From:	Noelle Clarke <nclarke@rouxinc.com></nclarke@rouxinc.com>
To:	Chad Staniszewski <crstanis@gw.dec.state.ny.us></crstanis@gw.dec.state.ny.us>
CC:	<joseph.a.abel@exxonmobil.com></joseph.a.abel@exxonmobil.com>
Date:	4/5/2011 1:33 PM
Subject:	RE: Former Buffalo Terminal - OU1 Construction Certification Report

Chad,

The topsoil came from the following supplier:

Brenon Top Soil 5530 Killian Road North Tonawanda, NY 14120

Based on information from the vendor, the topsoil is virgin soil from farm land and wooded areas.

Please let me know if you need any additional information.

Noelle M. Clarke, P.E. Principal Engineer

Remedial Engineering, P.C. Roux Associates, Inc.

209 Shafter Street Islandia, New York 11749 Phone: (631) 232-2600 Fax: (631) 232-9898 Web page: www.rouxinc.com

-----Original Message-----From: Chad Staniszewski [mailto:crstanis@gw.dec.state.ny.us] Sent: Tuesday, April 05, 2011 10:11 AM To: Noelle Clarke Cc: joseph.a.abel@exxonmobil.com Subject: Former Buffalo Terminal - OU1 Construction Certification Report

Hi Noelle,

I reviewed the Final Construction Certification Report for OU-1 dated March 17, 2011. One piece of information that I could not find:

1. What was the source of topsoil used to backfill the 2010 excavation? I located the analytical data but I need to know the source (Facility/Address and the original source).

Let me know and hopefully we can finally put this to rest.

Thanks, Chad

Chad Staniszewski, PE Environmental Engineer II NYS Department of Environmental Conservation Region 9 270 Michigan Office Phone: (716) 851-7220 Office Fax: (716) 851-7226 ExxonMobil Refining & Supply Company 1001 Wampanoag Trail East Providence, Rhode Island 02915 401 434 2900 Telephone 401 431 4028 Facsimile

> ExonMobil Refining & Supply

March 18, 2011

Mr. Chad Staniszewski New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203 RECEIVED NYSDEC REGION 9

MAR 2 3 2011

REL UNREL

RE: EXXON MOBIL OIL CORPORATION FORMER BUFFALO TERMINAL 625 ELK STREET BUFFALO, NEW YORK BROWNFIELD SITE #C915201 OPERABLE UNIT 1 FINAL CONSTRUCTION CERTIFICATION REPORT

Dear Mr. Staniszewski:

Attached, please find the "Final Construction Certification Report" dated March 17, 2011 for Operable Unit 1 for the above referenced site.

If there are any questions please call me at (401) 434-7356.

Sincerely,

A. Abel.لكر

Project Manager

CRS \_\_\_\_

March 17, 2011

# FINAL CONSTRUCTION CERTIFICATION REPORT

ExxonMobil Former Buffalo Terminal Buffalo, New York

**Prepared** for:

EXXONMOBIL OIL CORPORATION 1001 Wampanoag Trail Riverside, Rhode Island 02915

**Remedial Engineering, P.C.** *Environmental Engineers* 

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# **1.0 INTRODUCTION**

On behalf of ExxonMobil Oil Corporation (ExxonMobil), Remedial Engineering, P.C (Remedial Engineering) and Roux Associates, Inc. (Roux Associates) have prepared this Final Construction Certification Report (FCCR; formerly referred as the Final Engineering Report (FER) for the portion of the ExxonMobil former Buffalo Terminal (Site) designated as Operable Unit 1 (OU-1) located north of Elk Street. This FCCR is a revised version of the FER dated December 7, 2007 which incorporates the following:

- New York State Department of Environmental Conservation (NYSDEC) comment letter dated April 3, 2008;
- Remedial Engineering response letter dated May 29, 2008;
- NYSDEC emailed comments dated July 22, 2008;
- Remedial Engineering response letter dated September 3, 2008;
- NYSDEC emailed comments dated November 14, 2008;
- Discussions between ExxonMobil, NYSDEC, Remedial Engineering and Groundwater& Environmental Sciences (GES) regarding OU-1 held during meetings in January and June 2009;
- Remedial Engineering response letter dated August 27, 2009;
- NYSDEC letter entitled "OU-1 Construction Certification Report" dated November 10, 2009; and
- Remedial Engineering response letter dated January 8, 2010.

The former ExxonMobil Buffalo Terminal and offsite areas currently and formerly owned by ExxonMobil located at 625 Elk Street, Buffalo, New York are shown on Figure 1.

In order to address the environmental conditions, ExxonMobil entered into a Brownfield Site Cleanup Agreement with the NYSDEC on April 3, 2006. Under this agreement, the Site entered into New York State's Brownfield Cleanup Program (BCP). The Site is defined, for the purposes of the BCP, as the area within the limits of the five Operable Units (OUs) as shown in Figure 2. In addition, the Site was divided into nine geographic areas for the purpose of assessing environmental conditions and reporting the results of area-specific activities (Figure 3). These geographic areas were designated according to the historical primary operations that occurred in

each portion of the Site. The area of the Site that is the subject of this FCCR is within Operable Unit 1 (OU-1) within the area previously designated as the Elk Street Properties Area (ESPA).

The portion of the Site south of Elk Street is currently operating as a petroleum products storage and distribution facility owned and operated by Buckeye Terminals, LLC (Buckeye) with the surrounding non-operating area (formerly part of historic operations) owned by ExxonMobil. The requirements and recommendations of the NYSDEC guidance document, Draft Brownfield Cleanup Program Guide (May 2004), were incorporated into this FCCR in addition to the requirements and recommendations of the NYSDEC "Draft DER-10 Technical Guidance for Site Investigation and Remediation (DER-10)," dated December 25, 2002 (DER-10 has since been revised on May 3, 2010; however, the bulk of the remedial activities were completed prior to the revision).

All remedial activities and were performed in accordance with the directives and guidelines contained within the following documents:

- Title 6 of the New York Code of Rule and Regulations (6 NYCRR) Part 375 (Part 375) dated December 14, 2006;
- NYSDEC draft BCP Guide dated May 2004;
- Draft DER-10 dated December 2002;
- The Alternatives Analysis Report/Remedial Action Work Plan for Operable Unit 1 dated January 8, 2007; and
- Response to NYSDEC February 15, 2007 Comment letter on the AAR/RAWP for OU-1 dated March 13, 2007.

The primary objective of the remediation, as stated in the February 15, 2007 response to comment letter, was to implement Remedial Alternative 2 presented in the AAR/RAWP, which would achieve a Track 2 Commercial Use scenario for OU-1, as selected by the NYSDEC.

Clean Harbors was the general contractor for the remediation. Under the direct supervision of Remedial Engineering P.C., GES provided field oversight of the specified remedial activities and implemented the required Community Air Monitoring Plan (CAMP) during all excavation activities.

The remainder of the FER is organized as follows:

- Section 2.0 describes the Site and its history;
- Section 3.0 describes the results of the previous environmental investigation, including site geology and hydrology, soil quality, groundwater quality, and regulatory status;
- Section 4.0 provides a summary of the remedial construction activities performed at the Site, including soil excavation and disposal; and
- Section 5.0 presents the Engineer's Certification.

# 2.0 SITE SETTING AND HISTORY

The historical information presented in this section was obtained from the document entitled "History of Operations at Buffalo Terminal" (Roux Associates, 2000).

The site refinery and terminal operations occurred south of Elk Street in an area of approximately 89 acres. The petroleum refining operations at the Site began during 1880. The majority of the Site was purchased by Standard Oil Company of New York (SOCONY), ExxonMobil's predecessor, in 1892. Throughout the Site's history, the areal extent of property owned by ExxonMobil changed as portions of property were acquired or sold for various reasons. In May 1981, the Site terminated all refinery operations. The Site continued as an ExxonMobil distribution terminal, receiving product via a pipeline and barge until May 2005. The active petroleum products storage and distribution terminal portion of the Site was sold on May 4, 2005 and is now owned and operated by Buckeye. The area of Buckeye's active terminal is approximately 35.8 acres. The area within the current ExxonMobil property boundary is approximately 43.6 acres.

# 2.1 General History of the OU-1

There are two parcels associated with OU-1, which are located on the north side of Elk Street (Figure 2). The total area of OU-1 is 1.8 acres. The following is a description of Parcels No. 4 and No. 5 of OU-1, including locations of the parcels and the previous and current structures located on these parcels.

- Parcel No. 4. This parcel measures 106 feet by 115 feet (0.28 acres) and is located on the northwest corner of Elk Street and Winona Street. Prior to 1976, this parcel was occupied by residential structures. Parcel No. 4 was purchased by Mobil following a product release from Tank 60, which occurred on March 12, 1976 and is described in detail in Section 2.3. The residential structures were demolished following the release. Since 1976, Parcel No. 4 has remained vacant; however, it was being used for parking during portions of this time period. The History Document indicated that Parcel No. 4 of OU-1 was occupied by Trico Products Corp.; however, it is currently vacant and enclosed by a fence installed by ExxonMobil in July 2000.
- Parcel No. 5. This parcel measures 208 feet wide and 325 feet long on its eastern boundary with Bradford Street and 295 feet long on its western boundary with Winona Street (1.5 acres). Parcel No. 5 is located on the north side of Elk Street between Winona Street and Bradford Street. Prior to 1976, this parcel was partially occupied by residential structures. Parcel No. 5 was purchased by Mobil following a product release from Tank 60, which occurred on March 12, 1976 and is described in detail in Section 2.3.

The residential structures were demolished following the release. Since 1976, Parcel No. 5 has remained vacant; however, it was being used for parking during portions of this time period. The property is currently vacant and enclosed by a fence installed by ExxonMobil in July 2000.

# 2.2 Former and Current Structures on Parcels No. 4 and No. 5

Following the release incident from former Tank 60 in 1976, ExxonMobil purchased and demolished the residential structures present on Parcels No. 4 and No. 5. The structure that had existed to the north of the northwest portion of Parcel No. 5 was demolished at some point between 1974 and October 1976, but was not related to the ExxonMobil purchase and demolition due to the release incident. Figure 4 shows the buildings present at the time of the release that were subsequently demolished and buildings that are still present. Information on Figure 4 was developed based on a 1974 aerial photograph and a 1976 aerial photograph. Since 1976, Parcels No. 4 and No. 5 have remained vacant; however, they were used for parking during portions of this time period.

Currently, Parcels No. 4 and No. 5 are vacant and are enclosed by a chain link fence installed by ExxonMobil (shown on Figure 4).

# 2.3 Zoning and Land Use of OU-1

The zoning of OU-1 is M1 (light industrial district). A figure obtained from the City of Buffalo website showing the zoning for OU-1 is provided as Figure 5. Based upon an inquiry to the City of Buffalo zoning department in June 2006, the use of OU-1 for residential purposes occurred prior to any zoning ordinance taking effect.

Until recently, there was no comprehensive development plan in place for this portion of Buffalo. However, ExxonMobil and other stakeholders in the area have undertaken an evaluation of the best future use of the property and surrounding areas of this portion of Buffalo known as the "Elk Street Corridor." In October 2008, the results of the evaluation were documented in a final report entitled "Elk Street Corridor Redevelopment Plan" dated October 2008. The proposed land use for the Site based on the preferred redevelopment incorporated the following general goals for the corridor:

• Maintaining four anchor properties in the area, one of which is the Buckeye Terminal;

- Building the proposed "Southtowns Connector" to connect areas south of the Buffalo River to Interstate 190; and
- Providing a green space setback of 100 feet from the Buffalo River shoreline, as well as other green space areas.

The proposed zoning for OU-1 in the preferred redevelopment plan is light industrial. ExxonMobil has no current plans for OU-1. The reasonably anticipated future use of OU-1 will be vacant land surrounded by a fence, which is consistent with the zoning of the property.

# 2.4 Spills/Releases

Only one release has been documented to have impacted OU-1 (Table 1). The information and documentation for this release were provided by current and/or former ExxonMobil employees, contractors, residents, photographs taken at the time, and NYSDEC Spill Report Form for Spill No. 9314016, dated February 1, 1994.

The release occurred on March 12, 1976. The roof of Tank 60 ruptured when hot cracking stock for the Thermofor Catalytic Cracking (TCC) unit entered the tank from the crude unit. The hot product contacted ice in the bottom of the tank, causing it to expand, increase the pressure within the tank, and damage the roof. The cracking stock spilled onto Elk Street and Parcels No. 4 and No. 5. At that time, Parcels No. 4 and No. 5 were partially occupied by residential structures, as described above. The structures present were affected by the release. ExxonMobil cleaned up the cracking stock by vacuuming off excess product and then mixing the remaining material with sand, excavating the material, and disposing of it offsite. Subsequently, ExxonMobil purchased Parcels No. 4 and No. 5 were not impacted by the release and, therefore, were not purchased by ExxonMobil (Figure 4). Soil sampling was not conducted as part of the cleanup or demolition effort in 1976.

# 3.0 SUMMARY OF ENVIRONMENTAL CONDITIONS

Data regarding environmental conditions on OU-1 were obtained from a review of the results of previous investigations, the additional investigations completed in August and November 2006 in response to the NYSDEC requests, and the ongoing monitoring program at the Site. Figure 4 presents sampling locations from all investigations completed in OU-1, currently existing buildings that were present during the incident at former Tank 60, and former buildings that were present prior to the Tank 60 incident and subsequently demolished. This section includes a summary of the major findings and conclusions of the investigations completed in OU-1.

# 3.1 Previous Investigations to Delineate Impacts from the 1976 Release at Former Tank 60

Investigation activities performed during the 1993 GTI Site Assessment, the 1998 Site Facility Investigation (SFI), the 1999 Site Facility Investigation Completion (SFI Completion), and the 2001 ESPA (OU-1) Investigation Completion completed the delineation of the impacts on Parcels No. 4 and No. 5 of OU-1 resulting from the 1976 release at former Tank 60. The scope of work for the various investigations is described briefly below.

# Environmental Site Assessment, conducted by Groundwater Technology, Inc. (GTI) in October 1993 (GTI, 1994)

This Site assessment included:

- Installation of 15 shallow and five deep soil borings;
- Collection and inspection of soil samples from the upper two feet of each boring;
- Analysis of one composite soil sample from the one to two foot below grade depth interval (designated SS#1 through SS#4) from four groups of five borings for total petroleum hydrocarbons (TPH) by Gas Chromatograph Flame Ionization Detector (GC-FID), chloride, and metals (a different color symbol is used on Figure 4 to represent each group of five borings that contributed to the four composite samples analyzed);
- Installation of temporary well points at the five deep soil boring locations (TWP-01 through TWP-05); and
- Groundwater sampling at four of the five temporary well locations (TWP-02 through TWP-05) for TPH, chloride, and metals.

# Site Facility Investigation conducted by Groundwater & Environmental Services, Inc. from June through August 1998 (Roux Associates, Inc., 1998)

This investigation included:

- Completion of 12 soil borings (ESL-1 through ESL-12);
- Collection of 12 surface soil samples from ESL-1 through ESL-12 from 0-0.5 feet below any surface concrete, asphalt, or debris present and analysis for semivolatile organic compounds (SVOCs) and metals;
- Collection of three soil samples from 1.5-2 feet below surface material at ESL-4, ESL-8/ESL-W1, ESL-12, and analysis for volatile organic compounds (VOCs);
- Collection of one soil sample from 8-10 feet below land surface (bls) at ESL-8/ESL-W1 and analysis for SVOCs, VOCs and metals; and
- Installation and groundwater sampling of one soil boring/temporary well (ESL-8/ESL-W1) and analysis for SVOCs and VOCs. ESL-8/ESL-W1 was abandoned by removing the screen and casing and grouting the hole following the completion of the SFI.

# Site Facility Investigation Completion conducted by Groundwater & Environmental Services, Inc. and Roux Associates from July through October 1999 (Roux Associates, Inc., 1999)

This investigation included:

- Completion of eight soil borings, ESL-13 through ESL-20 (five borings on OU-1 and three borings on properties to the north of OU-1), to depths up to four feet bls; and
- Collection of soil samples in three depth ranges (0-0.5 feet, 1-2 feet, and 2-3 feet below any concrete, asphalt, or debris material present at the boring location) and analysis for SVOCs and metals.

#### Elk Street Properties Area Investigation Completion conducted by Groundwater & Environmental Services, Inc. and Roux Associates on December 14, 2001 (Roux Associates, Inc., 2002)

This investigation included:

- Completion of six soil borings, ESL-21 through ESL-26 (three borings on Parcel No. 4 and three borings to the north of Parcel No. 5), from land surface to three feet bls;
- Collection of soil samples in two depth ranges (0-0.5 feet and 2-3 feet below any concrete, asphalt, or debris material present at the boring location) and analysis for SVOCs and reduced Target Analyte List (TAL) metals for cadmium, chromium, lead, mercury, nickel, selenium, thallium, and vanadium; and
- Samples were not analyzed for VOCs based on previous sample results.

#### 3.2 Additional Investigation Completed in August 2006

The following section describes additional soil and groundwater sampling activities in OU-1 that were completed in August 2006 in response to the comments contained in the NYSDEC letter dated June 1, 2006 regarding the RAWP for OU-1 dated May 12, 2006 and that were discussed during the meeting held at NYSDEC offices in Buffalo on June 26, 2006. The additional investigation work was conducted in accordance with the Work Plan for Additional Investigation in OU-1, Site #C915201 dated July 12, 2006 and subsequent letter regarding Modifications to the Work Plan for Additional Investigation in OU-1 dated July 24, 2006. The goal of the additional investigation performed in August 2006 was to complete the delineation of constituents that were not analyzed during previous investigations (selected metals, PCBs, pesticides, herbicides) and for delineation of VOCs that were only analyzed to a limited extent during previous investigations.

#### **3.2.1** Temporary Monitoring Wells

Three temporary groundwater-monitoring wells were installed on August 9, 2006, in the locations shown on Figure 4. One well was installed in Parcel No. 4 and two wells were installed in Parcel No. 5 of OU-1. The wells were designated MW-OU1-1, MW-OU1-2, and MW-OU1-3, as shown on Figure 4.

In accordance with ExxonMobil and Roux Associates' ground disturbance protocols, each location was cleared to a depth of five feet bls using an ExxonMobil approved method (i.e., hand auger). The monitoring wells were drilled using a hollow-stem auger drill rig with 4.25-inch augers. Continuous split-spoon sampling was performed from five feet bls to up to 13 bls, depending upon the conditions observed, as described below. Split spoon soil samples were field-screened for VOCs using a portable photoionization detector (PID) and logged for lithology.

Proposed monitoring wells were constructed of 2-inch diameter polyvinylchloride (PVC) casing and riser with five feet of 2-inch diameter PVC screen. The screen slot size was 0.010 inches (10 slot).

In accordance with the work plan, since saturated conditions were not observed above the clay layer, the entire five-foot screen was set within the clay. The bottom of the well was set at 10.5 to

13 feet bls. A gravel pack consisting of number 0 size Morie gravel extended to one foot above the top of the screen. The well annulus was sealed with bentonite pellets to the top of the clay to seal the clay layer off from the geologic units above. The remainder of the borehole was backfilled with drill cuttings from the top of the clay to land surface.

Since the wells were located within the fully fenced areas of OU-1 and since the wells were temporary, protective casings were not installed over the PVC stickups. However, a locking cap was provided for each well. The temporary wells were surveyed for measuring point and horizontal location on August 25, 2006.

The temporary monitoring wells were developed on August 11, 2006 by bailing until dry. Approximately five gallons of water were removed from MW-OU1-1 and approximately one gallon each was removed from MW-OU-2 and MW-OU-3 during development.

# 3.2.2 Soil Sampling

Up to three soil samples were collected from each of the three temporary monitoring well locations and each of the three soil boring locations shown on Figure 4.

The following samples were collected from each of the following depth intervals, above the clay layer:

- Zero to one foot bls at all six locations;
- One to two feet bls at all six locations; and
- Greater than two feet bls at SB-OU1-2 (two to three feet bls) and SB-OU1-3 (three to four feet bls).

At MW-OU-1 through MW-OU1-3 and SB-OU1-1, the clay layer was encountered at shallower than three to four feet bls; therefore, only two samples were collected.

The samples were analyzed for all parameters shown in "Table 375-6.8(b): Restricted Use Soil Cleanup Objectives" of Part 375 dated December 14, 2006 according to the following methods:

• Herbicides by United States Environmental Protection Agency (USEPA) method SW-846-8151A.

- Pesticides and polychlorinated biphenyls (PCBs) by USEPA methods SW-846-8081A/8082.
- VOCs by USEPA method SW-846-8260.
- SVOCs by USEPA method SW-846-8270.
- Arsenic, barium, beryllium, cadmium, copper, cyanide, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc by USEPA method SW-846-6010B).
- Total mercury by USEPA method SW-846-7471.
- Total chromium, hexavalent chromium, and trivalent chromium method SW-846-7196A.

The samples for all analytical parameters except VOCs were collected as a composite of each interval. VOCs were collected as a grab sample from the top of the interval since no PID readings or petroleum-related impacts (i.e., staining, sheen, odor) were observed. In accordance with the Quality Assurance Project Plan (QAPP) for Additional Investigation in OU-1 for the investigation that was included as Attachment 1 to the letter regarding Modifications to the Work Plan for Additional Investigation in OU-1 dated July 24, 2006, the samples were sent under chain of custody to TestAmerica Analytical Testing Corporation in Nashville, Tennessee for analysis.

Quality Assurance/Quality Control (QA/QC) samples, including duplicates, trip blanks, and matrix spike/matrix spike duplicate (MS/MSD) samples were collected in accordance with the QAPP. The field blank was inadvertently omitted.

#### **3.2.3** Water Level Gauging

Water levels within the newly installed temporary groundwater monitoring wells in the clay were gauged prior to and following sampling on August 14, 2006 and August 31, 2006, respectively. In addition, three monitoring wells (B-1MW, MW-34, and MW-35) on the main portion of the former Buffalo Terminal property south of Elk Street were gauged at the same time to provide an indication of the groundwater flow direction in the vicinity of OU-1.

#### **3.2.4 Groundwater Sampling**

Groundwater was sampled from each temporary well. One unfiltered sample and one filtered sample (through a 0.45-micron pore size filter) were collected from each well. The filtered samples were intended to remove suspended particulate matter that may contain or carry the target

parameters. Each groundwater sample was analyzed for the same list of parameters as the soil samples. As noted in the work plan, the filtered samples were not analyzed for VOCs.

QA/QC samples, including duplicates, trip blanks, field blanks, and MS/MSD samples were collected in accordance with the QAPP for Additional Investigation in OU-1.

#### 3.2.5 Data Usability Summary Report

A data usability summary report (DUSR) was completed for the additional investigation samples conducted in August 2006 by Data Validation Services (DVS) of North Creek, New York. The DUSR was submitted under separate cover as Addendum No. 1 to the AAR/RAWP and was dated November 14, 2006 and was included in the Revised AAR/RAWP as Appendix B. In the instances where DVS suggested adding a qualifier to the laboratory data or that data is rejected, the summary tables were modified to reflect that qualification and resubmitted with the DUSR. The revised tables, where applicable, were included in the January 8, 2007 AAR/RAWP and were noted as "revised" in the title. A thorough description of the rationale related to the data validation is provided in the narrative of the DUSR included as Appendix B of the AAR/RAWP.

#### 3.3 Additional Investigation Completed in November 2006

The following section describes additional soil sampling activities in OU-1 that were completed in November 2006 in response to the comments contained in the NYSDEC email dated October 30, 2006 regarding the AAR/RAWP for OU-1 dated October 17, 2006. The additional investigation work was conducted in accordance with the Work Plan for Additional Investigation in OU-1, Site #C915201, dated July 12, 2006 and Addendum No. 1 to Work Plan for Additional Investigation in OU-1, Site #C915201, dated November 7, 2006. The goal of the additional investigation completed in November 2006 was to aid in the evaluation of a Track 2 cleanup scenario for OU-1, as requested by NYSDEC. The additional investigation activities in OU-1 were intended to help to better define the amount of soil exceeding the Part 375 commercial criteria for arsenic and lead in the one to two foot below grade interval, thus potentially reducing the amount of soil that would need to be removed to achieve a Track 2 cleanup. The discrete sampling data collected in August and November 2006 supersedes the composite data collected in 1993 in the one to two foot depth interval by GTI.

#### 3.3.1 Soil Sampling

One soil sample in the one to two foot below grade interval was collected from each of the six soil boring locations shown on Figure 1. The locations were selected to provide additional data in portions of Parcels No. 4 and No. 5 where only composite sample data from the 1993 GTI investigation was available.

The samples were collected as a composite of the one to two foot depth interval. The two samples in Parcel No. 4 (OU-1 SS-5 and OU-1 SS-6) and the two samples in the middle third of Parcel No. 5 (OU-1 SS-3 and OU-1 SS-4) were analyzed for arsenic and lead only by USEPA method 6010 since these were the only parameters that exceeded the Part 375 commercial criteria in the composite samples in these locations. The two samples in the southern third of Parcel No. 5 (OU-1 SS-1 and OU-1 SS-2) were analyzed for arsenic only since this was the only compound that exceeded the Part 375 commercial criteria in the composite sample at this location. Quality Assurance/Quality Control samples were collected in accordance with the QAPP.

#### 3.4 Results of All Investigations in OU-1

The following sections provide a summary of all investigations completed in OU-1.

#### 3.4.1 Geology

The former Buffalo Terminal is located within the Erie-Ontario Lowland physiographic region of the Interior Plains Division. In general, the region is underlain by Silurian and Devonian age interbedded shales, siltstones, sandstones, limestones, and dolomites, dipping approximately 0.50 degrees to the south.

According to data from the well and soil boring logs from previous investigations, three unconsolidated deposits exist at OU-1. The first is a fill layer that consists of black cinders, silt, gravel, sand, slag, brick, coal, and wood. The second unit consists of alluvial deposits of silts, silts and clays, sands, and sands and gravel. The third unit is a gray to brown glacio-lacustrine clay. Based upon the boring log from ESL-8/ESL-W1, which was completed to a depth of 16 feet bls, the fill layer was approximately two-feet thick and was underlain by a layer of silt and clay from 2-4 feet bls and clay from 4-16 feet bls. Based upon the boring logs from ESL-13 through ESL-26, which were completed to depths up to four feet bls, fill thickness ranged from one foot to

four feet. Fill was underlain by silts, sands, and gravel intermixed with clay. Bedrock was not encountered in any of the borings installed in OU-1 prior to August 2006.

The more recent monitoring wells and soil borings installed in August 2006 to depths up to 13 feet bls indicate that topsoil/fill ranged in thickness from 0.5 to two feet and is underlain by a gray to brown silty clay (MW-OU1-1, MW-OU1-2 and SB-OU1-1 through SB-OU1-3) ranging in thickness from zero to 10.5 feet or gray to brown clay (MW-OU1-3) approximately 3.5 feet thick. At MW-OU1-3, the gray to brown clay was underlain by 5.5 feet of silty clay and finally by 1.5 feet of gravel and sand from nine to 10.5 feet bls. Bedrock may have been encountered at 10.5 feet bls at MW-OU1-3 where refusal occurred and dark limestone with white crystals was present in the drill cuttings.

#### 3.4.2 Hydrogeology

The water table was encountered at approximately five feet bls at ESL-8/ESL-W1 during its installation. No additional depth to water measurements were recorded at this well. This temporary well was abandoned by removing the screen and casing, and grouting the hole following the completion of the SFI.

