UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
290 BROADWAY
NEW YORK, NY 10007

REMEDIAL ACTION REPORT

CLAREMONT POLYCHEMICAL SUPERFUND SITE,
OLD BETHPAGE
PROCESS BUILDING REMEDIATION

OLD BETHPAGE,
NASSAU COUNTY
NEW YORK

Date 9/30/14

Doug Garbarini, Chief
New York Remediation Branch
Emergency and Remedial Response Division

GENERATED BY: U.S. EPA Region 2
Emergency and Remedial Response Division
New York Remedial & Removal Action Branches
September 2014

TABLES:

PHOTO DOCUMENTATION:

ATTACHMENTS:

Remedial Action Report

Claremont Polychemical Corporation Superfund Site
Old Bethpage
Nassau County, New York

September 2014

I. Background

This document presents the Remedial Action Report (RAR) for the Claremont Polychemical Corporation (CPC) Superfund Site (the Site) in Old Bethpage, Bethpage, Nassau County, New York. This report has been generated in accordance with EPA's *Close Out Procedures for National Priorities List Sites*, Office of Solid Waste and Emergency Response (OSWER) Directive 9320.2-22, dated May 2011 and "*Remedial Action Report Documentation for Operable Unit Completion*" dated June 1992.

This RAR details the remedy that addresses contaminated soil under the former CPC process building (Process Building) by using a soil vapor extraction (SVE) system to remove volatile organic compounds (VOCs); and for the excavation of limited tetrachloroethylene (PCE) contaminated soil due to the SVE system reaching asymptotic levels, and the deteriorating condition of the on-site structures impacting safe continuation of the SVE operations.

This document is based on the remedial construction completed at the Site by the EPA Region 2 Removal Program, Removal Action Branch (RAB) and its Emergency & Rapid Response Services (ERRS) contractor, pursuant to the final remedial design (RD) for the Site, approved by EPA and the New York State Department of Environmental Conservation (NYSDEC).

Based upon field observations associated with EPA's construction of the remedy and the results of EPA and NYSDEC inspections of the site,[1] EPA has determined that the remedy has been constructed in accordance with the September 1990 Record of Decision (1990 ROD) and the April 2003 Explanation of Significant Differences (ESD), as well as the design plans and specifications.

Site Description

The Site includes the Claremont Polychemical Property (CPC Property) which is approximately 10 acres of land located in an industrial section of Old Bethpage in Nassau County, New York (see Figure 1). The former CPC Process Building, a vacant 40,000 square-foot one-story building, was located in the center of the CPC Property. Another one-story building east of the Process Building was constructed by EPA in February 2000, to house the Claremont on-property groundwater

[1] On July 2003, the soil vapor extraction (SVE) system was inspected.

extraction and treatment system.

In addition, there were five concrete- lined pits that comprised the wastewater treatment management system for the former facility, west of the former Process Building. A 20,000 yd^3 debris pile also existed on the northeast corner of the property. The debris pile consisted primarily of construction/demolition material, with a lesser volume of woodchips.

Site History

CPC produced pigments for the coloring of plastics and inks, coated metallic flakes, and vinyl stabilizers from August 1966 through October 1980. The principal wastes generated were organic solvents (primarily volatile organic compounds such as PCE, resins, and wash wastes (mineral spirits).

Operations at the Site resulted in the contamination of soil and groundwater, as well as contamination of the interior of the PB. In 1979, an inspection by the Nassau County Health Department revealed numerous tanks and approximately 3,000 drums, many of which contained hazardous substances and were leaking. Contaminated soils also were observed.
The Site was proposed for inclusion on the National Priorities List (NPL) in October 1984 and was added to the NPL in June 1986.

EPA conducted a Remedial Investigation at the Site which resulted in the selection of several distinct remedial actions. These remedial actions have been documented in two RODs. The first ROD, signed on September 22, 1989, called for compatibility testing, bulking/consolidation and treatment/disposal of deteriorated containers, treatment basins, and aboveground tanks. This remedial action was completed in 1990. The second ROD was signed in September 1990. The remedies in this ROD included: removal of underground storage tanks; treatment of PCE-contaminated soils by using low-temperature enhanced volatilization; extraction and treatment of the CPC on-property contaminated groundwater via an on-site air stripping/carbon adsorption system; extraction and treatment of the contaminated groundwater migrating beyond the CPC Property via an on-Site air stripping/carbon adsorption system; and decontamination of the metals-contaminated Process Building (PB).

