJ-471	NJ AR524B	23.54
12/1/2014	1011815	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.73
12/2/2014	1011814	JC Transport, Inc.	NJ-883	NJ AP345S	22.98
12/2/2014	1011813	R&B Debris, LLC	NJ-801	NJ THD80S	18.17
12/2/2014	1011812	R&B Debris, LLC	NJ-801	NJ THD79S	20.59
12/2/2014	1011811	JC Transport, Inc.	NJ-883	NJ AP395N	22.39
12/2/2014	1011810	R&B Debris, LLC	NJ-801	NJ AM206J	27.00
12/2/2014	1011809	R&B Debris, LLC	NJ-801	NJ AM205J	22.60
12/2/2014	1011808	JC Transport, Inc.	NJ-883	NJ AP668X	19.69
12/2/2014	1011807	R&B Debris, LLC	NJ-801	NJ AP755Y	22.91
12/2/2014	1011806	R&B Debris, LLC	NJ-801	NJ AK540X	22.07
12/2/2014	1011805	R&B Debris, LLC	NJ-801	NJ AR888G	19.08
12/2/2014	1011804	J & D Trucking, Inc.	NJ-471	NJ AK488C	27.10
12/2/2014	1011803	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.63
12/2/2014	1011802	J & D Trucking, Inc.	NJ-471	NJ AM119B	23.87
12/2/2014	1011801	J & D Trucking, Inc.	NJ-471	NJ AJ504T	23.77
12/2/2014	1126572	J & D Trucking, Inc.	NJ-471	NJ AM953Y	22.27
12/2/2014	1126573	J & D Trucking, Inc.	NJ-471	NJ AP728E	20.51
12/2/2014	1126574	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.86
12/2/2014	1126575	J & D Trucking, Inc.	NJ-471	NJ AP736X	27.69
12/2/2014	1126576	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.54
12/2/2014	1126577	JC Transport, Inc.	NJ-883	NJ AP395N	23.79
12/2/2014	1126578	JC Transport, Inc.	NJ-883	NJ AP345S	22.68
12/3/2014	1126579	R&B Debris, LLC	NJ-801	NJ THD80S	20.06
12/3/2014	1126580	R&B Debris, LLC	NJ-801	NJ THD79S	20.69
12/3/2014	1126581	JC Transport, Inc.	NJ-883	NJ AR610G	23.12
12/3/2014	1126582	R&B Debris, LLC	NJ-801	NJ AM206J	26.48
12/3/2014	1126583	R&B Debris, LLC	NJ-801	NJ AM911G	26.97
12/3/2014	1126584	R&B Debris, LLC	NJ-801	NJ AP500U	25.89
12/3/2014	1126585	R&B Debris, LLC	NJ-801	NJ AM205J	24.22
12/3/2014	1126586	R&B Debris, LLC	NJ-801	NJ AP755Y	26.35
12/3/2014	1126587	R&B Debris, LLC	NJ-801	NJ AK540X	22.17
12/3/2014	1126588	JC Transport, Inc.	NJ-883	NJ AR611G	24.60
12/3/2014	1126589	JC Transport, Inc.	NJ-883	NJ AP668X	23.51
12/3/2014	1126590	J & D Trucking, Inc.	NJ-471	NJ AR524B	24.61
12/3/2014	1126591	J & D Trucking, Inc.	NJ-471	NJ AP736X	25.78
12/3/2014	1126592	J & D Trucking, Inc.	NJ-471	NJ AM415P	23.71
12/3/2014	1126593	J & D Trucking, Inc.	NJ-471	NJ AM953Y	23.53
12/3/2014	1126594	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.46
12/3/2014	1126595	J & D Trucking, Inc.	NJ-471	NJ AJ504T	24.60
12/3/2014	1126596	J & D Trucking, Inc.	NJ-471	NJ AM119B	20.16
12/3/2014	1126597	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.14
12/3/2014	1126598	J & D Trucking, Inc.	NJ-471	NJ AK488C	29.16
12/3/2014	1126599	JC Transport, Inc.	NJ-883	NJ AP345S	23.05
12/3/2014	1126600	JC Transport, Inc.	NJ-883	NJ AP395N	26.24
12/3/2014	1011838	JC Transport, Inc.	NJ-883	NJ AR610G	22.83
12/3/2014	1126569	JC Transport, Inc.	NJ-883	NJ AP668X	24.66
12/3/2014	1126571	JC Transport, Inc.	NJ-883	NJ AR611G	26.43
12/4/2014	1126570	JC Transport, Inc.	NJ-883	NJ AP124L	24.41
12/4/2014	1126507	JC Transport, Inc.	NJ-883	NJ AS121E	21.62
12/4/2014	1126508	JC Transport, Inc.	NJ-883	NJ AS307C	21.82
12/4/2014	1126510	R&B Debris, LLC	NJ-801	NJ THD80S	19.47
12/4/2014	1126511	R&B Debris, LLC	NJ-801	NJ THD79S	20.42
12/4/2014	1126509	JC Transport, Inc.	NJ-883	NJ AP345S	24.27
12/4/2014	1126512	R&B Debris, LLC	NJ-801	NJ AM206J	25.68
12/4/2014	1126513	R&B Debris, LLC	NJ-801	NJ AM205J	24.28

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NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/4/2014	1126514	R&B Debris, LLC	NJ-801	NJ AK540X	20.83
12/4/2014	1126515	J & D Trucking, Inc.	NJ-471	NJ AP736X	28.52
12/4/2014	1126516	J & D Trucking, Inc.	NJ-471	NJ AR524B	27.52
12/4/2014	1126517	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.13
12/4/2014	1126518	R&B Debris, LLC	NJ-801	NJ AP755Y	27.42
12/4/2014	1126519	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.30
12/4/2014	1126520	J & D Trucking, Inc.	NJ-471	NJ AJ504T	24.82
12/4/2014	1126521	J & D Trucking, Inc.	NJ-471	NJ AM119B	26.15
12/4/2014	1126522	J & D Trucking, Inc.	NJ-471	NJ AP728E	25.94
12/4/2014	1126523	J & D Trucking, Inc.	NJ-471	NJ AK488C	24.87
12/4/2014	1126524	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.22
12/4/2014	1126525	JC Transport, Inc.	NJ-883	NJ AP124L	22.19
12/4/2014	1126526	JC Transport, Inc.	NJ-883	NJ AS307C	24.02
12/4/2014	1126527	JC Transport, Inc.	NJ-883	NJ AS121E	23.75
12/4/2014	1126529	JC Transport, Inc.	NJ-883	NJ AP345S	22.72
12/5/2014	1126530	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.00
12/5/2014	1126531	R&B Debris, LLC	NJ-801	NJ THD80S	20.15
12/5/2014	1126533	R&B Debris, LLC	NJ-801	NJ AM911G	22.83
12/5/2014	1126532	R&B Debris, LLC	NJ-801	NJ AP500U	25.94
12/5/2014	1126534	R&B Debris, LLC	NJ-801	NJ AL387N	25.75
12/5/2014	1126535	R&B Debris, LLC	NJ-801	NJ AM206J	25.28
12/5/2014	1126536	R&B Debris, LLC	NJ-801	NJ AK540X	22.55
12/5/2014	1126537	R&B Debris, LLC	NJ-801	NJ AM205J	23.08
12/5/2014	1126538	R&B Debris, LLC	NJ-801	NJ AP389S	25.19
12/5/2014	1126539	R&B Debris, LLC	NJ-801	NJ AP755Y	20.33
12/5/2014	1126541	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.96
12/5/2014	1126542	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.92
12/5/2014	1126543	J & D Trucking, Inc.	NJ-471	NJ AM953Y	22.90
12/5/2014	1126544	J & D Trucking, Inc.	NJ-471	NJ AJ504T	20.54
12/5/2014	1126545	J & D Trucking, Inc.	NJ-471	NJ AM119B	25.04
12/5/2014	1126546	J & D Trucking, Inc.	NJ-471	NJ AP728E	20.12
12/5/2014	1126547	J & D Trucking, Inc.	NJ-471	NJ AK488C	24.80
12/5/2014	1126548	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.87
12/5/2014	1126549	JC Transport, Inc.	NJ-883	NJ AS307C	23.35
12/5/2014	1126550	JC Transport, Inc.	NJ-883	NJ AP124L	21.01
12/8/2014	1126551	JC Transport, Inc.	NJ-883	NJ AR610G	21.32
12/8/2014	1126552	JC Transport, Inc.	NJ-883	NJ AS307C	22.51
12/8/2014	1126553	JC Transport, Inc.	NJ-883	NJ AS121E	24.88
12/8/2014	1126554	R&B Debris, LLC	NJ-801	NJ THD80S	14.71
12/8/2014	1126555	R&B Debris, LLC	NJ-801	NJ THD79S	24.17
12/8/2014	1126556	JC Transport, Inc.	NJ-883	NJ AR611G	22.42
12/8/2014	1126557	JC Transport, Inc.	NJ-883	NJ AP124L	20.90
12/8/2014	1126558	R&B Debris, LLC	NJ-801	NJ AP755Y	25.46
12/8/2014	1126540	R&B Debris, LLC	NJ-801	NJ AM206J	24.44
12/8/2014	1126559	R&B Debris, LLC	NJ-801	NJ AK540X	20.73
12/8/2014	1126560	R&B Debris, LLC	NJ-801	NJ AM205J	24.32
12/8/2014	1126561	R&B Debris, LLC	NJ-801	NJ AP389S	27.96
12/8/2014	1126562	R&B Debris, LLC	NJ-801	NJ AP500U	25.90
12/8/2014	1126563	R&B Debris, LLC	NJ-801	NJ AL387N	27.53
12/8/2014	1126564	R&B Debris, LLC	NJ-801	NJ AM911G	28.69
12/8/2014	1126565	J & D Trucking, Inc.	NJ-471	NJ AM953Y	20.08
12/8/2014	1126566	J & D Trucking, Inc.	NJ-471	NJ AR524B	28.05
12/8/2014	1126567	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.78
12/8/2014	1126568	J & D Trucking, Inc.	NJ-471	NJ AJ504T	27.39
12/8/2014	1126458	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.24
12/8/2014	1126459	J & D Trucking, Inc.	NJ-471	NJ AP303S	24.98

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125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/8/2014	1126460	J & D Trucking, Inc.	NJ-471	NJ AM119B	25.21
12/8/2014	1126461	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.01
12/8/2014	1126462	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.20
12/8/2014	1126463	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.54
12/8/2014	1126464	J & D Trucking, Inc.	NJ-471	NJ AR610G	23.27
12/8/2014	1126465	JC Transport, Inc.	NJ-883	NJ AS307C	23.84
12/8/2014	1126466	JC Transport, Inc.	NJ-883	NJ AS121E	24.89
12/8/2014	1126467	JC Transport, Inc.	NJ-883	NJ AP124L	23.89
12/8/2014	1126468	JC Transport, Inc.	NJ-883	NJ AR611G	24.14
12/9/2014	1126469	R&B Debris, LLC	NJ-801	NJ THD80S	22.60
12/9/2014	1126470	R&B Debris, LLC	NJ-801	NJ THD79S	23.15
12/9/2014	1126471	JC Transport, Inc.	NJ-883	NJ AP395N	22.88
12/9/2014	1126472	JC Transport, Inc.	NJ-883	NJ AP153H	25.29
12/9/2014	1126473	R&B Debris, LLC	NJ-801	NJ AP755Y	21.66
12/9/2014	1126474	JC Transport, Inc.	NJ-883	NJ AP668X	23.32
12/9/2014	1126475	R&B Debris, LLC	NJ-801	NJ AM206J	24.93
12/9/2014	1126476	R&B Debris, LLC	NJ-801	NJ AK540X	22.34
12/9/2014	1126477	R&B Debris, LLC	NJ-801	NJ AM205J	24.67
12/9/2014	1126478	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.86
12/9/2014	1126479	R&B Debris, LLC	NJ-801	NJ AL387N	27.12
12/9/2014	1126480	R&B Debris, LLC	NJ-801	NJ AM911G	27.88
12/9/2014	1126481	R&B Debris, LLC	NJ-801	NJ AP500U	28.40
12/9/2014	1126482	R&B Debris, LLC	NJ-801	NJ AR887G	30.29
12/9/2014	1126483	R&B Debris, LLC	NJ-801	NJ AP332T	32.19
12/9/2014	1126484	R&B Debris, LLC	NJ-801	NJ AJ804T	28.37
12/9/2014	1126485	R&B Debris, LLC	NJ-801	NJ AP389S	24.25
12/9/2014	1126486	J & D Trucking, Inc.	NJ-471	NJ AM953Y	24.76
12/9/2014	1126488	JC Transport, Inc.	NJ-883	NJ AP124L	27.72
12/9/2014	1126489	J & D Trucking, Inc.	NJ-471	NJ AJ504T	23.34
12/9/2014	1126487	JC Transport, Inc.	NJ-883	NJ AS121E	25.43
12/9/2014	1126490	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.12
12/9/2014	1126491	J & D Trucking, Inc.	NJ-471	NJ AP736X	28.39
12/9/2014	1126492	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.65
12/9/2014	1126493	JC Transport, Inc.	NJ-883	NJ AS307C	25.98
12/9/2014	1126494	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.09
12/9/2014	1126497	JC Transport, Inc.	NJ-883	NJ AR610G	27.91
12/9/2014	1126495	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.61
12/9/2014	1126496	JC Transport, Inc.	NJ-883	NJ AR611G	24.13
12/11/2014	1126498	R&B Debris, LLC	NJ-801	NJ THD80S	25.91
12/11/2014	1126499	R&B Debris, LLC	NJ-801	NJ AP755Y	27.63
12/11/2014	1264500	R&B Debris, LLC	NJ-801	NJ AM206J	25.01
12/11/2014	1126501	R&B Debris, LLC	NJ-801	NJ AM205J	25.90
12/11/2014	1126502	JC Transport, Inc.	NJ-883	NJ AP395N	25.83
12/11/2014	1126503	JC Transport, Inc.	NJ-883	NJ AP668X	25.14
12/11/2014	1126504	J & D Trucking, Inc.	NJ-471	NJ AK488C	26.73
12/11/2014	1126505	R&B Debris, LLC	NJ-801	NJ AP389S	27.76
12/11/2014	1126506	J & D Trucking, Inc.	NJ-471	NJ AM415P	25.78
12/11/2014	1126427	JC Transport, Inc.	NJ-883	NJ AP124L	26.85
12/11/2014	1126429	JC Transport, Inc.	NJ-883	NJ AP153H	22.54
12/11/2014	1126428	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.15
12/11/2014	1126426	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.49
12/11/2014	1126425	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.47
12/11/2014	1126424	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.04
12/11/2014	1126423	J & D Trucking, Inc.	NJ-471	NJ AJ504T	22.76
12/11/2014	1126422	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.98
12/11/2014	1126421	JC Transport, Inc.	NJ-883	NJ AP395N	22.74

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/11/2014	1126420	JC Transport, Inc.	NJ-883	NJ AP668X	24.92
12/12/2014	1126419	R&B Debris, LLC	NJ-801	NJ THD80S	20.39
12/12/2014	1126418	R&B Debris, LLC	NJ-801	NJ AP500U	27.08
12/12/2014	1126417	JC Transport, Inc.	NJ-883	NJ AP345S	17.09
12/12/2014	1126416	R&B Debris, LLC	NJ-801	NJ AP755Y	27.93
12/12/2014	1126415	JC Transport, Inc.	NJ-883	NJ AP153H	23.27
12/12/2014	1126414	R&B Debris, LLC	NJ-801	NJ AM206J	27.93
12/12/2014	1126413	R&B Debris, LLC	NJ-801	NJ AM205J	26.67
12/12/2014	1126412	R&B Debris, LLC	NJ-801	NJ AK540X	20.28
12/12/2014	1126411	JC Transport, Inc.	NJ-883	NJ AP124L	23.52
12/12/2014	1126408	J & D Trucking, Inc.	NJ-471	NJ AR524B	28.28
12/12/2014	1126409	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.76
12/12/2014	1126410	J & D Trucking, Inc.	NJ-471	NJ AP736X	28.20
12/12/2014	1126407	J & D Trucking, Inc.	NJ-471	NJ AM953Y	23.40
12/12/2014	1126405	J & D Trucking, Inc.	NJ-471	NJ AJ504T	20.81
12/12/2014	1126406	J & D Trucking, Inc.	NJ-471	NJ AK488C	26.57
12/12/2014	1126404	J & D Trucking, Inc.	NJ-471	NJ AP728E	24.11
12/12/2014	1126403	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.49
12/12/2014	1126402	JC Transport, Inc.	NJ-883	NJ AP395N	23.42
12/12/2014	1126400	JC Transport, Inc.	NJ-883	NJ AP668X	26.22
12/15/2014	1126399	JC Transport, Inc.	NJ-883	NJ AS307C	23.28
12/15/2014	1126398	JC Transport, Inc.	NJ-883	NJ AS121E	24.77
12/15/2014	1126397	JC Transport, Inc.	NJ-883	NJ AR610G	23.74
12/15/2014	1126395	JC Transport, Inc.	NJ-883	NJ AP153H	23.00
12/15/2014	1126396	R&B Debris, LLC	NJ-801	NJ THD80S	18.90
12/15/2014	1126394	R&B Debris, LLC	NJ-801	NJ AP755Y	28.13
12/15/2014	1126393	R&B Debris, LLC	NJ-801	NJ AM206J	26.18
12/15/2014	1126392	R&B Debris, LLC	NJ-801	NJ AK540X	27.22
12/15/2014	1126391	R&B Debris, LLC	NJ-801	NJ AM205J	25.20
12/15/2014	1126390	JC Transport, Inc.	NJ-883	NJ AS622A	22.67
12/15/2014	1126389	JC Transport, Inc.	NJ-883	NJ AP395N	25.63
12/15/2014	1126383	JC Transport, Inc.	NJ-883	NJ AP124L	27.63
12/15/2014	1126384	JC Transport, Inc.	NJ-883	NJ AP668X	24.76
12/15/2014	1126386	R&B Debris, LLC	NJ-801	NJ AP500U	28.52
12/15/2014	1126387	R&B Debris, LLC	NJ-801	NJ AL387N	25.59
12/15/2014	1126380	R&B Debris, LLC	NJ-801	NJ AM911G	26.01
12/15/2014	1126401	J & D Trucking, Inc.	NJ-471	NJ AM953Y	24.37
12/15/2014	1126388	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.46
12/15/2014	1126385	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.23
12/15/2014	1126382	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.66
12/15/2014	1126381	J & D Trucking, Inc.	NJ-471	NJ AK488C	27.67
12/15/2014	1126379	J & D Trucking, Inc.	NJ-471	NJ AM119B	26.29
12/15/2014	1126378	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.04
12/15/2014	1126377	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.38
12/15/2014	1126376	J & D Trucking, Inc.	NJ-471	NJ AM415P	25.96
12/15/2014	1126374	JC Transport, Inc.	NJ-883	NJ AS121E	23.74
12/15/2014	1126375	JC Transport, Inc.	NJ-883	NJ AS307C	25.43
12/15/2014	1126373	JC Transport, Inc.	NJ-883	NJ AR610G	23.22
12/15/2014	1126371	JC Transport, Inc.	NJ-883	NJ AP395N	24.52
12/15/2014	1126456	JC Transport, Inc.	NJ-883	NJ AS622A	24.30
12/15/2014	1126372	JC Transport, Inc.	NJ-883	NJ AP668X	22.74
12/15/2014	1126457	JC Transport, Inc.	NJ-883	NJ AP124L	21.94
12/16/2014	1126430	R&B Debris, LLC	NJ-801	NJ AM911G	29.23
12/16/2014	1126431	R&B Debris, LLC	NJ-801	NJ AP332T	24.52
12/16/2014	1126432	R&B Debris, LLC	NJ-801	NJ THD80S	22.13
12/16/2014	1126433	R&B Debris, LLC	NJ-801	NJ AP755Y	21.13