The water table was encountered at approximately five feet bls at MW-OU1-1, at between 7.5 and nine feet bls at MW-OU1-2 and between 7 and 8 feet bls at MW-OU1-3. The water table elevations on OU-1 range from 577 to 579 feet above mean sea level and suggest a hydraulic gradient toward the east. However, based upon the direct observation of the lithology and the limited yield of the wells on OU-1, it is clear that the clay layer beneath OU-1 is not a significant water bearing formation. MW-OU1-1 produced only 5 gallons of water before it was bailed dry and MW-OU1-2 and MW-OU1-3 each produced only 1 gallon before they were bailed dry. Recharge in all of these wells was extremely slow, with MW-OU1-2 and MW-OU1-3 requiring sampling over three work days to accumulate sufficient water to collect the necessary groundwater sample volume. Attempting to draw meaningful conclusions regarding flow direction beneath OU-1 based on the available water level data from these wells would be questionable.

As discussed in prior reports, groundwater flow beneath the area is generally expected to be toward the Buffalo River. The water table elevations in the three wells measured on the northern portion of the Site south of Elk Street (B-1MW, MW-34 and MW-35) range from 584 to 585 feet above mean sea level. Due to the differences in construction of the new wells on OU-1 (i.e., wells were screened entirely within the clay) compared to the existing wells on the main portion of the Site (wells were installed with screens straddling the fill layer and the clay layer), a direct comparison of water level elevations is not appropriate.

# 3.4.3 Soil Quality

Tables 3 through 7 of the January 8, 2007 AAR/RAWP (not duplicated in this report) summarize analytical results for SVOCs, metals, VOCs, PCBs and pesticides/herbicides, respectively, for the soil samples collected during all investigations on OU-1. Soil quality data from all investigations has been compared to the Part 375commercial and industrial soil quality criteria, which are each protective of human health and the environment and which are consistent with the Part 375commercial and industrial criteria for protection of human health presented in Part 375 dated December 14, 2006. This comparison enables identification of areas that may pose a potential risk under a commercial land use scenario, which is an upgrade to the current zoning and reasonably anticipated future use of OU-1 or an industrial land use scenario, which is consistent with the zoning and reasonably anticipated future use of OU-1.

A summary map (Plate 1) was prepared using the analytical database and MapInfo<sup>™</sup> Geographic Information System (GIS) Software to show soil concentration data any compound from previous investigations that exceeded the Part 375 commercial and/or industrial cleanup criteria. The maps only present data for the target analytes that exceeded the Part 375 commercial and/or industrial criteria in at least one sample. The only compounds that exceeded the criteria were six SVOCs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, chrysene, dibenzo[a,h]anthracene and indeno[1,2,3-cd]pyrene) and three metals (arsenic, cadmium and lead).

As discussed previously, the goal of the investigations completed on Parcels No. 4 and No. 5 of OU-1 prior to August 2006, was to delineate the nature and extent of soil impacts from the historic release of product from former Tank 60 in 1976. The goal of the additional investigation completed in August and November 2006 was to complete the delineation of constituents that were not analyzed during previous investigations (selected metals, PCBs, pesticides, herbicides), for delineation of VOCs that were only analyzed to a limited extent during previous investigations,

and to provide additional data for arsenic and/or lead in portions of Parcels No. 4 and No. 5 where only composite sample data from the 1993 GTI investigation was available and exceeded the proposed criteria.

The major findings regarding soil quality throughout Parcels No. 4 and 5 of OU-1 and properties to the north of Parcel No. 5 are summarized below.

- VOCs were not detected above the Part 375 commercial or industrial criteria in any of the samples collected.
- Consistent with the type of product released during the historic 1976 incident (i.e., heavy end cracking stock), SVOCs were detected above the Part 375 commercial and/or industrial criteria in the northeast portion of Parcel No. 5 (ESL-12, ESL-13, ESL-14, and ESL-15). Exceedances of these criteria were generally an order of magnitude higher in this area than at the other locations. The only SVOC with exceedances of the Part 375 commercial or industrial criteria outside of the northeast portion of Parcel No. 5 is benzo[a]pyrene. The exceedances of benzo[a]pyrene are randomly distributed and are indicative of background influences (i.e., residential uses, previous and current property owner usage, regional industrial influences, nearby highways, and urban fill).
- Concentrations of SVOCs decrease with depth. Outside the northeast portion of Parcel No. 5, no exceedances of the Part 375 commercial and/or industrial criteria were observed below 1 foot indicating that impacts due to background influences are confined to the upper one foot of soil. However, in the northeast portion of Parcel No. 5, elevated SVOC concentrations extended deeper than in other areas. In the northeast portion of Parcel No. 5 in the greater than two feet bls interval, higher SVOC concentrations (up to an order of magnitude greater) exceeding the Part 375 commercial and/or industrial criteria were observed at ESL-13 through ESL-15 than at other sample locations. Impacts from the incident at former Tank 60 likely do not extend below an approximate depth of four feet bls, where the clay layer is encountered based upon the decrease in concentrations and the type of product released.
- Metals are not constituents of concern for the type of product released from former Tank 60, however arsenic, cadmium and lead are present above the Part 375 commercial criteria and arsenic is present above the Part 375 industrial criteria due to background influences (i.e., residential uses, previous property owner usage, regional industrial influences, nearby highways, and urban fill).
- Arsenic is present above the Part 375 commercial and industrial criteria at one location on Parcel No. 4 in the shallow interval. Based upon the 1993 GTI composite borings, arsenic was present above both criteria at three of the four 1993 composite sample locations (one on Parcel No. 4 and two on Parcel No. 5) in the one to two foot bls depth interval. However, based upon the historic and recent sampling of individual locations in the one to two foot depth interval, arsenic was not present above either criteria in Parcel No. 4 and was present above both criteria at only one location in the middle third of OU-1 (OU-1 SS-4) and one location in the bottom third of OU-1 (OU-1 SS-2), in Parcel No. 5.

- The only location where cadmium is present above the Part 375 commercial criteria is at ESL-11 in the shallow interval in Parcel No. 5. The concentration of cadmium at this location is 9.7 ppm compared to the Part 375 commercial criteria of 9.3 ppm (only 1.04 times the criteria).
- Lead is present above the Part 375 commercial criteria at two locations within OU-1 (one on each parcel) in the shallow interval. Based upon the 1993 GTI composite borings, lead was present above the Part 375 industrial criteria at two of the four 1993 composite sample locations (one on each parcel). However, based upon historic and recent sampling of individual locations in the one to two foot interval, lead is present above the Part 375 commercial criteria at only one location in parcel No. 5 (ESL-14).

Based upon the results of the investigations, the remaining impacts attributable to the historic release from former Tank 60 and the impacts due to background influences have been delineated. The impacts due to the historic release are the elevated SVOC concentrations present in the northeast portion of Parcel No. 5 (ESL-12, ESL-13, ESL-14, and ESL-15) and the impacts due to background influences are the concentrations of benzo[a]pyrene, arsenic, cadmium and lead (as compared to the Part 375 commercial criteria) and of benzo[a]pyrene and arsenic (as compared to the Part 375 industrial criteria) outside of the northeast portion of Parcel No. 5.

The soil quality data from previous investigations indicates that the response actions taken following the release in 1976 (i.e., vacuuming of product from the surface, removal of impacted soil, purchase of properties, and demolition of structures) were effective in removing impacted soil that resulted from the release, except in the northeast portion of Parcel No. 5 of OU-1.

It should be noted, that based upon data collected by New York State Department of Health (NYSDOH) that is summarized in the final technical report entitled "Seneca-Babcock Neighborhood Soil Sampling Program" dated July 1998, the neighborhood surrounding OU-1 is known to have concentrations of metals and SVOCs similar to those observed outside the northeast portion of Parcel No. 5 (the only location where impacts from the 1976 release are still evident).

# 3.4.4 Groundwater Quality

Tables 9 through 13 of the January 8, 2007 AAR/RAWP (not duplicated in this report) summarize analytical results for SVOCs, VOCs, metals, PCBs, and pesticides/herbicides, respectively, for the groundwater samples collected during all investigations on OU-1. No significant impacts to

groundwater quality in OU-1 have been observed. The following is a summary of the groundwater quality data collected in OU-1:

- Impact to groundwater (as determined by GC FID) was observed at only one out of four locations sampled during the 1993 GTI investigation (TPH =  $5.7 \mu g/L$  at TWP-03); and
- No VOCs or SVOCs were detected in the groundwater sample collected from ESL-8/ESL-W1 during the SFI, which was located in the vicinity of the temporary well TWP-03.
- No SVOCs, PCBs, pesticides or herbicides were detected in the groundwater samples collected in August 2006.
- Acetone was the only VOC detected in the groundwater samples collected in August 2006 (at MW-OU1-2 and MW-OU1-3). The concentrations did not exceed the NYSDEC AWQSGV.
- Several metals were detected at low levels in the samples collected in August 2006, including barium, beryllium, cyanide, lead, manganese and zinc. However, none of the concentrations exceeded the NYSDEC AWQSGVs. In general, the concentrations of metals in the filtered samples were lower than in the unfiltered samples.

Based upon the groundwater data presented in this section, groundwater has not been impacted by the historic release from former Tank 60 or from background influences. Therefore, groundwater does not require remediation and was not addressed further in the January 8, 2007 AAR/RAWP.

# 3.4.5 Separate-Phase Product

No separate phase product was detected in any of the wells or temporary well points installed in OU-1.

# 4.0 SUMMARY OF REMEDIAL ACTION

Provided below is a summary of the remediation activities conducted at the Site, including the scope of work outlined in the remediation plans and the implementation of the plans. The initial phase of the remediation work described herein was performed in accordance with the following documents:

- 6 NYCRR Part 375 dated December 14, 2006;
- NYSDEC draft BCP Guide dated May 2004;
- Draft DER-10 dated December 2002;
- The Alternatives Analysis Report/Remedial Action Work Plan for Operable Unit 1 dated January 8, 2007; and
- Response to NYSDEC February 15, 2007 Comment letter on the AAR/RAWP for OU-1 dated March 13, 2007.

The initial phase of remedial work was conducted between May 7, 2007 and July 20, 2007. However, work was not continuous during this time due to periods of inactivity while waiting for sample results and disposal facility approval.

Additional excavation was completed on May 17 through 19, 2010 to address NYSDEC comments regarding the northern portion of Parcel No. 5 as described in Remedial Engineering's letter dated January 8, 2010.

Daily construction reports completed during the work are presented in Appendix A.

#### 4.1 Remedial Goals and Remedial Action Objectives

The AAR/RAWP described the remedial goals and Remedial Action Objectives (RAOs) for OU-1.

As described in Section 4.1 of the Draft BCP Guide, "the goal of the remedy selection process in the BCP is to select a remedy for a site that is fully protective of public health and the environment, taking into account the current, intended, and reasonably anticipated future land use of the site".

The remedial goal for OU-1 is to meet the Part 375 commercial criteria at any depth above the clay. Consistent with the Draft BCP Guide, the proposed remedy for OU-1 was fully protective of public health and the environment, taking into account the current, intended, and potential future land use. The remedy that was implemented to achieve the Part 375 commercial criteria for protection of human health was an upgrade to the current zoning of the property, which is M-1 (light industrial district) and the light industrial zoning proposed in the Elk Street Corridor Redevelopment Plan.

Based upon the identification of the contaminants and impacted media, as described in previous investigation reports and summarized in Section 3.0, identification of the applicable SCGs, taking into consideration current and potential future land use and identification of the actual or potential public health and/or environmental exposures, the only appropriate RAO for the proposed remedial action is to prevent ingestion/direct contact with impacted soil.

The AAR/RAWP described the implementation of the remediation, provided technical specifications for the work and included the following associated plans required for implementation of the remedy in accordance with NYSDEC guidelines:

- Community Air Monitoring Plan for Operable Unit 1 AAR/RAWP
- Quality Assurance Project Plan for Operable Unit 1 AAR/RAWP

In addition, a Site-Specific Health and Safety Plan (HASP) was prepared, submitted under separate cover to the NYSDEC and New York State Department of Health (NYSDOH) prior to beginning the remedial construction activities.

#### 4.2 Standards, Criteria and Guidance

SCGs are promulgated requirements ("standards" and "criteria") and non-promulgated guidance ("guidance") that govern activities that may affect the environment and are used by the DER at various stages in the investigation and remediation of a site. SCGs incorporate both the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986's (CERCLA) concept of "applicable or relevant and appropriate requirements" (ARARs) and the United States

Environmental Protection Agency's (USEPA) "to be considered" (TBCs) category of nonenforceable criteria or guidance. SCGs applicable to OU-1 are as follows:

#### SCGs for Soil

The SCGs for soil were developed to remediate impacts that are the result of the historic release of product from former Tank 60 in 1976 and impacts due to background influences based on a commercial use scenario (which is an upgrade to the current zoning) and the reasonably anticipated future use of OU-1 as vacant land surrounded by a fence. Therefore, the SCGs for soil at any depth above the clay layer are the Part 375 commercial cleanup criteria for protection of human health shown on Table 2.

#### 4.3 Mobilization/Site Preparation

The mobilization consisted of transporting necessary equipment to the Site and setting up OU-1 for implementation of the work. Mobilization to the Site occurred on May 7, 2007 for the initial phase of work and on May 17, 2010 for the additional excavation work.

Site preparation included:

- Setting up soil staging areas;
- Installing filter fabric on the fence surrounding Parcels No. 4 and No. 5 as a dust control measure (fabric remained in place after the initial phase of work and was maintained during the 2010 work).
- Installing sediment and erosion control measures;
- Clearing vegetation, as necessary, for access to the excavation area; and
- Marking out excavation areas.

#### 4.4 Traffic Control

Detailed traffic control procedures were implemented in accordance with the contractor's HASP. The primary truck route from the project site to the New York State Thruway, described in the AAR/RAWP, was followed.

#### 4.5 Storm Water Management and Erosion Control

During both phases of work (2007 and 2010), all necessary measures to temporarily control erosion were employed. Erosion control measures were implemented in accordance with the report titled "NYS Guidelines for Urban and Sediment Control" dated April 1997. During the initial phase of work in 2007, silt fence was installed along the northern fence line of Parcel No. 4 and along portions of the northern and eastern fence line of Parcel No. 5 (for erosion and dust control). The silt fence was keyed into the soil at the bottom and extended up the fence to six feet high and fastened to the fence. Silt fence was installed prior to the implementation of the remediation and was maintained throughout the duration of all remedial construction activities. After the completion of topsoil grading and seeding, the filter fabric was cut down to within one foot of land surface and left keyed into the soil. Although vegetation has been established at this point, the silt fence remains in place and was maintained during the second phase of work in 2010.

In addition, the entrance and adjacent street areas were swept and/or cleaned, as necessary, throughout the work day, and at the end of the workday, to keep the streets free of soil or other debris generated from the work site during the duration of all excavation activities.

#### 4.6 Health and Safety and Community Air Monitoring

All remedial construction activities were performed in a manner consistent with 29CFR 1910 and 1926. Each consultant and contractor onsite operated under a site-specific HASP for the project, which was submitted to NYSDEC. The site-specific HASP was readily available during the work. During all phases of Site work, the Contractor monitored safety and health conditions and fully enforced the site-specific HASP. The Contractor was responsible for monitoring general Site conditions and for safety hazards. Specifically, monitoring was performed to verify that all requirements of the Occupational Safety and Health Administration, as outlined on 29 CFR Part 1910 and 1926, were adhered to.

Ambient air was monitored at the site perimeter throughout the course of the work for particulate matter in accordance with the CAMP. Monitoring for VOCs was not conducted as part of the CAMP since VOCs are not constituents of concern for OU-1. During the course of the work, the Contractor took abatement measures, as directed or as otherwise necessary, to minimize the levels

of particulates at the limits of the work. There were no CAMP action level exceedances during the work.

Maps indicating meter locations are provided in Appendix A with the daily construction reports. Daily CAMP data summaries are provided in Appendix B. Downloaded data from the CAMP monitoring are provided in a compact disc located in the back of the report.

#### 4.7 Dust Control

Dust (particulate matter) was controlled at the Site in accordance with the site specific CAMP, the NYSDEC Technical and Administrative Guidance Memorandum #4031 – Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites (TAGM 4031), and all federal, state and local requirements. The Contractor maintained all excavations, stockpiles, and all other work areas to minimize dust that would cause a hazard or nuisance to others. As noted above, as a dust control measure, filter fabric was installed on the northern fence line of Parcel No. 4 and on the fence to the north of the proposed excavation area adjacent to Bradford Street for the length of the excavation since there are occupied structures on the east side of Bradford Street.

Dust was monitored by GES in accordance with the requirements of the Contractor's HASP, the CAMP, and the NYSDEC TAGM 4031. Based on the results of the monitoring, the Contractor implemented necessary measures to control dust to acceptable levels, including but not limited to, one or more of the following measures:

- 1. misting equipment and excavation fences;
- 2. spraying water (using atomizer) on buckets during excavation and dumping;
- 3. hauling materials in tarped or lined containers;
- 4. reducing speed of vehicles moving through the construction area;
- 5. covering excavated material stockpiles and/or portions of the stockpile, as necessary, throughout the day and after excavation activities cease each day; and
- 6. stopping work.

#### 4.8 Excavation and Offsite Disposal

All excavation work was performed in accordance with the specifications and details provided in the AAR/RAWP and HASP. The initial phase of excavation and offsite disposal was begun on May 8, 2007 and was completed on July 18, 2007. However, it should be noted that excavation and disposal work was not continuous during this time, as work was temporarily suspended while awaiting laboratory results or approval from disposal facilities. Additional excavation was completed between May 17 and 19, 2010 to address NYSDEC comments regarding the northern portion of Parcel No. 5 as described in Remedial Engineering's letter dated January 8, 2010. In accordance with the January 8, 2010 letter, this area was excavated laterally to the property line and vertically to the native silty clay and therefore, as approved by NYSDEC, no endpoint samples were collected. GES, under the direction of Remedial Engineering, provided full-time oversight during the excavation and disposal work completed by Clean Harbors.

All impacted soil excavated from the Site was transported by Pariso Trucking of Tonawanda, New York and disposed of in accordance with all applicable federal, state, and local regulations at Allied/BFI Niagara Falls Landfill in Niagara Falls, New York. Copies of the waste profiles for the excavated soil are included in Appendix C. Copies of the waste manifests for the soil removed from the Site are provided in Appendix D (located on a compact disc in the back of the report). Haul vehicles for bulk soil were secured with appropriate covers prior to exiting the construction area to prevent a release of waste.

#### Originally Proposed Scope of Excavation

As described in the Response to NYSDEC February 15, 2007 Comment letter on the AAR/RAWP for OU-1 dated March 13, 2007, the area requiring excavation to meet the Part 375 commercial criteria was estimated to be approximately 7,150 square feet on Parcel No. 4 and 45,500 square feet on Parcel No. 5. The total area of planned excavation for Parcel No. 4 was entirely within the zero to one foot below grade interval. The total area of planned excavation on Parcel No. 5, was comprised of 26,300 square feet in the zero to one foot below grade depth interval and 4,700 square feet in the two to three foot below grade depth interval. Therefore, the estimated volume of soil to be removed from Parcels No. 4 and 5 in the zero to one foot below grade interval was 1,250 cubic yards, the volume to be removed from Parcel No. 5 in the one to two foot below grade interval was 540 cubic yards

and the volume to be removed from Parcel No. 5 in the two to three foot below grade depth interval was 180 cubic yards for a total of 1,970 cubic yards to achieve the Part 375 commercial use criteria for OU-1 at any depth above the clay.

#### Actual Scope of Excavation Completed

In addition to the originally proposed scope of work described above, additional excavation in Parcels No. 4 and No. 5 was completed based on the results of post-excavation sample results (described in Section 4.11). The approximate total volume of soil excavated to meet the Part 375 commercial use criteria at any depth above the clay during both phases of work was 5,788 tons (approximately 3,859 cubic yards at 1.5 tons per cubic yard), broken down as follows:

- 5,614 tons (approximately 3,743 cubic yards) during the initial phase of work in 2007
- 174 tons (approximately 116 cubic yards) during the second phase of work on 2010

Of this total, 568 tons (approximately 379 cubic yards) was removed from Parcel No. 4 and 5,220 tons (approximately 3,480 cubic yards) was removed from Parcel No. 5.

The following is a breakdown of the approximate excavation volumes with depth for Parcel No. 4:

- Excavation to one foot bls: 73 tons
- Excavation to 1.67 feet bls: 495 tons

The following is a breakdown of the approximate excavation volumes with depth for Parcel No. 5:

- Excavation to native clay to two feet bls: 1,710 tons
- Excavation to native soil (two to three feet bls): 1,898 tons
- Excavation to native soil (three feet bls): 1612 tons

All excavation areas in Parcels No. 4 and No. 5 were excavated to native silty clay material except the one area in Parcel No. 4 that is noted as being excavated to one foot below grade. The bottom sample from this area, designated OU-1-PEB-4 (0-1'), which was collected on May 10, 2007, met the Part 375 commercial criteria therefore additional excavation was not required. Figure 6 shows the surveyed limits of excavation, with various excavation depths shown in different colors (areas

excavated to native clay are shown identified). Appendix E includes photos of the construction activities.

#### 4.9 Temporary Staging and Stockpiling

During the initial phase of work in 2007, all impacted material was stockpiled in accordance with the specifications, except that a combination decontamination area/staging area was not used (decontamination is described below). Stockpiles were lined and covered with a single layer of minimum 6-mil plastic sheeting. Stockpiles were routinely inspected and broken sheeting covers were promptly replaced. Soil stockpiles were continuously encircled with hay bales. During the additional excavation activities in 2010, soil was excavated and loaded directly into disposal vehicles and transported offsite, therefore staging of soil was not required.

#### 4.10 Waste Characterization Sampling

One sample per 500 cubic yards of material excavated was collected for waste characterization using a hand auger prior to excavation or was composited from excess material available from post excavation samples. In accordance with the QAPP for OU-1, samples were analyzed by TestAmerica. In accordance with the ExxonMobil-approved disposal facility, the samples were analyzed for the following:

- target compound list (TCL) VOCs and SVOCs according to USEPA Methods SW-846 8260 and 8270, respectively;
- TPH for gasoline and diesel range organics (by Method SW-846 8015B);
- reduced TAL metals by Method SW-846 6010 (includes cadmium, chromium, lead, nickel, selenium, thallium, and vanadium) and Method SW-846 7471 for mercury;
- the full list of toxicity characteristics leaching procedure (TCLP) analyses (metals, VOCs, SVOCs, pesticides, and herbicides);
- corrosivity;
- reactivity; and
- ignitability.

The waste characterization samples are summarized in Tables 3 through 11. Waste characterization laboratory data are presented in Appendix F (located on a compact disc in the back of the report).

#### 4.11 Post-Excavation Sampling

In accordance with the AAR/RAWP, initially post excavation bottom sampling (at a frequency of one sample per 2,000 square feet of bottom area) was conducted for constituents that exceeded the Part 375 commercial use criteria in previous sampling events, SVOCs and metals (arsenic, cadmium and/or lead), to confirm that the Part 375commercial criteria were met. Excavation was continued (only to the top of the clay) in areas where the post excavation bottom samples initially indicated concentrations above the Part 375commercial criteria. Excavation did not continue into the clay layer. On June 21, 2007, Chad Staniszewski of the NYSDEC indicated that bottom sampling of the excavations was no longer required based on visual observations of the excavation work. After June 21, 2007, with the concurrence of NYSDEC, excavations were terminated based upon visual observations of native silty clay soil being reached.

Figure 6 present the post excavation composite sample locations at one foot below grade, 1.67 feet below grade, 2 feet below grade and generally 3 feet below grade. Samples that had one or more compounds that exceeded the Part 375commercial criteria are shown in red text. SVOCs were analyzed for STARS list SVOCs only by USEPA method 8270. Metals were analyzed by USEPA method 6010. Post excavation sample results are summarized in Tables 12 and 13 for SVOCs and metals, respectively. Laboratory data reports are included in Appendix G (located on a compact disc in the back of the report).

All excavation areas shown on Figure 6 in Parcels No. 4 and No. 5 were excavated to native silty clay material except the one area in Parcel No. 4 that is noted as being excavated to one foot below grade. The bottom sample from this area, designated OU-1-PEB-4 (0-1'), which was collected on May 10, 2007, met the Part 375 commercial criteria therefore additional excavation was not required. Areas excavated to native clay are shown on Figure 6.

Post-excavation sidewall samples (at a frequency of one sample per 100 linear feet) were collected for constituents that exceeded the Part 375 commercial use criteria in previous sampling events, SVOCs and metals (arsenic, cadmium and lead), to confirm that the Part 375 commercial criteria were met. Excavation was continued laterally (to the OU-1 boundary) in areas where the post excavation sidewall samples initially indicated concentrations above the Part 375 commercial criteria. Lateral excavation was not completed outside the OU-1 boundary. In order to address NYSDEC comments regarding sidewall sampling along the diagonal sidewall associated with original sample OU1-PES2 (5/14/07;2-3') in the northern portion of Parcel 5, a composite sample was collected from the diagonal sidewall on August 3, 2009. The sample was collected from the full depth of the excavation (3 feet) at two locations along the diagonal sidewall and composited. As requested by the NYSDEC, the samples were analyzed for SVOCs the reduced list of metals (arsenic, cadmium and lead). The results are summarized in Tables 12 and 13 for SVOCs and metals, respectively and the laboratory analytical report is included in Appendix G. Based on the SVOC results and following further discussions regarding the need for further remediation, additional excavation, as described in Section 4.8 was completed between May 17 and 19, 2010. As approved by NYSDEC, no endpoint sampling was conducted following this excavation.

Following discussions with NYSDEC at two meetings held in January 2009 and June 2009, in order to address the NYSDEC comment that original sidewall sample locations OU1-PES-1 (5/17/07; 1-2' and OU1-PES-4 (5/17/07; 1-2') should have been analyzed for SVOCs, these two sidewalls were resampled for SVOCs on August 3, 2009. The samples were identified as OU1-PES-1R (8/3/09; 1-2') and OU1-PES-4R (8/3/09; 1-2'). The results (summarized in Table 12; laboratory analytical report included in Appendix G), for all SVOCs were below the Part 375 commercial criteria for protection of human health. Therefore, no further work was required in this portion of OU-1.

The protocol used to collect bottom and sidewall samples entailed using a stainless steel spatula to collect the soil samples by taking a total of four randomly selected grab samples and compositing them into a Ziploc bag. After being well mixed, a sample portion of the Ziploc bag was transferred into a laboratory provided jar for analysis.

Post-excavation samples were submitted to TestAmerica, a NYSDOH ELAP certified laboratory. Category B laboratory data deliverables, as defined in the analytical services protocol (ASP), were requested. In addition, a Data Usability Summary Report (DUSR) was prepared by Data Validation Services (DVS) of North Creek, New York in accordance with Appendix 2B of DER-10 for samples collected during the initial phase of work. The DUSR is included Appendix H (located on a compact disc in the back of the report). In the instances where DVS suggested adding a qualifier to the laboratory data, the summary tables provided in this report were modified to reflect that qualification. In summary, sample results are usable as reported, or usable with minor edit or qualification due to typical processing or matrix effects. A thorough description of the rationale related to the data validation is provided in the narrative of the DUSR included as Appendix H.