The removal of the underground storage tanks was completed in August 1991. The design work and remedial actions involving the PCE-contaminated soils and the PB decontamination, and the construction of the groundwater treatment facility for the contaminated groundwater on the Claremont property were completed by the U.S. Army Corps of Engineers, pursuant to an interagency agreement with the EPA. Currently, the groundwater extraction and treatment system on the CPC Property is treating 420 gallons per minute of contaminated groundwater. The contaminated groundwater beyond the CPC Property boundary is being captured and treated by the Old Bethpage Landfill (OBL) Superfund Site treatment facility.[2]

---

[2] On September 29, 2000, EPA issued an Explanation of Significant Differences (ESD), which modified the selected remedy for the CPC off-property groundwater to use the OBL Site treatment facility in lieu of constructing a new treatment system to remediate the CPC off-property groundwater. The OBL Superfund Site groundwater treatment system is operated by the Town of Oyster Bay.

Site Investigations

In October 2000, after removing debris and decontaminating the interior of the former Process Building, EPA and the U.S. Army Corps of Engineers (USACE) discovered a pit, approximately 20 inches in diameter and two feet deep in the floor. The pit was sampled and found to be contaminated with volatile organic compounds and cadmium. Three sampling events were conducted to characterize the soil contamination around the pit and under the Process Building. The results of this investigation are summarized in the CPC, Investigation Summary Report: Delineation of Subsurface Contamination of Former Process Building, dated January 2003.

Analysis of soil samples taken at various depths through the floor around the pit revealed the presence of VOC and cadmium contamination across an area of approximately 100 feet by 80 feet to a depth of 20 feet, and a smaller area located to the south. The VOCs include PCE, trichloroethene (TCE), toluene and xylene. The highest contaminant concentrations were generally found just below the base of the pit in the concrete floor. For example, at soil boring location SB-11, in the 0-4 foot interval, PCE was detected at 300 parts per million (ppm), toluene at 16 ppm, TCE at 150 ppm, xylene at 190 ppm, and cadmium at 2,500 ppm. In the 4-8 foot interval, PCE was detected at 160 ppm, toluene at 57 ppm, TCE at 8.9 ppm, xylene at 40 ppm, and cadmium at 224 ppm.

As a result of this investigation, the EPA New York Remedial Branch (EPA-NYRB) requested the EPA Removal Action Branch (EPA-RAB) to further delineate the contamination and perform a pilot study to evaluate if soil vapor extraction (SVE) technology would be applicable to address the remaining VOC contamination utilizing the EPA Trailer Mounted SVE System. The availability of this system and other factors made the piloting of this system particularly cost-effective.

In January 2003, as a result of this EPA field investigation, RAB-Removal Support Team (RST) prepared an "Investigation Summary Report", which summarized the findings of a soil-gas survey (May 2002), soil boring sampling event, and the installation of 16 SVE extraction/monitoring wells (August 2002). The sampling locations were selected based upon the US ACE Technical Report which had identified areas of elevated concentrations of PCE, TCE, xylene, and toluene.

Results of the May 2002, soil-gas investigation conducted by EPA beneath the PB, where ten soil gas samples were collected from the shallow subsurface (< 5 feet), indicated the highest concentrations detected were PCE at 550,000 micrograms per cubic meter (ug/m^3), TCE at 620,000 ug/m^3, toluene at 22,000 ug/m^3, and xylene at 5,300 ug/m^3. Prior to conducting the soil gas sampling, EPA screened the soil vapors below the concrete slab for VOCs with a calibrated photo-ionization detector, equipped with a combustible gas indicator. The readings in the combustible gas indicator revealed levels as high as 16% of the lower explosive limit, approaching a potential explosive hazard. The rooms within the former process building were open to the outside environment with access doors, roof vents, holes in portions of the roof, and missing windows. The condition of the building had prevented gas buildup within the building, as well as prevented EPA

from collecting meaningful indoor air samples.

Between August 20 and 28, 2002, EPA conducted a soil boring sampling event to further delineate the vertical and horizontal extent of VOC and cadmium contamination. Results indicated PCE with concentrations ranging from 2,200 - 310,000 micrograms per kilogram (µg/kg) in numerous locations throughout the PB.

In general, this investigation confirmed the earlier USACE sampling event and indicated more widespread building contamination. With completion of the soil boring sampling event, 16 SVE extraction/monitoring wells were installed corresponding to the VOC elevated soil boring locations to support the pilot study for SVE technology.

Field operations for the SVE Pilot began with the mobilization of the U.S. EPA trailer mounted SVE System and off-gas treatment (two 2,000-pound vapor phase granular activated carbon vessels) to the CPC Site in August 2002. Operation tests were initiated the week of September 16, 2002, with the completion of electrical connections, piping of influent and effluent lines, calibration of monitoring instruments, PLC testing, and field training in the system's operation. Field training was completed followed by initiation and full time operation of the SVE system pilot the week of September 26, 2002.