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FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/16/2014	1126434	R&B Debris, LLC	NJ-801	NJ AM206J	25.53
12/16/2014	1126435	R&B Debris, LLC	NJ-801	NJ AM205J	26.25
12/16/2014	1126436	R&B Debris, LLC	NJ-801	NJ AK540X	23.30
12/16/2014	1126437	JC Transport, Inc.	NJ-883	NJ AR611G	22.69
12/16/2014	1126438	J & D Trucking, Inc.	NJ-471	NJ AP736X	25.64
12/16/2014	1126439	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.05
12/16/2014	1126440	R&B Debris, LLC	NJ-801	NJ AN316S	23.51
12/16/2014	1126441	J & D Trucking, Inc.	NJ-471	NJ AR524B	24.90
12/16/2014	1126442	R&B Debris, LLC	NJ-801	NJ AP389S	25.79
12/16/2014	1126443	R&B Debris, LLC	NJ-801	NJ AL387N	26.44
12/16/2014	1126444	R&B Debris, LLC	NJ-801	NJ AP500U	26.00
12/16/2014	1126445	R&B Debris, LLC	NJ-801	NJ AJ804T	28.23
12/16/2014	1126446	J & D Trucking, Inc.	NJ-471	NJ AM953Y	23.37
12/16/2014	1126447	J & D Trucking, Inc.	NJ-471	NJ AM119B	22.29
12/16/2014	1126448	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.82
12/16/2014	1126453	J & D Trucking, Inc.	NJ-471	NJ AJ504T	20.24
12/16/2014	1126452	J & D Trucking, Inc.	NJ-471	NJ AK488C	26.00
12/16/2014	1126451	JC Transport, Inc.	NJ-883	NJ AP124L	24.26
12/16/2014	1126449	JC Transport, Inc.	NJ-883	NJ AP395N	24.73
12/16/2014	1126450	JC Transport, Inc.	NJ-883	NJ AP668X	24.37
12/16/2014	1126337	JC Transport, Inc.	NJ-883	NJ AS121E	25.91
12/16/2014	1126335	JC Transport, Inc.	NJ-883	NJ AS307C	24.51
12/16/2014	1126336	JC Transport, Inc.	NJ-883	NJ AR610G	24.03
12/16/2014	1126333	JC Transport, Inc.	NJ-883	NJ AR611G	26.01
12/16/2014	1126334	JC Transport, Inc.	NJ-883	NJ AS622A	24.62
12/17/2014	1126332	JC Transport, Inc.	NJ-883	NJ AS307C	24.51
12/17/2014	1126327	R&B Debris, LLC	NJ-801	NJ THD80S	16.27
12/17/2014	1126323	JC Transport, Inc.	NJ-883	NJ AP345S	23.05
12/17/2014	1126325	R&B Debris, LLC	NJ-801	NJ AJ804J	26.17
12/17/2014	1126324	R&B Debris, LLC	NJ-801	NJ AP755Y	27.61
12/17/2014	1126322	R&B Debris, LLC	NJ-801	NJ AM206J	27.50
12/17/2014	1126321	R&B Debris, LLC	NJ-801	NJ AM205J	25.25
12/17/2014	1126320	R&B Debris, LLC	NJ-801	NJ AK540X	23.70
12/17/2014	1126326	JC Transport, Inc.	NJ-883	NJ AP124L	26.77
12/17/2014	1126319	R&B Debris, LLC	NJ-801	NJ AP389S	27.78
12/17/2014	1126318	R&B Debris, LLC	NJ-801	NJ AM911G	27.84
12/17/2014	1126317	R&B Debris, LLC	NJ-801	NJ AP500U	26.49
12/17/2014	1126316	R&B Debris, LLC	NJ-801	NJ AP332T	24.02
12/17/2014	1126315	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.49
12/17/2014	1126314	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.45
12/17/2014	1126313	J & D Trucking, Inc.	NJ-471	NJ AP736X	27.03
12/17/2014	1126331	J & D Trucking, Inc.	NJ-471	NJ AR524B	27.15
12/17/2014	1126328	J & D Trucking, Inc.	NJ-471	NJ AK488C	29.07
12/17/2014	1126330	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.96
12/17/2014	1126329	J & D Trucking, Inc.	NJ-471	NJ AJ504T	22.68
12/17/2014	1126312	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.35
12/17/2014	1126310	JC Transport, Inc.	NJ-883	NJ AR611G	25.90
12/17/2014	1126311	JC Transport, Inc.	NJ-883	NJ AS622A	23.42
12/17/2014	1126308	JC Transport, Inc.	NJ-883	NJ AP345S	21.86
12/17/2014	1126309	JC Transport, Inc.	NJ-883	NJ AS307C	25.42
12/17/2014	1126307	JC Transport, Inc.	NJ-883	NJ AP124L	25.66
12/18/2014	1126305	R&B Debris, LLC	NJ-801	NJ THD80S	26.89
12/18/2014	1126304	JC Transport, Inc.	NJ-883	NJ AS121E	25.36
12/18/2014	1126303	JC Transport, Inc.	NJ-883	NJ AP153H	25.25
12/18/2014	1126302	R&B Debris, LLC	NJ-801	NJ AK540X	27.51
12/18/2014	1126301	R&B Debris, LLC	NJ-801	NJ AM205J	26.31

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**FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK**

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/18/2014	1126306	R&B Debris, LLC	NJ-801	NJ AM206J	25.17
12/18/2014	1126300	R&B Debris, LLC	NJ-801	NJ AP755Y	27.24
12/18/2014	1126299	R&B Debris, LLC	NJ-801	NJ AN316S	23.57
12/18/2014	1126298	R&B Debris, LLC	NJ-801	NJ AJ804J	27.59
12/18/2014	1126297	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.40
12/18/2014	1126292	J & D Trucking, Inc.	NJ-471	NJ AK488C	25.76
12/18/2014	1126293	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.14
12/18/2014	1126295	J & D Trucking, Inc.	NJ-471	NJ AM119B	22.19
12/18/2014	1126296	J & D Trucking, Inc.	NJ-471	NJ AP736X	27.47
12/18/2014	1126294	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.21
12/18/2014	1126290	J & D Trucking, Inc.	NJ-471	NJ AJ120G	25.42
12/18/2014	1126291	J & D Trucking, Inc.	NJ-471	NJ AM415P	27.57
12/18/2014	1126289	JC Transport, Inc.	NJ-883	NJ AP345S	24.29
12/18/2014	1126285	JC Transport, Inc.	NJ-883	NJ AS307C	24.01
12/18/2014	1126286	JC Transport, Inc.	NJ-883	NJ AP124L	26.68
12/18/2014	1126287	JC Transport, Inc.	NJ-883	NJ AR611G	23.66
12/18/2014	1126288	JC Transport, Inc.	NJ-883	NJ AS622A	25.16
12/18/2014	1126284	JC Transport, Inc.	NJ-883	NJ AS121E	23.17
12/18/2014	1126283	JC Transport, Inc.	NJ-883	NJ AP153H	22.84
12/19/2014	1126282	JC Transport, Inc.	NJ-883	NJ AP345S	24.34
12/19/2014	1126280	R&B Debris, LLC	NJ-801	NJ THD80S	15.15
12/19/2014	1126281	R&B Debris, LLC	NJ-801	NJ AP755Y	24.65
12/19/2014	1126279	R&B Debris, LLC	NJ-801	NJ AM206J	27.18
12/19/2014	1126278	R&B Debris, LLC	NJ-801	NJ AK540X	25.44
12/19/2014	1126277	R&B Debris, LLC	NJ-801	NJ AM205J	26.33
12/19/2014	1126276	JC Transport, Inc.	NJ-883	NJ AP395N	23.35
12/19/2014	1126275	JC Transport, Inc.	NJ-883	NJ AR611G	23.81
12/19/2014	1126274	JC Transport, Inc.	NJ-883	NJ AP668X	22.29
12/19/2014	1126270	R&B Debris, LLC	NJ-801	NJ AJ804T	27.70
12/19/2014	1126269	R&B Debris, LLC	NJ-801	NJ AM911G	23.48
12/19/2014	1126268	R&B Debris, LLC	NJ-801	NJ AP500U	26.33
12/19/2014	1126273	J & D Trucking, Inc.	NJ-471	NJ AM953Y	21.18
12/19/2014	1126267	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.64
12/19/2014	1126271	J & D Trucking, Inc.	NJ-471	NJ AK807E	25.65
12/19/2014	1126272	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.03
12/19/2014	1126266	J & D Trucking, Inc.	NJ-471	NJ AK488C	26.59
12/19/2014	1126265	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.91
12/19/2014	1126264	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.89
12/19/2014	1126263	J & D Trucking, Inc.	NJ-471	NJ AP728E	21.74
12/19/2014	1126262	JC Transport, Inc.	NJ-883	NJ AS121E	23.26
12/19/2014	1126261	JC Transport, Inc.	NJ-883	NJ AP153H	21.64
12/22/2014	1126455	R&B Debris, LLC	NJ-801	NJ AM911G	27.09
12/22/2014	1126454	JC Transport, Inc.	NJ-883	NJ AR610G	23.25
12/22/2014	1126338	R&B Debris, LLC	NJ-801	NJ AL387N	26.52
12/22/2014	1126339	R&B Debris, LLC	NJ-801	NJ AP500U	27.89
12/22/2014	1126340	JC Transport, Inc.	NJ-883	NJ AP345S	21.61
12/22/2014	1126341	JC Transport, Inc.	NJ-883	NJ AS622A	18.69
12/22/2014	1126342	R&B Debris, LLC	NJ-801	NJ AM206J	30.17
12/22/2014	1126352	JC Transport, Inc.	NJ-883	NJ AP153H	24.40
12/22/2014	1126343	JC Transport, Inc.	NJ-883	NJ AS121E	25.54
12/22/2014	1126344	JC Transport, Inc.	NJ-883	NJ AS307C	25.08
12/22/2014	1126345	JC Transport, Inc.	NJ-883	NJ AP365N	25.46
12/22/2014	1126346	R&B Debris, LLC	NJ-801	NJ AM205J	28.67
12/22/2014	1126347	R&B Debris, LLC	NJ-801	NJ AP755Y	27.81
12/22/2014	1126348	R&B Debris, LLC	NJ-801	NJ AK540X	23.25
12/22/2014	1126349	JC Transport, Inc.	NJ-883	NJ AP124L	24.76

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125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
12/22/2014	1126350	JC Transport, Inc.	NJ-883	NJ AP668X	26.36
12/22/2014	1126351	JC Transport, Inc.	NJ-883	NJ AR611G	23.44
12/22/2014	1126353	R&B Debris, LLC	NJ-801	NJ AR888G	29.47
12/22/2014	1126354	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.54
12/22/2014	1126358	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.89
12/22/2014	1126361	R&B Debris, LLC	NJ-801	NJ AJ804J	28.68
12/22/2014	1126362	R&B Debris, LLC	NJ-801	NJ AP389S	24.22
12/22/2014	1126357	J & D Trucking, Inc.	NJ-471	NJ AJ504T	22.67
12/22/2014	1126359	J & D Trucking, Inc.	NJ-471	NJ AP728E	26.58
12/22/2014	1126356	J & D Trucking, Inc.	NJ-471	NJ AM119B	22.70
12/22/2014	1126355	J & D Trucking, Inc.	NJ-471	NJ AR524B	26.45
12/22/2014	1126360	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.77
12/22/2014	1126363	J & D Trucking, Inc.	NJ-471	NJ AK488C	27.74
12/29/2014	1126365	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.46
12/29/2014	1126364	J & D Trucking, Inc.	NJ-471	NJ AK807E	26.59
12/29/2014	1126367	J & D Trucking, Inc.	NJ-471	NJ AP736X	26.22
12/29/2014	1126366	J & D Trucking, Inc.	NJ-471	NJ AK488C	23.12
12/29/2014	1126368	J & D Trucking, Inc.	NJ-471	NJ AJ201D	25.47
12/29/2014	1126369	J & D Trucking, Inc.	NJ-471	NJ AM954Y	27.00
12/29/2014	1126370	J & D Trucking, Inc.	NJ-471	NJ AN353U	26.30
12/29/2014	1126170	J & D Trucking, Inc.	NJ-471	NJ AP524B	26.57
12/29/2014	1126171	J & D Trucking, Inc.	NJ-471	NJ AM415P	26.39
12/29/2014	1126173	J & D Trucking, Inc.	NJ-471	NJ AM119B	23.14
12/29/2014	1126172	J & D Trucking, Inc.	NJ-471	NJ AP727E	23.77
12/29/2014	1126174	J & D Trucking, Inc.	NJ-471	NJ AJ137N	23.34
12/29/2014	1126175	J & D Trucking, Inc.	NJ-471	NJ AP303S	25.38
12/29/2014	1126176	J & D Trucking, Inc.	NJ-471	NJ AJ184R	22.10
12/30/2014	1126178	JC Transport, Inc.	NJ-883	NJ AP345S	24.57
12/30/2014	1126177	JC Transport, Inc.	NJ-883	NJ AP153H	24.27
12/30/2014	1126179	JC Transport, Inc.	NJ-883	NJ AP668X	25.27
12/30/2014	1126180	JC Transport, Inc.	NJ-883	NJ AR610G	26.48
12/30/2014	1126181	J & D Trucking, Inc.	NJ-471	NJ AJ504T	21.26
12/30/2014	1126182	J & D Trucking, Inc.	NJ-471	NJ AP728E	18.45
12/31/2014	1126183	JC Transport, Inc.	NJ-883	NJ AP345S	20.34
12/31/2014	1126184	JC Transport, Inc.	NJ-883	NJ AS121E	23.17
12/31/2014	1126185	JC Transport, Inc.	NJ-883	NJ AS307C	22.60
12/31/2014	1126186	J & D Trucking, Inc.	NJ-471	NJ AJ504T	20.40
12/31/2014	1126188	JC Transport, Inc.	NJ-883	NJ AR611G	21.98
12/31/2014	1126187	J & D Trucking, Inc.	NJ-471	NJ AP728E	23.25
2014 Waste Shipment Subtotal:					14,989.24
1/2/2015	1126192	J & D Trucking, Inc.	NJ-471	NJ AM954Y	26.28
1/2/2015	1126191	J & D Trucking, Inc.	NJ-471	NJ AN353U	26.42
1/2/2015	1126190	J & D Trucking, Inc.	NJ-471	NJ AJ504T	19.21
1/2/2015	1126189	J & D Trucking, Inc.	NJ-471	NJ AM119B	24.02
1/2/2015	1126193	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.69
1/5/2015	1126194	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.00
1/5/2015	1126195	J & D Trucking, Inc.	NJ-471	NJ AJ504T	19.43
1/5/2015	1126196	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.07
1/6/2015	1126197	JC Transport, Inc.	NJ-883	NJ AS622A	20.47
1/6/2015	1126198	JC Transport, Inc.	NJ-883	NJ AR610G	22.42
1/6/2015	1126199	JC Transport, Inc.	NJ-883	NJ AP345S	23.69
1/6/2015	1126200	JC Transport, Inc.	NJ-883	NJ AP668X	22.96
1/6/2015	1126201	JC Transport, Inc.	NJ-883	NJ AP153H	23.26
1/6/2015	1126202	J & D Trucking, Inc.	NJ-471	NJ AM953Y	19.07
1/6/2015	1126203	J & D Trucking, Inc.	NJ-471	NJ AN353U	27.27
1/6/2015	1126204	J & D Trucking, Inc.	NJ-471	NJ AM119B	25.90

9/25/2017

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TABLE 7
NON-HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	WasteTransporter	Waste Transporter Permit No.	Permitted Vehicle	Quantity (Tons)
1/7/2015	1126205	R&B Debris, LLC	NJ-801	NJ AP755Y	26.12
1/7/2015	1126206	J & D Trucking, Inc.	NJ-471	NJ AR524B	25.43
1/7/2015	1126207	JC Transport, Inc.	NJ-883	NJ AS622A	25.62
1/7/2015	1126208	JC Transport, Inc.	NJ-883	NJ AR610G	23.62
1/7/2015	1126209	JC Transport, Inc.	NJ-883	NJ AR611G	23.91
1/7/2015	1126210	JC Transport, Inc.	NJ-883	NJ AP668X	25.78
1/7/2015	1126211	JC Transport, Inc.	NJ-883	NJ AP124L	26.22
1/7/2015	1126212	JC Transport, Inc.	NJ-883	NJ AP153H	22.31
1/7/2015	1126213	JC Transport, Inc.	NJ-883	NJ AS307C	23.72
1/7/2015	1126214	R&B Debris, LLC	NJ-801	NJ AM206J	25.86
1/7/2015	1126215	J & D Trucking, Inc.	NJ-471	NJ AM953Y	23.23
1/7/2015	1126216	JC Transport, Inc.	NJ-883	NJ AP345S	23.89
1/7/2015	1126218	JC Transport, Inc.	NJ-883	NJ AS121E	25.45
1/7/2015	1126219	R&B Debris, LLC	NJ-801	NJ AK540X	21.91
1/7/2015	1126220	Costa Haulers LLC	NJ-923	NJ AP215Z	21.72
1/7/2015	1126221	R&B Debris, LLC	NJ-801	NJ AR887G	22.83
1/7/2015	1126217	J & D Trucking, Inc.	NJ-471	NJ AP728E	22.47
1/7/2015	1126222	R&B Debris, LLC	NJ-801	NJ AP389S	27.59
1/7/2015	1126223	R&B Debris, LLC	NJ-801	NJ AP332T	26.65
1/7/2015	1126224	R&B Debris, LLC	NJ-801	NJ AL387N	27.09
1/7/2015	1126225	R&B Debris, LLC	NJ-801	NJ AR888G	24.25
2014 Waste Shipment Subtotal:					879.83
Total Waste Shipment:					32,595.84

Notes:

1. All non-hazardous waste solids transported offsite during the Phase 1 Operable Unit 4 (OU4) Remedial Action between April 9, 2013 and June 13, 2013 were disposed of at the Brookhaven Township Landfill located in Yaphank, New York.
2. All non-hazardous waste solids transported offsite during the Phase 2 OU4 Remedial Action between November 3, 2014 and January 7, 2015 were disposed of at the Gloucester County Landfill located in Swedesboro, New Jersey.

TABLE 8
HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	Waste Transporter	Waste Transporter Permit No.	License	Quantity (Tons)
5/10/2013	010278729JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	19.91
5/10/2013	010278730JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	19.91
5/10/2013	010278731JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	20.47
5/10/2013	010278732JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	20.47
5/10/2013	010278733JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	19.02
5/10/2013	010278734JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	24.41
5/10/2013	010278735JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	24.41
5/10/2013	010278736JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	19.44
5/10/2013	010278737JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	19.44
5/10/2013	010278738JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	21.73
5/11/2013	010278739JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	19.20
5/11/2013	010278740JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	19.40
5/11/2013	010278741JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	19.40
5/11/2013	010278742JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	19.97
5/11/2013	010278743JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	18.97
5/11/2013	010278744JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	18.77
5/11/2013	010278745JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	18.77
5/11/2013	010278746JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	20.25
5/11/2013	010278747JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	20.25
5/11/2013	010278748JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	24.17
5/14/2013	010278749JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	19.50
5/14/2013	010278750JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	23.00
5/14/2013	010278751JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	23.00
5/14/2013	010278752JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	15.18
5/14/2013	010278753JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	15.18
5/14/2013	010278754JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	19.09
5/14/2013	010278755JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	20.63
5/14/2013	010278756JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	20.63
5/14/2013	010278757JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	19.91
5/14/2013	010278758JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	19.91
5/15/2013	010278759JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	21.68
5/15/2013	010278760JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	21.68
5/15/2013	010278761JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	20.74
5/15/2013	010278762JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	20.74
5/15/2013	010278763JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	19.63
5/15/2013	010278764JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	19.60
5/15/2013	010278765JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	19.60
5/15/2013	010278766JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	20.68
5/15/2013	010278767JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	20.94
5/15/2013	010278768JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	19.40
5/16/2013	010278814JJK	J & D Trucking, Inc	NJR 000 029 967	AN569X	19.99
5/16/2013	010278815JJK	J & D Trucking, Inc	NJR 000 029 967	AL104U	21.44
5/16/2013	010278816JJK	J & D Trucking, Inc	NJR 000 029 967	AN570X	21.44
5/16/2013	010278817JJK	J & D Trucking, Inc	NJR 000 029 967	AM740D	21.49
5/16/2013	010218818JJK	J & D Trucking, Inc	NJR 000 029 967	AJ504T	21.49
2013 Waste Shipment Subtotal:					914.85
12/1/2014	002580662GBF	Horwith Trucks	NY305303	XHH4451	22.34
12/1/2014	002580663GBF	Horwith Trucks	NY305303	PT7831L	24.15
12/1/2014	002580664GBF	Horwith Trucks	NY305303	PT7048W	23.46
12/1/2014	002580665GBF	Horwith Trucks	NY305303	XHH4450	22.73
12/1/2014	002580666GBF	Horwith Trucks	NY305303	PT1122M	24.35
12/2/2014	002580560GBF	Horwith Trucks	NY305303	XDY1958	23.05
12/2/2014	002580561GBF	Horwith Trucks	NY305303	PT2537H	24.36
12/2/2014	002580562GBF	Horwith Trucks	NY305303	PT2531V	24.65
12/3/2014	002580563GBF	Horwith Trucks	NY305303	XHW1507	23.82
12/3/2014	002580564GBF	Horwith Trucks	NY305303	PT7048W	25.26
12/3/2014	002580565GBF	Horwith Trucks	NY305303	XGR6356	22.10
12/3/2014	002580566GBF	Horwith Trucks	NY305303	PT2530V	21.52
12/3/2014	002580567GBF	Horwith Trucks	NY305303	XHH4450	24.02
12/3/2014	002580568GBF	Horwith Trucks	NY305303	PT7831L	25.18
12/4/2014	002580569GBF	Horwith Trucks	NY305303	XDY1958	24.83
12/4/2014	002580570GBF	Horwith Trucks	NY305303	PT2537H	24.52
12/4/2014	002580571GBF	Horwith Trucks	NY305303	XGR6356	23.16
12/4/2014	002580572GBF	Horwith Trucks	NY305303	PT2531V	24.09
12/4/2014	002580573GBF	Horwith Trucks	NY305303	XHF2405	23.28
12/4/2014	002580578GBF	Horwith Trucks	NY305303	XHH4451	23.16
12/4/2014	002580574GBF	Horwith Trucks	NY305303	PT1122M	23.66
12/5/2014	002580576GBF	Horwith Trucks	NY305303	XHW1507	24.34
12/5/2014	002580577GBF	Horwith Trucks	NY305303	XDY9509	24.65