#### 4.12 Backfilling

During the first phase of the work in 2007, when excavation and removal of the impacted soil was complete, the excavation was backfilled and compacted, to the extent practical, to within six inches of proposed final grade using offsite common fill material followed by six inches of topsoil meeting the lower of the commercial use criteria for human health or the criteria for protection of groundwater presented in Table 375-6.8(b) of Part 375 and shown on Table 2. The common fill material was free of extraneous debris or solid waste. The common fill material was sampled in accordance with the AAR/RAWP and analytical results were submitted to the NYSDEC for approval prior to use of the common fill. Common fill sample results are summarized on Tables 14 through 18. Laboratory data reports, in electronic format on a compact disc, are included in Appendix I. During the second phase of the work in 2010, when excavation and removal of the impacted soil was complete, the excavation was backfilled and compacted, to within six inches of proposed final grade using offsite gravel/sand material followed by six inches of topsoil. The gravel/sand material was obtained from an approved NYSDEC quarry (mining permit included in Appendix J) and its use was verbally approved by NYSDEC. The topsoil used during both phases of the work was free of extraneous debris or solid waste. The topsoil used during both phases of work was sampled in accordance with the AAR/RAWP. Topsoil material sample results are summarized on Tables 19 through 23. Laboratory data reports, in electronic format on a compact disc, are included in Appendix I. The sample results collected from topsoil material on May 14, 2007 indicated the presence of acetone above the required criteria due to laboratory processing. The results were reported to the NYSDEC and approval was granted to resample the topsoil. As shown on Table 19, the June 8, 2007 results indicated acceptable acetone levels. The topsoil and backfill materials used during the first phase of work were approved for use by the NYSDEC based on two letter correspondences dated June 5, 2007 and July 9, 2007 (see Appendix J). The topsoil origination letter is also provided in Appendix J.
# 4.13 Equipment Decontamination and Disposal of PPE and Construction Water

The remediation-derived waste (excluding soil) generated during the construction activities included:

- Personal Protective Equipment (PPE); and
- Decontamination water.

PPE generated during the implementation of the remedy was consolidated with PPE from other onsite activities and stored in appropriate bulk containers and temporarily staged at the Site waste storage area within the Site limits south of Elk Street. ExxonMobil coordinates waste characterization and disposal of PPE on a routine basis.

Disposal vehicles were loaded in non-impacted areas of OU-1 and therefore did not require decontamination. Decontamination of the excavator was a two-step process. First, soil was removed from the tracks of the excavator within the limits of OU-1; then the excavator was moved to the main Site decontamination area located south of Elk Street where it was thoroughly decontaminated. Decontamination water was collected from the main decontamination area and transported to ExxonMobil's water treatment system, which is located in the main portion of the former terminal south of Elk Street. The water was treated through the onsite system prior to discharge into the Buffalo Sewer Authority municipal sewer.

## 4.14 Demobilization and Site Restoration

The Contractor cleaned off the excavator tracks within OU-1 and decontaminated all equipment at the main Site decontamination area south of Elk Street prior to removal from the Site. All temporary work zone controls and staging areas were removed.

After backfilling activities were completed, the work area was graded and seeded with grass on July 28 and 29, 2007 during the first phase of work and on May 19, 2010 during the second phase of work. By the fall of 2007 and fall of 2010, there was approximately 95 percent coverage of vegetation across areas of OU-1 disturbed during the first and second phases of work, respectively. Though no longer needed since vegetation is established, silt fence along the fence lines of Parcels No. 4 and No. 5, as described above, remains in-place.

## 4.15 Institutional Controls

Implementation of the remedial action for OU-1 has achieved a Track 2 cleanup of this area of the Site to the Part 375 commercial criteria presented Table 2. Since the remedy did not achieve an "unrestricted" soil cleanup objective, a Soil Management Plan will be prepared to detail the protocol for potential removal of the remaining on-site contaminated soils once the remediation of all Operable Units associated with the Site is complete.

An environmental easement that subjects the Site to use restrictions that run with the land in perpetuity is also required. An environmental easement is a form of institutional control that acts as an enforcement mechanism to ensure required institutional controls remain in place. The environmental easement will:

- Restrict the use of OU-1 to commercial uses allowable under the zoning as M-1 light industrial;
- Restrict the use of groundwater as a source of potable water; and
- Require an annual certification that certifies the institutional controls remain in place and that they remain effective for the protection of human health and the environment.

The Environmental Easement will be incorporated in all agreements regarding rights to use the land such as leases and licenses. An environmental easement for the Site (including OU-1) will be established and recorded with the City of Buffalo upon acceptance and approval from the NYSDEC following the completion of remediation of all Operable Units.

ROUX ASSOCIATES, INC.

wenty the

Wendy Shen Project Engineer

# 5.0 ENGINEER'S CERTIFICATION

I, Noelle M. Clarke, certify that I am currently a NYS registered professional engineer, I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the DER-approved Remedial Action Work Plan and any subsequent changes as agreed to and approved by the NYSDEC (discontinuation of post-excavation bottom sampling after July 21, 2007; no endpoint sampling following the additional excavation work competed in May 2010).

Following completion of remedial activities in all Operable Units of the Site, all use restrictions, institutional controls, engineering controls and/or any operation and maintenance requirements applicable to the Site will be contained in an environmental easement created and recorded pursuant to ECL 71-3605 and that any affected local governments, as defined in ECL 71-3603 will be notified that such easement has been recorded.

Following completion of remedial activities in all Operable Units of the Site, a Site Management Plan will be submitted for the continual and proper operation, maintenance, and monitoring of any engineering controls employed at the Site.

REMEDIAL ENGINEERING, P.C.

ale MV

Noelle M. Clarke, P.E. Principal Engineer



#### Table 1. Summary of Spills/Releases at Operable Unit 1 of the Buffalo Terminal, ExxonMobil Oil Corporation, Buffalo, New York

Date of				Geographic	Media				Date Spill Closed by
Incident	Quantity	Product	Cause/Source of Spill	Area	Affected	Agency Notified	Action Taken/Comments	Source	NYSDEC
3/12/1976	Unknown	Cracking Stock	The top of Tank 60 was damaged when hot product from the crude unit contacted ice on the bottom of the tank causing it to expand. Cracking stock for the TCC unit was released to Elk Street and several properties north of Elk Street.	ESPA/NTYA	Soil	Unknown	Mobil cleaned up the cracking stock by vacuuming off excess product and then mixing the remaining material with sand, excavating the material and disposing it off-site. Residences that were impacted were purchased by Mobil and demolished.	Current and/or Former Mobil Employees	NA
2/1/1994	Unknown	Cracking Stock	NYSDEC documentation refers to the "old spill at Elk Street". The incident referred to was the rupture of Tank 60 (cracking stock) in 1976.	ESPA/NTYA	Soil	NYSDEC - #9314016	NYSDEC Spill Report Form noted that additional investigation and possible remediation would be requested and that this spill would be incorporated into Spill #8808982. Spill closed by NYSDEC on 1/3/96 as site addressed under consent order.	NYSDEC Spills	1/3/1996

	Part 375 Unrestricted	Part 375 Restricted	Part 375 Restricted
Analyte	Use Criteria <sup>1</sup>	Commercial Criteria <sup>2</sup>	Industrial Criteria <sup>2</sup>
Semivolatile Organic Compour	nds (Concentrations in ug	r/kg)	
1.2-Dichlorobenzene	1.100	500.000	1.000.000
1.3-Dichlorobenzene	2.400	280.000	560.000
1.4-Dichlorobenzene	1.800	130.000	250.000
2-Methylphenol	330	500.000	1.000.000
3&4-Methylphenol	330	500.000	1.000.000
Acenaphthene	20.000	500.000	1.000.000
Acenaphthylene	100.000	500.000	1.000.000
Anthracene	100.000	500.000	1.000.000
Benzo[a]anthracene	1.000	5.600	11.000
Benzo[a]pyrene	1.000	1.000	1,100
Benzo[b]fluoranthene	1.000	5.600	11.000
Benzo[g.h.i]pervlene	100.000	500.000	1.000.000
Benzo[k]fluoranthene	800	56.000	110.000
Chrysene	1.000	56.000	110,000
Dibenzo[a,h]anthracene	330	560	1,100
Dibenzofuran	7.000	350.000	1.000.000
Fluoranthene	100.000	500.000	1.000.000
Fluorene	30.000	500.000	1.000.000
Hexachlorobenzene	330	6.000	12.000
Indeno[1.2.3-cd]pyrene	500	5.600	11.000
Naphthalene	12.000	500.000	1.000.000
Pentachlorophenol	800	6.700	55.000
Phenanthrene	100.000	500.000	1.000.000
Phenol	330	500.000	1.000.000
Pyrene	100,000	500,000	1,000,000
Metals (Concentrations in mg/	κσ)		, ,
Arsenic	13	16	16
Barium	350	400	10,000
Bervllium	7.2	590	2,700
Cadmium	2.5	93	2,760
Copper	50	270	10,000
Cvanide	27	270	10,000
Hexavalent Chromium	1	400	800
Lead	63	1 000	3 900
Manganese	1 600	10,000	10,000
Mercury	0.18	2.8	5.7
Nickel	30	310	10.000
Selenium	3.9	1.500	6.800
Silver	2.	1,500	6.800
Trivalent Chromium	30	1,500	6.800
Zinc	109	10.000	10.000

# Table 2. Standards, Criteria and Guidance Values, ExxonMobil Oil Corporation, Buffalo, New York

	Part 375 Unrestricted	Part 375 Restricted	Part 375 Restricted
Analyte	Use Criteria <sup>1</sup>	Commercial Criteria <sup>2</sup>	Industrial Criteria <sup>2</sup>
Volatile Organic Compounds (co	ncentrations in ug/kg)		
1,1,1-Trichloroethane	680	500,000	1,000,000
1.1-Dichloroethane	270	240.000	480.000
1.1-Dichloroethene	330	500.000	1.000.000
1,2,4-Trimethylbenzene	3,600	190.000	380,000
1,2-Dichloroethane	20	30,000	60,000
1,3,5-Trimethylbenzene	8,400	190,000	380,000
1,4-Dioxane	100	130,000	250,000
2-Butanone	120	500,000	1,000,000
Acetone	50	500,000	1,000,000
Benzene	60	44,000	89,000
Carbon Tetrachloride	760	22,000	44,000
Chlorobenzene	1,100	500,000	1,000,000
Chloroform	370	350,000	700,000
cis-1,2-Dichloroethene	250	500,000	1,000,000
Ethylbenzene	1,000	390,000	780,000
Isopropylbenzene			
Methylene Chloride	50	500,000	1,000,000
MTBE	930	500,000	1,000,000
Naphthalene	12,000	500,000	1,000,000
n-Butylbenzene	12,000	500,000	1,000,000
n-Propylbenzene	3,900	500,000	1,000,000
sec-Butylbenzene	11,000	500,000	1,000,000
tert-Butylbenzene	5,900	500,000	1,000,000
Tetrachloroethene	1,300	150,000	300,000
Toluene	700	500,000	1,000,000
trans-1,2-Dichloroethene	190	500,000	1,000,000
Trichloroethene	470	200,000	400,000
Vinyl chloride	20	13,000	27,000
Xylenes (total)	260	500,000	1,000,000
Polychlorinated Biphenyls (Conc	entrations in µg/kg)		
Total PCBs	100	1,000	25,000
Pesticides and Herbicides (Conce	entrations in µg/kg)		
2,4,5-TP	3,800	500,000	1,000,000
4,4'-DDD	3.3	92,000	180,000
4,4'-DDE	3.3	62,000	120,000
4,4'-DDT	3.3	47,000	94,000
Aldrin	5	680	1,400
alpha-BHC	20	3,400	6,800
alpha-Chlordane	94	24,000	47,000
beta-BHC	36	3,000	14,000
delta-BHC	40	500,000	1,000,000
Dieldrin	5	1,400	2,800
Endosulfan I	2,400	200,000	920,000
Endosulfan II	2,400	200,000	920,000
Endosulfan sulfate	2,400	200,000	920,000
Endrin	14	89,000	410,000
gamma-BHC(Lindane)	100	9,200	23,000
Heptachlor	42	15,000	29,000

mg/kg - Milligrams per kilogram μg/kg - Micrograms per kilogram

MTBE - Methyl Tertiary Butyl Ether

<sup>1</sup> - Unrestricted Use criteria are presented in Table 6.8(a) of Part 375

<sup>2</sup> - Commercial and industrial criteria for protection of human health are presented in Table 6.8(b) of Part 375

	Sample Designation:	Parcel 4 North	Parcel 5 North	Parcel 5 North	Parcel 5 South	Parcel 5 South	WC-1-Composite
Parameter	Sample Date:	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07	05/10/07
(Concentrations in µg/kg)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2	-
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	1.96 U
1,1,2,2-Tetrachloroethane		NA	NA	NA	NA	NA	1.96 U
1,1,2-Trichloroethane		NA	NA	NA	NA	NA	4.9 U
1,1,2-Trifluorotrichloroethane		NA	NA	NA	NA	NA	1.96 U
1,1-Dichloroethane		NA	NA	NA	NA	NA	1.96 U
1,1-Dichloroethene		NA	NA	NA	NA	NA	1.96 U
1,2,4-Trichlorobenzene		NA	NA	NA	NA	NA	1.96 U
1,2,4-Trimethylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
1,2-Dibromo-3-chloropropane		NA	NA	NA	NA	NA	4.9 U
1,2-Dibromoethane		NA	NA	NA	NA	NA	1.96 U
1,2-Dichlorobenzene		NA	NA	NA	NA	NA	1.96 U
1,2-Dichloroethane		NA	NA	NA	NA	NA	1.96 U
1,2-Dichloropropane		NA	NA	NA	NA	NA	1.96 U
1,3,5-Trimethylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
1,3-Dichlorobenzene		NA	NA	NA	NA	NA	1.96 U
1,4-Dichlorobenzene		NA	NA	NA	NA	NA	1.96 U
2-Butanone		NA	NA	NA	NA	NA	49 U
2-Hexanone		NA	NA	NA	NA	NA	49 U
4-Methyl-2-pentanone		NA	NA	NA	NA	NA	49 U
Acetone		NA	NA	NA	NA	NA	194
Benzene		1.89 U	1.96 U	1.93 U	3.23	1.9 U	1.96 U
Bromochloromethane		NA	NA	NA	NA	NA	1.96 U
Bromodichloromethane		NA	NA	NA	NA	NA	1.96 U
Bromoform		NA	NA	NA	NA	NA	1.96 U
Bromomethane		NA	NA	NA	NA	NA	1.96 U
Carbon disulfide		NA	NA	NA	NA	NA	4.9 U
Carbon Tetrachloride		NA	NA	NA	NA	NA	1.96 U
Chlorobenzene		NA	NA	NA	NA	NA	1.96 U
Chloroethane		NA	NA	NA	NA	NA	4.9 U
Chloroform		NA	NA	NA	NA	NA	1.96 U
Chloromethane		NA	NA	NA	NA	NA	1.96 U
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	1.96 U
cis-1,3-Dichloropropene		NA	NA	NA	NA	NA	1.96 U
Cyclohexane		NA	NA	NA	NA	NA	9.8 U
Dibromochloromethane		NA	NA	NA	NA	NA	1.96 U
Dichlorodifluoromethane		NA	NA	NA	NA	NA	1.96 U
Ethylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	1.96 U
Isopropylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	1.96 U
m+p-Xylene		2.84 U	2.94 U	2.9 U	2.96 U	2.86 U	NA

Table 3. Summar	v of Volatile (	Organic Com	pounds in Was	ste Characterization	Samples.	. ExxonMobil Buffal	o Terminal. Buffal	o. New York
		- 0						- ,

	Sample Designation: 1	Parcel 4 North	Parcel 5 North	Parcel 5 North	Parcel 5 South	Parcel 5 South	WC-1-Composite
Parameter	Sample Date:	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07	05/10/07
(Concentrations in µg/kg)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2	-
Methyl Acetate		NA	NA	NA	NA	NA	9.8 U
Methylcyclohexane		NA	NA	NA	NA	NA	9.8 U
Methylene Chloride		NA	NA	NA	NA	NA	44.8
MTBE		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	1.96 U
n-Butylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
n-Propylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
Naphthalene		4.73 U	4.89 U	4.83 U	4.94 U	4.76 U	NA
o-Xylene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
p-Isopropyltoluene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
sec-Butylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
Styrene		NA	NA	NA	NA	NA	1.96 U
tert-Butylbenzene		1.89 U	1.96 U	1.93 U	1.98 U	1.9 U	NA
Tetrachloroethene		NA	NA	NA	NA	NA	1.96 U
Toluene		1.89 U	2.04	1.93 U	3.86	1.9 U	2.19
trans-1,2-Dichloroethene		NA	NA	NA	NA	NA	1.96 U
trans-1,3-Dichloropropene		NA	NA	NA	NA	NA	1.96 U
Trichloroethene		NA	NA	NA	NA	NA	1.96 U
Trichlorofluoromethane		NA	NA	NA	NA	NA	1.96 U
Vinyl chloride		NA	NA	NA	NA	NA	1.96 U
Xylenes (total)		4.73 U	4.89 U	4.83 U	4.94 U	4.76 U	4.9 U
Total VOCs:		0	2.04	0	7.09	0	240.99

Table 3. Summary of Volatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface µg/kg - Micrograms per kilogram MTBE - Methyl Tertiary Butyl Ether NA - Not analyzed U - Not detected VOCs - Volatile Organic Compounds

	Sample Designation:	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in ug/kg)	Sample Depth (ft bls):	-	-	-	0.012010
	I I II (III)				
1,1,1-Trichloroethane		1.95 U	97.3 U	96 U	1.98 U
1,1,2,2-Tetrachloroethane		1.95 U	97.3 U	96 U	1.98 U
1,1,2-Trichloroethane		4.87 U	243 U	240 U	4.96 U
1,1,2-Trifluorotrichloroethane		1.95 U	97.3 U	96 U	1.98 U
1,1-Dichloroethane		1.95 U	97.3 U	96 U	1.98 U
1,1-Dichloroethene		1.95 U	97.3 U	96 U	1.98 U
1,2,4-Trichlorobenzene		1.95 U	97.3 U	96 U	1.98 U
1,2,4-Trimethylbenzene		NA	NA	NA	1.98 U
1,2-Dibromo-3-chloropropane		4.87 U	243 U	240 U	4.96 U
1,2-Dibromoethane		1.95 U	97.3 U	96 U	1.98 L, U
1,2-Dichlorobenzene		1.95 U	97.3 U	96 U	1.98 U
1,2-Dichloroethane		1.95 U	97.3 U	96 U	1.98 U
1,2-Dichloropropane		1.95 U	97.3 U	96 U	1.98 U
1,3,5-Trimethylbenzene		NA	NA	NA	NA
1,3-Dichlorobenzene		1.95 U	97.3 U	96 U	1.98 U
1,4-Dichlorobenzene		1.95 U	97.3 U	96 U	1.98 U
2-Butanone		48.7 U	2430 U	2400 U	49.6 U
2-Hexanone		48.7 U	2430 U	2400 U	49.6 U
4-Methyl-2-pentanone		48.7 U	2430 U	2400 U	49.6 U
Acetone		62.8	2430 U	2400 U	170
Benzene		1.95 U	103	96 U	8.07
Bromochloromethane		1.95 U	97.3 U	96 U	1.98 U
Bromodichloromethane		1.95 U	97.3 U	96 U	1.98 U
Bromoform		1.95 U	97.3 U	96 U	1.98 U
Bromomethane		1.95 U	97.3 U	96 U	1.98 U
Carbon disulfide		4.87 U	243 U	240 U	4.96 U
Carbon Tetrachloride		1.95 U	97.3 U	96 U	1.98 U
Chlorobenzene		1.95 U	97.3 U	96 U	1.98 U
Chloroethane		4.87 U	243 U	240 U	4.96 U
Chloroform		1.95 U	97.3 U	96 U	1.98 U
Chloromethane		1.95 U	97.3 U	96 U	1.98 U
cis-1,2-Dichloroethene		1.95 U	97.3 U	96 U	1.98 U
cis-1,3-Dichloropropene		1.95 U	97.3 U	96 U	1.98 U
Cyclohexane		9.75 U	486 U	480 U	9.92 U
Dibromochloromethane		1.95 U	97.3 U	96 U	1.98 U
Dichlorodifluoromethane		1.95 U	97.3 U	96 U	1.98 U
Ethylbenzene		1.95 U	97.3 U	96 U	1.98 U
Isopropylbenzene		1.95 U	110	96 U	1.98 L, U
m+p-Xylene		NA	NA	NA	NA

Table 3. Summary of Volatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

	Sample Designation:	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in µg/kg)	Sample Depth (ft bls):	-	-	-	
Methyl Acetate		9.75 U	2440	480 U	9.92 L, U
Methylcyclohexane		9.75 U	1970	480 U	9.92 U
Methylene Chloride		9.75 U	486 U	480 U	9.92 U
MTBE		1.95 U	97.3 U	96 U	1.98 U
n-Butylbenzene		NA	NA	NA	NA
n-Propylbenzene		NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA
o-Xylene		NA	NA	NA	NA
p-Isopropyltoluene		NA	NA	NA	NA
sec-Butylbenzene		NA	NA	NA	NA
Styrene		1.95 U	97.3 U	96 U	1.98 U
tert-Butylbenzene		NA	NA	NA	NA
Tetrachloroethene		1.95 U	97.3 U	96 U	1.98 U
Toluene		1.95 U	97.3 U	96 U	9.17
trans-1,2-Dichloroethene		1.95 U	97.3 U	96 U	1.98 U
trans-1,3-Dichloropropene		1.95 U	97.3 U	96 U	1.98 U
Trichloroethene		1.95 U	97.3 U	96 U	1.98 U
Trichlorofluoromethane		1.95 U	97.3 U	96 U	1.98 U
Vinyl chloride		1.95 U	97.3 U	96 U	1.98 U
Xylenes (total)		4.87 U	529	240 U	4.96 U
Total VOCs:		62.8	5152	0	187.24

Table 3. Summary of Volatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface µg/kg - Micrograms per kilogram MTBE - Methyl Tertiary Butyl Ether NA - Not analyzed U - Not detected VOCs - Volatile Organic Compounds

	Sample Designation:	Parcel 4 North	Parcel 5 North	Parcel 5 North	Parcel 5 South	Parcel 5 South
Parameter	Sample Date:	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07
(Concentrations in µg/kg)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2
1,2,4-Trichlorobenzene		NA	NA	NA	NA	NA
1,2-Dichlorobenzene		NA	NA	NA	NA	NA
1,3-Dichlorobenzene		NA	NA	NA	NA	NA
1,4-Dichlorobenzene		NA	NA	NA	NA	NA
2,4,5-Trichlorophenol		NA	NA	NA	NA	NA
2,4,6-Trichlorophenol		NA	NA	NA	NA	NA
2,4-Dichlorophenol		NA	NA	NA	NA	NA
2,4-Dimethylphenol		NA	NA	NA	NA	NA
2,4-Dinitrophenol		NA	NA	NA	NA	NA
2,4-Dinitrotoluene		NA	NA	NA	NA	NA
2,6-Dinitrotoluene		NA	NA	NA	NA	NA
2-Chloronaphthalene		NA	NA	NA	NA	NA
2-Chlorophenol		NA	NA	NA	NA	NA
2-Methylnaphthalene		NA	NA	NA	NA	NA
2-Methylphenol		NA	NA	NA	NA	NA
2-Nitroaniline		NA	NA	NA	NA	NA
2-Nitrophenol		NA	NA	NA	NA	NA
3&4-Methylphenol		NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine		NA	NA	NA	NA	NA
3-Nitroaniline		NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol		NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether		NA	NA	NA	NA	NA
4-Chloro-3-methylphenol		NA	NA	NA	NA	NA
4-Chloroaniline		NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether		NA	NA	NA	NA	NA
4-Nitroaniline		NA	NA	NA	NA	NA
4-Nitrophenol		NA	NA	NA	NA	NA
Acenaphthene		65.6 U	65.8 U	66.4	66.8 U	67 U
Acenaphthylene		NA	NA	NA	NA	NA
Anthracene		250	65.8 U	193	88.5	147
Benzo[a]anthracene		1130	122	637	370	546
Benzo[a]pyrene		1190	151	579	342	560
Benzo[b]fluoranthene		1100	144	626	384	605
Benzo[g,h,i]perylene		825	121	351	251	679
Benzo[k]fluoranthene		979	134	455	289	539
Bis(2-chloroethoxy)methane		NA	NA	NA	NA	NA

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	Sample Designation:	Parcel 4 North	Parcel 5 North	Parcel 5 North	Parcel 5 South	Parcel 5 South
Parameter	Sample Date:	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07
(Concentrations in µg/kg)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2
Bis(2-chloroethyl) ether		NA	NA	NA	NA	NA
Bis(2-chloroisopropyl) ether		NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate		NA	NA	NA	NA	NA
Butylbenzyl phthalate		NA	NA	NA	NA	NA
Carbazole		NA	NA	NA	NA	NA
Chrysene		1260	155	638	422	605
Di-n-butyl phthalate		NA	NA	NA	NA	NA
Di-n-octyl phthalate		NA	NA	NA	NA	NA
Dibenzo[a,h]anthracene		274	65.8 U	152	101	186
Dibenzofuran		NA	NA	NA	NA	NA
Diethyl phthalate		NA	NA	NA	NA	NA
Dimethyl phthalate		NA	NA	NA	NA	NA
Fluoranthene		2360	205	1230	634	1080
Fluorene		106	65.8 U	80.7	66.8 U	67 U
Hexachlorobenzene		NA	NA	NA	NA	NA
Hexachlorobutadiene		NA	NA	NA	NA	NA
Hexachlorocyclopentadiene		NA	NA	NA	NA	NA
Hexachloroethane		NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene		721	102	342	232	547
Isophorone		NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine		NA	NA	NA	NA	NA
N-Nitrosodiphenylamine		NA	NA	NA	NA	NA
Naphthalene		65.6 U	65.8 U	65.1 U	66.8 U	80.3
Nitrobenzene		NA	NA	NA	NA	NA
Pentachlorophenol		NA	NA	NA	NA	NA
Phenanthrene		1380	89.1	740	367	833
Phenol		NA	NA	NA	NA	NA
Pyrene		2190	223	1090	656	1040
Total SVOCs:		13765	1446.1	7180.1	4136.5	7447.3

Table 4. Summary of Semivolatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface µg/kg - Micrograms per kilogram NA - Not analyzed U - Not detected SVOCs - Semivolatile Organic Compounds

	Sample Designation:	WC-1-Composite	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/10/07	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in $\mu g/kg$ )	Sample Depth (ft bls):	-	-	-		
1,2,4-Trichlorobenzene		324 U	328 U	1630 U	1650 U	325 U
1,2-Dichlorobenzene		324 U	328 U	1630 U	1650 U	325 U
1,3-Dichlorobenzene		324 U	328 U	1630 U	1650 U	325 U
1,4-Dichlorobenzene		324 U	328 U	1630 U	1650 U	325 U
2,4,5-Trichlorophenol		811 U	820 U	4080 U	4130 U	812 U
2,4,6-Trichlorophenol		324 U	328 U	1630 U	1650 U	325 U
2,4-Dichlorophenol		324 U	328 U	1630 U	1650 U	325 U
2,4-Dimethylphenol		324 U	328 U	1630 U	1650 U	325 U
2,4-Dinitrophenol		811 U	820 U	4080 U	4130 U	812 U
2,4-Dinitrotoluene		324 U	328 U	1630 U	1650 U	325 U
2,6-Dinitrotoluene		324 U	328 U	1630 U	1650 U	325 U
2-Chloronaphthalene		324 U	328 U	1630 U	1650 U	325 U
2-Chlorophenol		324 U	328 U	1630 U	1650 U	325 U
2-Methylnaphthalene		324 U	328 U	1630 U	1650 U	325 U
2-Methylphenol		324 U	328 U	1630 U	1650 U	325 U
2-Nitroaniline		811 U	820 U	4080 U	4130 U	812 U
2-Nitrophenol		324 U	328 U	1630 U	1650 U	325 U
3&4-Methylphenol		324 U	328 U	1630 U	1650 U	325 U
3,3'-Dichlorobenzidine		650 U	657 U	3270 U	3310 U	650 U
3-Nitroaniline		811 U	820 U	4080 U	4130 U	812 U
4,6-Dinitro-2-methylphenol		811 U	820 U	4080 U	4130 U	812 U
4-Bromophenyl phenyl ether		324 U	328 U	1630 U	1650 U	325 U
4-Chloro-3-methylphenol		324 U	328 U	1630 U	1650 U	325 U
4-Chloroaniline		324 U	328 U	1630 U	1650 U	325 U
4-Chlorophenyl phenyl ether		324 U	328 U	1630 U	1650 U	325 U
4-Nitroaniline		811 U	820 U	4080 U	4130 U	812 U
4-Nitrophenol		811 U	820 U	4080 U	4130 U	812 U
Acenaphthene		324 U	328 U	1630 U	1650 U	395
Acenaphthylene		324 U	328 U	1690	1650 U	325 U
Anthracene		324 U	328 U	2930	1650 U	689
Benzo[a]anthracene		804	679	8060	3090	1790
Benzo[a]pyrene		823	658	7510	3020	1590
Benzo[b]fluoranthene		815	617	6240	2910	1550
Benzo[g,h,i]perylene		644	410	4190	1810	946
Benzo[k]fluoranthene		567	475	6330	2260	1290
Bis(2-chloroethoxy)methane		324 U	328 U	1630 U	1650 U	325 U