During this approximately 6 week pilot, VOC extraction operated at all 16 extraction/monitoring wells with an average air flow of approximately 200 cubic feet per minute (CFM) from each extraction well. This is well above the predicted design flow of 40 CFM. The total wells air flow exceeded 1,000 CFM with VOC air concentrations averaging between 100 and 197 ppm total VOCs. Later in the study, due to heavy rains, excessive liquids were recovered from the knockout tank which automatically shut down the SVE system when full. During this testing period, the knockout tank reached full water storage capacity within a two hour period of system restart. Based upon these conditions it was decided to shut down the SVE system to evaluate and summarize SVE Pilot operations to-date. Based upon the testing period, it was estimated that approximately 1,115 pounds of total VOCs were removed.

Based upon the SVE Pilot Study results, it was determined that SVE Extraction technology was a viable and cost-effective method to remediate all areas under the former Process Building and reduce VOCs concentrations to protective health-based levels.

In April 2003, EPA issued a second ESD to document further modifications to the 1990 ROD. This ESD included actions to treat the VOCs in the soil under the former Process Building by operating an SVE system and maintaining the integrity of the Process Building's floor over time to prevent direct human exposure to cadmium-contaminated soil. The later action was to be accomplished by establishing institutional controls to ensure that the Process Building's concrete floor remained undisturbed, and future uses of the Property were to be limited to commercial/light industrial uses. In addition, the ESD also required the removal of approximately 20,000 cubic yards of industrial/ commercial demolition and construction debris located on the northern portion of the property and the decommissioning of five concrete-lined pits, which CPC used as wastewater treatment basins.

As required by the April 2003 ESD, the removal of construction debris and decommissioning of treatment basins were completed in September 2003 by Science Applications International Corporation (SAIC) under a contract with the USACE.

There was an area approximately 300 feet by 300 feet located north of the groundwater treatment facility (GWTF) covered with multiple piles of various soils and debris, consisting primarily of concrete and related construction and demolition waste. The debris pile was overgrown with brush and small trees. The EPA considered these materials to represent incidental debris and not of Site origin. The primary objective of this debris removal project was to remove or process these materials for improvement of this portion of the Site.

SAIC completed 19 test pits and collected samples to characterize the debris pile. Based on the sampling results, one 50 by 50 foot area was designated as containing asbestos. The asbestos concentrations were below regulatory levels and did not require special disposal. Appropriate measures to protect worker health and safety were taken when debris removal activities occurred in this area.

One test pit, located in the northeast corner of the pile, contained a cadmium concentration in exceedance of the EPA toxicity characteristic criteria limit. Additional sampling delineated an area of hazardous waste approximately 36 feet north to south and 24 feet west to east. A total of 454 tons of hazardous soil and 128 tons of hazardous debris were removed from this area, transported off-site, and stabilized or microencapsulated prior to placement in a secure hazardous waste landfill cell. Non-hazardous materials recovered from the debris pile were segregated into three categories: (1) concrete greater than six inches, (2) debris greater than six inches, and (3) fines (all material less than six inches). Segregated materials were either directly loaded into roll offs or stockpiled. A total of 423 tons of debris including trees, wood, and construction and demolition debris, were removed from the site for recycling or disposal. A total of 6,992 tons of concrete and 152 tons of steel were recycled. Thirty tons of municipal waste were disposed of, and tires and auto batteries were recycled. A total of 19,303 cubic yards of fines were returned to the location of the former debris pile. All disturbed areas were graded, covered with topsoil, and vegetated.

In addition, SAIC sampled and closed the storm water pits located to the west of the Claremont Process Building to protect humans and animals from potential physical hazards associated with these structures. After sampling, the water in the storm water pits was pumped to and treated by the GWTF. Most of the sediments in the bottom of the pits were placed in 55-gallon drums and are currently being processed for off-site disposal. Portland cement was mixed with the remaining sediment in the pits for physical and chemical stabilization. The sides of the pits were broken down to below grade, and then the pits were filled with clean fill. In addition, obsolete wells were evaluated and properly plugged and abandoned to eliminate any potential risk to the subsurface aquifer posed by connection through these wells to the ground surface. Pre-final and final inspections were conducted by EPA and USACE representatives. All construction activities were completed on September 15, 2003.

A *December 2003 Debris Removal Completion Report Claremont Polychemical Superfund Site Old Bethpage, NY prepared by SAIC* describes all activities associated with the debris pile removal, storm pits closure, and obsolete well evaluation and abandonment.

Record of Decision

In April 2003, an ESD was approved describing changes to the remedies described in the September 1990 ROD for the Claremont Polychemical Corporation Superfund Site.

The major components of the ESD included the following:

- To address contaminated soil under the former CPC process building (Process Building) by using a soil vapor extraction (SVE) system to remove volatile organic compounds (VOCs), limit exposure to soil contaminated with cadmium and require that the integrity of the Process Building floor be maintained over time. Table 1, below lists the soil cleanup goals for the contaminants in the soil under the Process Building.