TABLE 8
HAZARDOUS WASTE TRANSPORTATION AND DISPOSAL SUMMARY

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Offsite Transport Date	Manifest No.	Waste Transporter	Waste Transporter Permit No.	License	Quantity (Tons)
12/5/2014	002580579GBF	Horwith Trucks	NY305303	XGR6356	22.23
12/8/2014	002580580GBF	Horwith Trucks	NY305303	XDY1958	24.35
12/8/2014	002580581GBF	Horwith Trucks	NY305303	XHF2405	24.02
12/8/2014	002580582GBF	Horwith Trucks	NY305303	PT2531V	24.29
12/8/2014	002580583GBF	Horwith Trucks	NY305303	XGR6350	22.78
12/8/2014	002580584GBF	Horwith Trucks	NY305303	PT1122M	23.04
12/9/2014	002580585GBF	Horwith Trucks	NY305303	XHW1507	24.17
12/9/2014	002580586GBF	Horwith Trucks	NY305303	XGR6351	24.00
12/9/2014	002580587GBF	Horwith Trucks	NY305303	XGR6356	19.79
12/9/2014	002580588GBF	Horwith Trucks	NY305303	XCN5050	25.05
12/15/2014	002580591GBF	Horwith Trucks	NY305303	XDY1958	24.27
12/15/2014	002580595GBF	Horwith Trucks	NY305303	XGR6351	22.96
12/15/2014	002580596GBF	Horwith Trucks	NY305303	PT2531V	24.44
12/17/2014	002580599GBF	Horwith Trucks	NY305303	PT7048W	24.98
12/17/2014	002580600GBF	Horwith Trucks	NY305303	PT2531V	25.38
12/17/2014	002580610GBF	Horwith Trucks	NY305303	PT2530V	20.56
12/18/2014	002580601GBF	Horwith Trucks	NY305303	XHH4451	19.26
12/19/2014	002580602GBF	Horwith Trucks	NY305303	PT7831L	24.31
12/19/2014	002580603GBF	Horwith Trucks	NY305303	PT2531V	24.08
12/19/2014	002580604GBF	Horwith Trucks	NY305303	PT2537H	22.90
12/19/2014	002580605GBF	Horwith Trucks	NY305303	PT7048W	22.96
12/19/2014	002580606GBF	Horwith Trucks	NY305303	XCN5050	23.71
12/22/2014	002580607GBF	Horwith Trucks	NY305303	XDY1958	23.91
12/22/2014	002580608GBF	Horwith Trucks	NY305303	XGR6350	23.95
12/23/2014	002580613GBF	Horwith Trucks	NY305303	XCN5050	24.66
12/23/2014	002580609GBF	Horwith Trucks	NY305303	PT7831L	24.83
12/23/2014	002580612GBF	Horwith Trucks	NY305303	XDY9509	23.78
12/23/2014	002580611GBF	Horwith Trucks	NY305303	PT2537H	25.38
12/23/2014	002580621GBF	Horwith Trucks	NY305303	PT7048W	22.03
12/23/2014	002580614GBF	Horwith Trucks	NY305303	AG08583	21.77
12/29/2014	002580615GBF	Horwith Trucks	NY305303	XCN5050	24.49
12/29/2014	002580616GBF	Horwith Trucks	NY305303	PT7831L	25.19
12/29/2014	002580617GBF	Horwith Trucks	NY305303	PT1122M	24.05
12/30/2014	002580618GBF	Horwith Trucks	NY305303	PT2537H	24.80
12/30/2014	002580619GBF	Horwith Trucks	NY305303	PT7048W	22.88
12/30/2014	002580620GBF	Horwith Trucks	NY305303	PT2530V	22.00
12/30/2014	002580622GBF	Horwith Trucks	NY305303	XHH4450	23.02
2014 Waste Shipment Subtotal:					1,416.95
1/2/2015	002580623GBF	Horwith Trucks	NY305303	XGR6350	23.52
1/2/2015	002580624GBF	Horwith Trucks	NY305303	XGR4680	24.33
1/2/2015	002580625GBF	Horwith Trucks	NY305303	PT2531V	24.45
1/2/2015	002580626GBF	Horwith Trucks	NY305303	PT2530V	22.05
1/2/2015	002580628GBF	Horwith Trucks	NY305303	PT2537H	23.80
1/5/2015	002580629GBF	Horwith Trucks	NY305303	PT7831L	24.39
1/5/2015	002580630GBF	Horwith Trucks	NY305303	XCN5050	24.50
1/5/2015	002580631GBF	Horwith Trucks	NY305303	XDY1958	24.29
1/5/2015	002580632GBF	Horwith Trucks	NY305303	XGR6351	24.62
1/5/2015	002580633GBF	Horwith Trucks	NY305303	PT1122M	24.46
1/5/2015	002580634GBF	Horwith Trucks	NY305303	PT7831L	23.52
1/6/2015	002580635GBF	Horwith Trucks	NY305303	XGR6350	24.01
1/6/2015	002580636GBF	Horwith Trucks	NY305303	PT2531V	24.91
2015 Waste Shipment Subtotal:					312.85
Total Waste Shipment:					2,644.65

Notes:

1. All hazardous waste solids transported offsite during the Phase 1 Operable Unit 4 (OU4) Remedial Action between May 10, 2013 and May 16, 2013 were disposed of at the Wayne Disposal, Inc. facility located in Belleville, Michigan.
2. All hazardous waste solids transported offsite during the Phase 2 OU4 Remedial Action between December 1, 2014 and January 6, 2015 were disposed of at the CWM Chemical Services, LLC landfill in Model City, New York.

TABLE 9
VERIFICATION SOIL ANALYTICAL RESULTS FOR DETECTED PCBs (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID	Depth (Feet)	Date Collected	Total PCBs
Sampling Locations in Administration Building Footprint (Following Slab Removal)			
SB-337	0 - 0.2	12/10/2014	0.170
SB-338	0 - 0.2	12/10/2014	<0.0740
SB-339	0 - 0.2	12/10/2014	<0.0770
SB-340	0 - 0.2	12/10/2014	0.0300 J
SB-341	0 - 0.2	12/10/2014	0.0210 J [0.0420]
SB-342	0 - 0.2	12/10/2014	0.0300 J
Sampling Locations Along Shared Property Boundary with Long Island Railroad			
V-RD-243F	0 - 0.2	12/3/2014	2.08
	0.5 - 2	12/3/2014	0.576
	2 - 4	12/3/2014	<0.0178
V-RD-243G	0 - 0.2	12/3/2014	1.52
	0.5 - 2	12/3/2014	0.0838
	2 - 4	12/3/2014	<0.0171 [<0.0173]
V-RD-243H	0 - 0.2	12/3/2014	0.327
	0.5 - 2	12/3/2014	0.174
	2 - 4	12/3/2014	0.267
Sampling Locations in Plant 3 Footprint (Following Staging Area Removal)			
V-RD-274	1 - 2	1/2/2015	<0.0790
	2 - 4	1/2/2015	<0.0670
V-RD-275	1 - 2	12/19/2014	<0.0820
	2 - 4	12/19/2014	<0.0690
V-RD-276	1 - 2	12/12/2014	<0.0770 [<0.0760]
	2 - 4	12/12/2014	<0.0680
V-RD-277	1 - 2	1/2/2015	<0.0790
	2 - 4	1/2/2015	<0.0690
V-RD-278	1 - 2	12/19/2014	0.170
	2 - 4	12/19/2014	<0.0680
V-RD-279	1 - 2	12/12/2014	0.0840
	2 - 4	12/12/2014	0.0340 J
Sampling Locations in Southeast Corner of Site (Near Former Tank Farm)			
V-RD-280	0 - 0.2	9/10/2014	8.25 [6.51]
	0.5 - 2	9/10/2014	<0.0710
V-RD-281	0 - 0.2	9/10/2014	11.8
	0.5 - 2	9/10/2014	0.192 J
V-RD-282	1 - 2	9/10/2014	<0.0690
V-RD-283	0 - 0.2	9/10/2014	1.20
	0.5 - 2	9/10/2014	<0.0700

Notes:

1. Samples were collected by Arcadis on the dates indicated.
2. PCBs = Polychlorinated biphenyls.
3. Samples were analyzed for PCBs using United States Environmental Protection Agency (USEPA) Method 8082 by PACE Analytical Melville New York.
4. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
5. Data qualifiers are defined as follows:
J - Indicates that the associated numerical value is an estimated concentration.
< - No Aroclors were detected above the reported detection limit.
6. Shading indicates that the result exceeds the 10 ppm PCB subsurface soil cleanup level presented in the New York State Department of Environmental Conservation (NYSDEC) document titled "CP-51 / Soil Cleanup Guidance", dated October 21, 2010.
7. - = No cleanup level applicable.
8. Soil was removed to a depth of 1 foot below surrounding ground surface from location V-RD-281 to address PCBs in soil at concentrations greater than the 10 ppm subsurface soil cleanup level.

TABLE 10
VERIFICATION SOIL ANALYTICAL RESULTS FOR DETECTED VOCs, SVOCs, AND METALS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth(Feet): Date Collected:	Commercial SCOs	SB-337 0 - 0.2 12/10/14	SB-338 0 - 0.2 12/10/14	SB-339 0 - 0.2 12/10/14	SB-340 0 - 0.2 12/10/14	SB-341 0 - 0.2 12/10/14	SB-342 0 - 0.2 12/10/14
VOCs							
1,3,5-Trimethylbenzene	- -	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,1,1-Trichloroethane	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,1-Dichloroethane	240	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,1-Dichloroethene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,2,4-Trimethylbenzene	190	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,2-Dichlorobenzene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,2-Dichloroethane	30	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,3-Dichlorobenzene	280	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
1,4-Dioxane	130	<0.110 J	<0.0960 J	<0.110 J	<0.120 J	<0.0910 J [<0.0980 J]	<0.110 J
1,4-Dichlorobenzene	130	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
2-Butanone (MEK)	500	0.00100 J	0.00200 J	0.00200 J	0.00200 J	0.00200 J [0.00200 J]	0.00200 J
Acetone	500	<0.0150 BJ	<0.0190 BJ	<0.0240 BJ	<0.0120 BJ	<0.0180 BJ [<0.0140 BJ]	<0.0220 BJ
Benzene	44	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Carbon tetrachloride	22	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Chlorobenzene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Chloroform	350	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
cis-1,2-Dichloroethene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Ethylbenzene	- -	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Methyl tert-butyl ether	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Methylene chloride	500	<0.00400 J	<0.00400 J	<0.00400 J	<0.00500 J	<0.00400 J [<0.00400 J]	<0.00400 J
n-Butylbenzene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
n-Propylbenzene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
sec-Butylbenzene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
tert-Butylbenzene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Tetrachloroethene	150	<0.00400	0.00200 J	<0.00400	0.000900 J	0.00100 J [0.00200 J]	0.00100 J
Toluene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
trans-1,2-Dichloroethene	500	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Vinyl chloride	13	<0.00400	<0.00400	<0.00400	<0.00500	<0.00400 [<0.00400]	<0.00400
Xylenes (total)	500	<0.00400	<0.00400	0.00200 J	<0.00500	<0.00400 [0.00200 J]	<0.00400
SVOCs							
Acenaphthene	500	<0.390	<0.360	0.160 J	<0.380	<0.380 [<0.380]	<0.400
Acenaphthylene	500	<0.390	<0.360	<0.380	<0.380	<0.380 [<0.380]	<0.400
Benzo(a)anthracene	5.6	<0.390	<0.360	0.840	<0.380	<0.380 [<0.380]	<0.400
Benzo(a)pyrene	1	<0.390	<0.360	0.390	<0.380	<0.380 [<0.380]	<0.400
Benzo(b)fluoranthene	5.6	<0.390	<0.360	0.540	<0.380	<0.380 [<0.380]	<0.400
Benzo(ghi)perylene	500	<0.390	<0.360	0.130 J	<0.380	<0.380 [<0.380]	<0.400
Benzo(k)fluoranthene	56	<0.390	<0.360	0.180 J	<0.380	<0.380 [<0.380]	<0.400
Chrysene	56	<0.390	<0.360	0.710	<0.380	<0.380 [<0.380]	<0.400
Cresol (o)	500	<0.260	<0.240	<0.250	<0.250	<0.250 [<0.250]	<0.270
Cresol (p)	500	<0.260	<0.240	<0.250	<0.250	<0.250 [<0.250]	<0.270
Dibenzo(a,h)anthracene	0.56	<0.390	<0.360	<0.380	<0.380	<0.380 [<0.380]	<0.400
Fluoranthene	500	<0.390	<0.360	2.30	<0.380	<0.380 [<0.380]	<0.400
Fluorene	500	<0.390	<0.360	0.210 J	<0.380	<0.380 [<0.380]	<0.400
Hexachlorobenzene	6	<0.260	<0.240	<0.250	<0.250	<0.250 [<0.250]	<0.270
Indeno(1,2,3-cd)pyrene	5.6	<0.390	<0.360	0.140 J	<0.380	<0.380 [<0.380]	<0.400
Naphthalene	500	<0.390	<0.360	<0.380	<0.380	<0.380 [<0.380]	<0.400
Pentachlorophenol	6.7	<0.650	<0.610	<0.630	<0.630	<0.630 [<0.630]	<0.660
Phenanthrene	500	<0.390	<0.360	1.70	<0.380	<0.380 [<0.380]	<0.400
Phenol	500	<0.260	<0.240	<0.250	<0.250	<0.250 [<0.250]	<0.270
Pyrene	500	<0.390	<0.360	1.70	<0.380	<0.380 [<0.380]	<0.400
Total PAHs	- -	<2.93	<2.70	9.57 J	<2.85	<2.85 [<2.85]	<3.00

TABLE 10
VERIFICATION SOIL ANALYTICAL RESULTS FOR DETECTED VOCs, SVOCs, AND METALS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth(Feet): Date Collected:	Commercial SCOs	SB-337 0 - 0.2 12/10/14	SB-338 0 - 0.2 12/10/14	SB-339 0 - 0.2 12/10/14	SB-340 0 - 0.2 12/10/14	SB-341 0 - 0.2 12/10/14	SB-342 0 - 0.2 12/10/14
Metals							
Arsenic	16	6.50	5.30	10.7	6.40	5.40 [5.90]	8.40
Barium	400	32.4 J	21.5 J	26.5 J	32.1 J	24.6 J [23.7 J]	18.3 J
Beryllium	590	0.380 B	0.250 B	0.240 B	0.300 B	0.250 B [0.250 B]	0.230 B
Cadmium	9.3	2.70	1.80	2.30	2.10	1.90 [2.10]	1.80
Chromium	- -	19.7	12.1	14.6	15.0	12.5 [15.0]	11.7
Chromium, hexavalent	400	<1.16	<1.10	<1.19	<1.10	<1.16 [<1.11]	<1.20
Chromium, trivalent	1,500	19.7	12.1	14.6	15.0	12.5 [15.0]	11.7
Copper	270	14.3	11.3	19.1	13.2	13.7 [13.0]	16.4
Lead	1,000	28.6 J	18.4 J	41.8 J	14.3 J	116 J [1,110 J]	23.8 J
Manganese	10,000	179 J	115 J	139 J	114 J	127 J [150 J]	149 N
Mercury	2.8	0.190	0.0700	0.160	0.130	0.140 [0.130]	0.130
Nickel	310	8.30	5.30	6.00	7.30	5.70 [5.20]	4.20 B
Selenium	1,500	<0.280	<0.260	<0.270	<0.270	<0.270 [<0.270]	<0.290
Silver	1,500	<0.0350 J	<0.0330 J	<0.0340 J	<0.0340 J	<0.0340 J [<0.0340 J]	<0.0360 J
Zinc	10,000	32.5	24.8	41.9	22.0	25.0 [22.9]	21.0

Notes:

- Samples were collected by Arcadis on the date indicated.
- VOCs = Volatile Organic Compounds.
- SVOCs = Semi-Volatile Organic Compounds.
- PAHs = Polycyclic Aromatic Hydrocarbons.
- Samples were analyzed by Pace Analytical Services, Inc. located in Melville, New York for:
 - VOCs using United States Environmental Protection Agency (USEPA) SW-846 Method 8260.
 - SVOCs using USEPA SW-846 Method 8270.
 - Metals using USEPA SW-846 Methods 6010, 7196, 7471 and 9014.
- All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
- Data qualifiers are defined as follows:
 - < - Constituent not detected at a concentration above the reported detection limit.
 - B - The compound has been found in the sample as well as its associated blank.
 - J - Indicates that the associated numerical value is an estimated concentration.
- Commercial soil cleanup objectives (SCOs) are from Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b).
- Shading indicates that the result exceeds the commercial SCO.
- - = No commercial SCO listed in 6 NYCRR Part 375.
- Total PAHs were calculated as the sum of the following, which is consistent with the NYSDEC list from: <http://www.dec.ny.gov/chemical/24922.html>:

2-Methylnaphthalene	Benzo(b)flu	Fluorene
Acenaphthene	Benzo(g,h,i	Indeno(1,2,3-cd)pyrene
Acenaphthylene	Benzo(k)flu	Naphthalene
Anthracene	Chrysene	Phenanthrene
Benzo(a)anthracene	Dibenzo(a,l	Pyrene
Benzo(a)pyrene	Fluoranthene	

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	AOC3-3 0 - 1 02/12/04	AOC3-4 0 - 1 02/12/04	P1-S17 0 - 0.2 05/03/06	P1-S17 2 - 2.5 05/03/06	P1-S18 0 - 0.2 05/03/06	P1-S18 2 - 2.5 05/03/06	P1-S19 0 - 0.2 05/03/06	P1-S19 2 - 2.5 05/03/06	P1-S20 0 - 0.2 05/03/06	P1-S20 2 - 2.5 05/03/06	P1-S21 0 - 0.2 05/03/06	P1-S21 2 - 2.5 05/03/06	P1-S22 0 - 0.2 05/03/06	P1-S23 0 - 0.2 05/03/06
PCBs															
Total PCBs	1	NA	NA	8.79	1.35 J	1.66 [1.23 J]	0.280 J	2.92	0.455 J	0.296 [1.27 J]	0.310	1.45 J	0.452	<0.0350 [0.0640]	1.00 J
VOCs															
1,1,1-Trichloroethane	500	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
1,1,2,2-Tetrachloroethane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
1,1,2-Trichloroethane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
1,1-Dichloroethane	240	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
1,1-Dichloroethene	500	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
1,2-Dichloroethane	30	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
1,2-Dichloropropane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
2-Butanone (MEK)	500	<0.0230 J	0.0110 J	<0.0100	NA	<0.0110 [<0.0110]	NA	<0.0110	NA	<0.0120 [<0.0110]	NA	<0.0110	NA	<0.0560 [<0.580]	<0.0110
2-Hexanone	--	<0.0230 J	<0.0120	<0.0100	NA	<0.0110 [<0.0110]	NA	<0.0110	NA	<0.0120 [<0.0110]	NA	<0.0110	NA	<0.0560 [<0.580]	<0.0110
4-Methyl-2-pentanone (MIBK)	--	<0.0230	<0.0120	<0.0100	NA	<0.0110 [<0.0110]	NA	<0.0110	NA	<0.0120 [<0.0110]	NA	<0.0110	NA	<0.0560 [<0.580]	<0.0110
Acetone	500	0.380 J	0.0810 J	0.00720 JB	NA	0.0250 B [0.00680 J]	NA	0.00730 JB	NA	0.00890 JB [0.00780 J]	NA	0.00450 JB	NA	0.950 B [2.10]	0.00790 JB
Benzene	44	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Bromodichloromethane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Bromoform	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Bromomethane	--	<0.0120 J	<0.00600 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Carbon disulfide	--	0.00500 J	0.000900 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Carbon tetrachloride	22	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Chlorobenzene	500	<0.0120	<0.00600 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Chloroethane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Chloroform	350	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Chloromethane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
cis-1,2-Dichloroethene	500	0.0410	0.0400	<0.00520	NA	<0.00530 [<0.00530]	NA	0.00510 J	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
cis-1,3-Dichloropropene	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Dibromochloromethane	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Ethylbenzene	--	<0.0120	<0.00600 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Methylene chloride	500	<0.0120	<0.00600	0.00620 JB	NA	0.00580 JB [0.00370 JB]	NA	0.00640 JB	NA	0.00770 JB [0.00380 JB]	NA	0.00990 JB	NA	0.0380 JB [<0.580]	0.00670 JB
Styrene	--	<0.0120	<0.00600 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Tetrachloroethene	150	0.0130	0.0460 J	0.00130 J	NA	0.0800 [0.0290]	NA	0.0320	NA	0.00730 [0.00710]	NA	0.00450 J	NA	<0.0280 [<0.580]	0.00530 J
Toluene	500	0.0240	0.0500 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
trans-1,2-Dichloroethene	500	0.00700 J	0.000700 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
trans-1,3-Dichloropropene	--	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Trichloroethene	200	0.00100 J	0.0120	<0.00520	NA	0.00210 J [0.000800 JM]	NA	0.00320 J	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Vinyl chloride	13	0.000800 J	0.00200 J	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Xylenes (total)	500	<0.0120	<0.00600	<0.00520	NA	<0.00530 [<0.00530]	NA	<0.00540	NA	<0.00580 [<0.00570]	NA	<0.00570	NA	<0.0280 [<0.580]	<0.00530
Total VOCs	--	0.472 J	0.244 J	0.0517 J	NA	0.151 J [0.0403 J]	NA	0.0570 J	NA	0.0239 J [0.0187 J]	NA	0.0649 J	NA	1.22 J [2.43]	0.0439 J