Table 4. Summary of Semivolatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

	Sample Designation:	WC-1-Composite	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/10/07	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in µg/kg)	Sample Depth (ft bls):	-	-	-		
Bis(2-chloroethyl) ether		324 U	328 U	1630 U	1650 U	325 U
Bis(2-chloroisopropyl) ether		324 U	328 U	1630 U	1650 U	325 U
Bis(2-ethylhexyl) phthalate		324 U	328 U	1630 U	1650 U	325 U
Butylbenzyl phthalate		324 U	328 U	1630 U	1650 U	325 U
Carbazole		324 U	328 U	1850	1650 U	512
Chrysene		874	652	8440	3400	1970
Di-n-butyl phthalate		324 U	328 U	1630 U	1650 U	325 U
Di-n-octyl phthalate		324 U	328 U	1630 U	1650 U	325 U
Dibenzo[a,h]anthracene		324 U	328 U	1680	1650 U	325 U
Dibenzofuran		324 U	328 U	1630 U	1650 U	325 U
Diethyl phthalate		324 U	328 U	1630 U	1650 U	325 U
Dimethyl phthalate		324 U	328 U	1630 U	1650 U	325 U
Fluoranthene		1760	1200	14600	5860	4100
Fluorene		324 U	328 U	1790	1650 U	403
Hexachlorobenzene		324 U	328 U	1630 U	1650 U	325 U
Hexachlorobutadiene		324 U	328 U	1630 U	1650 U	325 U
Hexachlorocyclopentadiene		324 U	328 U	1630 U	1650 U	325 U
Hexachloroethane		324 U	328 U	1630 U	1650 U	325 U
Indeno[1,2,3-cd]pyrene		540	403	4260	1770	868
Isophorone		324 U	328 U	1630 U	1650 U	325 U
N-Nitrosodi-n-propylamine		324 U	328 U	1630 U	1650 U	325 U
N-Nitrosodiphenylamine		324 U	328 U	1630 U	1650 U	325 U
Naphthalene		324 U	328 U	1630 U	1650 U	325 U
Nitrobenzene		324 U	328 U	1630 U	1650 U	325 U
Pentachlorophenol		811 U	820 U	4080 U	4130 U	812 U
Phenanthrene		950	870	13000	3570	3110
Phenol		324 U	328 U	1630 U	1650 U	325 U
Pyrene		1350	1100	14100	5580	3210
Total SVOCs:		9127	7064	96670	33270	22423

Table 4. Summary of Semivolatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface µg/kg - Micrograms per kilogram NA - Not analyzed U - Not detected SVOCs - Semivolatile Organic Compounds Table 5. Summary of Total Petroleum Hydrocarbons in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

Parameter	Sample Designation: Sample Date:	Parcel 4 North 03/30/07	Parcel 5 North 03/30/07	Parcel 5 North 03/30/07	Parcel 5 South 03/30/07	Parcel 5 South 03/30/07	WC-1-Composite 05/10/07
(Concentrations in mg/kg)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2	-
Diesel GRO as Gasoline		253 4.73 U	27.2 4.81 U	49 4.72 U	79.1 5.86	101 4.83 U	53.4 4.72 U

ft bls - Feet below land surface mg/kg - Milligrams per kilogram NA - Not analyzed

U - Not detected

Table 5. Summary of Total Petroleum Hydrocarbons in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

Description	Sample Designation:	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in mg/kg)	Sample Depth (ft bls):	-	-		-
D: 1		254	440	100	1.000
Diesel		354	448	189	1690
GRO as Gasoline		NA	NA	NA	NA

ft bls - Feet below land surface mg/kg - Milligrams per kilogram

NA - Not analyzed U - Not detected

	Sample Designation:	WC-1-Composite	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/10/07	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in mg/kg)	_					
Aluminum		NA	NA	NA	NA	8850
Antimony		NA	NA	NA	NA	9.78 U
Arsenic		NA	NA	NA	NA	14.2
Barium		NA	NA	NA	NA	357
Beryllium		NA	NA	NA	NA	0.978 U
Cadmium		1 U	0.965 U	2.88	2.49	7.18
Calcium		NA	NA	NA	NA	56600 B1, B
Chromium		44	23.8	26.5	23.6	29.6
Cobalt		NA	NA	NA	NA	8.81
Copper		NA	NA	NA	NA	115
Iron		NA	NA	NA	NA	33600
Lead		655	263	743	673	862
Magnesium		NA	NA	NA	NA	3850
Manganese		NA	NA	NA	NA	516
Mercury		NA	NA	NA	NA	0.677 MHA
Nickel		19.3	19.9	22.8	15.7	24.3
Potassium		NA	NA	NA	NA	1120
Selenium		2.84	1.93 U	6.7	5	1.96 U
Silver		NA	NA	NA	NA	0.978 U
Sodium		NA	NA	NA	NA	196 U
Thallium		2.01 U	1.93 U	1.9 U	1.98 U	1.96 U
Vanadium		89.7	34.6	17.7	15.9	24.1
Zinc		NA	NA	NA	NA	1090

Table 6. Summary of Metals in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

mg/kg - Milligrams per kilogram

U - Not detected

B1 - Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.

B - Analyte was detected in the associated Method Blank

MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information

Parameter	Sample Designation: Sample Date:	Parcel 4 North 03/30/07	Parcel 5 North 03/30/07	Parcel 5 North 03/30/07	Parcel 5 South 03/30/07	Parcel 5 South 03/30/07
(Concentrations in mg/L)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2
Arsenic		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Barium		1.34	0.683	0.695	0.507	1.45
Cadmium		0.011	0.01 U	0.044	0.01 U	0.01 U
Chromium		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lead		4.29	0.05 U	4.15	0.05 U	0.119
Mercury		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Selenium		0.1 U	0.1 U	0.1 U	0.114	0.111
Silver		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

Table 7. Summary of TCLP Metals in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface

mg/L - Milligrams per liter

U - Not detected

Daramatar	Sample Designation:	WC-1-Composite	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
(Concentrations in mg/I)	Sample Date: Sample Denth (ft bls):	-	-	-	-	04/12/10
(concentrations in hig/L)	Sample Depth (it bis):					
Arsenic		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Barium		0.521	0.556	1.13	1.16	1.51
Cadmium		0.01 U	0.01 U	0.012	0.017	0.036
Chromium		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lead		0.313	0.408	0.311	0.358	0.471
Mercury		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Selenium		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Silver		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

Table 7. Summary of TCLP Metals in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface

mg/L - Milligrams per liter

U - Not detected

Parameter (Concentrations in mg/L)	Sample Designation: Sample Date: Sample Depth (ft bls):	Parcel 4 North 03/30/07 0-1	Parcel 5 North 03/30/07 0-1	Parcel 5 North 03/30/07 2-3	Parcel 5 South 03/30/07 0-1	Parcel 5 South 03/30/07 1-2
1,1-Dichloroethene		0.01 U				
1,2-Dichloroethane		0.01 U				
2-Butanone		0.25 U				
Benzene		0.01 U				
Carbon Tetrachloride		0.01 U				
Chlorobenzene		0.01 U				
Chloroform		0.01 U				
Tetrachloroethene		0.01 U				
Trichloroethene		0.01 U				
Vinyl chloride		0.01 U				

Table 8. Summary of TCLP Volatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

	Sample Designation:	WC-1-Composite	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/10/07	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in mg/L)	Sample Depth (ft bls):	-	-	-	-	
1,1-Dichloroethene		0.01 U	10 U	10 U	10 U	0.01 U
1,2-Dichloroethane		0.01 U	10 U	10 U	10 U	0.01 U
2-Butanone		0.25 U	250 U	250 U	250 U	0.25 U
Benzene		0.01 U	10 U	10 U	10 U	0.01 U
Carbon Tetrachloride		0.01 U	10 U	10 U	10 U	0.01 U
Chlorobenzene		0.01 U	10 U	10 U	10 U	0.01 U
Chloroform		0.01 U	10 U	10 U	10 U	0.01 U
Tetrachloroethene		0.01 U	10 U	10 U	10 U	0.01 U
Trichloroethene		0.01 U	10 U	10 U	10 U	0.01 U
Vinyl chloride		0.01 U	10 U	10 U	10 U	0.01 U

Table 8. Summary of TCLP Volatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

	Sample Designation:	Parcel 4 North	Parcel 5 North	Parcel 5 North	Parcel 5 South	Parcel 5 South
Parameter	Sample Date:	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07
(Concentrations in mg/L)	Sample Depth (ft bls):	0-1	0-1	2-3	0-1	1-2
1,4-Dichlorobenzene		0.02 U				
2,4,5-Trichlorophenol		0.02 U				
2,4,6-Trichlorophenol		0.02 U				
2,4-Dinitrotoluene		0.02 U				
Hexachlorobenzene		0.02 U				
Hexachlorobutadiene		0.02 U				
Hexachloroethane		0.02 U				
m-Cresol + p-Cresol		0.02 U				
Nitrobenzene		0.02 U				
Pentachlorophenol		0.02 U				
Pyridine		0.02 U				

Table 9. Summary of TCLP Semivolatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

	Sample Designation:	WC-1-Composite	WC-2 Composite	WC-3	WC-4	OU-1 Parcel 5
Parameter	Sample Date:	05/10/07	05/14/07	06/21/07	06/21/07	04/12/10
(Concentrations in mg/L)	Sample Depth (ft bls):	-	-	-	-	
1,4-Dichlorobenzene		0.02 U	20 U	20 U	20 U	0.02 U
2,4,5-Trichlorophenol		0.02 U	20 U	20 U	20 U	0.02 U
2,4,6-Trichlorophenol		0.02 U	20 U	20 U	20 U	0.02 U
2,4-Dinitrotoluene		0.02 U	20 U	20 U	20 U	0.02 U
Hexachlorobenzene		0.02 U	20 U	20 U	20 U	0.02 U
Hexachlorobutadiene		0.02 U	20 U	20 U	20 U	0.02 U
Hexachloroethane		0.02 U	20 U	20 U	20 U	0.02 U
m-Cresol + p-Cresol		0.02 U	20 U	20 U	20 U	0.04 U
Nitrobenzene		0.02 U	20 U	20 U	20 U	0.02 U
Pentachlorophenol		0.02 U	20 U	20 U	20 U	0.02 U
Pyridine		0.02 U	20 U	20 U	20 U	0.02 U

Table 9. Summary of TCLP Semivolatile Organic Compounds in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

Table 10. Summary of TCLP Pesticides in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

Parameter (Concentrations in mg/L)	Sample Designation: Sample Date:	WC-1-Composite 05/10/07
2,4,5-TP		0.1 U
2,4-D		0.1 U
Chlordane		0.001 U
Endrin		0.0005 U
gamma-BHC(Lindane)		0.0005 U
Heptachlor		0.0005 U
Heptachlor epoxide		0.0005 U
Methoxychlor		0.0005 U
Toxaphene		0.05 U

mg/L - Milligrams per liter U - Not detected

Parameter	Units	Sample Designation: Sample Date: Sample Depth (ft bls):	Parcel 4 North 03/30/07 0-1	Parcel 5 North 03/30/07 0-1	Parcel 5 North 03/30/07 2-3	Parcel 5 South 03/30/07 0-1	Parcel 5 South 03/30/07 1-2
Cyanide	mg/kg		2 U	2 U	2 U	2 U	2 U
Ignitability	Deg F		> 200	> 200	> 200	> 200	> 200
Corrosivity (pH)	pH Units		7.5	7.9	6.7	8.2	7.5
Sulfide	mg/kg		20 U	22	20 U	20 U	20 U

Table 11. Summary of Corrositivy, Reactivity and Ignitability in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface

mg/kg - Milligrams per kilogram

Deg F - Degrees Fahrenheit

U - Not detected

M8 - The MS and/or MSD were below the acceptance limits.

Parameter	Units	Sample Designation: Sample Date: Sample Depth (ft bls):	WC-1-Composite 05/10/07	WC-2 Composite 05/14/07	WC-3 06/21/07	WC-4 06/21/07	OU-1 Parcel 5 04/12/10
Cyanide	mg/kg		2 U	2 U	2 U	2 U	2 M8, U
Ignitability Corrosivity (pH) Sulfide	Deg F pH Units mg/kg		> 200 8.2 28	> 200 6.8 22	> 200 7.2 20 U	> 200 6.9 20 U	> 200 7.4 20 U

Table 11. Summary of Corrositivy, Reactivity and Ignitability in Waste Characterization Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

ft bls - Feet below land surface

mg/kg - Milligrams per kilogram

Deg F - Degrees Fahrenheit

U - Not detected

M8 - The MS and/or MSD were below the acceptance limits.

Parameter	Part 375	Sample Designation:	OU1-PEB-1	OU1-PEB-1	OU1-PEB-1	OU1-PEB-1	OU1-PEB-1 R
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	05/10/07	05/14/07	05/15/07	05/17/07	05/17/07
		Sample Depth (ft bls):	-	2-3	0-1	0-1	0-1
Acenaphthene	500000		309	66.9 U	63.1 U	208	183
Acenaphthylene	500000		75.9	66.9 U	63.1 U	150	113
Anthracene	500000		657	66.9 U	63.1 U	770	529
Benzo[a]anthracene	5600		1250 V	66.9 U	200	1900	1220
Benzo[a]pyrene	1000		1080	81.2	292	1850	1170
Benzo[b]fluoranthene	5600		1080 V	67.2 V	204	1510 V	925 V
Benzo[g,h,i]perylene	500000		807	69.2	237	1140	695
Benzo[k]fluoranthene	56000		648 V	66.9 UV	203	1500 V	939 V
Chrysene	56000		1080	74.5	274	2000	1250
Dibenzo[a,h]anthracene	560		176	66.9 U	70.9	443	264
Fluoranthene	500000		1940	104	413	4220	2570
Fluorene	500000		328	66.9 U	63.1 U	270	215
Indeno[1,2,3-cd]pyrene	5600		713	66.9 U	151	1070	652
Naphthalene	500000		128	66.9 U	63.1 U	136 V	62.7 UV
Phenanthrene	500000		2060	66.9 U	198	2600	1890
Pyrene	500000		2060	88.5	372	2980	1940
Total SVOCs:			14391.9	484.6	2614.9	22747	14555

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- $^2$  This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation:	OU1-PEB-2	OU1-PEB-2	OU1-PEB-2	OU1-PEB-2	OU1-PEB-2 R
(Concentrations in $\mu$ g/kg)	Commercial Criteria	Sample Date:	05/10/07	05/14/07	05/15/07	05/17/07	05/14/07
		Sample Depth (ft bls):	-	2-3	0-1	0-1	2-3
Acenaphthene	500000		279	66.6 U	63.8 U	65.9	66.3 U
Acenaphthylene	500000		516	66.6 U	63.8	118	66.3 U
Anthracene	500000		940	66.6 U	97.4	249	66.3 U
Benzo[a]anthracene	5600		3310 V	66.6 U	437	765	66.3 U
Benzo[a]pyrene	1000		2600	66.6 U	433	753	66.3 U
Benzo[b]fluoranthene	5600		3090 V	66.6 U	438	582 V	66.3 U
Benzo[g,h,i]perylene	500000		2390	66.6 U	299	464	66.3 U
Benzo[k]fluoranthene	56000		1540 V	66.6 U	320	642 V	66.3 U
Chrysene	56000		2690	66.6 U	463	760	66.3 U
Dibenzo[a,h]anthracene	560		458	66.6 U	114	178	66.3 U
Fluoranthene	500000		6070	66.6 U	872	1580	66.3 U
Fluorene	500000		554	66.6 U	63.8 U	128	66.3 U
Indeno[1,2,3-cd]pyrene	5600		2080	66.6 U	274	450	66.3 U
Naphthalene	500000		358	66.6 U	63.8 U	80.4	66.3 U
Phenanthrene	500000		5040	66.6 U	538	1050	66.3 U
Pyrene	500000		5780	66.6 U	714	1230	66.3 U
Total SVOCs:			37695	0	5063.2	9095.3	0

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- $^2$  This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation: (	DU1-PEB-2 R	OU1-PEB-3	OU1-PEB-3	OU1-PEB-3	OU1-PEB-4
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	05/15/07	05/10/07	05/14/07	05/15/07	05/10/07
		Sample Depth (ft bls):	0-1	-	2-3	0-1	-
Acenaphthene	500000		66.3 U	183	66.6 U	74.3	63.4 U
Acenaphthylene	500000		72.9	235	66.6 U	423	121
Anthracene	500000		110	614	66.6 U	530	229
Benzo[a]anthracene	5600		434	2020 V	66.6 U	2850	687 V
Benzo[a]pyrene	1000		448	1660	66.6 U	2280	672
Benzo[b]fluoranthene	5600		475	1630 V	66.6 U	2450	716 V
Benzo[g,h,i]perylene	500000		285	1110	66.6 U	1520	529
Benzo[k]fluoranthene	56000		306	1160 V	66.6 U	1460	663 V
Chrysene	56000		480	1710	66.6 U	2540	707
Dibenzo[a,h]anthracene	560		144	243	66.6 U	685	109
Fluoranthene	500000		937	3000	66.6 U	6340	1070
Fluorene	500000		66.3 U	252	66.6 U	185	82.7
Indeno[1,2,3-cd]pyrene	5600		282	1100	66.6 U	1460	514
Naphthalene	500000		66.3 U	116	66.6 U	207	63.4 U
Phenanthrene	500000		549	2400	66.6 U	2390	778
Pyrene	500000		738	3140	66.6 U	5670	1130
Total SVOCs:			5260.9	20573	0	31064.3	8007.7

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- <sup>2</sup> This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation:	OU1-PEB-4	OU1-PEB-4	OU1-PES-1	OU1-PES-1	OU1-PES-1
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	05/14/07	05/15/07	05/10/07	05/14/07	05/15/07
		Sample Depth (ft bls):	2-3	0-1	-	2-3	0-1
Acenaphthene	500000		66 U	157	115	63.4 U	826
Acenaphthylene	500000		66 U	293	274	63.4 U	278
Anthracene	500000		66 U	619	588	63.4 U	1840
Benzo[a]anthracene	5600		66 U	1830	2830 V	128	5970
Benzo[a]pyrene	1000		66 U	1530	2300	125	3070
Benzo[b]fluoranthene	5600		66 U	1560	2370 V	115 V	4220
Benzo[g,h,i]perylene	500000		66 U	1020	2060	94.9	1950
Benzo[k]fluoranthene	56000		66 U	1150	1490 V	108 V	1620
Chrysene	56000		66 U	1670	2400	143	3310
Dibenzo[a,h]anthracene	560		66 U	374	463	63.4 U	933
Fluoranthene	500000		66 U	2510	5060	241	11000
Fluorene	500000		66 U	275	176	63.4 U	1200
Indeno[1,2,3-cd]pyrene	5600		66 U	1010	1780	75.3	1840
Naphthalene	500000		66 U	155	70.4	63.4 U	1440
Phenanthrene	500000		66 U	2020	2320	160	12400
Pyrene	500000		66 U	2550	5170	202	9820
Total SVOCs:			0	18723	29466.4	1392.2	61717

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- <sup>2</sup> This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation:	OU1-PES-1	OU1-PES-1R <sup>2</sup>	OU1-PES-2	OU1-PES-2	OU1-PES-2
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	05/17/07	08/03/09	05/10/07	05/14/07	05/15/07
		Sample Depth (ft bls):	0-1	1-2	-	2-3	0-1
Acenaphthene	500000		64.6 U	65.7 U	63.9 U	119	1120
Acenaphthylene	500000		188	NA	63.9 U	610	2890
Anthracene	500000		325	65.7 U	118	673	7130
Benzo[a]anthracene	5600		1260	65.7 U	510 V	2600	22100
Benzo[a]pyrene	1000		1140	74.6	585	2790	16600
Benzo[b]fluoranthene	5600		1190 V	75.5	486 V	2470 V	16500
Benzo[g,h,i]perylene	500000		707	65.7 U	462	1820	10100
Benzo[k]fluoranthene	56000		823 V	65.7 U	397 V	2020 V	11100
Chrysene	56000		1300	81.4	525	2630	19900
Dibenzo[a,h]anthracene	560		295	65.7 U	202	682	2310
Fluoranthene	500000		2670	190	793	5090	22700
Fluorene	500000		106	65.7 U	63.9 U	224	2390
Indeno[1,2,3-cd]pyrene	5600		691	65.7 U	368	1700	10400
Naphthalene	500000		67.2	65.7 U	63.9 U	95.2	394
Phenanthrene	500000		1500	144	432	1980	31800
Pyrene	500000		2010	146	755	4770	43500
Total SVOCs:			14272.2	711.5	5633	30273.2	220934

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- <sup>2</sup> This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation:	OU1-PES-2	OU1-PES-3	OU1-PES-3	OU1-PES-3	OU1-PES-4
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	05/17/07	05/10/07	05/14/07	05/15/07	05/10/07
		Sample Depth (ft bls):	0-1	-	2-3	0-1	-
Acenaphthene	500000		63.4 U	181	576	64.2 U	65.8 U
Acenaphthylene	500000		98.1	531	1080	123	171
Anthracene	500000		179	1060	3020	151	256
Benzo[a]anthracene	5600		611	3970 V	5640	574	1040 V
Benzo[a]pyrene	1000		668	2950	5340	573	986
Benzo[b]fluoranthene	5600		487	2960 V	4030 V	602	974 V
Benzo[g,h,i]perylene	500000		452	1990	2950	320	717
Benzo[k]fluoranthene	56000		575	2070 V	4190 V	365	702 V
Chrysene	56000		614	3210	5170	548	972
Dibenzo[a,h]anthracene	560		160	591	1200	64.2 U	262
Fluoranthene	500000		1100	6580	11700	933	1580
Fluorene	500000		63.4 U	330	1340	64.2 U	78.2
Indeno[1,2,3-cd]pyrene	5600		403	1990	2990	302	666
Naphthalene	500000		63.4 U	111	368	64.2 U	65.8 U
Phenanthrene	500000		615	4400	10100	564	881
Pyrene	500000		953	5500	9960	908	1660
Total SVOCs:			6915.1	38424	69654	5963	10945.2

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- <sup>2</sup> This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation:	OU1-PES-4	OU1-PES-4	OU1-PES-4 R	OU1-PES-4R <sup>3</sup>	P4-PEB-1
(Concentrations in $\mu g/kg$ )	Commercial Criteria	Sample Date:	05/14/07	05/15/07	05/10/07	08/03/09	06/20/07
		Sample Depth (ft bls):	2-3	0-1	-	1-2	-
Acenaphthene	500000		64.7 U	417	73.9	65.9 U	65.3 U
Acenaphthylene	500000		79.8	188	229	NA	65.3 U
Anthracene	500000		242	1150	357	98.3	65.3 U
Benzo[a]anthracene	5600		846	2800	1450 V	253	65.3 U
Benzo[a]pyrene	1000		758	2020	1300	259	65.3 U
Benzo[b]fluoranthene	5600		718 V	1720	1100 V	318	65.3 UV
Benzo[g,h,i]perylene	500000		485	1040	854	99.6	65.3 U
Benzo[k]fluoranthene	56000		601 V	1590	1070 V	108	65.3 U
Chrysene	56000		852	2270	1290	230	65.3 U
Dibenzo[a,h]anthracene	560		188	403	197	65.9 U	65.3 U
Fluoranthene	500000		1660	5720	2050	506	65.3 U
Fluorene	500000		67.6	510	138	65.9 U	65.3 U
Indeno[1,2,3-cd]pyrene	5600		460	1040	839	86.5	65.3 U
Naphthalene	500000		64.7 U	181	66.3 U	65.9 U	65.3 U
Phenanthrene	500000		805	5330	1310	434	65.3 U
Pyrene	500000		1350	4990	2170	426	65.3 U
Total SVOCs:			9112.4	31369	14427.9	2818.4	0