- Require deed restrictions and establish institutional controls to ensure that the Process Building's concrete floor remains undisturbed and an acceptable barrier to the cadmium-contaminated soil beneath. The institutional controls also will restrict the use of the CPC Property to commercial/light industrial uses. Periodic review of the institutional controls will be required.

- Approximately 20,000 cubic yards (yd^3) of industrial/ commercial demolition and construction debris located on the northern portion of the property will be removed.

- Five concrete-lined pits, which served as former wastewater treatment basins, will be decommissioned.

The effectiveness of the SVE system has been determined based upon the results of a pilot study completed September 2002. Should operational data indicate that SVE will not address all of the contaminated soils, then those soils would be excavated and treated/disposed off-Site as a contingency remedy.

Institutional Controls

On October 31, 2007, Environmental Protection Easements and a Declaration of Covenants and Restrictions were filed with the Nassau County Clerk's office covering the CPC Property. Two easements were filed because the CPC Property is composed of more than one parcel of property. The Easements and Declaration of Covenants and Restrictions limit the use of the CPC Property to light industrial or commercial purposes, grant the EPA a permanent easement and covenant to provide a right of access over the property for purposes of implementing, monitoring and facilitating the response action, prohibits the residential use of this property as long as hazardous substances remain on the property, restricts the extraction consumption, exposure, and use of the groundwater (except as approved by EPA); prohibits the installation of groundwater wells (except as approved by EPA), prohibits the disturbance of the concrete slab underneath the former Process Building and requires its integrity to be maintained; requires EPA's prior written approval before cadmium-contaminated soil underneath the Process Building can be removed; prohibits interference with or disturbance of the operation of the groundwater treatment system; prohibits the occupation

of buildings on the CPC Property without vapor sampling and mitigation, if necessary; and provide EPA with a right of access to the CPC Property to inspect, sample, and monitor the groundwater treatment system, install additional equipment, wells and piping, and inspect the CPC Property for other enumerated reasons. These items complete the institutional controls requirement of the April 2003 ESD.

Remedial Action Objectives

Remedial action objectives (RAOs) are specific goals to protect human health and the environment. These objectives are based on available information and standards, such as applicable or relevant and appropriate requirements (ARARs), TBC guidance, and site-specific risk-based levels.

The following RAOs were established for the contaminated soil beneath the Process Building at the CPC Site:

- Minimize or eliminate VOC migration from contaminated soils to the groundwater;
- Minimize or eliminate any contaminant migration from contaminated soils to indoor air; and
- Reduce or eliminate any direct contact or inhalation threat associated with cadmium and VOC contaminated soils and any inhalation threat associated with soil vapor.

Table 1, below lists the soil cleanup goals for the contaminants in the soil under the Process Building.

Table 1 - Soil Cleanup Goals for Contaminants in the Soil Under the Process Building

Contaminants	Cleanup Goals (mg/kg)	TAGM Values (mg/kg)
Acetonitrile	42.0	0.1
Methylene Chloride	9.1	0.1
t-1,2-Dichloroethene	6.9	0.3
c-1,2-Dichloroethene	4.3	0.3
Trichloroethene (TCE)	0.053	0.7
Tetrachloroethene (PCE)	1.5	1.4

SVE Technology

SVE technology is commonly used for the in-situ removal of VOCs from soil. VOCs are extracted from pore spaces within the vadose zone, effectively reducing the mass and mobility of

contamination. The vadose zone is the subsurface soil zone located between the land surface and the top of the water table. A vacuum is applied to the contaminated soil matrix through extraction wells which creates a negative pressure gradient that causes movement of vapors toward these wells. Volatile constituents in the vapor phase are readily removed from the subsurface through the extraction wells. The extracted vapors are then treated, as necessary, and discharged to the atmosphere. For the Site, soil gas from the extraction wells is treated in vapor phase granular activated carbon (VPGAC) vessels prior to its release to the atmosphere. The extracted contaminants are essentially captured by the activated carbon prior to discharge of the airstream to the atmosphere. SVE technology is particularly suited to the treatment of VOC-contaminated soil because of the high affinity of VOCs to diffuse into the underground air stream.

II. Construction Activities

EPA-RAB's ERRS contractor, constructed an SVE system at the Claremont Polychemical Site. As part of the 500 cubic feet per minute system, 36 SVE extraction/monitoring wells were installed (see Figure 3).

On September 26, 2003, the SVE system was inspected. Inspection participants included:

Maria Jon, EPA RPM
Lou DiGuardia, EPA OSC
Jeff Catanzarita, EPA Environmental Response Team
Payson Long, NYSDEC

Based upon the joint EPA/NYSDEC inspections, the SVE system was found to be operational and functional.

As required by the April 2003 ESD, the removal of construction debris and decommissioning of treatment basins were completed in September 2003 by SAIC under a contract with the USACE.