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	AOC3-3 0 - 1 02/12/04	AOC3-4 0 - 1 02/12/04	P1-S17 0 - 0.2 05/03/06	P1-S17 2 - 2.5 05/03/06	P1-S18 0 - 0.2 05/03/06	P1-S18 2 - 2.5 05/03/06	P1-S19 0 - 0.2 05/03/06	P1-S19 2 - 2.5 05/03/06	P1-S20 0 - 0.2 05/03/06	P1-S20 2 - 2.5 05/03/06	P1-S21 0 - 0.2 05/03/06	P1-S21 2 - 2.5 05/03/06	P1-S22 0 - 0.2 05/03/06	P1-S23 0 - 0.2 05/03/06
SVOCs															
1,2,4-Trichlorobenzene	--	<0.370	<0.390 J	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
1,2-Dichlorobenzene	500	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
1,3-Dichlorobenzene	280	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
1,4-Dichlorobenzene	130	<0.370	<0.390 J	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2,2-oxybis (1-chloropropane)	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2,4,5-Trichlorophenol	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
2,4,6-Trichlorophenol	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2,4-Dichlorophenol	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2,4-Dimethylphenol	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2,4-Dinitrophenol	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
2,4-Dinitrotoluene	--	<0.370	<0.390 J	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2,6-Dinitrotoluene	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2-Chloronaphthalene	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2-Chlorophenol	--	<0.370	<0.390 J	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2-Methylnaphthalene	--	<0.370	<0.390	NA	NA	<0.700 [0.0590 J]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
2-Nitroaniline	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
2-Nitrophenol	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
3,3-Dichlorobenzidine	--	<0.750	<0.780	NA	NA	<1.40 [<0.680]	NA	NA	NA	<0.750 [<0.740]	NA	NA	NA	<0.720 [<0.750]	NA
3-Nitroaniline	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
4,6-Dinitro-2-methylphenol	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
4-Bromophenyl phenyl ether	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
4-Chloro-3-methylphenol	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
4-Chloroaniline	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
4-Chlorophenyl phenyl ether	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
4-Nitroaniline	--	<0.750	<0.780	NA	NA	<1.40 [<0.680]	NA	NA	NA	<0.750 [<0.740]	NA	NA	NA	<0.720 [<0.750]	NA
4-Nitrophenol	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
Acenaphthene	500	<0.370	<0.390	NA	NA	<0.700 [0.180 J]	NA	NA	NA	<0.370 [0.160 J]	NA	NA	NA	<0.360 [<0.380]	NA
Acenaphthylene	500	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Anthracene	500	0.0170 J	<0.390	NA	NA	0.150 J [0.340]	NA	NA	NA	0.140 J [0.290 J]	NA	NA	NA	<0.360 [<0.380]	NA
Benzo(a)anthracene	5.6	0.0520 J	<0.390	NA	NA	0.590 J [0.740]	NA	NA	NA	0.750 [1.20]	NA	NA	NA	0.290 J [0.100 J]	NA
Benzo(a)pyrene	1	0.0330 J	<0.390	NA	NA	0.600 J [0.650]	NA	NA	NA	0.750 [1.10]	NA	NA	NA	0.270 J [0.0980 J]	NA
Benzo(b)fluoranthene	5.6	0.0490 J	<0.390	NA	NA	0.780 [0.660]	NA	NA	NA	0.980 [1.60]	NA	NA	NA	0.400 [0.130 J]	NA
Benzo(ghi)perylene	500	<0.370	<0.390	NA	NA	0.510 J [0.600]	NA	NA	NA	0.770 [1.10]	NA	NA	NA	0.300 J [0.0710 J]	NA
Benzo(k)fluoranthene	56	0.0470 J	<0.390	NA	NA	0.250 J [0.290 J]	NA	NA	NA	0.450 [0.600]	NA	NA	NA	0.170 J [0.0540 J]	NA
Benzoic acid	--	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
Benzyl alcohol	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Bis(2-chloroethoxy)methane	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Bis(2-chloroethyl)ether	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Bis(2-ethylhexyl)phthalate	--	<0.370 J	<0.390 J	NA	NA	4.40 B [5.00]	NA	NA	NA	0.640 B [0.490]	NA	NA	NA	0.760 B [0.0570 J]	NA
Butyl benzyl phthalate	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	AOC3-3 0 - 1 02/12/04	AOC3-4 0 - 1 02/12/04	P1-S17 0 - 0.2 05/03/06	P1-S17 2 - 2.5 05/03/06	P1-S18 0 - 0.2 05/03/06	P1-S18 2 - 2.5 05/03/06	P1-S19 0 - 0.2 05/03/06	P1-S19 2 - 2.5 05/03/06	P1-S20 0 - 0.2 05/03/06	P1-S20 2 - 2.5 05/03/06	P1-S21 0 - 0.2 05/03/06	P1-S21 2 - 2.5 05/03/06	P1-S22 0 - 0.2 05/03/06	P1-S23 0 - 0.2 05/03/06
SVOCs (cont'd)															
Carbazole	--	<0.370	<0.390	NA	NA	<0.700 [0.140 J]	NA	NA	NA	0.110 J [0.200 J]	NA	NA	NA	<0.360 [<0.380]	NA
Chrysene	56	0.110 J	<0.390	NA	NA	0.700 J [0.770]	NA	NA	NA	0.850 [1.40]	NA	NA	NA	0.370 [0.100 J]	NA
Cresol (o)	500	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Cresol (p)	500	<0.370	0.0880 J	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Dibenzo(a,h)anthracene	0.56	<0.370	<0.390	NA	NA	0.110 J [0.140 JM]	NA	NA	NA	0.180 J [0.210 JM]	NA	NA	NA	0.0690 J [<0.380]	NA
Dibenzofuran	350	<0.370	<0.390	NA	NA	<0.700 [0.0960 J]	NA	NA	NA	<0.370 [0.0700 J]	NA	NA	NA	<0.360 [<0.380]	NA
Diethyl phthalate	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Dimethyl phthalate	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Di-n-butyl phthalate	--	<0.370	<0.390	NA	NA	0.240 J [0.370]	NA	NA	NA	<0.370 [0.0980 J]	NA	NA	NA	<0.360 [<0.380]	NA
Di-n-octyl phthalate	--	0.0190 J	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Fluoranthene	500	0.0930 J	<0.390	NA	NA	1.00 [1.30]	NA	NA	NA	1.50 [2.30]	NA	NA	NA	0.700 [0.220 J]	NA
Fluorene	500	<0.370	<0.390	NA	NA	<0.700 [0.160 J]	NA	NA	NA	0.0500 J [0.130 J]	NA	NA	NA	<0.360 [<0.380]	NA
Hexachlorobenzene	6	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Hexachlorobutadiene	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Hexachlorocyclopentadiene	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Hexachloroethane	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Indeno(1,2,3-cd)pyrene	5.6	<0.370	<0.390	NA	NA	0.450 J [0.600]	NA	NA	NA	0.690 [1.00]	NA	NA	NA	0.270 J [0.0630 J]	NA
Isophorone	--	<0.370	<0.390	NA	NA	1.30 H [0.120 JH]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Naphthalene	500	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [0.0700 J]	NA	NA	NA	<0.360 [<0.380]	NA
Nitrobenzene	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
n-Nitroso-di-n-propylamine	--	<0.370	<0.390 J	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
n-Nitrosodiphenylamine	--	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Pentachlorophenol	6.7	<1.80	<1.90	NA	NA	<3.40 [<1.60]	NA	NA	NA	<1.80 [<1.80]	NA	NA	NA	<1.70 [<1.80]	NA
Phenanthrene	500	0.120 J	<0.390	NA	NA	0.550 J [1.20]	NA	NA	NA	0.690 [1.40]	NA	NA	NA	0.180 J [0.110 J]	NA
Phenol	500	<0.370	<0.390	NA	NA	<0.700 [<0.340]	NA	NA	NA	<0.370 [<0.370]	NA	NA	NA	<0.360 [<0.380]	NA
Pyrene	500	0.0730 J	<0.390	NA	NA	1.30 [1.40]	NA	NA	NA	1.40 [2.40]	NA	NA	NA	0.600 [0.180 J]	NA
Total PAHs	--	2.07 J	<3.32	NA	NA	8.74 J [9.43 J]	NA	NA	NA	9.94 J [15.3 J]	NA	NA	NA	4.70 J [2.46 J]	NA
Inorganics															
Aluminum	--	4,800	15,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	<17.0 J	<16.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	16	13.9	7.10 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	46.6	33.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	590	<2.90	<2.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	<4.40	<4.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	1,720	678	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	8.50	16.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	14.7 J	16.7 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	270	<15.2 J	<16.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	27	<0.566 J	<0.591	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	9,330	17,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	6.50 B	10.4 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
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FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	AOC3-3 0 - 1 02/12/04	AOC3-4 0 - 1 02/12/04	P1-S17 0 - 0.2 05/03/06	P1-S17 2 - 2.5 05/03/06	P1-S18 0 - 0.2 05/03/06	P1-S18 2 - 2.5 05/03/06	P1-S19 0 - 0.2 05/03/06	P1-S19 2 - 2.5 05/03/06	P1-S20 0 - 0.2 05/03/06	P1-S20 2 - 2.5 05/03/06	P1-S21 0 - 0.2 05/03/06	P1-S21 2 - 2.5 05/03/06	P1-S22 0 - 0.2 05/03/06	P1-S23 0 - 0.2 05/03/06
Inorganics (cont'd)															
Magnesium	--	726	1,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	10,000	102	194	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.8	<2.20	<2.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	310	7.60	13.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	377	415	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1,500	<23.3	<21.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	1,500	<4.40	<4.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	76.5 B	131	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	<32.1	<30.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	10.3	24.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	10,000	10.9 B	25.7 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S23 2 - 2.5 05/03/06	P1-S24 0 - 0.2 05/03/06	P1-S27 0 - 0.2 05/03/06	P1-S27 2 - 2.5 05/03/06	P1-S28 0 - 0.2 05/03/06	P1-S28 2 - 2.5 05/03/06	P1-S29 0 - 0.2 05/03/06	P1-S29 2 - 2.5 05/03/06	P1-S30 0 - 0.2 05/03/06	P1-S30 2 - 2.5 05/03/06	P1-S31 0 - 0.2 05/03/06	P1-S31 2 - 2.5 05/03/06	P1-S32 0 - 0.2 05/03/06	P1-S33 0 - 0.2 05/02/06
PCBs															
Total PCBs	1	0.146	0.460 J	1.34 J	0.172	10.2 J	2.15 J	1.66 J [3.00 J]	3.97	3.71 J [1.43 J]	0.930	1.77	0.0530 J	0.0960	1.98 J [1.89 J]
VOCs															
1,1,1-Trichloroethane	500	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
1,1,2,2-Tetrachloroethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
1,1,2-Trichloroethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
1,1-Dichloroethane	240	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
1,1-Dichloroethene	500	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
1,2-Dichloroethane	30	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
1,2-Dichloropropane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
2-Butanone (MEK)	500	NA	<0.0110	<0.0100	NA	<0.0110	NA	<0.0110 [<0.0110]	NA	<0.0110 [<0.0100]	NA	NA	NA	<0.0100	<0.0110 [<0.0110]
2-Hexanone	--	NA	<0.0110	<0.0100	NA	<0.0110	NA	<0.0110 [<0.0110]	NA	<0.0110 [<0.0100]	NA	NA	NA	<0.0100	<0.0110 [<0.0110]
4-Methyl-2-pentanone (MIBK)	--	NA	<0.0110	<0.0100	NA	<0.0110	NA	<0.0110 [<0.0110]	NA	<0.0110 [<0.0100]	NA	NA	NA	<0.0100	<0.0110 [<0.0110]
Acetone	500	NA	0.0210 JB	0.00680 JB	NA	0.00420 JB	NA	0.00830 JB [0.00360 J]	NA	0.00830 JB [0.00580 J]	NA	NA	NA	0.0160 JB	0.00760 J [0.00570 J]
Benzene	44	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Bromodichloromethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Bromoform	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Bromomethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Carbon disulfide	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Carbon tetrachloride	22	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Chlorobenzene	500	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Chloroethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Chloroform	350	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Chloromethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
cis-1,2-Dichloroethene	500	NA	<0.00540	<0.00520	NA	0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
cis-1,3-Dichloropropene	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Dibromochloromethane	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Ethylbenzene	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Methylene chloride	500	NA	0.00980 JB	0.00730 JB	NA	0.00860 JB	NA	0.0190 JB [0.00340 JB]	NA	0.0210 JB [0.00310 JB]	NA	NA	NA	0.0210 B	0.0100 JB [0.00700 JB]
Styrene	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Tetrachloroethene	150	NA	0.0260	0.00380 J	NA	0.0180	NA	<0.00530 [0.00150 J]	NA	<0.00530 [0.00180 J]	NA	NA	NA	<0.00510	0.0430 [0.00690]
Toluene	500	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
trans-1,2-Dichloroethene	500	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
trans-1,3-Dichloropropene	--	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Trichloroethene	200	NA	<0.00540	<0.00520	NA	0.00380 J	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	0.00180 J [<0.00540]
Vinyl chloride	13	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Xylenes (total)	500	NA	<0.00540	<0.00520	NA	<0.00550	NA	<0.00530 [<0.00540]	NA	<0.00530 [<0.00520]	NA	NA	NA	<0.00510	<0.00550 [<0.00540]
Total VOCs	--	NA	0.0818 J	0.0429 J	NA	0.0801 J	NA	0.0273 J [0.00850 J]	NA	0.0293 J [0.0107 J]	NA	NA	NA	0.0410 J	0.0624 J [0.0196 J]