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- $^2$  This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation:	P4-PEB-2	P4-PEB-2 DUP	P4-PEB-3	P4-PES-3	P5-PES-1
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	06/20/07	06/20/07	06/20/07	06/20/07	06/21/07
		Sample Depth (ft bls):	-	-	-	-	-
	~~~~~			65 O H		1660 11	<i></i>
Acenaphthene	500000		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Acenaphthylene	500000		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Anthracene	500000		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Benzo[a]anthracene	5600		68.8	115	65.7 U	1660 U	65.5 U
Benzo[a]pyrene	1000		88.9	104	65.7 U	1660 U	65.5 U
Benzo[b]fluoranthene	5600		79.3 V	121 V	65.7 UV	1660 UV	65.5 U
Benzo[g,h,i]perylene	500000		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Benzo[k]fluoranthene	56000		68.5 V	93 V	65.7 U	1660 U	65.5 U
Chrysene	56000		80.6	141	65.7 U	1660 U	65.5 U
Dibenzo[a,h]anthracene	560		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Fluoranthene	500000		138	292	65.7 U	1660 U	65.5 U
Fluorene	500000		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Indeno[1,2,3-cd]pyrene	5600		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Naphthalene	500000		66.2 U	65.8 U	65.7 U	1660 U	65.5 U
Phenanthrene	500000		71.4 V	249 V	65.7 U	1660 U	65.5 U
Pyrene	500000		128	217	65.7 U	1660 U	65.5 U
Total SVOCs:			723.5	1332	0	0	0

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- $^2$  This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Parameter	Part 375	Sample Designation: P	5-PES-1 DUP	P5-PES-2	P5-PES-3	P5-PES-COMP <sup>4</sup>
(Concentrations in µg/kg)	Commercial Criteria	Sample Date:	06/21/07	06/21/07	06/21/07	08/03/09
		Sample Depth (ft bls):	-	-	-	0-3
Acenaphthene	500000		64.6 U	66.2 U	66 U	918
Acenaphthylene	500000		64.6 U	66.2 U	66 U	NA
Anthracene	500000		64.6 U	66.2 U	66 U	2750
Benzo[a]anthracene	5600		64.6 U	66.2 U	214	4370
Benzo[a]pyrene	1000		64.6 U	66.2 U	229	4020
Benzo[b]fluoranthene	5600		64.6 U	66.2 U	268 V	4240
Benzo[g,h,i]perylene	500000		64.6 U	66.2 U	162	2220
Benzo[k]fluoranthene	56000		64.6 U	66.2 U	94.8 V	2090
Chrysene	56000		64.6 U	66.2 U	233	3740
Dibenzo[a,h]anthracene	560		64.6 U	66.2 U	66 U	1000
Fluoranthene	500000		64.6 U	66.2 U	488	10200
Fluorene	500000		64.6 U	66.2 U	66 U	1100
Indeno[1,2,3-cd]pyrene	5600		64.6 U	66.2 U	203	2170
Naphthalene	500000		64.6 U	66.2 U	66 U	233
Phenanthrene	500000		64.6 U	66.2 U	296	8160
Pyrene	500000		64.6 U	66.2 U	422	8050
Total SVOCs:			0	0	2609.8	55261

µg/kg - Micrograms per kilogram

µg/L - Micrograms per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

SVOCs - Semivolatile Organic Compounds

ft bls - Feet below land surface

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).

- <sup>2</sup> This sample was collected at the same location as OU1-PES-1 (1-2') on 05/17/2009
- $^3$  This sample was collected at the same location as OU1-PES-4 (1-2') on 05/17/2007

Table 13. Summary of Metals in Post-Excavation Soil Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

Parameter	Part 375	Sample Designation:	OU1-PEB-1	OU1-PEB-1	OU1-PEB-1	OU1-PEB-1	OU1-PEB-1 R
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	Sample Date:	05/10/07	05/15/07	05/17/07	05/17/07	05/17/07
		Sample Depth (ft bls):	-	0-1	0-1	1-2	0-1
Arsenic	16		540	NA	24.6	3.82	26.5
Cadmium	9.3		0.984 U	0.986 U	1.95	0.98 U	1.57
Lead	1000		576	911 V	543	119	626
Arsenic Cadmium Lead	16 9.3 1000	Sample Depth (ft bls):	- <b>540</b> 0.984 U 576	0-1 NA 0.986 U 911 V	0-1 <b>24.6</b> 1.95 543	1-2 3.82 0.98 U 119	0-1 <b>26.5</b> 1.57 626

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

<sup>1</sup> - Soil Cleanup Objectives shown are the NYSDEC commercial cleanup objectives for the protection of human health from Part 375 Table 6.8(b).
Parameter	Part 375	Sample Designation:	OU1-PEB-2	OU1-PEB-2	OU1-PEB-2	OU1-PEB-2	OU1-PEB-2 R
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup> Sample Date:		05/10/07	05/15/07	05/17/07	05/17/07	05/15/07
		Sample Depth (ft bls):	-	0-1	0-1	1-2	0-1
Arsenic	16		54.8	NA	21.4	5.6	NA
Cadmium	9.3		1.76	1.01 U	1.51	0.952 U	0.977 U
Lead	1000		842	733 V	920	650	685 V

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	OU1-PEB-3	OU1-PEB-3	OU1-PEB-3	OU1-PEB-4	OU1-PEB-4
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	Commercial Criteria <sup>1</sup> Sample Date:		05/15/07	05/17/07	05/10/07	05/15/07
		Sample Depth (ft bls):	-	0-1	1-2	-	0-1
Arsenic	16		10.1	NA	0.977 U	13.9	NA
Cadmium	9.3		1.01 U	0.99 U	0.977 U	1.51	0.962 U
Lead	1000		1220	908 V	25.3	975	591 V

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	OU1-PES-1	OU1-PES-1	OU1-PES-1	OU1-PES-1	OU1-PES-1R <sup>2</sup>	
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup> Sample Date		05/10/07	05/15/07	05/17/07	05/17/07	08/03/09	
		Sample Depth (ft bls):	-	0-1	0-1	1-2	1-2	
Arsenic	16		86.4	NA	23.2	11.7	NA	
Cadmium	9.3		1.01 U	1.34	0.998 U	0.982 U	NA	
Lead	1000		738	1750 V	801	269	NA	
Arsenic Cadmium Lead	16 9.3 1000		<b>86.4</b> 1.01 U 738	NA 1.34 <b>1750 V</b>	<b>23.2</b> 0.998 U 801	11.7 0.982 U 269	NA NA NA	

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	OU1-PES-2	OU1-PES-2	OU1-PES-2	OU1-PES-2	OU1-PES-3
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	cial Criteria <sup>1</sup> Sample Date:		05/15/07	05/17/07	05/17/07	05/10/07
		Sample Depth (ft bls):	-	0-1	0-1	1-2	-
Arsenic	16		14.7	NA	12.6	12.3	15.4
Cadmium	9.3		1.01 U	0.954 U	1.93	0.963 U	1.19
Lead	1000		578	1240 V	1130	529	1280

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	OU1-PES-3	OU1-PES-3	OU1-PES-4	OU1-PES-4	OU1-PES-4
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	Sample Date:	05/15/07	05/17/07	05/10/07	05/15/07	05/17/07
		Sample Depth (ft bls):	0-1	1-2	-	0-1	1-2
Arsenic	16		NA	12.2	18	NA	9.02
Cadmium	9.3		2.33	1.01 U	1.26	2.01	1 U
Lead	1000		1710 V	1080	1490	446 V	300
Arsenic Cadmium Lead	16 9.3 1000		NA 2.33 <b>1710 V</b>	12.2 1.01 U <b>1080</b>	<b>18</b> 1.26 <b>1490</b>	NA 2.01 446 V	9.02 1 U 300

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	OU1-PES-4 R	OU1-PES-4R <sup>3</sup>	P4-PEB-1	P4-PEB-2	P4-PEB-2 DUP
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	Sample Date:	05/10/07	08/03/09	06/20/07	06/20/07	06/20/07
		Sample Depth (ft bls):	-	1-2	-	-	-
Arsenic	16		16.3	NA	5.36 V	9.49 V	3.82 V
Cadmium	9.3		1 U	NA	NA	NA	NA
Lead	1000		1730	NA	NA	162 V	43.3 V

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	P4-PEB-3	P4-PES-3	P5-PES-1	P5-PES-1 DUP	P5-PES-2	P5-PES-3
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	Sample Date:	06/20/07	06/20/07	06/21/07	06/21/07	06/21/07	06/21/07
		Sample Depth (ft bls):	-	-	-	-	-	-
Arsenic	16		NA	NA	NA	NA	NA	NA
Cadmium	9.3		NA	NA	NA	NA	NA	NA
Lead	1000		17.1 V	774 V	21.5	37.8	37.5	236

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Part 375	Sample Designation:	P5-PES-2	P5-PES-2 DUP	P5-PES-COMP <sup>4</sup>
(Concentrations in mg/kg)	Commercial Criteria <sup>1</sup>	Sample Date:	07/19/07	07/19/07	08/03/09
		Sample Depth (ft bls):	0-1	0-1	0-3
Arsenic	16		NA	NA	13.8
Cadmium	9.3		NA	NA	0.996 U
Lead	1000		56.8	43.7	1160

mg/kg - Milligrams per kilogram

mg/L - Milligrams per liter

U - Not detected

V - Qualifier added based on Data Usability Summary Report

ft bls - Feet below land surface

NA - Not analyzed

Parameter	Backfill Criteria for	Sample Designation:	Fill-1	
(Concentrations in µg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/10/07	
1,1,1-Trichloroethane	680		1.96 U	
1,1-Dichloroethane	270		1.96 U	
1,1-Dichloroethene	330		1.96 U	
1,2,4-Trimethylbenzene	3600		6.67	
1,2-Dichlorobenzene	1100		1.96 U	
1,2-Dichloroethane	20		1.96 U	
1,3,5-Trimethylbenzene	8400		2.61	
1,3-Dichlorobenzene	2400		1.96 U	
1,4-Dichlorobenzene	1800		1.96 U	
1,4-Dioxane	100		196 U	
2-Butanone	120		49.1 U	
Acetone	50		49.1 U	
Benzene	60		3.45	
Carbon Tetrachloride	760		1.96 U	
Chlorobenzene	1100		1.96 U	
Chloroform	370		1.96 U	
cis-1,2-Dichloroethene	250		1.96 U	
Ethylbenzene	1000		1.96 U	
Isopropylbenzene			1.96 U	
Methylene Chloride	50		9.82 U	
MTBE	930		1.96 U	
n-Butylbenzene	12000		1.96 U	
n-Propylbenzene	3900		1.96 U	
sec-Butylbenzene	11000		1.96 U	
tert-Butylbenzene	5900		1.96 U	
Tetrachloroethene	1300		1.96 U	
Toluene	700		8.26	
trans-1,2-Dichloroethene	190		1.96 U	
Trichloroethene	47		1.96 U	
Vinyl chloride	20		1.96 U	
Xylenes (total)	1600		11.4	
Total VOCs:			32.39	

Table 14. Summary of Volatile Organic Compounds in Backfill Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

µg/kg - Micrograms per kilogram

U - Not detected

VOCs - Volatile Organic Compounds

Parameter	Backfill Criteria for	Sample Designation:	Fill-1
(Concentrations in $\mu g/kg$ )	Commercial Use <sup>1</sup>	Sample Date:	05/10/07
		Ē	
2-Methylphenol	330		325 U
3&4-Methylphenol	330		325 U
Acenaphthene	98,000		325 U
Acenaphthylene	107,000		325 U
Anthracene	500,000		325 U
Benzo[a]anthracene	1,000		325 U
Benzo[a]pyrene	1,000		325 U
Benzo[b]fluoranthene	1,700		325 U
Benzo[g,h,i]perylene	500,000		325 U
Benzo[k]fluoranthene	1,700		325 U
Chrysene	1,000		325 U
Dibenzo[a,h]anthracene	560		325 U
Dibenzofuran	210,000		325 U
Fluoranthene	500,000		325 U
Fluorene	386,000		325 U
Hexachlorobenzene	3,200		325 U
Indeno[1,2,3-cd]pyrene	5,600		325 U
Naphthalene	12,000		325 U
Pentachlorophenol	800		814 U
Phenanthrene	500,000		325 U
Phenol	330		325 U
Pyrene	500,000		325 U
Total SVOCs:			0

Table 15. Summary of Semivolatile Organic Compounds in Backfill Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

µg/kg - Micrograms per kilogram

U - Not detected

SVOCs - Semivolatile Organic Compounds

Parameter	Backfill Criteria for	Sample Designation:	Fill-1
(Concentrations in mg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/10/07
Arsenic	16		0.986 U
Barium	400		33
Beryllium	47		0.986 U
Cadmium	7.5		0.986 U
Chromium			6.98
Copper	270		9.05
Cyanide	27		2 U
Hexavalent Chromium	19		2 U
Lead	450		7.73
Manganese	2,000		263
Mercury	0.7		0.101 U
Nickel	130		6.37
Selenium	4		1.97 U
Silver	8		0.986 U
Trivalent Chromium	1,500		6.98
Zinc	2,480		44.6

Table 16. Summary of Metals in Backfill Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

mg/kg - Milligrams per kilogram

U - Not detected

Table 17. Summa	ry of Pol	ychlorinated B	iphen	yl Com	pounds in	Backfill S	Samples,	ExxonMobil	Buffalo	Terminal,	Buffalo,	New '	York
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Parameter (Concentrations in µg/kg)	Backfill Criteria for Commercial Use <sup>1</sup>	Sample Designation: Sample Date:	Fill-1 05/10/07
Aroclor-1016			32.6 U
Aroclor-1221			32.6 U
Aroclor-1232			32.6 U
Aroclor-1242			32.6 U
Aroclor-1248			32.6 U
Aroclor-1254			32.6 U
Aroclor-1260			32.6 U
Total PCBs:	1000		0

µg/kg - Micrograms per kilogram

PCBs - Polychlorinated Biphenyl Compounds

U - Not detected

Parameter	Backfill Criteria for	Sample Designation:	Fill-1
(Concentrations in µg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/10/07
2,4,5-TP (Silvex)	3,800		17 U
4,4'-DDD	14,000		1.67 U
4,4'-DDE	17,000		1.67 U
4,4'-DDT	47,000		1.67 U
Aldrin	190		1.67 U
alpha-BHC	20		1.67 U
alpha-Chlordane	2,900		1.67 U
beta-BHC	90		3.25 U
delta-BHC	250		1.67 U
Dieldrin	100		1.67 U
Endosulfan I	102,000		1.67 U
Endosulfan II	102,000		1.67 U
Endosulfan sulfate	200,000		1.67 U
Endrin	60		1.67 U
gamma-BHC (Lindane)	100		1.67 U
Heptachlor	380		1.67 U

Table 18. Summary of Pesticides in Backfill Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

µg/kg - Micrograms per kilogram

U - Not detected

Parameter	Backfill Criteria for	Sample Designation:	SP-1	SP-2	SP-3	SP-4	SP-5	SP-1
(Concentrations in µg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/14/07	05/14/07	05/14/07	05/14/07	05/14/07	06/08/07
1,1,1-Trichloroethane	680		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,1-Dichloroethane	270		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,1-Dichloroethene	330		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,2,4-Trimethylbenzene	3600		1.94 U	1.96 U	8.71	1.94 U	1.95 U	NA
1,2-Dichlorobenzene	1100		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,2-Dichloroethane	20		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,3,5-Trimethylbenzene	8400		1.94 U	1.96 U	3.4	1.94 U	1.95 U	NA
1,3-Dichlorobenzene	2400		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,4-Dichlorobenzene	1800		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
1,4-Dioxane	100		194 U	196 U	195 U	194 U	195 U	NA
2-Butanone	120		48.5 U	49 U	48.7 U	48.5 U	48.6 U	NA
Acetone	50		62.9	54.6	89.7	63.7	59	48.7 U
Benzene	60		1.94 U	1.96 U	5.99	1.94 U	1.95 U	NA
Carbon Tetrachloride	760		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Chlorobenzene	1100		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Chloroform	370		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
cis-1,2-Dichloroethene	250		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Ethylbenzene	1000		1.94 U	1.96 U	2.5	1.94 U	1.95 U	NA
Isopropylbenzene			1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Methylene Chloride	50		9.71 U	9.8 U	9.75 U	9.71 U	9.73 U	NA
MTBE	930		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
n-Butylbenzene	12000		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
n-Propylbenzene	3900		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
sec-Butylbenzene	11000		1.94 U	1.96 U	6.33	1.94 U	1.95 U	NA
tert-Butylbenzene	5900		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Tetrachloroethene	1300		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Toluene	700		1.94 U	1.96 U	23.3	34.2	2.99	NA
trans-1,2-Dichloroethene	190		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Trichloroethene	47		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Vinyl chloride	20		1.94 U	1.96 U	1.95 U	1.94 U	1.95 U	NA
Xylenes (total)	1600		4.85 U	4.9 U	17.9	4.85 U	4.86 U	NA
Total VOCs:			62.9	54.6	157.83	97.9	61.99	0

Table 19. Summary of Volatile Organic Compounds in Topsoil Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

μg/kg - Micrograms per kilogram U - Not detected

VOCs - Volatile Organic Compounds

<sup>1</sup> Criteria for backfill under the commercial use scenario is the lower of the commercial use

criteria for human health or the criteria for protection of groundwater presented in

Table 375-6.8(b) of Part 375.

#### **REMEDIAL ENGINEERING, P.C.**

Parameter	Backfill Criteria for	Sample Designation:	SP-2	SP-3	SP-4	SP-5	Topsoil-1A
(Concentrations in µg/kg)	Commercial Use <sup>1</sup>	Sample Date:	06/08/07	06/08/07	06/08/07	06/08/07	4/30/2010
1,1,1-Trichloroethane	680		NA	NA	NA	NA	1.98 U
1,1-Dichloroethane	270		NA	NA	NA	NA	1.98 U
1,1-Dichloroethene	330		NA	NA	NA	NA	1.98 U
1,2,4-Trimethylbenzene	3600		NA	NA	NA	NA	1.98 U
1,2-Dichlorobenzene	1100		NA	NA	NA	NA	1.98 U
1,2-Dichloroethane	20		NA	NA	NA	NA	1.98 U
1,3,5-Trimethylbenzene	8400		NA	NA	NA	NA	1.98 U
1,3-Dichlorobenzene	2400		NA	NA	NA	NA	1.98 U
1,4-Dichlorobenzene	1800		NA	NA	NA	NA	1.98 U
1,4-Dioxane	100		NA	NA	NA	NA	198 U
2-Butanone	120		NA	NA	NA	NA	49.4 U
Acetone	50		47.2 U	48.6 U	49.2 U	47.9 U	49.4 U
Benzene	60		NA	NA	NA	NA	1.98 U
Carbon Tetrachloride	760		NA	NA	NA	NA	1.98 U
Chlorobenzene	1100		NA	NA	NA	NA	1.98 U
Chloroform	370		NA	NA	NA	NA	11.3 B
cis-1,2-Dichloroethene	250		NA	NA	NA	NA	1.98 U
Ethylbenzene	1000		NA	NA	NA	NA	1.98 U
Isopropylbenzene			NA	NA	NA	NA	1.98 U
Methylene Chloride	50		NA	NA	NA	NA	9.88 U
MTBE	930		NA	NA	NA	NA	1.98 U
n-Butylbenzene	12000		NA	NA	NA	NA	1.98 U
n-Propylbenzene	3900		NA	NA	NA	NA	1.98 U
sec-Butylbenzene	11000		NA	NA	NA	NA	1.98 U
tert-Butylbenzene	5900		NA	NA	NA	NA	1.98 U
Tetrachloroethene	1300		NA	NA	NA	NA	1.98 U
Toluene	700		NA	NA	NA	NA	1.98 U
trans-1,2-Dichloroethene	190		NA	NA	NA	NA	1.98 U
Trichloroethene	47		NA	NA	NA	NA	1.98 U
Vinyl chloride	20		NA	NA	NA	NA	1.98 U
Xylenes (total)	1600		NA	NA	NA	NA	4.94 U
Total VOCs:			0	0	0	0	11.3

Table 19. Summary of Volatile Organic Compounds in Topsoil Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

μg/kg - Micrograms per kilogram U - Not detected

VOCs - Volatile Organic Compounds

<sup>1</sup> Criteria for backfill under the commercial use scenario is the lower of the commercial use criteria for human health or the criteria for protection of groundwater presented in

Table 375-6.8(b) of Part 375.

#### **REMEDIAL ENGINEERING, P.C.**

Parameter	Backfill Criteria for	Sample Designation:	SP-1	SP-2	SP-3	SP-4	SP-5	Topsoil-1A
(Concentrations in $\mu g/kg$ )	Commercial Use <sup>1</sup>	Sample Date:	05/14/07	05/14/07	05/14/07	05/14/07	05/14/07	4/30/2010
2-Methylphenol	330		312 U	324 U	330 U	315 U	325 U	324 U
3&4-Methylphenol	330		312 U	324 U	330 U	315 U	325 U	324 U
Acenaphthene	98,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Acenaphthylene	107,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Anthracene	500,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Benzo[a]anthracene	1,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Benzo[a]pyrene	1,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Benzo[b]fluoranthene	1,700		312 U	324 U	330 U	315 U	325 U	65.1 U
Benzo[g,h,i]perylene	500,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Benzo[k]fluoranthene	1,700		312 U	324 U	330 U	315 U	325 U	65.1 U
Chrysene	1,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Dibenzo[a,h]anthracene	560		312 U	324 U	330 U	315 U	325 U	65.1 U
Dibenzofuran	210,000		312 U	324 U	330 U	315 U	325 U	324 U
Fluoranthene	500,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Fluorene	386,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Hexachlorobenzene	3,200		312 U	324 U	330 U	315 U	325 U	324 U
Indeno[1,2,3-cd]pyrene	5,600		312 U	324 U	330 U	315 U	325 U	65.1 U
Naphthalene	12,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Pentachlorophenol	800		782 U	810 U	825 U	787 U	812 U	809 U
Phenanthrene	500,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Phenol	330		312 U	324 U	330 U	315 U	325 U	324 U
Pyrene	500,000		312 U	324 U	330 U	315 U	325 U	65.1 U
Total SVOCs:			0	0	0	0	0	0

Table 20. Summary of Semivolatile Organic Compounds in Topsoil Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

µg/kg - Micrograms per kilogram

U - Not detected

SVOCs - Semivolatile Organic Compounds

Parameter	Backfill Criteria for	Sample Designation:	SP-1	SP-2	SP-3	SP-4	SP-5	Topsoil-1A
(Concentrations in mg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/14/07	05/14/07	05/14/07	05/14/07	05/14/07	4/30/2010
	1.6		2.04			<b>5</b> 40	<b>7</b> 00	1.10
Arsenic	16		3.94	5.31	5.25	5.43	5.98	1.18
Barium	400		59.5	68.9	79.2	60.1	81.2	72.5
Beryllium	47		0.996 U	0.998 U	1 U	0.994 U	0.975 U	0.996 U
Cadmium	7.5		0.996 U	0.998 U	1 U	0.994 U	0.975 U	0.996 U
Chromium			17.1	18.7	21.8	16.8	24.3	14.4
Copper	270		25.3	25.4	25.3	20.1	27	11.7
Cyanide	27		2 U	2 U	2 U	2 U	2 U	2 U
Hexavalent Chromium	19		2 U	2 U	2 U	2 U	2 U	2 U
Lead	450		21.4	26.2	25.9	25.8	25.9	20.3
Manganese	2,000		321	483	442	352	391	500
Mercury	0.7		0.0977 U	0.1 U	0.0984 U	0.0965 U	0.0988 U	0.0984 U
Nickel	130		23	23.7	25.6	19.4	26.5	12.8
Selenium	4		1.99 U	2 U	2 U	1.99 U	1.95 U	1.99 U
Silver	8		0.996 U	0.998 U	1 U	0.994 U	0.975 U	0.996 U
Trivalent Chromium	1,500		17.1	18.7	21.8	16.8	24.3	14.4
Zinc	2,480		85.3	97.6	107	101	107	73.6

Table 21. Summar	v of Metals in To	psoil Samples.	ExxonMobil Buffalo	Terminal,	Buffalo, New	York

mg/kg - Milligrams per kilogram U - Not detected

Parameter	Backfill Criteria for	Sample Designation:	SP-1	SP-2	SP-3	SP-4	SP-5	Topsoil-1A
(Concentrations in µg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/14/07	05/14/07	05/14/07	05/14/07	05/14/07	4/30/2010
Aroclor-1016			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Aroclor-1221			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Aroclor-1232			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Aroclor-1242			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Aroclor-1248			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Aroclor-1254			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Aroclor-1260			32.9 U	33.2 U	32.3 U	33.3 U	33.3 U	33 U
Total PCBs:	1000		0	0	0	0	0	0

Table 22. Summary of Polychlorinated Biphenyl Compounds in Topsoil Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

µg/kg - Micrograms per kilogram

PCBs - Polychlorinated Biphenyl Compounds

U - Not detected

Parameter	Backfill Criteria for	Sample Designation:	SP-1	SP-2	SP-3	SP-4	SP-5	Topsoil-1A
(Concentrations in µg/kg)	Commercial Use <sup>1</sup>	Sample Date:	05/14/07	05/14/07	05/14/07	05/14/07	05/14/07	04/30/10
2,4,5-TP (Silvex)	3,800		17 U					
4,4'-DDD	14,000		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
4,4'-DDE	17,000		2.98	1.68 U	4.59	3.95	6.26	1.66 U
4,4'-DDT	47,000		5.96	4.28	3.61	2.96	6.59	1.66 U
Aldrin	190		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
alpha-BHC	20		3.64	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
alpha-Chlordane	2,900		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
beta-BHC	90		3.28 U	3.26 U	3.25 U	3.26 U	22.7	3.23 U
Chlordane			NA	NA	NA	NA	NA	65.2 U
delta-BHC	250		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
Dieldrin	100		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
Endosulfan I	102,000		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
Endosulfan II	102,000		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
Endosulfan sulfate	200,000		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
Endrin aldehyde			NA	NA	NA	NA	NA	1.66 U
Endrin ketone			NA	NA	NA	NA	NA	1.66 U
Endrin	60		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
gamma-BHC (Lindane)	100		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
gamma-Chlordane			NA	NA	NA	NA	NA	1.66 U
Heptachlor epoxide			NA	NA	NA	NA	NA	1.66 U
Heptachlor	380		1.69 U	1.68 U	1.67 U	1.68 U	1.68 U	1.66 U
Methoxychlor			NA	NA	NA	NA	NA	3.23 U
Toxaphene			NA	NA	NA	NA	NA	65.2 U

Table 23. Summary of Pesticides in Topsoil Samples, ExxonMobil Buffalo Terminal, Buffalo, New York

µg/kg - Micrograms per kilogram

U - Not detected









0172Y\0052Y\424\0172.0052Y424.04.DWG



\0172Y\0052Y\424\0172.0052Y424.06.CDR



#### Source:

http://erie-gis.co.erie.ny.us/website/buffalony/Viewer.htm

#### ZONING MAP

FORMER BUFFALO TERMINAL, BUFFALO, NEW YORK

Prepared for:	ONMOBIL OIL	COMPANY	
ROUX ASSOCIATES, INC.	Compiled by: N.C. Prepared by: B.H.C. Project Mgr.: N.C.	Date: 17MAR11 Scale: AS SHOWN Project No.: 0172.0052Y014	FIGURE
& Management	File No.: 0172.0052Y4	24.06.CDR	



	P5-PES-2	7/19/2007	- SAMPLE DATE
		0-1	- DEPTH INTERVAL WHERE
Ì			' SAMPLE WAS TAKEN (FEET)

**Final Construction Certification Report** 

**APPENDIX A** 

**Daily Construction Reports** 

## ExxonMobil Oil Fmr Buffalo Terminal OU-1ExCAVATION

Day/Date:	5-7-07	CHES Site I	/lgr:	Bill CA	n Poli	<i>₩</i> 0 Sigr	nature	r:	Bill	lon
Jay/Shift:	MON.	Weather:		EleAR	42	a - 520	Win	d Direction	15	18 5-10MPH
ocumentati	on(CIRCLE):	XOM Permit	> loto	Safety	Briefing	) (JSA	2 c	alibration	Cim	e Sheet
Pre start S	ite Inspect	ion: Cor	Plete	0						
Safety Equ	ip Inspecti	ion (Extingui	shers, F	irst Aid K	it, Res	piratory,	PPE,	Spill): (	som ple	eted
Clean Harbo	rs Personnel							7		
Bill	CAMPOP	AND	4					<u>/</u>		
2 DARRE	ell OSB	ORN.	<u>ə</u>					0		······································
3 MIKE	CITAN	21	6					9		
Subcontract	ors 	·····	3 1/2	Q -	29		Γ	5		
HERI	<u>C.,</u>		J 170	me ve	rcių -			<u>×</u>		
E HARE	<u>s suppi</u> Vehicles III	Z					L	<u> </u>		······································
1 )_ A	P.K12 PS		6				Ī	11		a mayo, a gana mayo gana maa adaa cara ay la samaa da adaa da baraha da baraha ka baraha
2 640	<u> </u>		7					12		
3 200	non		8					13	*****	***
A RoBo	at w/ SI	veeler.	9				1	14		
5 2000	11 (Jan D)	Fails	10					15		
Materials Us	ed	10013	Quantit	у			1			Quantity
1 C-ec	vrer Fi	ABRIC	2R	5,	7					
2 WIR	e Ties		10 BC	25,	8					
3	······				9					
4					10				•	
5	49399999999999999999999999999999999999				11					
6					12					
Deliveries (I	naterial,equi	p,fuel)	Quantit	Y	<b>Proder</b>	<del>dio</del> n De	elive	nies.		Quantity
1 cec	Yex		2R	(5.	1 8	+ CA-UA	Ton			<u> </u>
2 hiR	e Ties		LOB	6-2,	2	-caper				
3 Gar	ner the	se	100		<u>3</u> B	BCAT	- 1-1.	sweep	er	(
4 46+6	so th	rP	<u> </u>		4					
5 MASO	~ STRI	d-G-	2 1	.15	5	havand Mehar Armine Incelsion			ann à an a daoidh chanan a ann ia deo	
6 Hose	- Corps	ections	Mis	с.	6	د در در		يتنفذه فتواصر الرو		
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1	7785 <u>6</u>	195014	(17)	1 Marce	1	1010/01/01				
2	Na Tantériné se wang tu calatikas ng kanagang kanagang				2					
3					3					
4					4				<b>_</b>	a a fa
Notes / Co	omments			-					~	