The SVE system at CPC was operated at an average extraction rate of approximately 1000 CFM (initial operations) and approximately 600 CFM (later blower replacement) from thirty-six (36) extraction wells located throughout the former process building (see Figure 2). The SVE system operated from September 2002 (pilot) until September 2006, when the condition of the building deteriorated to such an extent that that it was no longer safe to operate and maintain the SVE system.

The SVE system was close to 90 percent operational with the exception of system shutdown periods and select well closures in areas due to safety concerns from building deterioration. The system was in continual 24/hour, 7 day operation, as designed and the results of SVE field operations indicated that air flow rates, contaminant concentration levels, and the radius of influence of the SVE extraction wells continued to support full-scale SVE operations until its shutdown.

Site monitoring and field testing had indicated a steady reduction of combined (all extraction wells) influent vapor concentrations from a high of 6,183 parts per billion by volume (ppbv) or 41,920

µg/m³ in July 2005, with all 36 wells open for extraction (ERT/REAC July 2005) to 1,600 ppbv or 236 µg/m³ in July 2006, with focused extraction of recalcitrant wells (ERRS July 2006).

This data indicated a steady decline of influent vapor concentrations (approaching asymptote conditions) from soils contaminated with VOCs, (specifically PCE and TCE) from the initiation of pilot operations in September 2002 (pilot) until shutdown in September 2006. At that time the condition of the building deteriorated to such an extent that it was no longer safe to operate and maintain the SVE system.

Prior to SVE shutdown, EPA had performed focused extraction of recalcitrant areas with the shut-down of non-productive recovery wells in conjunction with rebound testing of recovery wells during periods of extended site maintenance, in order to further evaluate VOC concentration recovery and SVE closure. Based upon this information, it was concluded that SVE operations were approaching closure and soil sampling was recommended to be performed to evaluate if ROD Cleanup goals were achieved. However, due to the rapid deteriorating condition of the building, entry for sampling was prohibited due to safety concerns. At the period of SVE shutdown, it was estimated that conservatively, approximately 4,025 pounds of total VOCs were recovered**.** It is estimated that approximately 20,000 cubic yards of soil was treated by the SVE system.

In general, SVE operations were successful in treating the majority of the extensive contamination found under the 35,000 ft^2 facility footprint and beyond. This can be supported by the reduction of groundwater concentrations at the down gradient monitoring well SW-1 (60 ft. depth), which showed a substantial reduction in groundwater concentration from 7,100 ppb for PCE in January 2001 (before SVE startup), to 23 ppb for PCE in April 2012 (Source: NYSDEC Remedial Optimization Report, August 2012).

In March 2007, to support the proposed sale of the Claremont property, 96 soil samples were collected from 15 boring locations around the outside of the PB by EPA. Of the 96 soil samples taken, the only concentration above ESD cleanup goal was 2.4 ppm for PCE @ 2 ft., located between SVE-04 and 03, just outside the building footprint.

On September 28, 2007, Old Beth II, LLC became the new owner of the Claremont Polychemical property, with the obligations required under a sale agreement to make the building safe for entry and/or perform demolition work. This work was necessary for the EPA to complete its remediation efforts at the Site under the building slab.

With the completion of sale in September 2007, the purchaser evaluated options with the structure (i.e., repair vs demolition) and decided to demolish the structure. In May 2008, the purchaser pursued a demolition permit through the Nassau County Department of Public Works which included a list of requirements prior to demolition approval. This included asbestos assessment / abatement and closure of all site related utilities, i.e., gas, electric, and drainage systems. At that time, NCDH performed a site walk and investigation as to the on-site drainage systems present which included system(s) identification, sampling, and dye testing. Results of this investigation were forwarded to EPA in an August 2008 correspondence from the NCDH which identified two sanitary systems: a south system which included one (1) Sanitary Septic Tank and one (1) Sanitary Leaching Pool located at the south end of the building adjacent to the former loading dock. A north

system which included one (1) Sanitary Septic Tank and two (2) Sanitary Leaching Pools connected in series which is located on the northwest side of the building.

In an effort to expedite the building closure and eventual demolition, EPA performed closure of these sanitary systems to NCDH requirements. On June 1, 2010, EPA received from NCDH, written approval of closure for all drainage systems. This approval letter was forwarded to the owner's representative to continue building closure for demolition.

In July 2010, EPA performed a structural evaluation of the PB, to evaluate if any areas of the building were safe enough for sampling. The report, completed August 20, 2010, indicated that the eastern portion of the PB, under proper engineering control, was safe to perform sampling. Western areas of the PB were unsafe for entry and/or sampling.