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S23 2 - 2.5 05/03/06	P1-S24 0 - 0.2 05/03/06	P1-S27 0 - 0.2 05/03/06	P1-S27 2 - 2.5 05/03/06	P1-S28 0 - 0.2 05/03/06	P1-S28 2 - 2.5 05/03/06	P1-S29 0 - 0.2 05/03/06	P1-S29 2 - 2.5 05/03/06	P1-S30 0 - 0.2 05/03/06	P1-S30 2 - 2.5 05/03/06	P1-S31 0 - 0.2 05/03/06	P1-S31 2 - 2.5 05/03/06	P1-S32 0 - 0.2 05/03/06	P1-S33 0 - 0.2 05/02/06
SVOCs															
1,2,4-Trichlorobenzene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
1,2-Dichlorobenzene	500	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
1,3-Dichlorobenzene	280	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
1,4-Dichlorobenzene	130	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2,2-oxybis (1-chloropropane)	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2,4,5-Trichlorophenol	--	NA	NA	<1.60	NA	NA	NA	<1.60 [<1.70]	NA	<17.0 [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
2,4,6-Trichlorophenol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2,4-Dichlorophenol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2,4-Dimethylphenol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2,4-Dinitrophenol	--	NA	NA	<1.60 *	NA	NA	NA	<1.60 * [<1.70]	NA	<17.0 * [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
2,4-Dinitrotoluene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2,6-Dinitrotoluene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2-Chloronaphthalene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2-Chlorophenol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2-Methylnaphthalene	--	NA	NA	0.0860 J	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
2-Nitroaniline	--	NA	NA	<1.60	NA	NA	NA	<1.60 [<1.70]	NA	<17.0 [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
2-Nitrophenol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
3,3-Dichlorobenzidine	--	NA	NA	<0.650	NA	NA	NA	<0.660 [<0.690]	NA	<7.00 [<0.680]	NA	NA	NA	NA	<2.80 [<3.50]
3-Nitroaniline	--	NA	NA	<1.60	NA	NA	NA	<1.60 [<1.70]	NA	<17.0 [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
4,6-Dinitro-2-methylphenol	--	NA	NA	<1.60	NA	NA	NA	<1.60 [<1.70]	NA	<17.0 [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
4-Bromophenyl phenyl ether	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
4-Chloro-3-methylphenol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
4-Chloroaniline	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
4-Chlorophenyl phenyl ether	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
4-Nitroaniline	--	NA	NA	<0.650	NA	NA	NA	<0.660 [<0.690]	NA	<7.00 [<0.680]	NA	NA	NA	NA	<2.80 [<3.50]
4-Nitrophenol	--	NA	NA	<1.60	NA	NA	NA	<1.60 [<1.70]	NA	<17.0 [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
Acenaphthene	500	NA	NA	0.340	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [0.130 J]	NA	NA	NA	NA	0.790 J [0.640 J]
Acenaphthylene	500	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Anthracene	500	NA	NA	0.630	NA	NA	NA	<0.330 [0.0980 J]	NA	<3.50 [0.230 J]	NA	NA	NA	NA	2.20 [1.40 J]
Benzo(a)anthracene	5.6	NA	NA	2.10	NA	NA	NA	0.290 J [0.330 J]	NA	<3.50 [0.610]	NA	NA	NA	NA	5.70 [3.40]
Benzo(a)pyrene	1	NA	NA	1.80	NA	NA	NA	<0.330 [0.270 J]	NA	<3.50 [0.520]	NA	NA	NA	NA	5.20 [3.50]
Benzo(b)fluoranthene	5.6	NA	NA	2.30	NA	NA	NA	<0.330 [0.410]	NA	<3.50 [0.620]	NA	NA	NA	NA	5.70 [4.30]
Benzo(ghi)perylene	500	NA	NA	1.40	NA	NA	NA	0.0490 J [0.350]	NA	<3.50 [0.520]	NA	NA	NA	NA	6.50 [3.70]
Benzo(k)fluoranthene	56	NA	NA	0.850	NA	NA	NA	<0.330 [0.130 J]	NA	<3.50 [0.240 J]	NA	NA	NA	NA	1.70 [1.60 J]
Benzoic acid	--	NA	NA	<1.60 *	NA	NA	NA	<1.60 * [<1.70]	NA	<17.0 * [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
Benzyl alcohol	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Bis(2-chloroethoxy)methane	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Bis(2-chloroethyl)ether	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Bis(2-ethylhexyl)phthalate	--	NA	NA	0.990 B	NA	NA	NA	3.70 B [0.340 J]	NA	32.0 B [0.190 J]	NA	NA	NA	NA	8.90 [9.60]
Butyl benzyl phthalate	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S23 2 - 2.5 05/03/06	P1-S24 0 - 0.2 05/03/06	P1-S27 0 - 0.2 05/03/06	P1-S27 2 - 2.5 05/03/06	P1-S28 0 - 0.2 05/03/06	P1-S28 2 - 2.5 05/03/06	P1-S29 0 - 0.2 05/03/06	P1-S29 2 - 2.5 05/03/06	P1-S30 0 - 0.2 05/03/06	P1-S30 2 - 2.5 05/03/06	P1-S31 0 - 0.2 05/03/06	P1-S31 2 - 2.5 05/03/06	P1-S32 0 - 0.2 05/03/06	P1-S33 0 - 0.2 05/02/06
SVOCs (cont'd)															
Carbazole	--	NA	NA	0.440	NA	NA	NA	<0.330 [0.0610 J]	NA	<3.50 [0.130 J]	NA	NA	NA	NA	0.830 J [0.680 J]
Chrysene	56	NA	NA	2.10	NA	NA	NA	<0.330 [0.340 J]	NA	<3.50 [0.610]	NA	NA	NA	NA	6.20 [3.40]
Cresol (o)	500	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Cresol (p)	500	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Dibenzo(a,h)anthracene	0.56	NA	NA	0.360	NA	NA	NA	<0.330 [0.0660 JM]	NA	<3.50 [0.120 JM]	NA	NA	NA	NA	1.60 [0.880 J]
Dibenzofuran	350	NA	NA	0.160 J	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [0.0610 J]	NA	NA	NA	NA	0.340 J [0.280 J]
Diethyl phthalate	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Dimethyl phthalate	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Di-n-butyl phthalate	--	NA	NA	0.0870 J	NA	NA	NA	0.330 J [0.0520 J]	NA	1.70 J [<0.340]	NA	NA	NA	NA	3.70 [20.0]
Di-n-octyl phthalate	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	24.0 M [<0.340]	NA	NA	NA	NA	0.270 J [<1.80]
Fluoranthene	500	NA	NA	4.30	NA	NA	NA	<0.330 [0.630]	NA	<3.50 [1.20]	NA	NA	NA	NA	8.70 [6.90]
Fluorene	500	NA	NA	0.280 J	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [0.110 J]	NA	NA	NA	NA	0.680 J [0.510 J]
Hexachlorobenzene	6	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Hexachlorobutadiene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Hexachlorocyclopentadiene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Hexachloroethane	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Indeno(1,2,3-cd)pyrene	5.6	NA	NA	1.30	NA	NA	NA	0.0410 J [0.330 J]	NA	<3.50 [0.540]	NA	NA	NA	NA	5.10 [3.00]
Isophorone	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Naphthalene	500	NA	NA	0.100 J	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	0.360 J [<1.80]
Nitrobenzene	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
n-Nitroso-di-n-propylamine	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
n-Nitrosodiphenylamine	--	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Pentachlorophenol	6.7	NA	NA	<1.60	NA	NA	NA	<1.60 [<1.70]	NA	<17.0 [<1.70]	NA	NA	NA	NA	<6.80 [<8.50]
Phenanthrene	500	NA	NA	2.80	NA	NA	NA	0.0470 J [0.400]	NA	<3.50 [0.960]	NA	NA	NA	NA	7.30 [4.80]
Phenol	500	NA	NA	<0.330	NA	NA	NA	<0.330 [<0.350]	NA	<3.50 [<0.340]	NA	NA	NA	NA	<1.40 [<1.80]
Pyrene	500	NA	NA	3.20	NA	NA	NA	0.140 J [0.610]	NA	<3.50 [1.10]	NA	NA	NA	NA	12.0 [5.80]
Total PAHs	--	NA	NA	24.1 J	NA	NA	NA	2.55 J [4.84 J]	NA	<29.8 [8.02 J]	NA	NA	NA	NA	71.1 J [46.5 J]
Inorganics															
Aluminum	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S23 2 - 2.5 05/03/06	P1-S24 0 - 0.2 05/03/06	P1-S27 0 - 0.2 05/03/06	P1-S27 2 - 2.5 05/03/06	P1-S28 0 - 0.2 05/03/06	P1-S28 2 - 2.5 05/03/06	P1-S29 0 - 0.2 05/03/06	P1-S29 2 - 2.5 05/03/06	P1-S30 0 - 0.2 05/03/06	P1-S30 2 - 2.5 05/03/06	P1-S31 0 - 0.2 05/03/06	P1-S31 2 - 2.5 05/03/06	P1-S32 0 - 0.2 05/03/06	P1-S33 0 - 0.2 05/02/06
Inorganics (cont'd)															
Magnesium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S33 2 - 2.5 05/02/06	P1-S43 0 - 0.2 05/02/06	P1-S43 2 - 2.5 05/02/06	P1-S44 0 - 0.2 05/02/06	P1-S44 2 - 2.5 05/02/06	P1-S45 0 - 0.2 05/02/06	P1-S46 0 - 0.2 05/02/06	P1-S46 2 - 2.5 05/02/06	P1-S47 0 - 0.2 05/02/06	P1-S47 2 - 2.5 05/02/06	P1-S69 0 - 0.2 08/22/06	P1-S69 2 - 2.5 08/22/06	P1-S70 0 - 0.2 08/22/06	P1-S70 2 - 2.5 08/22/06	P1-S75 0 - 0.2 10/23/06	P1-S75 2 - 2.5 10/23/06	P1-S76 0 - 0.2 10/23/06
PCBs																		
Total PCBs	1	1.69	2.80	0.240	1.81 [0.405 J]	3.48 J	0.692 J	1.10	0.940	2.40	2.17	3.49 J	0.0263 J [0.0290 J]	2.67 J	0.385	7.10	<0.0350	1.54 J
VOCs																		
1,1,1-Trichloroethane	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	240	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	30	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	500	NA	<0.0110	NA	<0.0110 [<0.0110]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	--	NA	<0.0110	NA	<0.0110 [<0.0110]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	--	NA	<0.0110	NA	<0.0110 [<0.0110]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	500	NA	0.00580 JB	NA	0.00930 JB [0.00640 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	44	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	22	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	350	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	500	NA	0.0190 JB	NA	0.0170 JB [0.0110 JB]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	150	NA	0.00700	NA	0.00680 [0.0490]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	--	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	200	NA	<0.00560	NA	<0.00550 [0.00240 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	13	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	500	NA	<0.00560	NA	<0.00550 [<0.00550]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total VOCs	--	NA	0.0958 J	NA	0.0391 J [0.0988 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S33 2 - 2.5 05/02/06	P1-S43 0 - 0.2 05/02/06	P1-S43 2 - 2.5 05/02/06	P1-S44 0 - 0.2 05/02/06	P1-S44 2 - 2.5 05/02/06	P1-S45 0 - 0.2 05/02/06	P1-S46 0 - 0.2 05/02/06	P1-S46 2 - 2.5 05/02/06	P1-S47 0 - 0.2 05/02/06	P1-S47 2 - 2.5 05/02/06	P1-S69 0 - 0.2 08/22/06	P1-S69 2 - 2.5 08/22/06	P1-S70 0 - 0.2 08/22/06	P1-S70 2 - 2.5 08/22/06	P1-S75 0 - 0.2 10/23/06	P1-S75 2 - 2.5 10/23/06	P1-S76 0 - 0.2 10/23/06
SVOCs																		
1,2,4-Trichlorobenzene	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
1,2-Dichlorobenzene	500	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
1,3-Dichlorobenzene	280	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
1,4-Dichlorobenzene	130	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2,2-oxybis (1-chloropropane)	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2,4,5-Trichlorophenol	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
2,4,6-Trichlorophenol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2,4-Dichlorophenol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2,4-Dimethylphenol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2,4-Dinitrophenol	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
2,4-Dinitrotoluene	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2,6-Dinitrotoluene	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2-Chloronaphthalene	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2-Chlorophenol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
2-Methylnaphthalene	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	0.0770 J	<0.360	NA	NA	NA
2-Nitroaniline	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
2-Nitrophenol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
3,3-Dichlorobenzidine	--	NA	NA	NA	<0.710 [<0.720]	NA	NA	NA	NA	NA	NA	<0.690	<0.680 [<0.680]	<0.640	<0.720	NA	NA	NA
3-Nitroaniline	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
4-Bromophenyl phenyl ether	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
4-Chloro-3-methylphenol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
4-Chloroaniline	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
4-Chlorophenyl phenyl ether	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
4-Nitroaniline	--	NA	NA	NA	<0.710 [<0.720]	NA	NA	NA	NA	NA	NA	<0.690	<0.680 [<0.680]	<0.640	<0.720	NA	NA	NA
4-Nitrophenol	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
Acenaphthene	500	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	0.420	0.0580 J [0.140 J]	0.360	<0.360	NA	NA	NA
Acenaphthylene	500	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	0.0730 J	<0.340 [<0.340]	0.170 J	0.0680 J	NA	NA	NA
Anthracene	500	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	0.840 M	0.100 J [0.270 J]	0.770	0.180 J	NA	NA	NA
Benzo(a)anthracene	5.6	NA	NA	NA	0.0590 J [<0.360]	NA	NA	NA	NA	NA	NA	2.50	0.390 [0.740 M]	2.10	0.600	NA	NA	NA
Benzo(a)pyrene	1	NA	NA	NA	0.0770 J [0.0490 J]	NA	NA	NA	NA	NA	NA	2.50	0.370 [0.780]	2.20	0.900	NA	NA	NA
Benzo(b)fluoranthene	5.6	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	2.30 H	0.320 JH [0.620]	2.30 H	1.00 M	NA	NA	NA
Benzo(ghi)perylene	500	NA	NA	NA	0.0660 J [0.0650 J]	NA	NA	NA	NA	NA	NA	1.30	0.340 J [0.600]	1.20	2.50	NA	NA	NA
Benzo(k)fluoranthene	56	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	2.10	0.280 J [0.680 M]	1.50	0.530 M	NA	NA	NA
Benzoic acid	--	NA	NA	NA	<1.70 [<1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [<1.70]	<1.60	<1.70	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
Bis(2-chloroethoxy)methane	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
Bis(2-chloroethyl)ether	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [<0.340]	<0.320	<0.360	NA	NA	NA
Bis(2-ethylhexyl)phthalate	--	NA	NA	NA	0.190 J [0.120 J]	NA	NA	NA	NA	NA	NA	0.870	0.0730 J [0.0570 J]	2.00	1.70	NA	NA	NA
Butyl benzyl phthalate	--	NA	NA	NA	<0.360 [<0.360]	NA	NA	NA	NA	NA	NA	0.0750 J	<0.340 [<0.340]	<0.320	0.0600 JM	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S33 2 - 2.5 05/02/06	P1-S43 0 - 0.2 05/02/06	P1-S43 2 - 2.5 05/02/06	P1-S44 0 - 0.2 05/02/06	P1-S44 2 - 2.5 05/02/06	P1-S45 0 - 0.2 05/02/06	P1-S46 0 - 0.2 05/02/06	P1-S46 2 - 2.5 05/02/06	P1-S47 0 - 0.2 05/02/06	P1-S47 2 - 2.5 05/02/06	P1-S69 0 - 0.2 08/22/06	P1-S69 2 - 2.5 08/22/06	P1-S70 0 - 0.2 08/22/06	P1-S70 2 - 2.5 08/22/06	P1-S75 0 - 0.2 10/23/06	P1-S75 2 - 2.5 10/23/06	P1-S76 0 - 0.2 10/23/06
SVOcs (cont'd)																		
Carbazole	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	0.380	<0.340 [0.110 J]	0.400	<0.360	NA	NA	NA
Chrysene	56	NA	NA	NA	0.100 J [0.360]	NA	NA	NA	NA	NA	NA	2.60	0.390 M [0.840]	2.20	0.820	NA	NA	NA
Cresol (o)	500	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Cresol (p)	500	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	0.380 H	0.0850 J [0.0960 J]	0.350	0.160 JH	NA	NA	NA
Dibenzofuran	350	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	0.140 JM	<0.340 [0.340]	0.150 J	<0.360	NA	NA	NA
Diethyl phthalate	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Dimethyl phthalate	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Di-n-butyl phthalate	--	NA	NA	NA	0.0830 J [0.0660 J]	NA	NA	NA	NA	NA	NA	0.0730 J	<0.340 [0.340]	2.70	0.120 J	NA	NA	NA
Di-n-octyl phthalate	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	0.200 J	<0.360	NA	NA	NA
Fluoranthene	500	NA	NA	NA	0.110 J [0.0680 J]	NA	NA	NA	NA	NA	NA	5.10	0.710 [1.40]	4.60	1.00	NA	NA	NA
Fluorene	500	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	0.290 J	<0.340 [0.0620 J]	0.280 J	0.0530 J	NA	NA	NA
Hexachlorobenzene	6	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Hexachlorobutadiene	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Hexachlorocyclopentadiene	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Hexachloroethane	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	NA	NA	NA	0.0450 J [0.360]	NA	NA	NA	NA	NA	NA	1.70 H	0.390 [0.690 M]	1.60	2.10	NA	NA	NA
Isophorone	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Naphthalene	500	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	0.0880 J	<0.340 [0.340]	0.120 J	0.0790 J	NA	NA	NA
Nitrobenzene	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
n-Nitroso-di-n-propylamine	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
n-Nitrosodiphenylamine	--	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Pentachlorophenol	6.7	NA	NA	NA	<1.70 [1.70]	NA	NA	NA	NA	NA	NA	<1.70	<1.70 [1.70]	<1.60	<1.70	NA	NA	NA
Phenanthrene	500	NA	NA	NA	0.0740 J [0.0640 J]	NA	NA	NA	NA	NA	NA	2.80	0.390 [1.00]	2.60	0.710	NA	NA	NA
Phenol	500	NA	NA	NA	<0.360 [0.360]	NA	NA	NA	NA	NA	NA	<0.340	<0.340 [0.340]	<0.320	<0.360	NA	NA	NA
Pyrene	500	NA	NA	NA	0.110 J [0.0740 J]	NA	NA	NA	NA	NA	NA	3.00	0.620 [1.60]	2.50	1.30	NA	NA	NA
Total PAHs	--	NA	NA	NA	2.26 J [2.48 J]	NA	NA	NA	NA	NA	NA	28.2 J	5.12 J [10.0 J]	24.9 J	12.4 J	NA	NA	NA
Inorganics																		
Aluminum	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S33 2 - 2.5 05/02/06	P1-S43 0 - 0.2 05/02/06	P1-S43 2 - 2.5 05/02/06	P1-S44 0 - 0.2 05/02/06	P1-S44 2 - 2.5 05/02/06	P1-S45 0 - 0.2 05/02/06	P1-S46 0 - 0.2 05/02/06	P1-S46 2 - 2.5 05/02/06	P1-S47 0 - 0.2 05/02/06	P1-S47 2 - 2.5 05/02/06	P1-S69 0 - 0.2 08/22/06	P1-S69 2 - 2.5 08/22/06	P1-S70 0 - 0.2 08/22/06	P1-S70 2 - 2.5 08/22/06	P1-S75 0 - 0.2 10/23/06	P1-S75 2 - 2.5 10/23/06	P1-S76 0 - 0.2 10/23/06
Inorganics (cont'd)																		
Magnesium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S76 2 - 2.5 10/23/06	VS-39-2 2.5 - 3.5 06/08/05	VS-39-3 2.5 - 3.5 06/08/05	VS-P1-S11 2.5 - 3 02/13/09	VS-P1-S28 0.5 - 1 02/12/09	VS-P1-S28 1.5 - 2 02/12/09	VS-P1-S36 1.5 - 2 02/13/09	VS-P1-S41 2 - 2.5 02/13/09	VS-P1-S42 2 - 2.5 02/13/09	VS-P1-S43 2 - 2.5 02/13/09
PCBs											
Total PCBs	1	0.0180 J	0.0900 J	0.210	0.307 J	6.90	1.45	5.00	NA	NA	NA
VOCs											
1,1,1-Trichloroethane	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
1,1,2,2-Tetrachloroethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
1,1,2-Trichloroethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
1,1-Dichloroethane	240	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
1,1-Dichloroethene	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
1,2-Dichloroethane	30	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
1,2-Dichloropropane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
2-Butanone (MEK)	500	NA	NA	NA	NA	NA	NA	NA	<0.0120	0.0210	0.0610
2-Hexanone	--	NA	NA	NA	NA	NA	NA	NA	<0.0120	<0.0110	<0.0240
4-Methyl-2-pentanone (MIBK)	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Acetone	500	NA	NA	NA	NA	NA	NA	NA	<0.0240	0.0930	0.270
Benzene	44	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Bromodichloromethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Bromoform	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Bromomethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Carbon disulfide	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Carbon tetrachloride	22	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Chlorobenzene	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Chloroethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Chloroform	350	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Chloromethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
cis-1,2-Dichloroethene	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	0.0180
cis-1,3-Dichloropropene	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Dibromochloromethane	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Ethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Methylene chloride	500	NA	NA	NA	NA	NA	NA	NA	<0.0240	<0.0220	<0.0490
Styrene	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Tetrachloroethene	150	NA	NA	NA	NA	NA	NA	NA	0.00120 J	0.0140	0.0490
Toluene	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	0.000310 JB	<0.0120
trans-1,2-Dichloroethene	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
trans-1,3-Dichloropropene	--	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Trichloroethene	200	NA	NA	NA	NA	NA	NA	NA	<0.00600	0.00600	0.0200
Vinyl chloride	13	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Xylenes (total)	500	NA	NA	NA	NA	NA	NA	NA	<0.00600	<0.00560	<0.0120
Total VOCs	--	NA	NA	NA	NA	NA	NA	NA	0.00120 J	0.134 J	0.418

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S76 2 - 2.5 10/23/06	VS-39-2 2.5 - 3.5 06/08/05	VS-39-3 2.5 - 3.5 06/08/05	VS-P1-S11 2.5 - 3 02/13/09	VS-P1-S28 0.5 - 1 02/12/09	VS-P1-S28 1.5 - 2 02/12/09	VS-P1-S36 1.5 - 2 02/13/09	VS-P1-S41 2 - 2.5 02/13/09	VS-P1-S42 2 - 2.5 02/13/09	VS-P1-S43 2 - 2.5 02/13/09
SVOCs											
1,2,4-Trichlorobenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-oxybis (1-chloropropane)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S76 2 - 2.5 10/23/06	VS-39-2 2.5 - 3.5 06/08/05	VS-39-3 2.5 - 3.5 06/08/05	VS-P1-S11 2.5 - 3 02/13/09	VS-P1-S28 0.5 - 1 02/12/09	VS-P1-S28 1.5 - 2 02/12/09	VS-P1-S36 1.5 - 2 02/13/09	VS-P1-S41 2 - 2.5 02/13/09	VS-P1-S42 2 - 2.5 02/13/09	VS-P1-S43 2 - 2.5 02/13/09
SVOCs (cont'd)											
Carbazole	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cresol (o)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cresol (p)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitroso-di-n-propylamine	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics											
Aluminum	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID: Sample Depth (Feet): Date Collected:	Commercial SCOs	P1-S76 2 - 2.5 10/23/06	VS-39-2 2.5 - 3.5 06/08/05	VS-39-3 2.5 - 3.5 06/08/05	VS-P1-S11 2.5 - 3 02/13/09	VS-P1-S28 0.5 - 1 02/12/09	VS-P1-S28 1.5 - 2 02/12/09	VS-P1-S36 1.5 - 2 02/13/09	VS-P1-S41 2 - 2.5 02/13/09	VS-P1-S42 2 - 2.5 02/13/09	VS-P1-S43 2 - 2.5 02/13/09
Inorganics (cont'd)											
Magnesium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 11
"SCRAPE AREA" REUSE SOIL ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Notes:

1. Samples were collected by Arcadis on the dates indicated.
2. VOCs = Volatile Organic Compounds.
3. SVOCs = Semi-Volatile Organic Compounds.
4. PCBs = Polychlorinated Biphenyls.
5. - - = No 6 NYCRR Part 375 SCO listed.
6. Samples were analyzed by TestAmerica Laboratories, Inc. located in Shelton, Connecticut for:
 - VOCs using United States Environmental Protection Agency (USEPA) SW-846 Method 8260.
 - SVOCs using USEPA SW-846 Method 8270.
 - Metals using USEPA SW-846 Methods 6010, 7471, and 9012A.
 - PCBs using USEPA SW-846 Method 8082.
7. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
8. Data qualifiers are defined as follows:
 - < = Constituent not detected at a concentration above the reported detection limit.
 - * = LCS or LCSD exceeds the control limits.
 - B = The compound has been found in the sample as well as its associated blank.
 - H = Client requested analysis be conducted outside of holding times.
 - J = Indicates that the associated numerical value is an estimated concentration.
 - M = Manually integrated compound.
9. Soil cleanup levels are from the New York State Department of Environmental Conservation- (NYSDEC-) approved Remedial Design (ARCADIS, February 2013) and consist of the following:
 - PCB surface soil, VOC, SVOC, and inorganics soil cleanup levels are commercial use soil cleanup objectives from Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b).
 - PCB subsurface soil cleanup levels: from the NYSDEC document titled "CP-51 / Soil Cleanup Guidance", dated October 21, 2010.
10. Bold font indicates that the result exceeds the PCB surface soil cleanup levels.
11. Bold font and shading indicates that the result exceeds the PCB subsurface soil cleanup levels or the commercial SCOs.
12. Total PAHs were calculated as the sum of the following, which is consistent with the NYSDEC list from: <http://www.dec.ny.gov/chemical/24922.html>:

2-Methylnaphthalene	Chrysene
Acenaphthene	Dibenzo(a,h)anthracene
Acenaphthylene	Fluoranthene
Anthracene	Fluorene
Benzo(a)anthracene	Indeno(1,2,3-cd)pyrene
Benzo(a)pyrene	Naphthalene
Benzo(b)fluoranthene	Phenanthrene
Benzo(g,h,i)perylene	Pyrene
Benzo(k)fluoranthene	
13. All of the scrape area soil was reused onsite at least 1-foot below ground surface, which is relative to pre-remediation grades.