Rec'o.	E.O.M.	WORK Pe	RMIT.	Revi	ewe	1 H.e.	<u>\$ / J</u>	-5A'S,	Rec	D. EQUIP.
FROM	HERTZ	. Finish	Les 3	eTTING	08	ERESI	er-	CONTR	201 2	BIACKINGe
Ferce	EN PA	rce( 4.	Be	CAN E	Rasia	~ cov	TRal	26	314641	me out
Ferce	Ju P	ARCel 51		1				• • • 200- 00 • • • • • • • • • • • • • • • • •		والمحافظ والمعادي والمعادي والمراوع والمراوع والمراجع والمحافظ والمراوع والمحافظ والمحافظ والمحافظ والمحافظ

# ExxonMobil Oil Fmr Buffalo Terminal OU-1 ExCAVATION

				· · · · · · · · · · · · · · · · · · ·		- 7		
Day/Date: 5-9-07 0	HES Site N	lgr:	BillCt	mP+PiArv Signatu	re:	Bill	6725	
Day/Shift: Tues V	Veather:		CICAR	68-72 N	/ind Direction	Sw-N	E 15-20 MPI	
Documentation(CIRCLE):	KOM Permit	> LOTO	Safety	Briefing (ISA)	Calibration	Alme	Sheet>	
Pre start Site Inspection	n: Comf	Neted		· · · · · · · · · · · · · · · · · · ·		. <u> </u>		
					0.10			
Safety Equip Inspection	n (Extingui	shers, Fil	rst Aid K	it, Respiratory, PPE	:, Spill):	Confl	e7e0	
			and the second			an intera		
Clean Harbors Personnel	- 10	<u>a en 18 en 18 en 1</u> A		<u> </u>	7			
1 Bill CAMPOILAN		5 5			8			
2 PATRICE ( OS DOA		2						
Subcontractors	ee Signa aan ah ah ah					a galanda da d		
1 FARNHAM FAI	2425	3			5			
2		4			6			
Equipment / Vehicles / Unit	S				<u>_</u>			
1 2- PICK-UPS		6			11			
2 EXCAVATOR		7			12			
3 LOADER		8						
4 BOBCAT M/Sinc	eper	9		14				
5		10			15			
Materials Used		Quantity		T		· · · · · · · · ·	Quantity	
1 HAY BALES		- 80	<u>ro</u> 7					
2 MARKING PAIN	·T	3 CA	e~5	8				
3 40 ×60 TAN	z.p			9				
4				10				
5				11				
6				12			<u>O</u>	
Deliveries (material, equip, f	uel)	Quantity		Production Quarter and The Call of the			Quantity	
1 1144 134/23		80		2			AHOLOR 30 905	
2				2				
3								
4				64 22				
3				0				
b Equipment Calibration				Samples				
Device	Mod	əl	Date	Media	ID #		Comment	
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2			L	2				
3				3				
4			L	<b>4</b> South and south 1			n damarko krajo – u oj	
Notes / Comments	Irea's	000	10 8	ma wearin D	ppm T.	E	il.a.s	
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+ M MARCel 5,	MARK	en ou	A Ita	and a cate	CTAL IN	- 400	- Sa Parroll	
IN VARCEL HX	D. Kei	20 1+4	7 1341	es a servi	Ball.	Gue es	+ + a price a	
SITE VISITED	by CHA	<u>25/42</u>	13 Zew	541 UUCC)	UEWAN LOAN	CHCAU	PD	
NORTHEAST FOR	1100 01-	PHICC Can	(4)5	OUS STOCKPI	100 - 1	してなりていてい	-w ·	



## ExxonMobil Oil Fmr Buffalo Terminal OU-1 ExCAVATION

Day/Date: 5-9-07 CHES Site	Mgr: BIICA	Im Pol, And Signatur	re:	Bella	~		
Day/Shift: w-e Ø Weather:	7 Sun	120-82 W	ind Direction	5/30	- NINE	2-3 2-1	
ocumentation(CIRCLE): XOM Permit	> LOTO &afety	Briefing JSA	Calibration	Cime :	Sheet		
Pre start Site Inspection: Com	Pletel						
Seter Provins In an action (Proting)	Johana First Aid K	it Perniratory DDE	Spill):	1 11 -			
satety Equip inspection (Extingu	lishers, First Ald N	it, Respiratory, FFE	<u>, opinj.</u> (	OMPLE	1 20		
lean Harbors Personnel							
Bill CAN POPIANO	4		7				
2 DARRell OBBORN.	5	8					
3 MINE CHAKET	6		9				
Subcontractors							
BFF MAGRA.	3		0				
2 PARIGIC TRUCKING	4		0	,			
1 9 - Dick-ups	6		11		annan a' an		
2 FLEAVATOR	7		12				
3 LOADER	8	13					
4 BoBCAT W/ Sweeper	9	14					
5	10		15				
Materials Used	Quantity				Quantity		
1 Diesel Fuel	136.	/					
2		0					
3 A		3					
		11					
5 6		12	۰.				
Deliveries (material, equip, fuel)	Quantity	Production	,		Quantity		
1 Diesel Fuel	736,	1 ELCAVATED AP	ROK 4355	- 39 "	APROX 1	61 405	
2		2 TRUCKS LOAD	ed For 1	Is PosAl	18 APrice	400700	
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4		4					
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Govice Mo	del Date	Media	1D #	ay 19 at 1 y 100 y	Comment		
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2		2					
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OF PARCEL H4 1	caped 18	TRUCKS W	Soul F	er pi	sposAl	e	
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Swept ST 1 Swe	ceper STO	RKP, 12 LOU	IERED	Q 3	Te Se	cured	
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## ExxonMobil Oil Fmr Buffalo Terminal OU-1ExCAVATION

cumentation(CIRCLE): (	XOM Permit	> LOTO	Safety	Briefing ISA	Calibration (	Time SheeD		
re start Site Inspectio	n: Pau	NIOTER						
	Cer	preco		***************************************				
afety Equip Inspectio	n (Extingu	ishers, Fi	rst Aid K	it, Respiratory, PP	E, Spill): Com	NETES		
lean Harbors Personnel	~	4			7			
13111 CAMPOPIAN		<u>κ</u>			8			
WARREN USBOR	,	6			9	****		
ubcontractors								
BFI NIAGRA		3		·	5			
PARISIO TRUCH	int	4			6			
quipment / Vehicles / Uni	<u>ts</u>				41			
2- 1124-013		7						
ERCAVATOR		2		12				
R BENTWICK		a		1 <u>7</u>				
1JOINCAT 1500	ECPCAL	10 15			15	····		
laterials Used	10015	Quantity				Quantity		
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<b>j</b>				9				
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JIA INTERIO	11010			<u></u>	Y			



# ExxonMobil Oil Fmr Buffalo Terminal OU-1 ExCAVATION

		·					~ <i>````````````````````````````````````</i>	910-	P	
Day/Date:	5-11-07	CHES Site	Mgr:	Bill Cg	mpopi4no Signal	ture:	Bull			
Day/Shift:	FRI	Weather:	VERT	Forthy 1	In Cleaning- 720-	wind Direction	3/80	- NTHE	5-15 MPH	
Documentati	on(CIRCLE):	<b>QOM</b> Permit	<u>&gt; loto</u>	Safety	Briefing JSA	Calibration	Time	SheeD		
								<u></u>		
Pre start S	ite inspect	ion: Co.	mplet	el						
							2 - (	<u> </u>		
Safety Equ	ip Inspecti	on (Extingu	ishers, F	irst Aid K	it, Respiratory, Pl	PE, Spill): 🗠	surf le	TED		
Clean Harbo	rs Personnel					7				
<u>1 /3// (</u>	mpchi	9-12-0	4							
2 DARR	21( 05/	BORD	5							
3 Mike	<u>eltak</u>	(or T	6			1.8				
Subcontract	ors	·····	10			R				
1 131-	h+					6				
2 PARI	SIC TR.	ic Kinh	<b> 4</b>		·	0				
	venicies / O	11113	6			11				
2 - 1	cn-ors	`	7	<u></u>		12				
2 2x	CAVA-101	<u>C</u>	2			13				
3 60	4-Ver		0		44					
4 BOBCA	rTw/su	eefen								
3 Mise	- HARD	Tools	Quantif	hv.				Quantit	¥	
1	55U	****	T	·/	7			1		
2					8					
2					9					
A			+		10			1		
5					11			1		
S			+		12			1		
Deliveries (	naterial,equi	p,fuel)	Quantit	У	Production			Quantity	*****	
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2					3					
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Notes / Co	omments		a na ann an ann an ann an ann an an an a							
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	Reads a lotario allaborada abasato a fatos de avec								***	



# ExxonMobil Oil Fmr Buffalo Terminal OU-1 ExCAVATION

Day/Date: 5-12-07 CHES Site	Mgr: Bill C	2. Aur Poll + - Signatu	re: But	112000		
ay/Shift: 347 Weather:	Cloudy, windy	60°-65° W	ind Direction NE	-3- 10-20 mpix		
ocumentation(CIRCLE): XOM Permit	> LOTO Safety	Briefing (JSA)	Calibration (Tir	ne Sheet		
re start Site Inspection: Com	plered		·····			
afety Equip Inspection (Extingu	ishers, First Aid K	(it. Respiratory, PPE	. Spill): Correct	DIETER		
aley Equip hopeonon (Exange			·			
lean Harbors Personnel			Tu			
Bill Campopitare	4	·····	7			
DARRell OSBCAR	5		8			
MIKE CHAKat	6	•	3			
RET	3		5			
2 PARISIA TRICHING.	4		6			
quipment / Vehicles / Units			1			
2-PICK-UPS	6	6 11				
2 Lotler	17					
3 SKCAVATOR	8					
BoBCAT M Sweeper	3	MINTON	45			
Materials Used	Quantity		110	Quantity		
1 Aresel Freel	63 6.	7				
2		8				
3		9				
4		10				
5		11				
	Dismostitu	12 Broduction	un salar santas velocaras velocaras velocaras	Ouantity		
1 Our cal Fund	Guarnity 676	1 CLEANATED A	PROF ACONSA	e		
2	<u> </u>	2 Lauren 2000	pp grocus	APPORt SECTOR		
20 7 2		3 STORE ExCAVA	Ten & STeak Diles	> APROX 75-100 YDS		
4		4				
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6		6	ا ا الدوالة الاستام معهد ا ال	Juana a ser		
Septement Calibration	ciol Date	Samples Media	10#	Comment		
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2		2				
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Les / Comments		1				
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of PARcel # 5 1 -	Den 20 Di	mp TRUCHS on	1 Soul FOR	DISPOSAL		
@ BFI. SXCANA	TED & STOC	GPILED APROX.	75-100 403	s of sorl.		
STOCK Pile Covered	2 Secure	9. Fueled	2 GREASED	EQUIPORET.		
SITE Secured			ugas au samanar ana ar anno ann ar fran machadain ban is au sun an dadharadh			


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ay/Date: 5-14-07 CHES Site	Mgr: Bill CA	nforine Signati	ure: 1	Billing	
y/Shift: Mon Weather:	PARTIN Cloud	7 Coci 58-64	Nind Direction	VARIABLE WILDS 7-15	
cumentation(CIRCLE): COM Permi	t ) LOTO Safety	Briefing (ISA)	Calibration	Clime Sheet	
e start Site Inspection: 2	PletoD				
	<u> </u>				
afety Equip Inspection (Exting	uishers, First Aid K	(it, Respiratory, PP	E, Spill): (	Completes	
lean Harbors Personnel	A	****	7		
Dill CANTOPIANO	5		8		
KOIS HDANI	<u>×</u>	······	9		
ubcontractors				······································	
BFE	3		5		
PARISIO TRUCKIAG	4		6	*****	
quipment / Vehicles / Units	Te		44		
Pick-up	- 10 		12		
EXCAVATER	<u> /</u>   <u>Q</u>		13		
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BOBCAT -ISWEEFER	10		15	************************	
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Equipment Calibration	ordal linea	Samples	87.64	Composit	
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the preas excampted Qhyd A AIR MOW TORS 6-21-07 325 TABRTE OROADA Date: ž Inspection Log - Page 2 WINONN STREET Ţ Buffalo Terminal OU 106' ELK BTREET 115'

ExxonMobil Oil Fmr Buffalo Terminal OU-1ExCAVATION

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The application       An Shore Sure 2477 Wind Direction 104.48/12 Y-16-014         bouwentation(CIRCLE): COM Permp LOTO Rates Briefing CISA Calibration Time Street         Pre start Site inspection:       Complet Calibration         Safety Equip Inspection (Extinguishers, First Aid Kit, Respiratory, PPE, Spill):       Complet Calibration         Clean Harbors Personnel       Image: Calibration (Extinguishers, First Aid Kit, Respiratory, PPE, Spill):       Complet Calibration         LARRY Science       S       8         Ican Harbors Personnel       Image: Calibration (Extinguishers, First Aid Kit, Respiratory, PPE, Spill):       Complet Calibration         LARRY Science       S       8         I Deck Science       S       8         1 Deck Calibration       S       S         2 upmont / Vahicles / Units       11       S         2 upmont / Vahicles / Units       8       13         4       9       14         5       10       15         1 Bace Calibration       Cuantity       Cuantity	Day/Date: 6-28-07 CHES Site	Mar: B.110	Amfolian Si	anature: 🛛 🖉	selen
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Pre start Site Inspection:       Complet element         Safety Equip Inspection (Extinguishers, First Aid Kit, Respiratory, PPE, Spill):       Cmplet element         Isan Harbors Personnel       7         LARCT Stringuishers, First Aid Kit, Respiratory, PPE, Spill):       Cmplet element         Isan Harbors Personnel       7         LARCT Stringuishers, First Aid Kit, Respiratory, PPE, Spill):       Cmplet element         Image: Stringuishers, First Aid Kit, Respiratory, PPE, Spill):       Cmplet element         Image: Stringuishers, First Aid Kit, Respiratory, PPE, Spill):       Cmplet element         Image: Stringuishers, First Aid Kit, Respiratory, PPE, Spill):       Stringuishers, First Aid Kit, Respiratory, PPE, Spill):         Image: Stringuishers, First Aid Kit, Respiratory, PPE, Spill):       Stringuishers, Spill, S	Documentation(CIRCLE): XOM Perm	P LOTO &a	tety Briefing JS	Calibration	Time Sheet
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Isan Harbors Personnel       7 $LARRY Stis Bully       4       7         2       Raft Bellace       5         3       6       9         Subcontractors       3       5         2       4       6         iguipment / Vehicles / Units       11         Bellace       6       11         2       8       13         4       9       14         5       10       15         Waterials Used       Quantity       Quantity         1       Bellace       11         2       8       13         4       9       14         5       10       15         Waterials Used       Quantity       Quantity         1       Back Fill       7         2       8       12         3       9       1         4       10       15         3       11       12         2       11       12         3       12       2         3       12       3         4       10       12         2       11       12$	Safety Equip Inspection (Exting	uishers, First Al	d Kit, Kespiraton	y, PPE, Spill): 7	mpleter
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2       Init R R Back G       5       8         3       6       9         ubcontractors       4       6         2       4       6         2       4       6         2       4       6         2       5       11         2       2       11         2       2       14         3       8       13         4       9       14         5       10       15         Valuerials Used       Quantity       Quantity         1       6       12         2       8       2         3       9       4         4       10       15         3       9       1         4       10       12         2       2       2         3       3       3         4       4       5         5       5       5         6       6       6         1       2       2         3       3       4         4       5       5         6       5       5	1 LARRY SALISBURY	4		7	
3     6     9       Jubcontractors     1     PCRISIO YRUCKAL     3     5       1     PCRISIO YRUCKAL     3     5       2     4     6       Guipment / Vehicles / Units     1     1       1     Do Zer     6     11       2     86     11       2     Bob Cert "/Surveyeet, 7     12       3     8     13       4     9     14       5     10     15       Valerials Used     Quantity     Quantity       1     Back Fill     7       2     8     3       3     9     4       4     10     5       5     11     6       6     12       2     8       3     9       4     10       5     11       6     12       2     2       3     3       4     4       5     5       6     6       6     6       6     6       6     6       6     6       6     6       7     2       3     3	2 MATT Rol BERG	5		8	
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5     10     15       Waterials Used     Quantity     Quantity       1     Back Fill     7       2     8       3     9       4     10       5     11       6     12       Control of the second s	4	9		14	
Visterials Used     Quantity     Quantity       1     BACK Fill     7       2     8       3     9       4     10       5     11       6     12       Contraction     Quantity       Production     Quantity       1     Beck Fill       2     2       3     3       4     4       5     5       6     5       5     5       6     5       6     5       6     5       6     5       6     5       6     5       6     5       6     5       6     2       2     2       3     3       4     4       2     2       3     3       4     4       1     2       2     2       3     3       4     4       1     1       2     2       3     3       4     4       Notes / Comments       Rec P. E. O. M. WORK PERMIT REVIEw J34'S / HES "IEREM.       FinisHel Back Filling Parcel #4 mill	5	10		15	
1       Back Fill       1         2       8         3       9         4       10         5       11         6       12         20/veries (material, equip, fuel)       Quantity         Production       Quantity         1       1         2       2         3       3         4       4         5       5         6       6         6       6         6       6         6       9         1       1         2       2         3       3         4       4         5       5         6       5         6       5         7       2         1       2         2       2         3       3         4       4         1       1         2       2         3       3         4       4         1       4         1       4         1       5         3       4	Materials Used	Quantity	lum		Quantity
2       3       3       9         3       9       10         4       10       10         5       11       10         6       12       20         2       2       2         3       3       4         4       4       4         5       5       5         6       6       5         6       5       5         6       3       1         2       2       2         3       3       4         4       4       4         5       5       5         6       Samples       2         3       3       4         1       2       2         3       3       4         1       2       2         3       3       4         A       4       4         Notes / Comments       4 <i>Rec'P. E.O.M. WORK PERMIT Review J34'S / H25 <sup>(Internore)</sup> Finishel Back Fillink Parcel #4 <sup>(I)</sup> Fill 6'' Remin Fol Fol Soil Belak Back Fillink Parcel #4 <sup>(I)</sup> Fill 6'' Remin Fol Fol Soil</i> Belak Back	1 BACK Fill		7		
3     9       4     10       5     11       6     12       2eliveries (material, equip, fuel)     Quantity       1     Back Fill       1     Back Fill       2     2       3     3       4     4       5     5       6     6       2     2       3     3       4     4       5     5       6     6       2     2       3     3       4     4       1     1       2     3       3     3       4     4       1     1       2     3       3     3       4     4       1     1       2     3       3     3       4     4       1     1       2     3       3     3       4     4       Notes / Comments       Rec'P. E.O. M. Work Permit Review JSA'S / Hrss "Ierrem"       FinisHel Back Fillint Parcel # 4 ~// Fill 6" Remain Foe Foe Soil       BetAar Back Fillint Partiew or Files Tow or Parcel # 5, Swelt Street.       Movel Equipment Acres Files To	2		8		
4       10         5       11         6       12         Deliveries (material equip, fuel)       Quantity         1 $Beck Fill$ 2       2         3       3         4       4         5       5         6       6         6       6         6       6         6       02te         1       1         2       2         3       3         4       4         5       5         6       6         2       2         3       3         4       1         2       2         3       3         4       4         1       1         2       2         3       3         4       4         Notes / Comments         Rec'P. E. O. M. WORK PERMIT Review JSA'S / HPS "Ierreu."         Finishel Back Fillink Parcel #4 ~ Fill 6" Remish For For Soil         Bechan Back Fillink Parcel #4 ~ Fill 6" Remish For For Soil         Bechan Back Fillink Pontion of Parcel #5, Smept Street.	3		40		
3     12       Deliveries (material, equip, fuel)     Quantity     Production     Quantity       1     Back Fill     1     1       2     2     2       3     3     4       4     4       5     5       6     6       6     5       6     6       9     Outle       1     1       2     2       3     3       4     4       5     5       6     6       Outle     Modia       1     1       2     2       3     3       4     4       1     1       2     2       3     3       4     4       4     4       2     2       3     3       4     4       4     4       4     4       4     4       5     6       6     70%       7     8       7     8       8     7       8     9       9     9       9     9       9	[4] E		110		
Source       Quantity       Production       Quantity         1 $Back Fill$ 1       1         2       2       2       2         3       3       4       4         5       5       5       5         6       5       5       5         6       5       6       5         7       9       9       Comment         0       0       0       10 #       Comment         1       1       1       1       1       1         2       2       2       2       2       2       2         3       3       3       3       3       3       3       3       3         4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       5       5       5       5 <td< td=""><td>8</td><td></td><td>12</td><td></td><td></td></td<>	8		12		
1       BACK Fill       1         2       2       2         3       3       4         4       4       4         5       5       5         6       6       6         Contract Calibration       Samples         Dovice       Model       Date         Media       1D#       Comment         1       1       1         2       2       2         3       3       4         4       4       4         Notes / Comments       3       4         Rec 'P. E.O.M. WORK PERMIT Review J34'S / HPS "Icrem.       File Stocker.         File Stock Fillink PARCE! #4 ~ I Fill 6" Remaine Fee Top Sail       Bechae Back Fillink Portion of Parce! #5, Swept Stocker.         Bechae Back Fillink Portion of Parce! #5, Swept Stocker.       Swept Stocker.         Movel Equipment Across File ST- Site Secure?       Stocker.	Deliveries (material,equip,fuel)	Quantity	Production		Quantity
2     2       3     3       4     4       5     5       6     6       6     6       6     6       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7     7       7 <td>1 BACK Fill</td> <td></td> <td>1</td> <td></td> <td></td>	1 BACK Fill		1		
3 4 4 5 6 6 6 6 7 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	2		2		
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5 6 Samples Sovice Model Date Media ID # Comment 1 2 3 4 Notes / Comments Rec'P. E. O. M. WORK PERMIT REVIEW J34'S/H25 MCREW. Finishel BACK Filling PARCEL # 4 m/ Fill 6" Remain For JoP Soil Becar BACK Filling Portion of PARCEL # 5, Swept STREET. Moved Equipment Across FILE ST- Site SecureP	4		4	and the second state and an and the second state of the second state of the	
6 Equipment Calibration Davice Model Date Media 10# Comment 1 1 1 2 2 2 1 3 3 3 4 4 4 Notes / Comments Rec'D. E. O. M. WORK PERMIT Review J34'S/H25 Mereur. Finishel Back Filling PARCEL #4 ml Fill 6" Remain For JoP Soil Belan Back Filling Parcel #4 ml Fill 6" Remain For JoP Soil Belan Back Filling Portion of Parcel #5, 5 welt street. Moved Equipment Across File ST. Site Secure	5		5		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Odvice     Model     Date     Media     ID #     Comment       1     1     1     1     1     1     1       2     2     2     2     2     2     2       3     3     4     4     4     4       Notes / Comments     4     4     4     4       Rec'P. E.O.M. WORK PERMIT Review J34'S/HPS WIEREW,     5     5     5       FinisHel Back Filling Parcel # 4 with Fill     6     6     7     7       Beback Back Filling Parcel # 4 with Fill     6     7     7     7       Movel Equipment Across File ST- Site Secure?     5     5     5     7	6		Samulas	e e a como da como como como como como como como com	
1 2 3 4 Notes / Comments Rec'P. E.O.M. WORK PERMIT REVIEW J34'S/H2S MCREM. FINISHED BACK FILLING PARCEL #4 MI FILL 6" REMAIN FOR JOP Soil Beban BACK FILLING PARCEL #4 MI FILL 6" REMAIN FOR JOP Soil Beban BACK FILLING PORTION OF PARCEL #5, 5 mePT STREET. MOVED EQUIPMENT ACROSS FILE ST. SITE SECURED	Covice M.	odel Da	te Media	1D #	Comment
2 3 4 Notes / Comments Rec'l. E.O.M. WORK PERMIT Review J34'S/HRS WEREW. FINISHED BACK FILLING PARCEL # 4 WI FILL 6" REMAIN FOR JOP Soil BELAN BACK FILLING PARCEL # 4 WI FILL 6" REMAIN FOR JOP Soil BELAN BACK FILLING PARCEL # 4 WI FILL 6" REMAIN FOR JOP Soil BELAN BACK FILLING PORTION OF PARCEL # 5, Swept STREET. MOVED EQUIPMENT ACROSS FILE ST. SITE SECURED	1		1		ara alam ng saganan na nakarapanan kanganakanan perinamanan karang manganan karang sasa sasa sagan perina dan s
A A Notes / Comments Rei D. E.O.M. WORK PERMIT REVIEW J54'S/HES "ICREM. FINISHED BACK FILLING PARCEL #4 "I FILL 6" REMAIN FOR JOP Soil BEGAN BACK FILLING PARCEL #4 "I FILL 6" REMAIN FOR JOP Soil BEGAN BACK FILLING PORTION OF PARCEL #5, 5 MEPT STREET. MOVED EQUIPMENT ACROSS FILE ST. SITE SECURED	2		2		
Notes / Comments Rec'P. E.O.M. WORK PERMIT REVIEW J34'S/HRS WEREW, FINISHED BACK FILLING PARCEL # 4 WI FILL 6" REMAIN FOR JOP Soil BELAN BACK FILLING PORTION OF PARCEL # 5, Swept STREET. MOVED EQUIPMENT ACROSS FILE ST. SITE SECURED	3 A		3		
Rec'P. E.O.M. WORK PERMIT REVIEW J34'S/HRS MCREW. FINISHED BACK FILLING PARCEL #4 MI FILL 6" REMAIN FOR FOR SOIL BEGAR BACK FILLING PORTION OF PARCEL #5, SMEPT STREET. MOVED EQUIPMENT ACROSS FILE ST. SITE SECURED	Notes / Comments		<u> </u>	L	
Finished BACK Filling PARCEL #4 w/ Fill 6" Remain For Jop Soil BebAR BACK Filling PORTion of PARCEL #5, Smept STREET. Moved Equipment Across File ST- Site Secure.	Rec'D. E.O.M. WORN	PERMIT	Review J3A	4'5/ 14 RS -1 CA	2e,
Bebar BACKFilling PORTION OF PARCEL #5, Smept STREET. Moved Equipment Across THE ST- SITE Secure:P	FIRISHED BACK Filling	- PARcel	#4 ~1 Fill	6" Rema	un For Jop Soil