In December 2010, EPA sampled for VOCs and cadmium in the eastern portions of the PB which were found to be structurally sound. Soil sampling was conducted at 10 locations in this eastern portion of the PB. The sampling points coincided with past elevated sampling locations in order to evaluate cleanup levels. The results of this December 2010 sampling event indicated soil concentrations above soil cleanup goals for PCE correlating with the following SVE extraction well locations: SVE-03 @ depth 14 – 15 ft.; SVE-02 @ depth 2 – 3 ft.; SVE-11 @ depth 0 – 1 ft.; and SVE-04 @ depth 1 – 16 ft. No other soil cleanup goal contaminants were exceeded (see Table 2 and Figure 3).

In March 2013, the 35,000-square foot one-story PB structure was demolished by the owner, however the concrete floor of the PB remained intact and undisturbed as an institutional control required by the ESD to prevent exposure to cadmium-contaminated soil.

In May 2013, with the completion of the building demolition to grade, EPA with concurrence from the NYSDEC, sampled for VOCs and cadmium at 15 soil boring locations to an average depth of 20 ft., in the western portion of the PB. One boring was completed in the western portion of the southern receiving area to a total depth of 50 ft., due to slightly elevated readings found in a shallow monitoring well, SW-1 (PCE = 23 ppb), which is located down gradient of this location.

In May 2013, EPA Environmental Response Team/Scientific, Engineering, Response and Analytical Services (ERT/SERAS) completed soil sampling at these 15 locations (ERT-1 through ERT-15) in the western portion of the PB. Six soil samples were collected at each of ERT-1 through ERT-14, and 10 soil samples were collected at ERT-15. The results indicated that the ESD cleanup goals were exceeded at ERT-6 (near SVE-13), at a depth of 6.5-7.0 ft. for PCE (270 mg/kg), and for TCE (19 mg/kg); and ERT-15 (near SVE-20), at a depth 1.0 - 1.5 ft. for TCE (.056 mg/kg). No other soil cleanup goal contaminants were exceeded.

In general, based upon the sampling performed, the total volume of soil that was still above the soil cleanup goals for the Site (specifically PCE and TCE), is estimated to be approximately 1,400 cubic yards of soil from the eastern portion of the PB slab and approximately 100 cubic yards of material from the western PB slab, for a total volume of approximately 1,500 cubic yards or 2,300 tons.

Following these sampling events and in discussions with NYSDEC, it became apparent that the

SVE system had reached a plateau (asymptote conditions) and would no longer be effective in extracting VOCs from the soil. Also, the site owner had leased the property to a tenant which was operating a large-scale landscaping operation at the Site, further impacting implementation of SVE operations.

In March 2014, in order to address the remaining areas of soil above the site cleanup goals, EPA prepared a report entitled *"Sampling Summary Report", Technical Memorandum, Claremont Polychemical Corporation Superfund Site,* which proposed addressing the remaining limited contaminated soil with excavation and off-site disposal at a CERCLA approved facility.

PRE-SOIL EXCAVATION ACTIVITIES

On Monday, August 18, 2014, ERRS personnel mobilized to the site in preparation for site activities. An administration trailer with generator for power was connected. A site safety meeting was completed.

From August 19 - 25, 2014, heavy equipment (excavator and front loader), was delivered on-site. A port-a-john and 20-yard general waste dumpster were also delivered.

Temporary fencing was delivered and installed to define all operational and exclusion areas. A site safety meeting was completed.

ER personnel began breakup of the former building slab in preparation for excavation activities. Portions of the former building slab were found to be thicker slowing concrete removal operations. The concrete was stockpiled for further crushing and re-use with the completion of excavation of contaminated soil. Began stockpiling of certified clean fill began.

On Tuesday, August 26, 2014, the EPA-OSC designated the areas and depth of excavation, based upon soil exceedances for PCE and TCE (no other soil cleanup goal contaminant was exceeded), correlating with the former SVE well locations:

Area A: Dimensions 65 ft. x 40 ft., containing former SVE-03 @ depth 14 – 15 ft.; SVE-04 @ 15 – 16 ft. and SVE-02 @ depth 2 – 3 ft.

Area B: Dimensions 26 ft. x 10.5 ft., containing former SVE-13 @ depth 6.5 – 7 ft.

Area C: Dimensions 11 ft. x 10 ft., containing former SVE-20 @ depth 1.0 – 1.5 ft.

Area D: Dimensions 10 ft. x 10 ft., containing former SVE-11 @ depth 1.0 ft.

These areas were delineated by previous soil sampling events (see Section 4.0), which defined the remaining areas and depth for excavation, where concentrations in soil were above the ESD cleanup goals (see Table 2, and Figure 2, SVE System and Extraction Well Map, CPC Site).

The EPA OSC verified and marked out the locations to excavate.