TABLE 12
REUSE CONCRETE ANALYTICAL RESULTS (ppm)

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER SITE
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

Location ID:	Date Collected	Total PCBs
COMP-1	8/30/2005	0.0790 [0.0760 J]
COMP-2	8/30/2005	0.00840 J
COMP-3	8/30/2005	<0.0350
COMP-4	8/31/2005	0.350 J
COMP-5	8/31/2005	0.167 J
COMP-7	8/31/2005	0.156 J
COMP-8	8/31/2005	0.175 J
COMP-9	8/31/2005	0.235 J
COMP-10	8/31/2005	0.112 J
COMP-11	8/31/2005	0.310
COMP-12	8/31/2005	0.779
Stockpile-1	11/16/2005	1.44 J
Stockpile-2	11/16/2005	0.212 J
Stockpile-3	11/16/2005	4.34 J
Stockpile-4	11/16/2005	0.274
Stockpile-5	11/16/2005	0.0912 J
Stockpile-7	11/16/2005	0.0387 J
Stockpile-8	11/16/2005	2.01 J

Notes:

1. Samples were collected by Arcadis on the dates indicated.
2. PCBs = Polychlorinated biphenyls.
3. Samples were analyzed by Severn Trent Laboratories, Inc. located in Shelton, Connecticut for PCBs using United States Environmental Protection Agency (USEPA) SW-846 Method 8082.
4. All concentrations reported in dry weight parts per million (ppm), which is equivalent to milligrams per kilogram (mg/kg).
5. Data qualifiers are defined as follows:
J = Indicates that the associated numerical value is an estimated concentration.
< = Constituent not detected at a concentration above the reported detection limit.
6. Bold font indicates that the result exceeds the PCB commercial use soil cleanup objective from Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375-6.8(b).

FIGURES

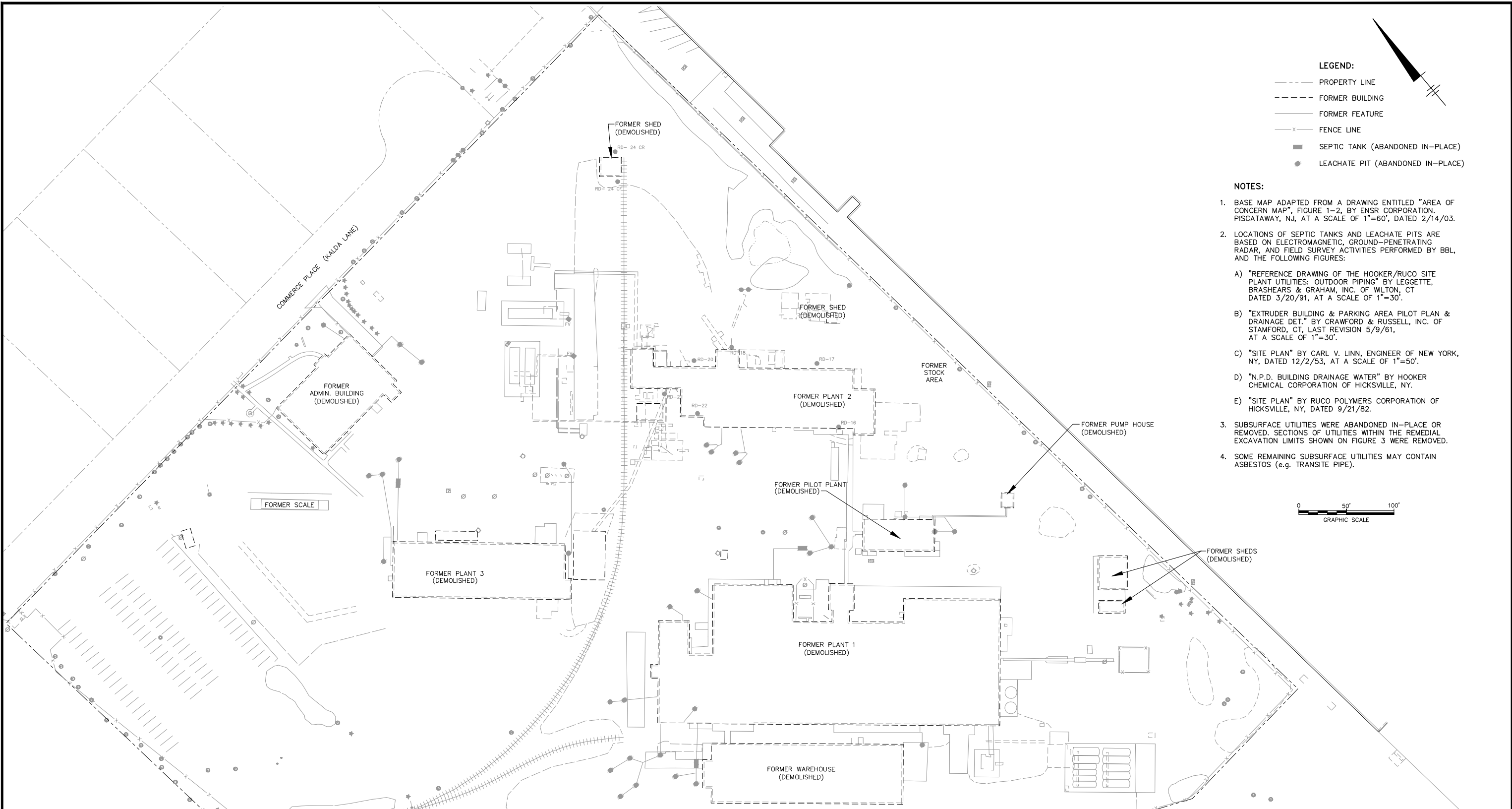


CITY: SYRACUSE NY DIV/GROUP: ENVCAD DB: A. SANCHEZ, A. SCHILLING PIC: J. BRUSSEL PM: J. BRUSSEL TMI: R. HENSEL LVR/OPTION: "OFF" REF: "C:\ENVCAD\SYRACUSE\ACT\B0032305\170100001\DWG\FER_FIG\32305B01.dwg LAYOUT: 2 SAVED: 8/16/2017 12:56 PM ACADVER: 19.15 (LMS TECH) PAGES: 2 PLOTSTYLETABLE: PLT\FULL.CTB PLOTTED: 8/16/2017 12:58 PM BY: KRAHMER, ERIC

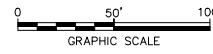
PROJECTNAME: --

IMAGES: --

XFERS: 32305X01 32305X00



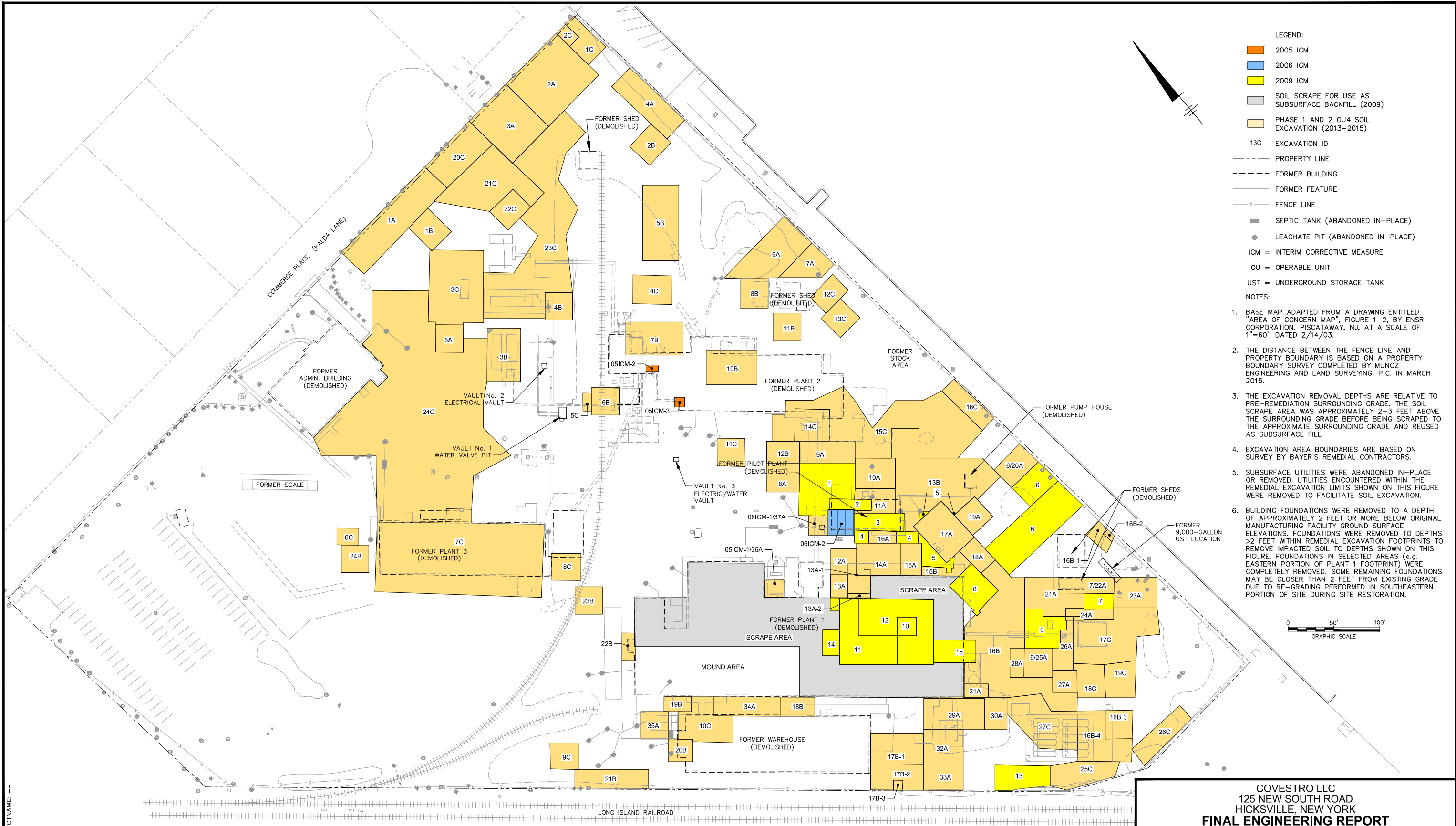
- LEGEND:
- PROPERTY LINE
 - FORMER BUILDING
 - FORMER FEATURE
 - x- FENCE LINE
 - SEPTIC TANK (ABANDONED IN-PLACE)
 - LEACHATE PIT (ABANDONED IN-PLACE)
- NOTES:
1. BASE MAP ADAPTED FROM A DRAWING ENTITLED "AREA OF CONCERN MAP", FIGURE 1-2, BY ENSR CORPORATION, PISCATAWAY, NJ, AT A SCALE OF 1"=60', DATED 2/14/03.
 2. LOCATIONS OF SEPTIC TANKS AND LEACHATE PITS ARE BASED ON ELECTROMAGNETIC, GROUND-PENETRATING RADAR, AND FIELD SURVEY ACTIVITIES PERFORMED BY BBL AND THE FOLLOWING FIGURES:
 - A) "REFERENCE DRAWING OF THE HOOKER/RUCO SITE PLANT UTILITIES: OUTDOOR PIPING" BY LEGGETTE, BRASHEARS & GRAHAM, INC. OF WILTON, CT DATED 3/20/91, AT A SCALE OF 1"=30'.
 - B) "EXTRUDER BUILDING & PARKING AREA PILOT PLAN & DRAINAGE DET." BY CRAWFORD & RUSSELL, INC. OF STAMFORD, CT, LAST REVISION 5/9/61, AT A SCALE OF 1"=30'.
 - C) "SITE PLAN" BY CARL V. LINN, ENGINEER OF NEW YORK, NY, DATED 12/2/53, AT A SCALE OF 1"=50'.
 - D) "N.P.D. BUILDING DRAINAGE WATER" BY HOOKER CHEMICAL CORPORATION OF HICKSVILLE, NY.
 - E) "SITE PLAN" BY RUCO POLYMERS CORPORATION OF HICKSVILLE, NY, DATED 9/21/82.
 3. SUBSURFACE UTILITIES WERE ABANDONED IN-PLACE OR REMOVED. SECTIONS OF UTILITIES WITHIN THE REMEDIAL EXCAVATION LIMITS SHOWN ON FIGURE 3 WERE REMOVED.
 4. SOME REMAINING SUBSURFACE UTILITIES MAY CONTAIN ASBESTOS (e.g. TRANSITE PIPE).



COVESTRO LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK
FINAL ENGINEERING REPORT

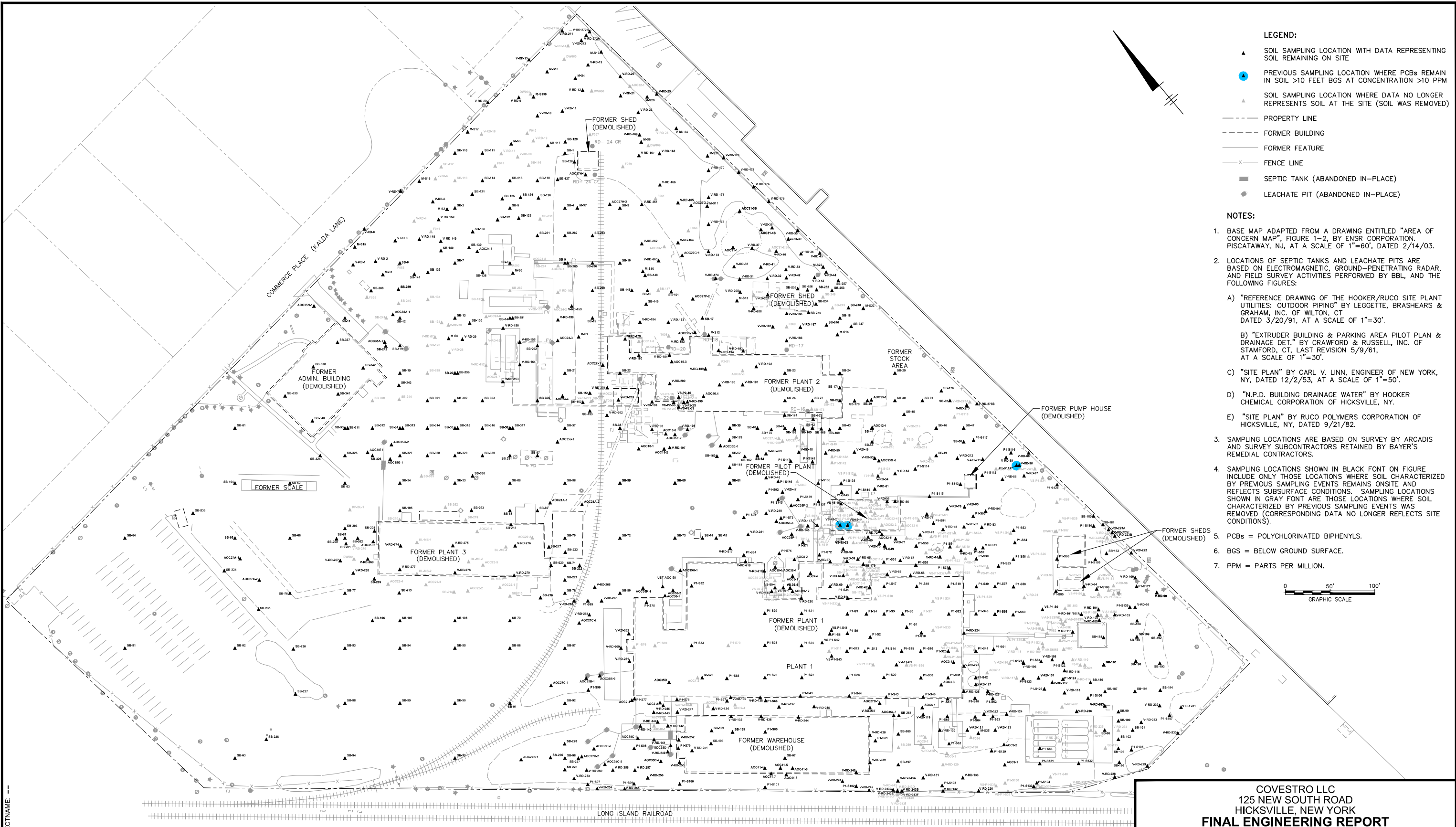
FORMER SITE LAYOUT





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FINAL ENGINEERING REPORT

**FINAL EXCAVATING LIMITS
AND UST/SUBSURFACE
UTILITY VAULT LOCATIONS**



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FINAL ENGINEERING REPORT

HISTORICAL SOIL SAMPLING LOCATIONS

AS-BUILT DRAWINGS



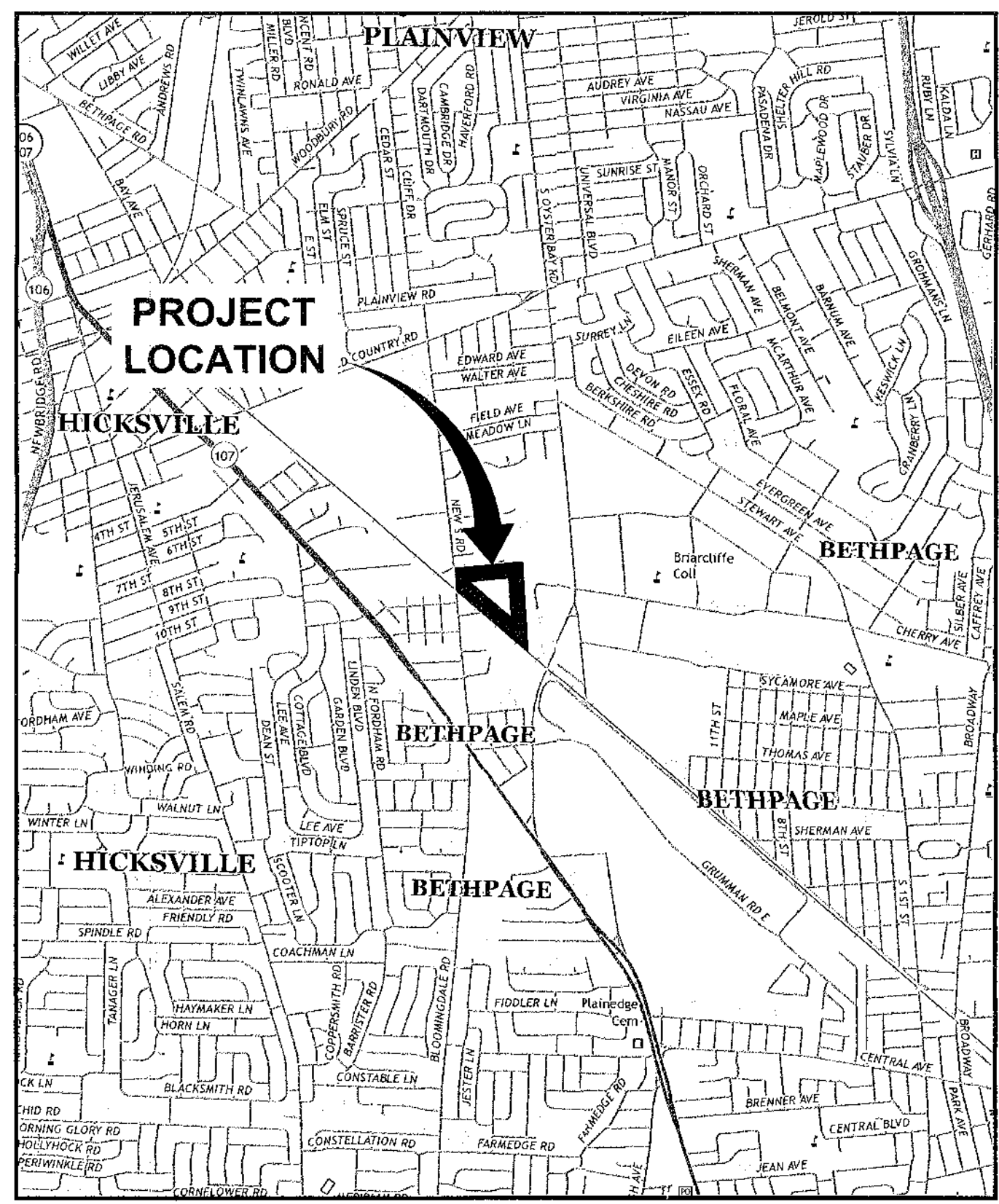
RECORD DRAWINGS

FINAL ENGINEERING REPORT
FORMER HOOKER CHEMICAL/OXY/RUCO POLYMER
CORPORATION

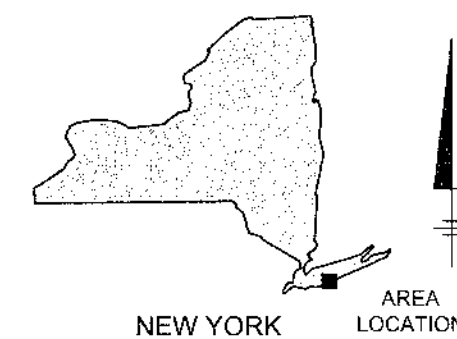
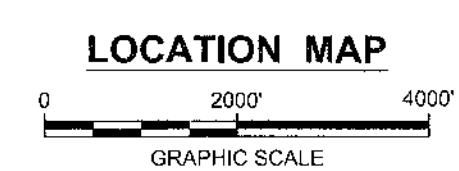
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DATE ISSUED
SEPTEMBER 2017

COVESTRO LLC



REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE,
HICKSVILLE, HUNTINGTON, FREEPORT, & AMITYVILLE, NY 2016



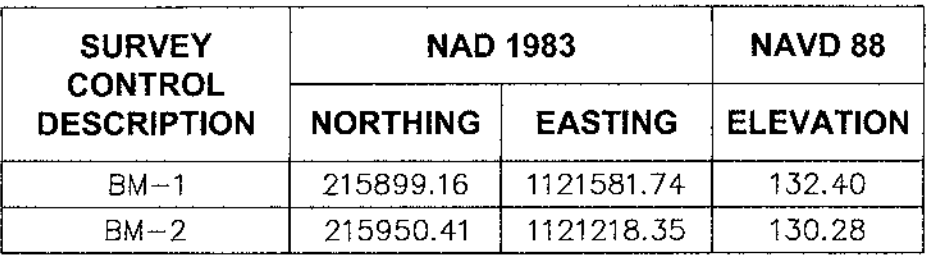
INDEX TO DRAWINGS

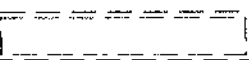
- COVER
- 1 PRE-REMEDIATION SITE CONDITIONS
- 2 FINAL EXCAVATION AREA LIMITS
- 3 REUSE SOIL LIMITS
- 4 DEMARCATION LAYER LIMITS
- 5 POST-REMEDIATION SOIL COVER SYSTEM SURFACE
ELEVATIONS AND SITE CONDITIONS



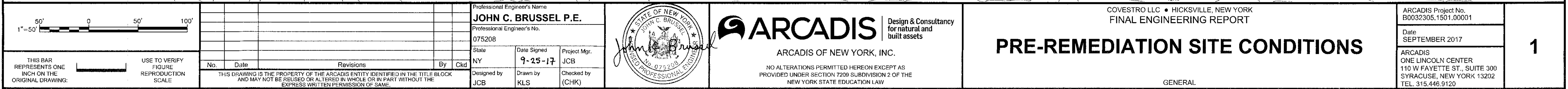
ARCADIS OF NEW YORK, INC.