MOVED EQUIPMENT ACROSS FILE ST. SITE SECURED	BELAR BACK Fillin	& PORTIO	a of PAR	cel #5,	Smept street.
	MOVED EQUIPMENT	Across	THE ST.	SITE	Securel

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Day/Date: 7-10-01 CHESS	nte Mgr: 13/1CA	m port And Signal	Mind Direction Ct.	
Day/Shift: Man Weathe	T: Cloupy Survey	75-81	Vind Direction 3 22	The Sheet?
ocumentation(CIRCLE): XOM Per	mit LOTO Safety	Briefing USA	Calibration C	me sneer
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-re start site inspection. 2	02-1 \$1e1 EV			
Coloby Equip Inspection (Extig	nguishers First Aid K	it. Respiratory, PP	E. Spill): Com	PloTed
Salety Equip hispection (Exch	iguisticis, r not r ne .			
Clean Harbors Personnel				
Bill Paus Popiara	4		7	<u> </u>
2 Rac Pack	5		8-	·
3 MATT R-DBerga	6		9	
Subcontractors			<u>I</u>	
1 PARISIO TRUCKING	3		5	
2	4		6	
Equipment / Vehicles / Units			44	
1 2- PICK-UPS	0	····	42	
2 EXCAVATOR	/		12	
3 Dozer	8		4.4	
4 BOBCAT SweePer	9		42	
5 Material Inc.	Ouentity	****	15	Quantity
A Provide Fill	1469 30 700	7		
2 13ACH FILL	10701. 10	8		
3	·····	9	······	
<u>а</u>	······	10		
κ		11		
6		12		
Deliveries (material, equip, fuel)	Quantity	Production	······································	Quantity
1 BACK FIL	1469.30 Jom	1		
2		2		
3		3		
4		4		
5		5	اسا در است. دو است.	
6		6		
Fignement Calibration	Sautal Date	Samples	1 80 8	Comment
		100901-3		
2		2		
3		3		
4		4		
Notes / Comments				
Rec'D E.O.M. W.	RK PERMIT.	Review JSA	3/1485 -10	Rew.
MOVED EQUIPMEN	T ACROSS TH	e STREET S	to parcel t	15 Rec'l.
65 LOADS OF BA	ACKFILL Con	T. BACKFIL	LING PAR	cel # 5 Swer
ROADS SeverAl T	Imes. A55.	5TED G.E.S.	~1 wees EAS	TERN WEIL PORT
SysTem,				



Day/Date: 7/17/07 CHES Site	Mgr: Bill CA	~ Poli Are Signatu	re: Ball K	$\pi$
Day/Shift: 7205 Weather:	OVERCASTP	M SHOWERS 78 W	Vind Direction Sw.	-NE O- TripH
Documentation(CIRCLE): OM Permit	D LOTO Gafety	Briefing (JSA)	Calibration (in	ne Sheet
Pre start Site Inspection: Co	mpleter			
	The second second	it Desnivetent DDI	Callly Com	Ole Tan
Safety Equip Inspection (Extingu	lishers, First Ald K	it, Respiratory, PPI		// -/ -/
Close Harbors Parsonnal				
1 B.I. CAMPOPIANO	4		7	
2 Rover Cook	5	<u></u>	8	
3 MAU RYDBERG.	6		9	
Subcontractors				
1 BFI	3		5	
2 PARISIC TRUCKING.	4		6	
Equipment / Vehicles / Units	Te		11	
1 2- Piek-ups	7		12	
2 CREAVATOR			13	*****
A R-BODT V/cure POP	<u>q</u>		14	···
5 DOD CAT TSWEEPCIC	10		15	
Materials Used	Quantity		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Quantity
1 BACKFill	\$42.42 100	47		
2		8		
3		9		
4		10		
5		11		
6		12 Draduation		Durantitu
Deliveries (material, equip, fuel)	Sur 42 man	1 Paravate	1 Sauls	671.10 Tour
2	074-5 100-	2		
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av/Date: 7-19-07 CHES Site	Mgr: Bill C	Anfolime Sign	ature: Bel	10ps
ay/Shift: THUR Weather:	RAIN OVERCA	ST 71-770	Wind Direction WS	WTO ENE 5-15MA
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TeanHarbors	Day & Date:	Site	Services Mu	ulti-Task Wor	ksheet		٦			
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ng Address: 158 Sowwill DR.		Per Diem:	(Yes) No	(Circle on	e) If	ves, how man	127. 2			
CHECKYOWAGA N.Y.		Change Or	der Initiated:	Yes / (	No (Circle	One)	<u></u>			
· · · · · · · · · · · · · · · · · · ·		/ Ta	sk # / Descri	iption	Та	sk # / Descript	tion	Tas	k # / Description	n
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BUFFALC NY		Test	- P.TS							
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w/(CPF2 or Poly Tyvek suit) PPBB3=Leval B w/(CPF3 or Sara w/(CPF4 or Barricade suit) PPEAS=Level A w/(Responder suit)	nex suit) Pl	PEC4	PPEB4		PEC3	PPEB4	PI	PEC3	PPEB4	
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SS (9/07)	IMF	PORTANT - P	AYMENT TEP	TMS ON BAC	ĸ		Date	: 3/18/	10	

Licamia		Day & Date	Tues	5-	18	-10				Job Cor	Job Complete: Yes / (Circle One)		
ENVIRONMENTAL S	ERVICES*	Sales Orde	** NY	2	32	79.					Complete: Yes / (Ma (Circle One)		
Job Description / Comments: 7	RAVEL TO 5	JE - 1	leview	11.2	-5/0	5A'S	Cer	-7	ELCA	VATION	OF Se	als e	PARCEL
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ob Location: 625 ELE	ST.			- P.T	~								
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Louph		a California da la	QLA	Tex	C Hr/Da	y Minuthy	Fiet	OL HIVD	Qu ntity	Electer	<b>A</b> H
acuum Trailer				2220	2 11419						
actor				+	-			-			
acuum Truck, Straight				+					<u> </u>	+	
ox Truck											
usco / Guzzler / Vactor (Circle O	ne)				1						
r Compressor, 175 CFM											
ackhoe Loader 1 Yd bucket											_
obcat LoaderMini Excavator											
ack Truck											
olloff Truck, Straight											
ressure Washer (PSI:	_) Hot / Cold (Circle	e One)									
eter Type:											
EXCAVATOR J.D. 1	35		1	HERTZ	wKly.						
M. C. Jar D	Scription		Quan	time the local	SIL	Ouanti	A STREET, STRE	Chief	-		CALCULATION OF THE OWNER
MARTYPE BACKFIL			19 11		TONS.			JILG	- CARHANI	10	SIZE
rum Type:											
Pettope Screened T.	of Seel		55		405						
egreaser Type:					-						
CodiDry Diesel F.	vel		40.9	60	RAIS.						
lycoated Rain Gear, 22mil											
ly Sheet, 6mil, 20ft x 100ft											
ly Bags, 6mil, per roll				_							
sorbent Pad (101 Grade) 100/bale											
sorbent Boom Each											
sorbent Boom Bale											
ct Tape/Roll											
iety Plan			-			<u> </u>					
IIOT Poly Liner			-								
and 20 Litre Poly Drum 1H2											
						<u> </u>					
Container Ma	inagement {	11-12-14 E.B.	Size		Elect	Size 9	2.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	leet	Side Side	all sold server	pot
loff / Intermodal / Frac Tank	/ Tanker (circle)	one)			and the second se						and the party
loff / Intermodal / Frac Tank	/ Tanker (circle)	one)									
CTR A A PPES 6 W 3	Task F	Task 3	Туре	Qfy Ty	Qty	Туре С	ty . Type	V. Oty	Type 🐖 🕯	Oty T TYDA	10°
f Complete Sets of PPE Used:	2	+	PPED1	2. PF	EB2	PPED1	PPEB	2	PPED1	PPEB	2
D1=Level D = (Tyvek, boots, gloves) P	PEC2=Level C w/(CPF1.2 c	r Poly Tyvek suit)	PPEC2	PP	EB3	PPEC2	PPEB	3	PPEC2	PPEB	3
B2=Level C w/(CPF3 or Saranex suit)  P B2=Level B w/(CPF2 or Poly Tyvek suit) P	PEC4=Level C w/(CPF4 or PEB3=Level B w/(CPF3 or 5	Barricade suit) Saranex suit)	PPEC3	PP	EB4	PPEC3	PPEB	4	PPEC3	PPEB	4
PRE-EVELB W/(CPF4 or Barricade suit) P	HEAS=Level A w/(Responde	er suit)	PPEC4	PP	EA5	PPEC4	PPEA	5	PPEC4	PPEA	5
tridge	ADOVE		exection and	-AND - AL	iypa	Guantity	Marcel (1952)	уре	Quanti	ry' L	Abe, v
pirator											
1											
er Gloves											
er Gloves											
athing Air Bottle											
Analytical - Analy	sis Description A 4	「「「「「「「「」」」」	# of Tests	tr. Lab	Name	# of Tests	Lab,Na	ind the star	#of.Tests	Lab Na	me o,
- WH	of Name	A Della Langer			10.0 Ac.						
HERTZ	or name 1	1919-2019-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	C	cription of S	ervice.	Descr D	ption of Sorv	46e 29 - 1	Desc	ription of Serv	ice ; bag
BASEFTI PARISO			RA	KE.11	<u>u-</u>	TAR.	1310		Tot	Soil	
	10		- iget	/	> The	Del-					
PIM	11- 11 A O		HES Ben (	Sign)	UN	1h	2	E C	ate: 5-	10-1A	
S Rep (Print) B. 11 Car	1papitro		inco nep (		SAL	11			uic. 2	1 20	

Final Construction Certification Report APPENDIX B

**Daily CAMP Summary** 

-- - -

Date	5/07		
Time	1650		Name
Wind Direction	- 4 mph	(from - to)	
Wind Speed	SW to NE	(mph)	
Upwind PID	0.0	(ppm)	
Temperature	<u>67°</u>	_ (degrees F)	
Rainfall	0	(inches)	
Barometric Pressure	30.40	(mmHg)	
Conditions	JUNNY	<u></u>	
Comments	3		

--

Date	5/8	-		$\cap$
Time	1550	-	Name	VC
Wind Direction	SU to NG	(from - to)		
Wind Speed	S	_ (mph)		
Upwind PID	0,0	(ppm)		
Temperature		(degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.21	(mmHg)		
Conditions	Sam			
Comments				

Date	59	-		
Time	1530	-	Name	R
Wind Direction	SWAD NG	_ (from - to)		
Wind Speed	5-10	(mph)		
Upwind PID	0.0	_ (ppm)		
Temperature	<u>~~~</u>	_ (degrees F)		
Rainfall	O	_ (inches)		
Barometric Pressure	30.09	(mmHg)		
Conditions	Sum	_		
Comments	×			
				· · · · · · · · · · · · · · · · · · ·

Date	5/11			
Time	16.00		Name	$\Lambda_{-}$
Wind Direction	SW & NE	(from - to)		
Wind Speed	10	(mph)		
Upwind PID	<u> </u>	(ppm)		
Temperature	593	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.09	(mmHg)		
Conditions	Sunny			
Comments	•		,	

Date	3/12/07	-		
Time	1015	-	Name	ARS
Wind Direction	NE - SW	(from - to)		
Wind Speed		(mph)		
Upwind PID	O	(ppm)		
Temperature	540	(degrees F)		
Rainfall		(inches)		
Barometric Pressure	30.23	(mmHg)		
Conditions	Good			
Comments				

ş.

Date	5/14			0
Time	1500		Name	11
Wind Direction	SW to NE	(from - to)		
Wind Speed		(mph)		
Upwind PID	0	(ppm)		
Temperature	573	(degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.36	(mmHg)		
Conditions	c burry			
Comments				

-

Date	5/11	_		$\wedge$
Time	1550	-	Name	11
Wind Direction	5W to NB	(from - to)		
Wind Speed	11	(mph)		
Upwind PID	0	(ppm)		
Temperature	50	_ (degrees F)		
Rainfall	.26	(inches)		
Barometric Pressure	29.90	(mmHg)		
Conditions				
Comments				
Date	5 17			2
---------------------	----------	---------------	------	----
Time	1445	_	Name	VL
Wind Direction	su to NG	_ (from - to)		
Wind Speed	1-5	(mph)		
Upwind PID		_ (ppm)		
Temperature	50	_ (degrees F)		
Rainfall	.02	(inches)		
Barometric Pressure	_30.30	_ (mmHg)		
Conditions	dourty	<b>_</b>		
Comments				

•

Date	5/18/07	-		$\mathcal{A}$
Time	1630	- ,	Name	10
Wind Direction	SWING/PM - NEtos	(from - to)		
Wind Speed	- 3mph	_ (mph)		
Upwind PID	0	_ (ppm)		
Temperature	580	(degrees F)		
Rainfall	30,320	(inches)		
Barometric Pressure	30.32	(mmHg)		
Conditions	Suny	-		
Comments				

Date	5/21/07	-	
Time	8:52	- Name	JU
Wind Direction	Calm	_ (from - to)	
Wind Speed	Calm	_ (mph)	
Upwind PID	0.0	_ (ppm)	
Temperature		_ (degrees F)	
Rainfall	O	_ (inches)	
Barometric Pressure	30.35"	(mmHg) = 770.89 mm Hg	
Conditions	Sur	-	
Comments	No deficience	ie noted	
	<i>V</i>		

Date	5722/07			
Time	11:20		Name	JU
Wind Direction	Variable	(from - to)		
Wind Speed	_25	(mph)		
Upwind PID	()	(ppm)		
Temperature	66°	(degrees F)		
Rainfall		(inches)		
Barometric Pressure	30.42 steam	t inection (y(mmHg)		
Conditions	Sun	· · · · · ·		
Comments	Mr deficien	cies Moted		



Date	5/25	-		2
Time	1350	-	Name	1/2
Wind Direction	Siv to NG	_ (from - to)		
Wind Speed	10-15	_ (mph)		
Upwind PID	0, 0	(ppm)		
Temperature	<u>75</u> <sup>3</sup>	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure		_ (mmHg)		
Conditions	Sunny bree	-24		
Comments		-		

Date	5/29/07			$\mathcal{A}$
Time	<u>15</u> 20		Name	V
Wind Direction	Su to NG	(from - to)		
Wind Speed	5-10	(mph)		
Upwind PID	0+0	_ (ppm)		
Temperature	77~	_ (degrees F)		
Rainfall	6	(inches)		
Barometric Pressure		(mmHg)		
Conditions	Swing	_		
Comments				

Date	5/30	-		R
Time	1600	-	Name	
Wind Direction	52 to NE	(from - to)		
Wind Speed	5-15	(mph)		
Upwind PID	Ö	(ppm)		
Temperature	750	(degrees F)		
Rainfall	0	(inches)		
Barometric Pressure		(mmHg)		
Conditions	Sirmy			
Comments				

Date .	5/31			$\mathcal{A}$
Time	1230		Name	10
Wind Direction	SW to NG	(from - to)		
Wind Speed	0-5	(mph)		
Upwind PID	0	(ppm)		
Temperature	80	(degrees F)		
Rainfall	0	(inches)		
Barometric Pressure		_ (mmHg)		
Conditions	partly c. budy	_		
Comments				

Date .	6/12/37			Λ
Time	1430	-	Name	V
Wind Direction	SW to NG	(from - to)		
Wind Speed	Timph	(mph)		
Upwind PID	0.0	_ (ppm)		
Temperature	<u> </u>	_ (degrees F)		
Rainfall		(inches)		
Barometric Pressure	30.13 ×	(mmHg)		
Conditions	Sunny			
Comments	ج. 			<u></u>

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Date	6/13/07	•		$\mathcal{A}$
Time	1345		Name	VC
Wind Direction	SW to NG	(from - to)		
Wind Speed	8 mph	(mph)		
Upwind PID	0,0	_ (ppm)		
Temperature	<u>-84°</u>	_ (degrees F)		
Rainfall		(inches)		
Barometric Pressure	30,14141	(mmHg)		
Conditions	Sanny	_		
Comments				

Date	c/11/07		Name	N
Ime				
Wind Direction	SW to NE	(from - to)		
Wind Speed	12mph	(mph)		
Upwind PID	0,0	(ppm)		
Temperature	710	(degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.24	_ (mmHg)		
Conditions	Sunny	-		
Comments	2		and an all all all and all all all all all all all all all al	

-

Date	6/2	-		$\mathcal{A}$
Time	0900	-	Name	
Wind Direction	SW to NE	(from - to)		
Wind Speed	0-5	(mph)		
Upwind PID	O	(ppm)		
Temperature	<u>70 r</u>	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.04 ->	(mmHg)		
Conditions	Sunny			
Comments				

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Date .	6/1	-		Λ
Time	1430	-	Name	
Wind Direction	SW to NG	_ (from - to)		
Wind Speed	5.10	(mph)		
Upwind PID	0	(ppm)		
Temperature	80	_ (degrees F)		
Rainfall	3	(inches)		
Barometric Pressure		(mmHg)		
Conditions	Sunny			
Comments				

Date	6/21			$\rho$
Time	1500	-	Name	16
Wind Direction	5u to NG	(from - to)		
Wind Speed	Junph	(mph)		
Upwind PID	2.0	_ (ppm)		
Temperature	69	_ (degrees F)		
Rainfall	.09	_ (inches)		
Barometric Pressure	29.55->	(mmHg)	н 	
Conditions	partly Andy			
Comments	,			

Date	6/5			$\mathcal{A}$
Time			Name	16
Wind Direction		(from - to)		
Wind Speed		(mph)		
Upwind PID		(ppm)		
Temperature		_ (degrees F)		
Rainfall		(inches)		
Barometric Pressure		(mmHg)		
Conditions		- 、		
Comments	no mete	is rainy		

Date .	6/6			$\cap$
Time	1430	-	Name	10
Wind Direction	SUD NE	(from - to)		
Wind Speed	10	(mph)		
Upwind PID	0.0	_ (ppm)		
Temperature	583	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.10	(mmHg)		
Conditions	Simy & clar	ds		
Comments				

Date	<u>(</u> )			$\mathcal{A}$
Time	1345		Name	
Wind Direction	SW to NG	(from - to)	,	
Wind Speed	7 mpli	(mph)		
Upwind PID	<del></del>	_ (ppm)		
Temperature	<u>_78°</u>	(degrees F)		
Rainfall	. 0	(inches)		
Barometric Pressure	30.00 >	_ (mmHg)		
Conditions	Sanny	- ,	7	
Comments	preters didio	record	(* 	

Date	C/8			$\Lambda$
Time	1500		Name	10
Wind Direction	suto ne	(from - to)		
Wind Speed	10 mgh	(mph)		
Upwind PID	0,0	(ppm)		
Temperature	830	(degrees F)		
Rainfall		(inches)		
Barometric Pressure	29.81 >	(mmHg)		
Conditions	hund & parth	, chay		
Comments				

Date	613	-		$\wedge$
Time	1200	-	Name	VC
Wind Direction	52 70 NG	_ (from - to)		
Wind Speed	10 mph	(mph)		
Upwind PID	0.0	(ppm)		
Temperature	86	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.14	(mmHg)		
Conditions	Sunny			
Comments			<u></u>	

.

C/15 1430 Date Time SW to NG (from - to) Wind Direction Guph (mph) Wind Speed 0.0 (ppm) Upwind PID 753 (degrees F) Temperature Ο (inches) Rainfall & 30.17 (mmHg) **Barometric Pressure** 

Sum

Conditions

Comments

Name

Date	6/18/57			Λ
Time	1500		Name	10
Wind Direction	Su to NG	(from - to)		
Wind Speed	4	(mph)		
Upwind PID	0.0	_ (ppm)		
Temperature	86	(degrees F)		
Rainfall	<u> </u>	(inches)		
Barometric Pressure	30,10	(mmHg)		
Conditions		-		
Comments				

Date .	6/20	<b>-</b> .		$\hat{\Lambda}$
Time	1000	_	Name	<u> </u>
Wind Direction	SW to NG	_ (from - to)		
Wind Speed	13mph	(mph)		
Upwind PID	010	(ppm)		
Temperature	70	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30.16	(mmHg)		
Conditions	sving			
Comments				

D

Date	6/21	-		$\mathcal{A}$
Time	1200	-	Name	V
Wind Direction	Su to NG	_ (from - to)		
Wind Speed	13mph	(mph)		
Upwind PID	0.0	(ppm)		
Temperature	72	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	29.97	(mmHg)		
Conditions	Sum			
Comments				

Date	6/22	_		Λ
Time			Name	/ <u></u>
Wind Direction	Sh to NE	(from - to)		
Wind Speed	15 mph	(mph)		
Upwind PID	0,0 `	(ppm)		
Temperature	67	(degrees F)		
Rainfall	<u> </u>	(inches)		
Barometric Pressure	30.15	(mmHg)		
Conditions	Sung			
Comments				

Date	6/25			$\mathcal{A}$
Time	1500		Name	V C
Wind Direction	Su to NG	(from - to)		
Wind Speed	Euch	(mph)		
Upwind PID		(ppm)		
Temperature	<u> </u>	_ (degrees F)		
Rainfall	0	(inches)		
Barometric Pressure	30,27	(mmHg)		
Conditions	Sunny			
Comments				

ARI

Name

Date

Time		_
Wind Direction	SW - NE	_ (from - to)
Wind Speed	10	(mph)
Upwind PID	Ø	(ppm)
Temperature		(degrees F)
Rainfall		(inches)
Barometric Pressure	30.21	(mmHg)
Conditions	Cloudy	<u>-</u>
Comments	OU-1	

5/18/10

Date

Time	OBO	-	Name	ARI
Wind Direction	SW-NE	(from - to)		
Wind Speed		(mph)		
Upwind PID	Ø	_ (ppm)		
Temperature	68	(degrees F)		
Rainfall	· · · · · · · · · · · · · · · · · · ·	(inches)		
Barometric Pressure	29.79	(mmHg)		
Conditions	Overcast, rain	ι <u>Λ</u>		
Comments	No mete	ers due to	Rin	
	0U-1			· · · · · · · · · · · · · · · · · · ·

**Final Construction Certification Report** 

**APPENDIX C** 

Waste Profile

#### New York State Department of Environmental Conservation Division of Solid & Hazardous Materials, Region 9 270 Michigan Avenue, Buffalo, New York, 14203-2999

Phone: (716) 851-7220 • FAX: (716) 851-7226 Website: www.dec.state.ny.us



May 1, 2007

Mr. David Hanson BFI Waste Systems PO Box 354 Niagara Falls, New York 14304-0354

Dear Mr. Hanson:

Exxon Mobil Oil Corporation 625 Elk Street Buffalo, New York Application #2995 Petroleum impacted soil

The Department has reviewed the above referenced application for Treatment or Disposal of an Industrial Waste Stream (Form 47-19-7). Based on the information provided, the 3,500 tons of waste represented by the waste analysis presented with the disposal application is acceptable for disposal at the Allied/BFI Niagara Falls Landfill in Niagara Falls, New York. Additional waste associated with this project will be reviewed for disposal as additional waste analysis is presented.

In the event that significant changes in the information presented on the application occur, you shall immediately notify this Department in writing. Such changes shall include, but not be limited to, changes in: process, facility name or address, waste composition and/or hauler.

Enclosed is a copy of the approved application. Should you have any questions, please call this office at 716/851-7220.

Sincerely,

Mark J. Hans, P.E. Regional Solid Materials Engineer

MJH:dcg hans\hanson-f3.ltr

Enclosure

cc: Ms. Denise D'Angelo, Environmental Chemist I

75262728

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x

47-19-7 (10/86) - Text 12 (12- heproduction)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE - BUREAU OF HAZARDOUS WASTE OPERATIONS 60 WOLF ROAD, ALBANY, NEW YORK 12233-4017

APPLICATION FOR TREATMENT OR DISPOSAL

ĺ	FORSTATEUSEUN	,¥
SITE NO. 32811	аррикатюн на 2995	DATERECEIVED
DEPARTMENT AC	TION	CATE

OF AN INDUSTRIAL WASTE STREAM SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

Allied Niegers Fells Lendfill Facility	2. COURTY Niagara County	3. SITE HUMBER 52811
4. NAME OF DWINER Allied Waste Systems	5. ADDRESS (Smart, City, State, Zin Code) SNOD Milanaran Endla Dhud, Milanaran Endla	6. TELEPHONE NO.
	New York 14304-0354	(715) 285-3344
7. NAME OF OPERATOR Alled Waste Systems	8. ADDRESS (Street, Cky, State, Zp Code) Same as Section 5 above	9. TELEPHONE NO. (718) 285-3344
10. METHOD OF TREATMENT OR DISPOSAL		
	Senitary Landell Disposal Code D90	
11. COMPANY GENERATING WAATE	12. ADDRESS OF FACULTY DEALSTATING WASTE ISTIM	City, State, Zap Code)
13. ASSARDENTATIVE OF WASTE GENERATOR	A MALING ADDRESS OF REPRESENTATIVE	<u>, HCKOSS STREET)</u> 1. TELEPHONE NO.
JOE ABEL	201 Wampanoag Trail, Riverside, 1	4011434-7356
DESCRIPTION OF PROCESS PRODUCING WASTE	He setroleum P.I. 02915	the Erron Mobil
tank farm in February 1976	at former Refinery	
17. EXPECTED ADMUAL WASTE PRODUCTION		Tan Numer Toraila
18. WASTE COMPOSITION	STATE	C DN Range
152. Avanaga Percarit Solids 100 Uouid	Skarty Studion 🕅 Solid Contained Gas	<u> </u>
a, DOMPONENTS	CONCENTRATION (Dry Weight)     Louir Louir Yolds	UNET (Church One) I WUSH PPM
Soil (Ash, CINDERS, SLAC	6) 90 99 95	
MOISTURE (ENTRAINED)	5 10 5	
DESEL FUEL	$\frac{27}{100}$	
PPE, RASTIC, GLOVES, POLYET	HYLENS O 1% 1%	
). IS AN ANALYSIS OF WASTE ATTACHED? 21. WAS A TOL	P TEST CONDUCTED ON THE WASTE? 22. MATERIAL NO D'Yes", addech Micuilia Hincervia	15: Aler Herender
DETAIL ALL HAZARD AND NUSANCE PRODUCENS ASSOCIAT	ED WITH THE WASTES, Ust reconsity safety, handlog, treatment,	and disposed precautions.
LEVEL B SAFETY EQUATION		
HAS NOT RETAINS ON PREVIOUSLY	EN OF PREMAUSIY	
NUME OF WARTE TRUNSPORTER AND ADDRESS (	Street City, State, Zip Code) ZI. HYSDEC PERMIT N	O. 28. TELEPHONE NO.
PARISO TRUCKING - 13649 Kiv	1er RD, Tona, MY 14150 9A-035	17161875-6168
L bereby affirm under penalty of perfury that information prov- belief. False statements made herein are punishable as a Cles	ridad on this form and utached alateneous and exhibits is true to the social of the Penal Low.	be best of my knowledge and
A. SHENATURE AND TITLE OF HUPRESENTATIVE OF WA	ABEL EXXON MOBIL	4/23/07
A SKONAPURE AND TITLE OF REPRESENTATIVE OF THE	EATMENT OF DISPOSAL FACILITY	OV 24/07
A COUNT IN 10000		

M					
		(WED) M/	AY 220	07 11:56/ST.11	:54/No. 5824662391
					a a nor de p
		GENERATOR WASTE PRO	ofile sh		Page i n
ALLE	RD WASTN			NV#79	90
			/ [	W	/ ~
Requ	ested Disposal Facility:	Nagara Falls Ni	1.	1 17776	2717
		an Allied Waste Company	ŀ	AWI Salas Ban: I	1917-Rollier
1.	Generator Informati	DIVISION NO. LO	57	Date	104 (21)0,0
Gene	rator Name FYYAY	mahil Oil Conom	cation		
Gano	nitor Site Address: /_7	5 Elk Street -	acyos	C Obroat	
City	Buffula	Country Erie	State:	NIY.	124 14210
State	10/Reg Nac	State Assertavil/Wester Conter		Al amplication	SIC Cater 517
Gener	rator Malino Address fil d	illemente 1001 Wawana	maga	Trail	1
City:	Riverside	Countre Providance	State	RT	Zx 02915
Ganor	ntor Contect Name: 1	oe Abel			A COLOR OF LA CALL HA
Phane	Number: 401 43	4 - 7356	Fax Nun	nber: 401 L	34 - 5962
iia. 1	'ramperter informati	şA		·	Λ
Trener	porter Nema: DARISI	TAVCKING	Contact	Nemer 747/1	
Transr	porter Address; 3449	River RO		intaq	
City:	TONAWANDA	County: Frie	State:	-11V	Zio: 14150
Phone	Number: 875-6168	Fax Number: \$75-4121	State Tr	meportation Number	F. 94-135
the star	Mine leformaties	have a second	A		
BR To:	Clean Harbo	rs Env. Services	Contact	Nome: Accou	ints Anyable
Billing	Address 42 Loy	nowater brive			
Chy N	Norwell	State: MA.	Zip: 07	-06 Phone !	amber: 7 A/ 792 50
	anto Stream Informe	8m	·		
ni. Wi			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	To let	71
Name d	Wester Soil int	lacted with Petrol.	eum t	יי עוגנוין האברי	AY 143
Name c Process	st Wester: Soil 1744 S Generating Wester: r	ected with Portrol. clease on soil fri	eum t	Luk Garm	at former
Nome C Process	stweeter Soil Intr Benerating Wester ri Inery in Febru	elease on soil fri ary 1976 of Petr	eum t em t	unk farm	at former s - Destailed
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Is this a replice Is this a replice Is this a replice I but were per VI. General I bureby certify description of I Results/Matter orilining this pa any waste whit from accepting Our company h intermetion accept	d Madical or lefections w demod at a Faderal Super- nery Cartificantions y that to the best of my l the waste contrial being al Safety Data Shorts ar rofile, neither anyell no the classified as train v by law. I shaft immedi mereby agrees to fally in nerub. I further cartify d ABEL Ex Aufrident Regresentation Aufrident Regresentation () Rejected o the Soil Impacted with	inte as defined by Fada and Custa Lip Site? conveloning used ballief a offered for disposal abovited are truthful a r any order employee rease, hancedoes was intaly give written to downify this disposal are the company bas a county for this (Prime areas for the (Prime	the infl the infl the infl of the of the of the of the is of the of the of the of the of the of the of the of the of the of the	r Sume regulations r Sume regulations income and are repr company will define income and are repr company will define income are com- regulations where ar com- regulations where ar com- ad the form or com- act Hgk. Y State Dept o vision of Solid oplication #NA	ed beerden ist a m ced bezerdes bave rescatative of the inex for disposed integration permitted agest remaining fit memt of this pro- Excern discon permitted agest remaining fit memt of this pro- discon permitted fit Environment land Hazardx 2995 on 5/1/	A, complet bee disc a water of material d material d g to the water on this can file sheet of <u>123/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u> <u>235/0</u>	N and ac Journal A Further of to delive An and p reficution is provide 2.5, ( 	B or 12 No B or 12 No B or 12 No B or 12 No B or 27 No to an interview and the second ty is provided lease in being ind by Allied 0 ( ) ( ) /// /// /// // // // // // // // // //
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No.6700 P. 1

	C SPECIAL WASTE PROFILE	Page 1 of 2 NY <sup>せ</sup> NAIDi3
Description Discourse Franklin	MARAAR IN-IRPUT	Waste Profile #