TABLE 2 - Claremont –Soil Cleanup Exceedances

Contaminant **mg/kg or ppm**	**NYSDEC Remedial Program Soil Cleanup Objectives for Commercial Facilities**	**NYSDEC Remedial Program Soil Restricted Residential Cleanup Objectives 375-6.8b**	**Record of Decision (ROD) Cleanup Goals**	*Area A** SVE-3 14'-15' Depth	*Area A** SVE-4 1'-2' Depth	*Area A** SVE-4 8'-9' Depth	*Area A** SVE-4 15'-16' Depth	*Area A** SVE-2 2'– 3' Depth	*Area B** SVE-13 6.5'-7.0' Depth	*Area C** SVE-20 1'-1.5' Depth	*Area D** SVE-11 0 – 1' Depth
PCE	150	**19**	**1.5**	**19**	**94**	**11**	**46**	2.4	**270**	**<5**	2.2
TCE	200	**21**	**0.053**	**4.3**	**.32**	< 5	**0.47**	.039	**19**	**.056**	.0064

*Denotes designated excavation area. Yellow highlighted areas denote exceedances.

EXCAVATION OPERATIONS

August 26, 2014

On August 26, 2014, excavation operations began in *Area A*, the largest area correlating with former SVE-03; SVE-04; and SVE-02. The total horizontal dimension of this area is approximately 65 ft. x 40 ft.

Excavation operations started north and east of former SVE-04 and continued in the southern direction toward former SVE-3 (see Figure 2 & 3). Head space monitoring (field screening) was performed during excavation operations at various depths with a photoionization detector (PID), where soil samples were placed in a jar and heated for approximately 20 minutes.

Maximum excavation depth was estimated from previous sampling events performed to be approximately 16 ft. depth. Excavated operations continued to an approximate 18 foot maximum depth in this area based upon field screening results, where PID readings on the excavation area boundaries (depth and sidewalls) approached zero.

At this point, post-excavation Encore samples, base and side wall, were taken to confirm reaching of cleanup goals. Upon sampling completion, the lower and side boundary of this excavation area was marked and temporarily backfilled to safe levels (5 feet) in order to prevent the side wall from collapsing.

Encore sample numbers for this area were designated, CL-PESOIL-B-01 and CL-PESOIL-B-03 for base samples and CL-PESOIL-W-01 and CL-PESOIL-W-03 for sidewall samples (see Figure 3).

The east, middle sidewall area (designated 02, was not sampled due to continued elevated PID

readings at approximately 3 - 5 foot depth (no elevated screening readings from below 5 feet).

The former building footing, along the eastern wall required removal in order to continue excavation operations toward the east. A larger excavator was required and ordered for this removal to be completed safely.

Operations were completed for the day.

August 27, 2014

On August 27, 2014, excavation operations continued in the center of *Area A*, to the westerly direction toward SVE-5 and SVE-2, to an approximately 5 foot depth, where headspace analysis indicated levels approaching zero. Maximum excavation depth was estimated from previous sampling events to be approximately 3 ft. depth.

At this point, post-excavation Encore samples, base and side wall, were taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals.

Encore sample numbers for this center area were designated, CL-PESOIL-B-04 through CL-PESOIL-B-06 for base samples and CL-PESOIL-W-04 and CL-PESOIL-W-06 for sidewall samples (see Figure 3).

Samples were shipped to the ERT-SERAS laboratory for 24-hour turnaround analysis.

Operations were completed for the day.

August 28, 2014

Site operations awaiting data results, the majority of site operations were in delivering and stockpiling clean fill.

On late August 28, 2014, analysis received from the ERT-SERAS laboratory confirmed levels in *Area A*, the eastern portion of the excavation area surrounding former SVE-4 and SVE-3, to be below the site cleanup goals. The middle sidewall area between SVE-4 and SVE-3 (designated 02), would need to be excavated in the easterly direction (see Figure 3).

Operations were completed for the week.

September 2, 2014

Sometime during the weekend, the former building footing (east boundary) in *Area A* collapsed, which allowed excavation operations to continue east of the area designated 02 (middle sidewall between SVE-4 and SVE-3). The heavier excavator was no longer required for safe operations.

Excavation continued approximately 3 feet in the eastern direction and 5 foot in depth, before screening samples approached zero.

At this point, post-excavation Encore samples, base and side wall, were taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals.

Encore sample number for this area were designated, CL-PESOIL-B-02 for base sample and CL-PESOIL-W-02 for sidewall sample (see Figure 3).

Excavation then continued toward the western boundary of *Area A*, the area of former SVE-5 and SVE-2. Excavated operations continued to an approximate 3 foot maximum depth in this area based upon field screening results. Maximum excavation depth was estimated from previous sampling events to be approximately 3 ft. depth.

At this point, post-excavation Encore samples, base and side wall, were taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals.

Encore sample number for this area were designated, CL-PESOIL-B-07 through CL-PESOIL-B-09 for base and CL-PESOIL-W-07 through CL-PESOIL-W-09 for sidewall samples (see Figure 3).