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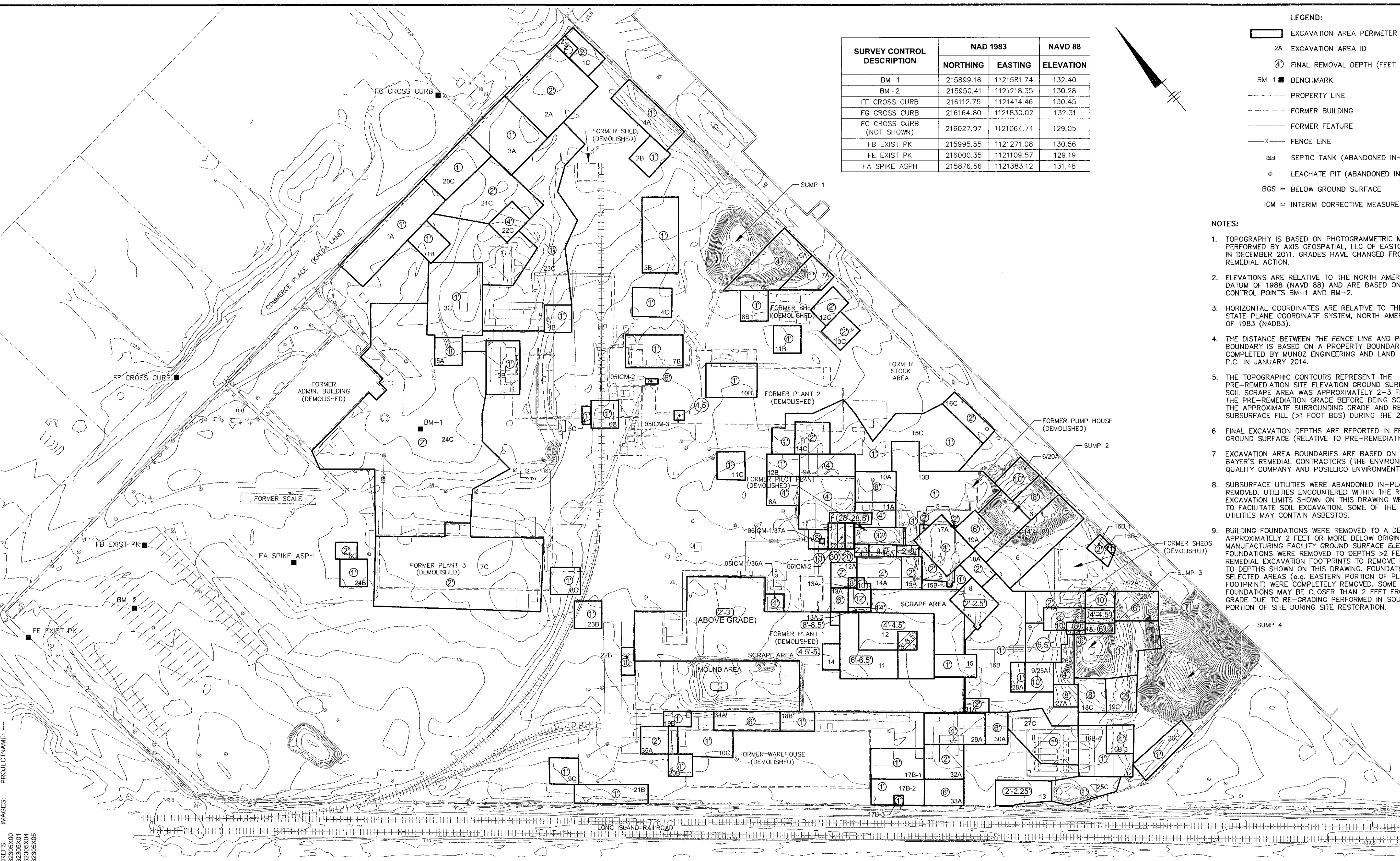


BM-1 ■	BENCHMARK
	SEPTIC TANK (ABANDONED IN-PLACE)
	LEACHATE PIT (ABANDONED IN-PLACE)
FW	FORMER FIRE PROTECTION WATER LINE
TWS	FORMER TOWER WATER SUPPLY LINE
TWR	FORMER TOWER WATER RETURN LINE
URW	FORMER WELL WATER LINE
UTW	FORMER TOWER WATER LINE
CW	FORMER CITY WATER LINE
CM	FORMER CITY WATER LINE
S	FORMER SANITARY SEWER LINE
G	FORMER GAS LINE
E	FORMER ELECTRIC LINE
	FORMER BUILDING LOCATION
	TREES

1. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON SURVEY CONTROL POINTS BM-1 AND BM-2.
2. HORIZONTAL COORDINATES ARE RELATIVE TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. BASE MAP ADAPTED FROM A DRAWING ENTITLED "AREA OF CONCERN MAP", FIGURE 1-2, BY ENSR CORPORATION, PISCATAWAY, NJ, AT A SCALE OF 1"=60', DATED 2/14/03.
4. LOCATIONS OF SEPTIC TANKS, LEACHATE PITS AND UNDERGROUND UTILITIES ARE BASED ON ELECTROMAGNETIC, GROUND-PENETRATING RADAR, AND FIELD SURVEY ACTIVITIES PERFORMED BY ARCADIS, AND THE FOLLOWING FIGURES:
 - A) "REFERENCE DRAWING OF THE HOOKER/RUCO SITE PLANT UTILITIES: OUTDOOR PIPING" BY LEGGETTE, BRASHEARS & GRAHAM, INC. OF WILTON, CT DATED 3/20/91, AT A SCALE OF 1"=30'.
 - B) "EXTRUDER BUILDING & PARKING AREA PILOT PLAN & DRAINAGE DET." BY CRAWFORD & RUSSELL, INC. OF STAMFORD, CT, LAST REVISION 5/9/61, AT A SCALE OF 1"=30'.
 - C) "SITE PLAN" BY CARL V. LINN, ENGINEER OF NEW YORK, NY, DATED 12/2/53, AT A SCALE OF 1"=50'.
 - D) "N.P.D. BUILDING DRAINAGE WATER" BY HOOKER CHEMICAL CORPORATION OF HICKSVILLE, NY.
 - E) "SITE PLAN" BY RUCO POLYMERS CORPORATION OF HICKSVILLE, NY, DATED 9/21/82.
5. LOCATION OF FORMER SUBSURFACE UTILITIES ARE APPROXIMATE.
6. FORMER SITE FEATURES SHOWN IN GRAY OR BLACK DASHED LINES.
7. TOPOGRAPHY IS BASED ON PHOTOGRAMETRIC MAPPING PERFORMED BY AXIS GEOSPATIAL LLC OF EASTON, MARYLAND IN DECEMBER 2011. THE TOPOGRAPHIC CONTOURS REPRESENT THE PRE-REMEDIATION SITE ELEVATION GROUND SURFACE.
8. SUBSURFACE UTILITIES WERE ABANDONED IN-PLACE OR REMOVED DURING REMEDIATION. SECTIONS OF UTILITIES WITHIN THE REMEDIAL EXCAVATION LIMITS SHOWN ON DRAWING 2 WERE REMOVED.
9. SOME OF THE REMAINING SUBSURFACE UTILITIES MAY CONTAIN ASBESTOS.



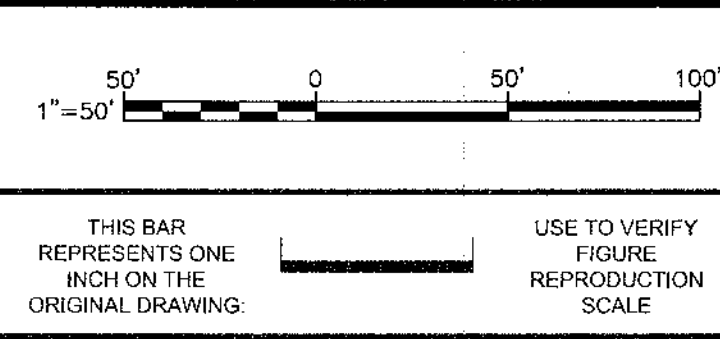
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C:\ENVCAD\SYRACUSE\ACT\B0032305\170100001\DWG\FER32305G02.dwg LAYOUT: 2 SAVED: 8/17/2017 7:27 AM ACADVER: 20.15 (LMS TECH) PAGES: 2
PLOT: 9/25/2017 7:27 AM BY: KRAHMER, ERIC



SURVEY CONTROL DESCRIPTION	NAD 1983		NAVD 88
	NORTHING	EASTING	ELEVATION
BM-1	215899.16	1121581.74	132.40
BM-2	215950.41	1121218.35	130.28
FF CROSS CURB	216112.75	1121414.46	130.45
FG CROSS CURB	216164.80	1121830.02	132.31
FC CROSS CURB (NOT SHOWN)	216027.97	1121064.74	129.05
FB EXIST PK	215995.55	1121271.08	130.56
FE EXIST PK	216000.35	1121109.57	129.19
FA SPIKE ASPH	215876.56	1121383.12	131.48

- LEGEND:
- EXCAVATION AREA PERIMETER
 - 2A EXCAVATION AREA ID
 - ④ FINAL REMOVAL DEPTH (FEET BGS)
 - BM-1 BENCHMARK
 - PROPERTY LINE
 - FORMER BUILDING
 - FORMER FEATURE
 - FENCE LINE
 - SEPTIC TANK (ABANDONED IN-PLACE)
 - LEACHATE PIT (ABANDONED IN-PLACE)
 - BGS = BELOW GROUND SURFACE
 - ICM = INTERIM CORRECTIVE MEASURE

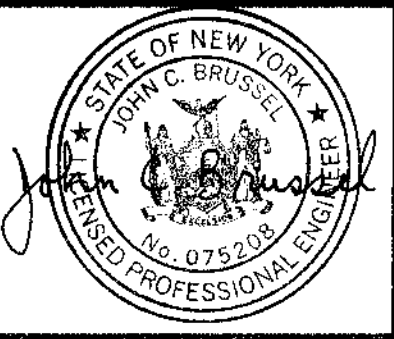
- NOTES:
- TOPOGRAPHY IS BASED ON PHOTOGRAMMETRIC MAPPING PERFORMED BY AXIS GEOSPATIAL, LLC OF EASTON, MARYLAND IN DECEMBER 2011. GRADES HAVE CHANGED FROM OU4 REMEDIAL ACTION.
 - ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON SURVEY CONTROL POINTS BM-1 AND BM-2.
 - HORIZONTAL COORDINATES ARE RELATIVE TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
 - THE DISTANCE BETWEEN THE FENCE LINE AND PROPERTY BOUNDARY IS BASED ON A PROPERTY BOUNDARY SURVEY COMPLETED BY MUNOZ ENGINEERING AND LAND SURVEYING, P.C. IN JANUARY 2014.
 - THE TOPOGRAPHIC CONTOURS REPRESENT THE PRE-REMEDIATION SITE ELEVATION GROUND SURFACE. THE SOIL SCRAPE AREA WAS APPROXIMATELY 2-3 FEET ABOVE THE PRE-REMEDIATION GRADE BEFORE BEING SCRAPED TO THE APPROXIMATE SURROUNDING GRADE AND REUSED AS SUBSURFACE FILL (>1 FOOT BGS) DURING THE 2009 ICM.
 - FINAL EXCAVATION DEPTHS ARE REPORTED IN FEET BELOW GROUND SURFACE (RELATIVE TO PRE-REMEDIATION GRADE).
 - EXCAVATION AREA BOUNDARIES ARE BASED ON SURVEY BY BAYER'S REMEDIAL CONTRACTORS (THE ENVIRONMENTAL QUALITY COMPANY AND POSILICO ENVIRONMENTAL, INC.).
 - SUBSURFACE UTILITIES WERE ABANDONED IN-PLACE OR REMOVED. UTILITIES ENCOUNTERED WITHIN THE REMEDIAL EXCAVATION LIMITS SHOWN ON THIS DRAWING WERE REMOVED TO FACILITATE SOIL EXCAVATION. SOME OF THE REMAINING UTILITIES MAY CONTAIN ASBESTOS.
 - BUILDING FOUNDATIONS WERE REMOVED TO A DEPTH OF APPROXIMATELY 2 FEET OR MORE BELOW ORIGINAL MANUFACTURING FACILITY GROUND SURFACE ELEVATIONS. FOUNDATIONS WERE REMOVED TO DEPTHS >2 FEET WITHIN REMEDIAL EXCAVATION FOOTPRINTS TO REMOVE IMPACTED SOIL TO DEPTHS SHOWN ON THIS DRAWING. FOUNDATIONS IN SELECTED AREAS (e.g. EASTERN PORTION OF PLANT 1 FOOTPRINT) WERE COMPLETELY REMOVED. SOME REMAINING FOUNDATIONS MAY BE CLOSER THAN 2 FEET FROM EXISTING GRADE DUE TO RE-GRADING PERFORMED IN SOUTHEASTERN PORTION OF SITE DURING SITE RESTORATION.



No.	Date	Revisions	By	Ckd

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Professional Engineer's Name
JOHN C. BRUSSEL P.E.
Professional Engineer's No.
075208
State
NY
Date Signed
9-25-17
Project Mgr.
JCB
Designed by
JCB
Drawn by
KLS
Checked by
(CHK)

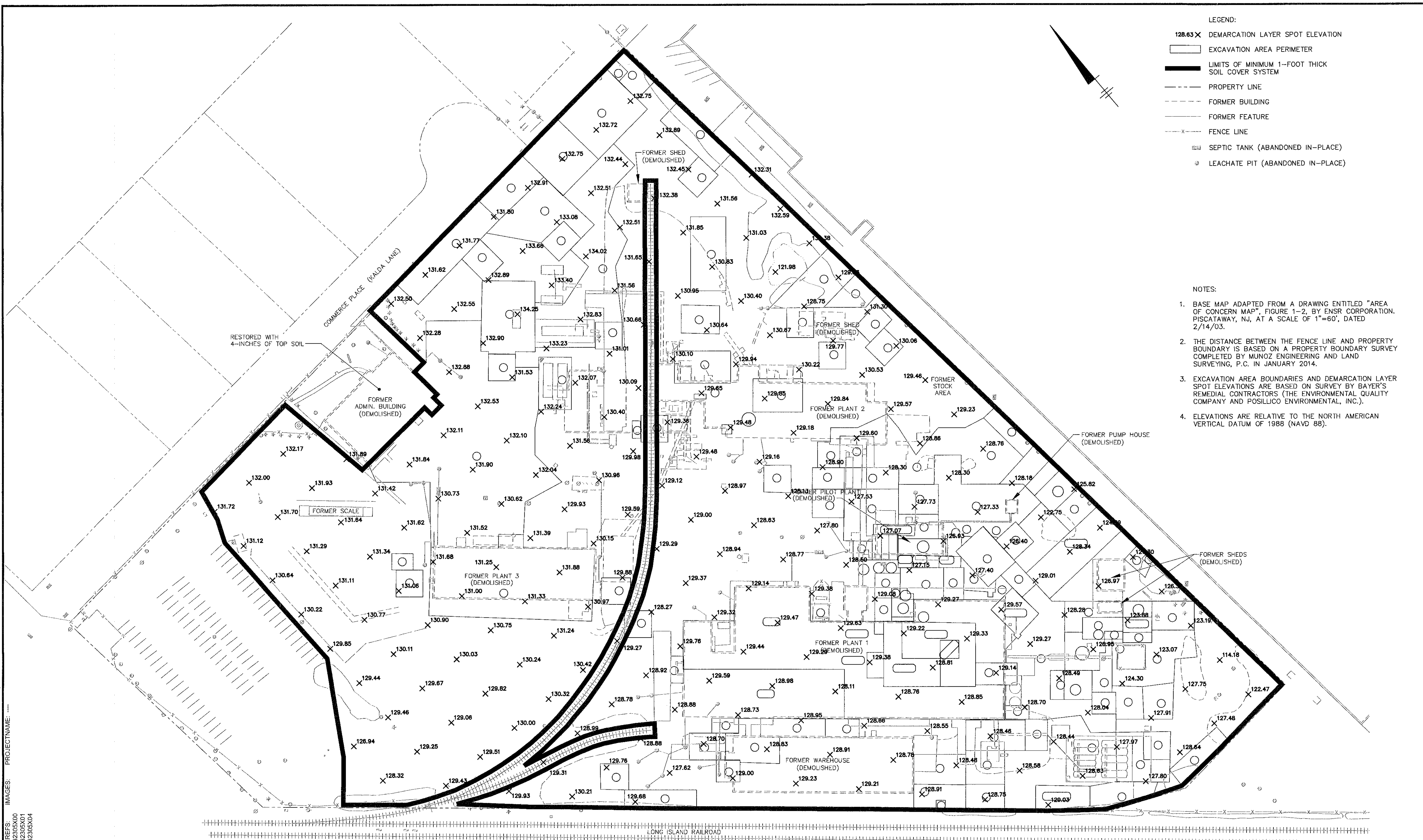


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COVESTRO LLC • HICKSVILLE, NEW YORK
FINAL ENGINEERING REPORT
FINAL EXCAVATION AREA LIMITS
GENERAL

ARCADIS Project No.
B0032305.1501.00001
Date
SEPTEMBER 2017
ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE ST., SUITE 300
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

CITY: SYRACUSE NY DIV:GROUP:ENVCAD DB:A.SCHILLING,K.SARTORI LD:K.SARTORI PIC:T.RATCHFORD PM:TW:J.BRUSSEL LVRONL="OFF"REF" C:\ENVCAD\SYRACUSE\ACT\B0032305\170100001\DWG\ENVCAD\B0032305\G04.dwg LAYOUT: 4 SAVED: 8/16/2017 1:41 PM ACADVER: 20.1S (LMS TECH) PAGES: 4 OF 4 PLOT: 1 OF 1 PLOT DATE: 8/16/2017 7:23 AM BY: KRAHMER, ERIC



1"=50'

50' 0 50' 100'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

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Professional Engineer's Name
JOHN C. BRUSSEL P.E.

Professional Engineer's No.
075208

State
NY

Date Signed
9-25-17

Project Mgr.
JCB

Designed by
JCB

Drawn by
KLS

Checked by
(CHK)

STATE OF NEW YORK
JOHN C. BRUSSEL
P.E.
075208
LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets

ARCADIS OF NEW YORK, INC.