Requested Disposal Facility:	- NIAGARA LANDFILL	421510 istulia
Severable 68-in form. Realifolds printing until a	it required (yellow) fields are completed.	
I. Generator Inform	ation	Sales Rep #: OF8 / Pratt
Generator Name: EXXO	IMOBIL OIL CORPORA	TION
Generator Site Address: 6	<u>25 EUK STREET</u>	· · · · · · · · · · · · · · · · · · ·
City: BUFFALO	County: ERIE	State: N.Y. Zip: 14210
State ID/Reg No:	State Approval/Waste Code:	(if applicable) NAICS # :
Generator Mailing Address	(if different):	ANDAG TRAIL
City: RIVERSIDE	County: PROVIDENCE	State: R.T.   Zip: 02915
Generator Contact Name:	JOGNAABEL - Joseph.	a.abel@exxonmobil.com
Phone Number: 4014	54 - 7356 Ext:	Fax Number: 401 434 - 5962
a. Transporter Inform	ation	
Transporter Name: Pari	so Trucking	Contact Name: Hollywood
Transporter Address: 36	49 River Road	
City: Tonowanda	County: Erie	State: N.Y. Zip: 14150
Phone: 716875-610	8 Fax 716 875-4121	State Transportation Number: 9 A - 035
b. Billing Information	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Bill TO: Clean Harb	ms Find Services Inc.	Contact Name: Accounts Pour ble
Billing Address: 47. 60	nowater Drive	Email: Scare-rom e cleannes
City Norwell	State: MA	Zin: 02.061 Phone: 791.792-5000
I. Waste Stream Info	mation Impacted with Pet	roleum from Tank Farm
Process Generating Waste: refinery in Fel in attached a	Release on soil from bruary. 1976 of Pe nalysis from Test	n tank farm at former etroleum products-detailed America
Type of Waster		
rype or vvasie:		
mysical State:		
		) OTHER:
Method of Shipment:		
Method of Shipment: Estimated Annual Volume:	<u>725</u> -S	elect Volume Type — Tows
Method of Shipment: Estimated Annual Volume: Frequency:		elect Volume Type - To VS

It inchreachtaire daub	e ooi (metrion			
Is the representative sample co.	lected to prepare thi	is profile and laboratory an	alysis,	
collected in accordance with U.	5. EPA 4 <u>0 CFR 261.</u>	20(c) guidelines or equiva	lent rules?	
Sample Date: 4-12-2010	Type of Sample:	COMPOSITE SAMPLE	KGRAB SA	MPLE
Sample ID Numbers: NTD	1126-01	SAMPLE ID	# ou-	1 PARCEL 5

y. 6. 2010	4:11PM			No	. 6700	P. 2
<} ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽	EPUBLIC SPEC	CIAL WASTE PROFILE		NY#NI	÷10[3	Page 2 of 2
				Wa	ste Profile	e #
V. Physic	al Characteristics of	f Waste		4215	_ 10 (	6446
Characteristic	Components SEE	ATTACHED ANALYSI	2	% by Weight	(range)	
2 MOIST	KOCKS, STONE, TUBE (FNTE	CNPERS, SCHES	<u></u>	<u>70-44</u> E - 10	0/0	
3. DIES	EL FUEL	<u></u>		16901	MET	< <del>.</del>
4 <i>LEA</i> D	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		0.471	MG/L	(TCLP)
5. <b>PPE, C</b>	SLOVES, PLASTIC			0-10	10	
Color	Odor (describe)	Does waste Contain Free Liquids:	/   % Solids	;   pH:	F	lash Point
Brown	NONE	YES or 🔣 NO	100	7.4	0	7 <i>200</i> °F
Attach L	aboratory Analytical Re. Re	eport (and/or Material Safety Da equired Parameters Provided fo	ita Sheet) II o <u>r this Profil</u>	iciuding Chain le	of Custo	dy and
Does this waste Herbicides: Chl 2,4,5-TP Silvex	e or generating process cont ordane, Endrin, Heptachlor as defined in 40 CFR 261.3	tain regulated concentrations of the for (and it epoxides), Lindane, Methoxyc 33?	bliowing Pesti hlor, Toxaphe	cides and/or ene, 2,4-D, or	Yes	or 🔀 No
Does this waste ppm)[reference	e contain reactive sulfides (g 40 CFR 261.23(a)(5)]?	reater than 500 ppm) or reactive cya	nide (greater	than 250	Yes	or 📈 No
Does this waste Part 761?	contain regulated concentr	ations of Polychlorinated Biphenyls (	PCBs) as defi	ined in 40 CFR	Yes	or 🔀 No
Does this waste including RCRA	contain concentrations of li F-Listed Solvents?	isted hazardous wastes defined in 40	CFR 261.31,	261.32, 261.33,	Yes	or 🕅 No
Does this waste	exhibit a Hazardous Chara	cteristic as defined by Federal and/or	r State regula	tions?	Yes	or 🗶 No
Does this waste other dioxin as o	contain regulated concentre defined in 40 CFR 261.31?	ations of 2,3,7,8-Tetrachlorodibenzoo	lioxin (2,3,7,8	I-TCCD), or any	Yes	or 🔀No
Is this a regulate	ed Radioactive Waste as de	fined by Federal and/or State regulat	ions?		Yes	or 📕 No
is this a regulate	ed Medical or Infectious Wa	ste as defined by Federal and/or Stat	e regulations	?	Yes	or 🛛 No
Is this waste a r	eactive or heat generating v	vaste?			Yes	or 🔀 No
Does the waste	contain sulfur or sulfur by-p	roducts?			Yes	or 🗶 No
ls this waste ge	nerated at a Federal Superfi	und Clean Up Site?			Yes	or 🔀 No
ls this waste from	m a TSD facility, TSD like fa	acility or consolidator?			Yes	or 🗶 No

#### VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

EMES Project Mgs EXXONMO 6. ENVIRONMENTAL SERVICES KIA ABE Authorized Representative Name And Title (Type or Print) Company Name Authorized Representative Signature

	NU. 0/00	2		
Services, INC.	Republic Services, Inc. 18500 N. Allied Way, Phoenix, AZ 85054			
	NY # NAIDI	3		
	SPECIAL WASTE DEPARTMENT DECISION			
	Waste Profile #         Expiration Date           4215106446         4/27/2011			
. Decision Request:	✓ Initial     ✓ Recertification     ✓ Change			
Disposal Facility: 4215 - Pine Avenue La	andfil			
Senerator Name: Exxon Mobil Corporati	tion			
Senerator Site Address: 625 Elk Street				
Sity: Buffalo	County: State: NY Zip:			
Jame of Waste: Soil with deisel fuel from	m tank storage area staorage			
stimated Annual Volume: 725 Tons				
yes, which one?	ommittee? FYes FNo FNot Applicable			
	Precautions, Conditions or Limitations on Approval			
		×		
pecial Waste Analyst Signature:	Name (Printed): <u>KEITH DIA</u>	<u></u>		
pecial Waste Analyst Signature: ate: 5/6/2010 J. Facility Decision:	Name (Printed): <u>KEITH DJA</u>	<u></u> Manti		
pecial Waste Analyst Signature: ate: 5/6/2010 I. Facility Decision:	Name (Printed): <u>KEITH DIA</u> MApproved <b>F</b> Rejected Precautions, Conditions or Limitations on Approval	<u>×</u> Manti		
47-19-7 (10/ab) - 16XI 12 (E-Reproduction)		<u> </u>		
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NEW YORK STATE DEPARTMENT OF ENVIRON				
DIVISION OF SOLID AND HAZARDOUS WASTE + BUREAU O 50 WOLF ROAD, ALBANY, NEW YOF	DF HAZARDOUS WASTE OPERATIONS 32S11 RK 12233-4017	NAIDI3 05/06/10		
APPLICATION FOR TREATMEN OF AN INDUSTRIAL WAS	TE STREAM			
SEE APPLICATION INSTRUCTIONS C	DN REVERSE SIDE	//		
1. NAME OF PROJECT/FACILITY Allied Niagara Falls Landfill Facility	2. COUNTY Niagara County	3, SITE NUMBER 32S11		
4. NAME OF OWNER Allied Waste Systems	6 ADDRESS (Street, City, Stale, Zip Code) 5600 Niagara Falls Blvd., Niagara Falls, New York 14304-0354	6. TELEPHONE NO. (716) 285-3344		
7 NAME OF OPERATOR Allied Waste Systems	8. ADDRESS (Street, City, State, Zip Code) Same as Section 5 above	9. TELEPHONE NO. (716) 285-3344		
10. METHOD OF TREATMENT OR DISPOSAL	Sanitary Landfill Disposal Code D90			
11. COMPANY GENERATING WASTE EXXONMOBIL OIL CORPORATION	12. ADDRESS OF FACILITY GENERATING WASTE (Street	et, Clly, Slate, Zlp Code) ← ACROSS STREET		
13. REPRESENTATIVE OF WASTE GENERATOR	A MAILING ADDRESS OF REPRESENTATIVE	15. TELEPHONE NO. (401) 434 - 7356		
17. EXPECTED ANOTAL WAS TE PRODUCTION T25 Tons/Year Gallons/Yea	18. WASTE HAULED IN	AUMP A Other TRAILER		
19a. Average Percent Solids 100 Liquid 19. COMPONENTS 1) SOIL (ASH, CINDERS, SLAG 2) MOISTURE (ENTRAINE) 2) DIESEL FUEL 3) DIESEL FUEL 4) LEAD (TCLP)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	19c. pH Range     10     7.40       UNIT (Check One)       Cal     Wt.%       5     IM     I       5     IM     I       6     IM     I       7     IM     I       6     IM     I       7     IM     I		
$\frac{19a. Average Percent Solids}{19a. Average Percent Solids} \underline{100} \Box Liquid$ $\frac{19a. Average Percent Solids}{19a. COMPONENTS} \Box Liquid$ $\frac{19a. Average Percent Solids}{19a. COMPONENTS} \Box Liquid$ $\frac{19a. Average Percent Solids}{10a. ComPONENTS} \Box Liquid$ $\frac{19a. Average Percent Solids}{10a. ComPONENTS} \underline{10a. ComPONENTS} \Box Liquid$ $\frac{19a. Average Percent Solids}{10a. ComPONENTS} \underline{10a. ComPONENTS} \Box Liquid$ $\frac{19a. Average Percent Solids}{10a. ComPONENTS} \underline{10a. ComPONENTS} 10a. C$	AL STATE       Slury       Sludge       Solid       Contained Gas         Slury       Sludge       Solid       Contained Gas         CONCENTRATION (Dry Weight)       Lower       Typi         Q       Q       Q       Q         IO       S       Io       Io         IO       Io       Io       Io       Io         Io       Io       Io       Io       Io         Io       Io       Io       Io       Io         Io       Io       Io       Io       Io         Io       Io       Io       <	19c. pH Range       10       7.40         UNIT (Check One)         Cal       Wit%         PPM         5       IM       Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" I		
18a. Average Percent Solids       100       1100         19.       COMPONENTS         11       SOIL (ASH, CINDERS, SLAG         12       MOISTURE (ENTRAINE)         20       MOISTURE (ENTRAINE)         21       MOISTURE (ENTRAINE)         22       MOISTURE (ENTRAINE)         23       DIESEL FUEL         40       LEAD (TCLP)         20       ISANANALYSIS OF WASTE ATTACHED?         21       WASA TC         X Yes       No         23       DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         LEVEL D SAFETY EQUINAL	ALSTATE       Sluny       Sludge       Solid       Contained Gas         Sluny       Sludge       CONCENTRATION (Dry Weight)         Lower       QQ       QQ       Typic         10       5       10         10       5       1690         1690       1690       1690         0.471       C       0.471         CLP TEST CONDUCTED ON THE WASTE?       22. MATERI         No       If "Yes", altach results       Hazar         ATED WITH THE WASTES. List necessary safety, handling, treatment       Treatment	19c. pH Range       10       7.40         UNIT (Check One)         Cal Wt.% PPM         5       Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Iman		
1Ba. Average Percent Solids       100       100         1Ba. Average Percent Solids       100       100         19.       COMPONENTS         19.       SOIL (ASH, CINDERS, SLAG         10.       MOISTURE (ENTRAINE)         10.       DIESEL FUEL         10.       DIESEL FUEL         10.       LEAD (TCLP)         20.       IS AN ANALYSIS OF WASTE ATTACHED?         21.       WASATC         22.       No         23.       DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         24.       VEL D.       SAFETY EQ.         23.       DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         24.       WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?         ALLED WASTE TRANSPORTED       NIAGAR	A FALLS NLY-	19: pH Range UNIT (Check One) Cal Wit% PPM 5 M C 7 M 7 M 7 M 7 M 7 M 7 M 7 M 7 M 7 M 7 M		
1BR. Average Percent Solids       100         1BR. Average Percent Solids       100         19.       COMPONENTS         19.       SOIL (ASH, CINDERS, SLAG         19.       SOIL (ASH, CINDERS, SLAG         19.       SOIL (ASH, CINDERS, SLAG         10.       MOISTURE (ENTRAINES, SLAG         10.       DIESEL FUEL         11.       LEAD (TCLP)         10.       LEAD (TCLP)         10.       INO         11.       LEAD (TCLP)         12.       WASTE ATTACHED?         13.       DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         LEVEL D SAFETY EQU         14.       WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?         ALLIED WASTE TRANSPORTER       28. ADDRESS         PARISO TRUCKING       3649	A. STATE       Sluny       Sludge       Solid       Contained Gas         Sluny       Sludge       Concentration (Dry Weight)         Lower       QQ       QQ       Typic         IO       S       Iower       Typic         IO       S       Iower       Typic         IO       S       Iower       Typic         IO       S       Iower       Typic         IO       IO       S       Iower         IO       IO       Iower       Iower         III       IIII       Iower       Iower         IIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	19: pH Range       10       7.40         UNIT (Check One)         Cal Wit% PPM         5       I         5       I       I         6       I       I         7       I       I         6       I       I         7       I       I         6       I       I         7       I       I         7       I       I         6       I       I         7       I       I         7       I       I         7       I       I         10       I       I         11       I       I         12       I       I         14       I       I         14       I       I         15       Non-Hazardous         ent, and disposal precautions.       I         5       I       I         10       I       I         10       I       I         11       I       I         12       I       I         13       I       I <t< td=""></t<>		
1Ba. Average Percent Solids       100       ID0         1Ba. Average Percent Solids       100       Idud         19.       COMPONENTS         19.       SOIL (ASH, CINDERS, SLAG         10.       MOISTURE (ENTRAINES, SLAG         10.       DIESEL FUEL         10.       DIESEL FUEL         11.       LEAD (TCLP)         10.       IS AN ANALYSIS OF WASTE ATTACHED?         11.       LEAD (TCLP)         12.       WASA TC         13.       DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         14.       Ves         13.       DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         14.       WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?         ALLED WASTE TRANSPORTER       26. ADDRESS         PARISO TRUCKING       3649         9.       CERTIFICATION         1       hereby affirm under penalty of perjury that information pr         belieft. False statements made herein are punishable as a CI	A F AULS       N.Y.         Street, City, State, Zip Code;       R.V.F.A.         Street, City, State, Zip Code;       27. NYSDEC PERMIN         No       Its form and attached statements and exhibits is true lass A misdemeanor pursuant to Section 210.45 of the Penal Law	19: pH Range       10       7.40         UNIT (Check One)         Cal Wit % PPM         5       I       I         6       I       I       I         6       I       I       I         6       I       I       I         6       I       I       I         7       I       I       I         6       I       I       I         6       I       I       I         7       I       I       I         AL IS:         rdous         AL IS:         rdous         Non-Hazardous         ant, and disposal precautions.         T NO.       28. TELEPHONE NO,         G 15 875 -6168         to the best of my knowledge and tothe best of my knowledge and to the best of my knowled		
19a. Average Percent Solids       100       Liquid         19. COMPONENTS       COMPONENTS         19. SOIL (ASH, CINDERS, SLAG         10. MOISTURE (ENTRAINE)         11. SOIL (ASH, CINDERS, SLAG         12. MOISTURE (ENTRAINE)         13. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         14. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?         15. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIA         16. LEVEL D SAFETY EQUILIES         17. MAGAR         18. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?         19. CERTIFICATION         11. hereby affirm under penalty of perjury that information pr         19. CERTIFICATION         11. hereby affirm under penalty of perjury that information pr         10. CERTIFICATION         11. hereby affirm under penalty of perjury that information pr         19. CERTIFICATION         11. hereby affirm under penalty of perjury that information pr         10. CERTIFICATION         11. hereby affirm under penalty of PERESENTATIVE OF WARD         10. CERTIFICATION         11. hereby affirm under penalty of PERESENTATIVE OF WARD         12. SIGNATURE AND THE	A FAUS N.Y.       Studge       Solid       Contained Gas         CONCENTRATION (Dry Weight)       Upper       Lower       Typi         A Q       Q       Q       Q       Q         IO       5       I       IO       IO       IO         IO       5       I       IO       IO       IO       IO         IO       IO       5       IO       IO	19: pH Range 19: $7.40$ UNIT (Check One) UNIT (Check One) S S Wit% PPM S S Non-Hazardous ent, and disposal precautions. T NO. 28. TELEPHONE NO. (716) 875 -6(68) to the best of my knowledge and C DATE 5/4/10		

Final Construction Certification Report APPENDIX D

# Waste Manifests

**Final Construction Certification Report** 

**APPENDIX E** 

**Photo Documentation** 



Photograph 1: Parcel #4 – Facing N, 0-1', 5/9/07



Photograph 2: Parcel #4 – Facing NE, 0-1', 5/9/07



Photograph 3: Parcel #4 – Facing SE, 0-1', 5/9/07



Photograph 4: Parcel #5 – Facing NE, NE corner of excavation, 2'-3', 5/15/07



Photograph 5: Parcel #5 – Facing E, NE corner of excavation, 2'-3', 5/15/07



Photograph 6: Parcel #5 – Facing SE, NE corner of excavation, 2'-3', 5/15/07



Photograph 7: Parcel #5 – Facing NW, NW corner of excavation, 0-1', 5/15/07



Photograph 8: Parcel #5 – Facing E, central area of excavation, 0-1', 5/15/07



Photograph 9: Parcel #5 – Facing SE, central and southern areas of excavation, 0-1' and 1'-2', 5/15/07



Photograph 10: Parcel #5 – Facing NE, central area of excavation, 0-1', 5/15/07



Photograph 11: Parcel #5 – Facing SE, central area of excavation, 0-1', 5/15/07



Photograph 12: Parcel #5 – Facing N, central area of excavation, 0-1' and 2'-3', 5/15/07



Photograph 13: Parcel #5 – Facing E, eastern area of excavation, 0-1' and 2'-3', 5/15/07



Photograph 14: Parcel #5 – Facing NE, southern area of excavation, 1'-2' and 0-1', 5/15/07



Photograph 15: Parcel #5 – Facing NW, southern area of excavation, 1'-2' and 0-1', 5/15/07



Photograph 16: Parcel #5 – Facing NW,10/31/07



Photograph 17: Parcel #4 – Facing SE,10/31/07

# Final Construction Certification Report APPENDIX F

# Waste Characterization Analytical Reports

# **Final Construction Certification Report**

## **APPENDIX G**

# **Post Excavation Analytical Reports**

## **APPENDIX H**

# **Data Usability Summary Report**

# Final Construction Certification Report APPENDIX I

# **Backfill Analytical Reports**

Final Construction Certification Report

**APPENDIX J** 

# NYSDEC Approval Letters for Backfill and Topsoil and Mining Permit for Sand/Gravel Material Used in 2010

#### New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 9 270 Michigan Avenue, Buffalo, New York, 14203-2999 Phone: (716) 851-7220 • FAX: (716) 851-7226 Website: www.dec.ny.gov



June 5, 2007

Mr. Joseph A. Abel Major Projects Manager ExxonMobil Refining & Supply Company 1001 Wampanoag Trial Riverside, Rhode Island 02915

Dear Mr. Abel:

ExxonMobil Former Buffalo Terminal Site # C915201 OU-1; Topsoil and Fill

The Department has reviewed the analytical data for the proposed OU-1 fill source (LaFarge of Lockport) and topsoil stockpile (Buffalo Creek Facility) included in your May 21 and May 23, 2007 letters.

The analytical data submitted for the fill material from the LaFarge Quarry in Lockport, New York meets the project requirements.

The analytical data from the proposed source of topsoil stockpiled at the Buffalo Creek Facility located in Wales, New York indicates the material exceeds the commercial land use backfill requirement for acetone. The Department will require the topsoil stockpile to be resampled for acetone if Mobil chooses to pursue this stockpile as the topsoil source for backfilling OU-1. All other analytical parameters submitted for the topsoil stockpile met the project requirements.

Also, the Department needs written verification as to the original source of the topsoil stockpile. The letter should include an explanation of how the material was generated (i.e. clearing for a residential subdivision, etc) and certification that no known or suspected source of contamination is present in the topsoil.

Mr. Joseph A. Abel June 5, 2007 Page 2

Please submit the additional analytical data (acetone) and certification letter for the stockpiled topsoil prior to bringing the material on-site.

If you should have any questions, please contact myself at (716) 851-7220.

Sincerely,

Hanzeust nat

Chad Staniszewski, P.E. Project Manager

CS/tml

cc: Martin Doster, P.E., Regional Hazardous Waste Remediation Engineer Noelle Clarke, P.E., Roux Associates

#### New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 9 270 Michigan Avenue, Buffalo, New York, 14203-2999 Phone: (716) 851-7220 • FAX: (716) 851-7226 Website: www.dec.ny.gov



July 9, 2007

Mr. Joseph A. Abel Major Projects Manager ExxonMobil Refining & Supply Company 1001 Wampanoag Trial Riverside, Rhode Island 02915

Dear Mr. Abel:

ExxonMobil Former Buffalo Terminal Site # C915201 OU-1 Topsoil Analytical Results

The Department has reviewed the acetone sampling data and generator's certification statement attached to your June 29, 2007 letter for topsoil stockpiled at Buffalo Creek's yard in Wales Center, New York. This information was submitted in addition to the analytical data attached to your May 23, 2007 letter. This topsoil is proposed for use as the top 6-inches of fill in OU-1.

The information provided satisfies the requirements of project specification section 02250 1.04 (contained in Appendix D of the report titled 'Alternative Analysis Report/Remedial Action Work Plan for Operable Unit 1). The analytical results data indicates the material meets the imported fill requirements for commercial use property.

Sincerely,

Stanizeusk

Chad Staniszewski, P.E. Project Manager

CS/tml

cc: Martin Doster, P.E., Regional Hazardous Waste Remediation Engineer Noelle Clarke, P.E., Roux Associates CARMEN M. PARISO, INC. -TERMINAL-3649 River Road – Tonawanda, NY 14150 (716) 875-6168

June 22, 2007

Clean Harbors Environmental Services 42 Longwater Drive Norwell, MA 02061

To whom it may concern:

The topsoil material tested from Buffalo Creek yard 11800 RT 20 A in Wales Center, NY originated from the Fox Run job in Orchard Park on Rt 20. This material was stripped in April 2006 and moved in August 2006 from Orchard Park to a stockpile at Buffalo Creek's yard in Wales Center to be re-sold.

Sincerely,

Tom Beiter

# CARMEN M. PARISO, INC.

-TERMINAL-3649 River Road – Tonawanda, NY 14150 (716) 875-6168

June 22, 2007

Clean Harbors Environmental Services 42 Longwater Drive Norwell, MA 02061

To whom it may concern:

The topsoil material tested from Buffalo Creek yard 11800 RT 20 A in Wales Center, NY originated from the Fox Run job in Orchard Park on Rt 20. This material was stripped in April 2006 and moved in August 2006 from Orchard Park to a stockpile at Buffalo Creek's yard in Wales Center to be re-sold.

Sincerely,

Tom Beiter

2002/007



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Facility DEC ID 8-1844-00020

### PERMIT

#### Under the Environmental Conservation Law (ECL)

#### **Permittee and Facility Information**

Permit Issued To: SEVEN SPRINGS GRAVEL PRODUCTS 8479 SEVEN SPRINGS RD BATAVIA, NY 14020 (716) 343-4336 Facility: SEVEN SPRINGS GRAVEL PRODUCTS 8472 SEVEN SPRINGS RD BATAVIA, NY 14020

Facility Location: in STAFFORD in GENESEE COUNTY Facility Principal Reference Point: NYTM-E: 244.8 NYTM-N: 4765.6 Latitude: 43°00'00.8" Longitude: 78°07'51.1" Project Location: East of Seven Springs Road, 3,300 ft. south of Rt 33 Authorized Activity: Permit to mine unconsolidated material from a 30-acre permit term area, within a 30-acre Life of Mine. Approved operations include screening and crushing.

#### **Permit Authorizations**

Mined Land Reclamation - Under Article 23, Title 27 Permit ID 8-1844-00020/00001 (N

Renewal

(Mined Land ID 80276) Effective Date: 10/13/2006 Expiration Date: 10/12/2011

#### NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: JOHN L COLE, Deputy Regional Permit Administrator Address: NYSDEC REGION 8 HEADQUARTERS

6274 EAST AVON-LIMA RD AVON, NY 14414

Authorized Signature:

Date 10/12/2006



- 10 TO LESS THAN 100 TIMES CRITERIA (COMPOSITE SAMPLE)



# METALS

PLE)	DISTRIBUTION OF SVOCS AND METALS IN SOIL COMPARED TO PART 375 COMMERCIAL AND INDUSTRIAL CRITERIA				
)	FORMER BUFFALO TERMINAL, BUFFALO, NY				
	Prepared For:				
	EXXONMOBIL OIL CORPORATION				
		Compiled by: NC	Date: 03/08/2011	PLATE	
		Prepared by: NC	Scale: AS SHOWN		
	ROUX ASSOCIATES INC Environmental Consulting	Project Mgr: NC	Office: NY	1	
	& Management	File No:MC5242401.WOR	Project: 0172.0052Y014		