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FINAL ENGINEERING REPORT

DEMARCATION LAYER LIMITS

GENERAL

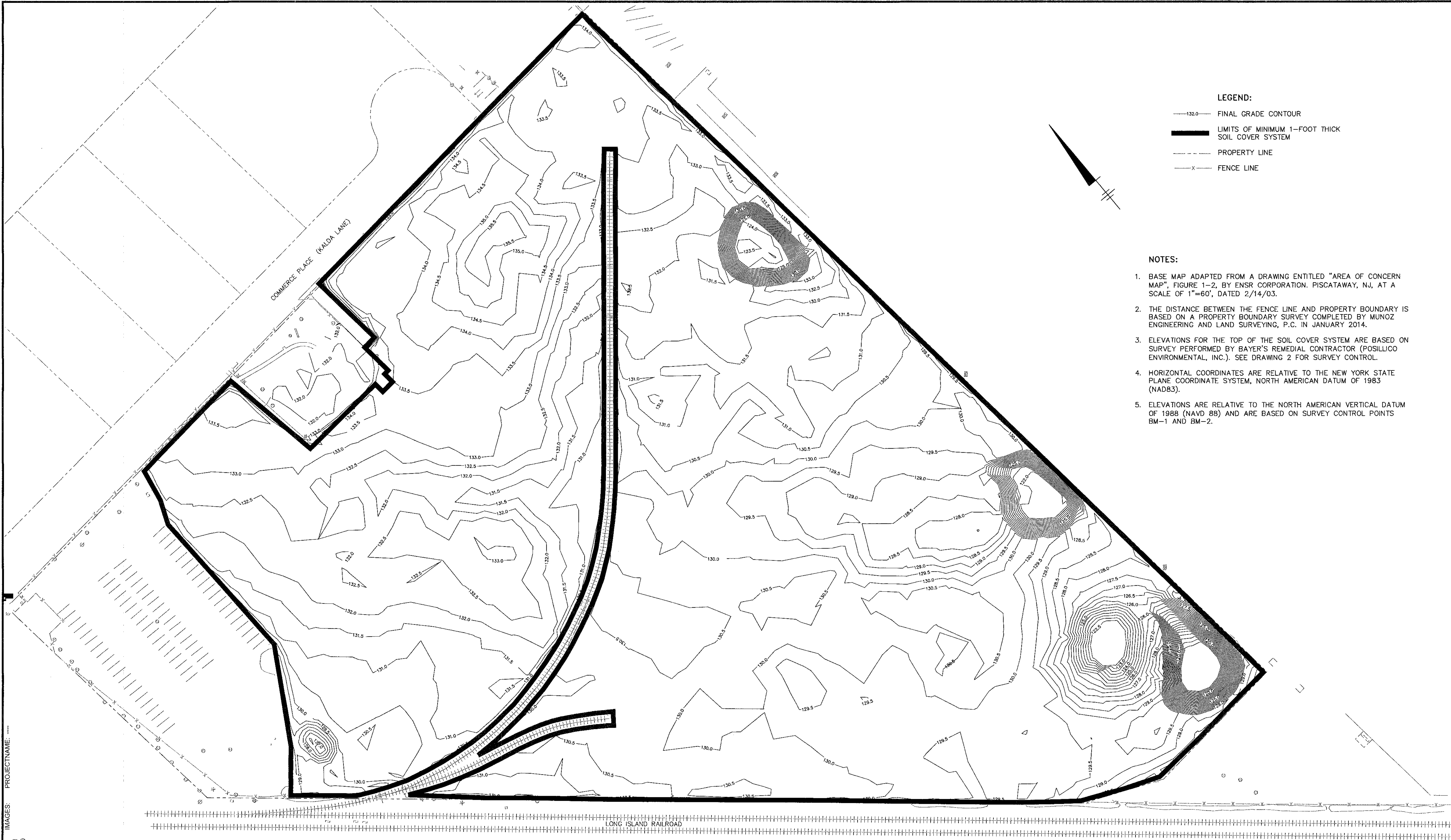
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CITY: SYRACUSE NY DIV: GROUP: ENVCAD DB: A. SCHILLING, K. SARTORI LD: K. SARTORI PIC: T. RATCHFORD PM/TM: J. BRUSSEL LYRON="OFF=REF" C:\ENVCAD\SYRACUSE\ACT180032305\170100001\DWG\FER32305G05.dwg LAYOUT: 5 SAVED: 8/17/2017 1:17 PM ACADVER: 20.1S (LMS TECH) PAGES: 5 PLOT: 9/26/2017 7:30 AM BY: KRAHMER, ERIC



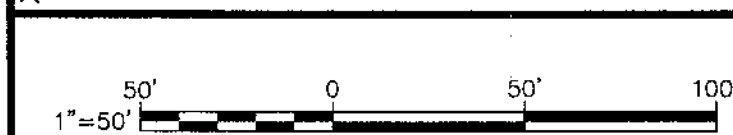
LEGEND:

- 132.0— FINAL GRADE CONTOUR
- LIMITS OF MINIMUM 1-FOOT THICK SOIL COVER SYSTEM
- - - - - PROPERTY LINE
- X- FENCE LINE

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING ENTITLED "AREA OF CONCERN MAP", FIGURE 1-2, BY ENSR CORPORATION, PISCATAWAY, NJ, AT A SCALE OF 1"=60', DATED 2/14/03.
2. THE DISTANCE BETWEEN THE FENCE LINE AND PROPERTY BOUNDARY IS BASED ON A PROPERTY BOUNDARY SURVEY COMPLETED BY MUNOZ ENGINEERING AND LAND SURVEYING, P.C. IN JANUARY 2014.
3. ELEVATIONS FOR THE TOP OF THE SOIL COVER SYSTEM ARE BASED ON SURVEY PERFORMED BY BAYER'S REMEDIAL CONTRACTOR (POSILICO ENVIRONMENTAL, INC.). SEE DRAWING 2 FOR SURVEY CONTROL.
4. HORIZONTAL COORDINATES ARE RELATIVE TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
5. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON SURVEY CONTROL POINTS BM-1 AND BM-2.

REFS:
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32305X00

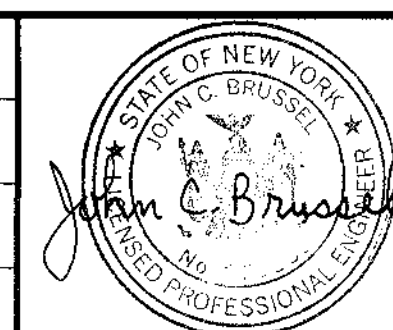


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FINAL ENGINEERING REPORT
POST-REMEDIATION SOIL COVER SYSTEM SURFACE ELEVATIONS AND SITE CONDITIONS
GENERAL

ARCADIS Project No.
B0032305.1501.00001
Date
SEPTEMBER 2017
ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE ST., SUITE 300
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

APPENDIX A

Environmental Easement and Boundary Survey



**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 20th day of June, 2017 between Owner, Covestro LLC, having an office at 1 Covestro Circle, Pittsburgh, Pennsylvania 15205, County of Allegheny, State of Pennsylvania (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233;

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 125 New South Road in the Hamlet of Hicksville, Town of Oyster Bay, County of Nassau and State of New York, known and designated on the tax map of the County Clerk of Nassau as tax map parcel numbers: Section 46 Block N Lots 30 and 31, being the same as that property conveyed to Grantor by deed dated April 25, 2003 and recorded in the Nassau County Clerk's Office in Liber and Page 11655/448, being the same property conveyed to Grantor by confirmation deed dated October 29, 2015 and recorded in the Nassau County Clerk's Office as Instrument # 2015-25354. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 15.1 +/- acres, and is hereinafter more fully described in the Land Title Survey dated February, 2014 and last revised January 21, 2016 prepared by Matthew Ziolkowski, P.L.S. of Munoz Engineering, P.C., which will be attached to the Site Management Plan ("SMP"). The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Controlled Property is part of the Hooker Chemical/Ruco Polymer

Superfund Site, which was placed on the National Priorities List (NPL) established under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (CERCLA) in 1986; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: A1-0781-11-11 dated June 21, 2012, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a commercial and/or industrial use (consistent with the allowable uses outlined in the SMP) while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved SMP including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the SMP;

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Nassau County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the Controlled Property must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6 NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the Controlled Property to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such Controlled Property:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such Controlled Property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Controlled Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 130004
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway

Albany, New York 12233-5500

All notices and correspondence shall be delivered by hand, by registered mail or by Certified Mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Controlled Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Controlled Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Controlled Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Covestro LLC:

By: _____

Print Name: John Lemmex

Title: CFO Date: June 9, 2017

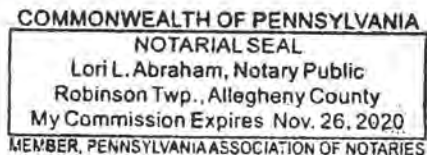
Grantor's Acknowledgment

COMMONWEALTH OF PENNSYLVANIA)
) ss
COUNTY OF ALLEGHENY)

On the 9th day of June, in the year 20 17, before me, the undersigned, personally appeared John Lemmex, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Lori L. Abraham

Notary Public - Commonwealth of Pennsylvania



CO-MONWORTH OF PENNSYLVANIA
 ARIAL SEAL
 Notary Public
 p. Allegheny County
 My Comm. Expires Nov. 20, 2020
 REASSOCIATION OF NOTARIES

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

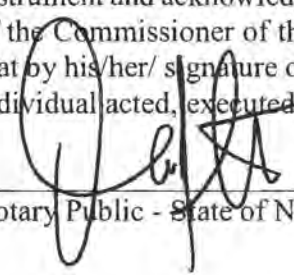
By:


Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 19 day of June, in the year 2017 before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.


Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

Address: 125 New South Road
Hicksville, Nassau County, New York

Tax Map Nos.: 46-N-30 & 46-N-31

SURVEYOR'S DESCRIPTION OF TOTAL ENVIRONMENTAL EASEMENT:

All that tract or parcel of land situated in the Town of Oyster Bay, County of Nassau, and State of New York, and being bounded and described as follows:

BEGINNING at a point formed by the intersection of the northeasterly line of the Long Island Railroad right of way with the easterly side of New South Road (Ketcham Road);

Running thence along said easterly side of New South Road North 05 Degrees 47 Minutes 25 Seconds East a distance of 25.81 feet to a point;

Thence still along said easterly side of New South Road North 04 Degrees 27 Minutes 15 Seconds East a distance of 271.88 feet to land now or formerly Zirk;

Thence along the last mentioned line, South 84 Degrees 37 Minutes 30 Seconds East a distance of 892.43 feet to a point;

Thence along the land now or formerly K & T Realty Corporation, South 05 Degrees 03 Minutes 22 Seconds West a distance of 1,019.86 feet to a point;

Thence North 85 Degrees 00 Minutes 00 Seconds West a distance of 160 feet, to a point.

Thence North 55 Degrees 35 Minutes 00 Seconds West a distance of 90.86 feet to a point on the northeasterly line of the Long Island Railroad right of way;

Thence along said Long Island Railroad right of way North 38 Degrees 32 Minutes 45 Seconds West a distance of 942.85 feet to the easterly side of New South Road and the point or place of BEGINNING.

The above described parcels contain 657,138 square feet or 15.1 acres, more or less.

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at www.derweb@dec.ny.gov.

SURVEYOR'S DESCRIPTION - ENVIRONMENTAL EASEMENT,
ENTIRE PROPERTY - TAX MAP PARCEL #S: 46-N-30 & 31

ON ALL THAT CERTAIN PLOT, PIECES OR PARCELS OF LAND, situate in the Town of Oyster Bay, County of Nassau, and State of New York, being bounded and described as follows;

BEGINNING at a point formed by the intersection of the northeasterly line of the Long Island Railroad right of way with the easterly side of New South Road (Ketcham Road);

Running thence along said easterly side of New South Road North 05 Degrees 47 Minutes 25 Seconds East a distance of 25.81 feet to a point;

Thence still along said easterly side of New South Road North 04 Degrees 27 Minutes 15 Seconds East a distance of 271.88 feet to land now or formerly Zirk;

Thence along the last mentioned line, South 84 Degrees 37 Minutes 30 Seconds East a distance of 892.43 feet to a point;

Thence along the land now or formerly K & T Realty Corporation, South 05 Degrees 03 Minutes 22 Seconds West a distance of 1,019.86 feet to a point;

Thence North 85 Degrees 00 Minutes 00 Seconds West a distance of 160 feet, to a point;

Thence North 55 Degrees 35 Minutes 00 Seconds West a distance of 90.86 feet to a point on the northeasterly line of the Long Island Railroad right of way; and

Thence along said Long Island Railroad right of way North 38 Degrees 32 Minutes 45 Seconds West a distance of 942.85 feet to the easterly side of New South Road and the point or place of BEGINNING.

The above described parcel contains 657,138 Square Feet or 15.1 Acres.

ABBREVIATION:

L.I.R.R.	LONG ISLAND RAIL ROAD
P.O.B.	POINT OF BEGINNING
F.K.A.	FORMERLY KNOWN AS
Sq. Ft.	SQUARE FEET
O/H	OVERHEAD UTILITIES

LEGEND:

ENVIRONMENTAL EASEMENT AREA

ENVIRONMENTAL EASEMENT LINE

LOT LINE

CHAIN LINK FENCE

RAILROAD TRACKS

CURB

OVERHEAD UTILITIES (O/H)

PROPERTY LINE BEARING

UTILITY POLE

GUY WIRE

WATER VALVE

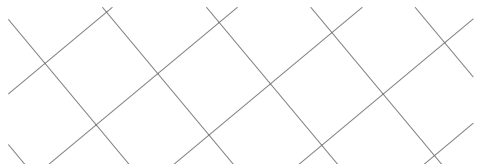
FIRE HYDRANT

SIGN

UNKNOWN UTILITY MANHOLE

GAS VALVE

ELECTRIC BOX

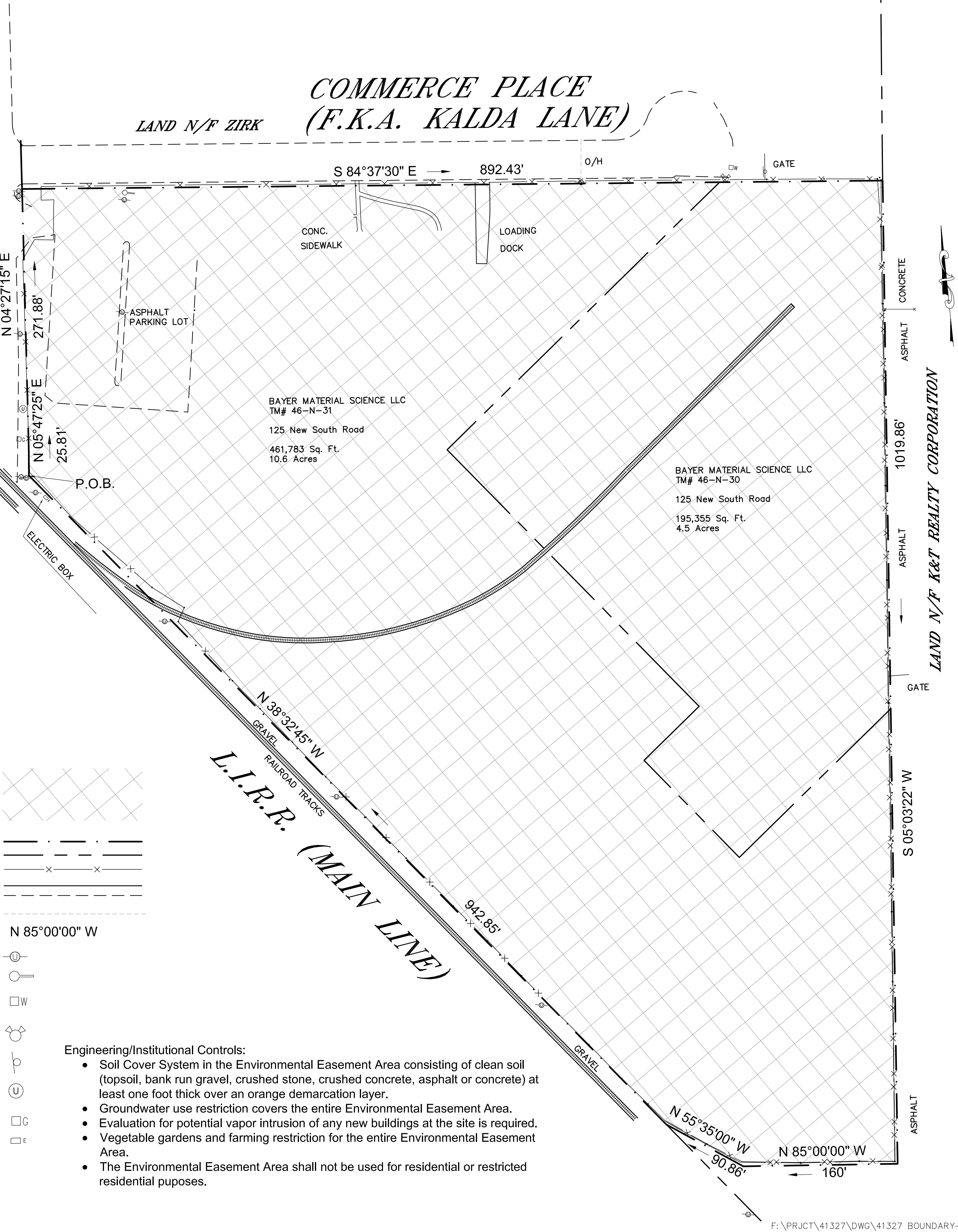


N 85°00'00" W

Engineering/Institutional Controls:

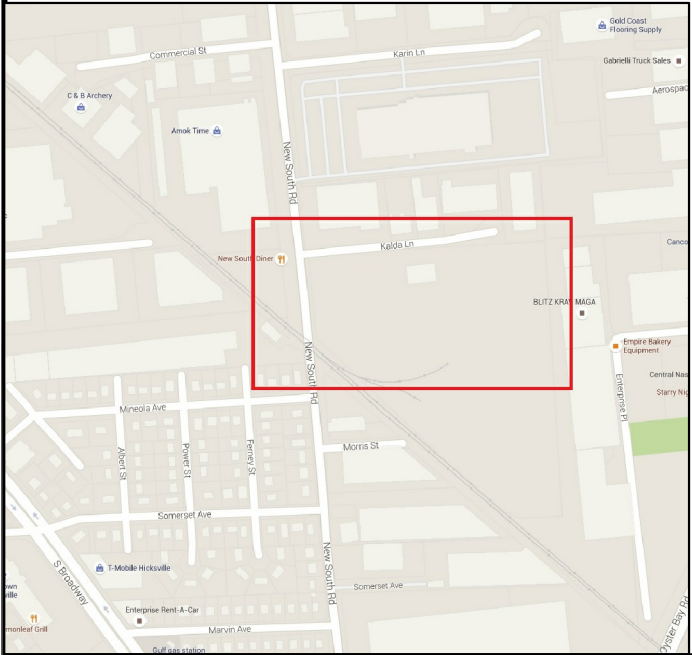
- Soil Cover System in the Environmental Easement Area consisting of clean soil (topsoil, bank run gravel, crushed stone, crushed concrete, asphalt or concrete) at least one foot thick over an orange demarcation layer.
- Groundwater use restriction covers the entire Environmental Easement Area.
- Evaluation for potential vapor intrusion of any new buildings at the site is required.
- Vegetable gardens and farming restriction for the entire Environmental Easement Area.
- The Environmental Easement Area shall not be used for residential or restricted residential puposes.

NEW SOUTH ROAD
(F.K.A. KETCHAM ROAD)

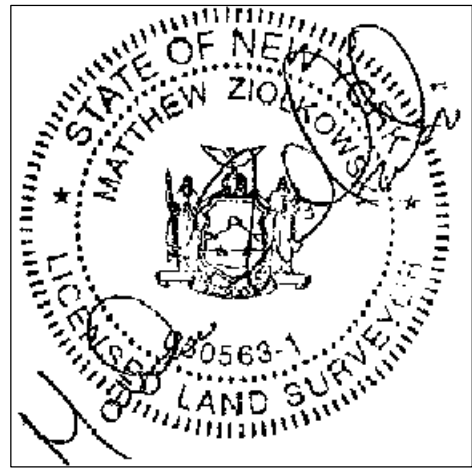
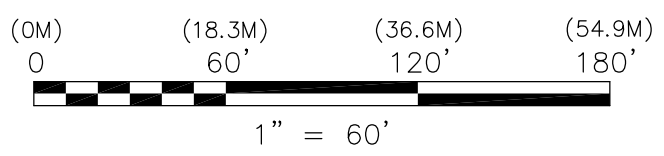


F:\PRJCT\41327\DWG\41327 BOUNDARY-SURVEY.DWG

VICINITY MAP



SCALE



CERTIFIED BY

ZIOLKOWSKI MATTHEW
PROFESSIONAL LAND SURVEYOR
NY STATE LIC No. 050563-1
NJ STATE LIC No. 246504223800

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF ARTICLE 134 SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW"

"Copies from the original of this survey map not marked with an original of the land surveyor's inked seal or his embossed seal shall not be considered a valid true copy."

1	1/21	LAND N/F OWNER	BR	MZ
NO.	DATE	DESCRIPTION	BY	APPR'D

REVISIONS

MUÑOZ
ENGINEERING P.C.
505 EIGHTH AVENUE
NEW YORK, N.Y. 10018
TEL. (212) 967-6588

**ENVIRONMENTAL
EASEMENT PLAN
NYSDEC SITE #130004
125 NEW SOUTH ROAD
HICKSVILLE,
TOWN OF OYSTER BAY,
NASSAU COUNTY, NEW YORK**

Date 1/21/16	Project No. 41327	Drawn CFA	Approv. MZ
Survey Date: FEBRUARY, 2014		Drawing No. B-1	
Survey Crew:		Sheet No. 1 OF 1	