On late September 2, 2014, backfilling operations started in *Area A*, where results were confirmed to be below cleanup goals.

September 3, 2014

On late September 3, 2014, excavation operations began in *Area B*, the area correlating with former SVE-13 (see Figure 2). The total horizontal dimension of this area is approximately 26 ft. x 10.5 ft. This area, occupied by the tenant mulch pile facility, was cleared at EPA's request.

Maximum excavation depth was estimated from previous sampling events performed to be approximately 6.5 - 7 ft. depth. Excavated operations continued to an approximate 16 foot maximum depth in this area based upon field screening results, where PID readings on the excavation area base approached zero.

The excavation sidewall in the eastern direction continued to show elevated screening readings, but excavation operations couldn't continue until the tenant provided addition room in the mulch storage facility in this area.

At this point, post-excavation Encore samples, base and side wall, were taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals. Sidewall samples were taken to estimate levels remaining in the area.

Encore sample numbers for this area were designated, CL-PESOIL-B-10 for base sample and CL-PESOIL-W-11(south wall), 12 (east wall) and 12A (dup) for sidewall samples (see Figure 3).

September 4, 2014

On September 4, 2014, excavation operations began in *Area C*, correlating with former SVE-20 (see

Figure 2). The total horizontal dimension of this area is approximately 11 ft. x 10 ft.

Maximum excavation depth was estimated from previous sampling events to be approximately 1.0 – 1.5 ft. depth. Excavated operations continued to an approximate 2 ft. depth in this area but were discontinued due the late hour. Screening of base samples approached zero, but sidewall samples continued to be elevated.

At this point, post-excavation Encore samples, base and side wall, were taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals. Sidewall samples were taken to estimate levels remaining in the area.

Encore sample numbers for this area were designated, CL-PESOIL-B-13 for base sample and CL-PESOIL-W-14(south wall), and 15 (east wall) for sidewall samples (see Figure 3).

All samples were packaged for shipment to the ERT-SERAS laboratory for 24-hour turnaround analysis.

September 5, 2014

On late September 5, 2014, analysis received from the ERT-SERAS laboratory confirmed the middle sidewall in *Area A*, designated 02 (between SVE-4 and SVE-3), designated sample number CL-PESOIL-B-02 for base sample and CL-PESOIL-W-02 for sidewall sample, to be below the site cleanup goals (see Table 3).

Also, the western boundary of *Area A*, (area of former SVE-5 and SVE-20), designated sample number CL-PESOIL-B-07 through CL-PESOIL-B-09 for base and CL-PESOIL-W-07 through CL-PESOIL-W-09 for sidewall samples, to be below the site cleanup goals (see Table 3).

This completes excavation operations in *Area A*.

Results of samples for both base level and sidewall (south) in *Area B,* correlating with former SVE-13, to be below the site cleanup goals (see Table 4). The east wall continued to have elevated levels. Excavation would continue in the area when the tenant completes clearing this area of the mulch facility.

In *Area C*, correlating with former SVE-20, the side wall areas (south and east) were found to be below the site cleanup goals (see Table 5). The base continued to have elevated levels.

Excavation of the base would continue in this area.

Operations were completed for the week.

September 9, 2014

On September 9, 2014, with the tenant providing additional room in *Area B* (near the mulch facility), excavation operations continued approximately 3 feet in the eastern direction before

screening samples approached zero.

At this point, post-excavation Encore side wall samples were taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals.

Excavation operations continued in *Area C*, correlating with former SVE-20. Excavation continued to an approximate 3 feet depth before screening samples approached zero.

At this point, post-excavation Encore samples were taken from *Area B*, (eastern sidewall and base); and base of *Area C*, (former SVE-20 area) for a 24-hour turnaround analysis to confirm reaching of cleanup goals.

Encore sample numbers for *Area B* (SVE-13) were designated CL-PESOIL-B-16 for base and CL-PESOIL-W-17 and 17A (dup) for sidewall (see Figure 3).

Encore sample numbers for *Area C* (SVE-20) were for base only, and designated, CL-PESOIL-B-18 (see Figure 3).

All samples were packaged for shipment to the ERT-SERAS laboratory for 24-hour turnaround analysis.

September 10, 2014

Stockpiling of clean fill continued.

On late September 10, 2014, analysis received from the ERT-SERAS laboratory confirmed base and sidewall (east) in *Area B*, (SVE-13) to be below the site cleanup goals (see Table 2).

Excavation operations in *Area B*, have been completed.

Sample results in *Area C* (SVE-20) base only, were also found to be below the site cleanup goals.

Excavation operations *Area C*, has been completed.

September 11, 2014

Based upon receipt of levels to be below cleanup goals, backfilling operations began in these areas.

The EPA Remedial Project Manager, Maria Jon; EPA On-Scene Coordinator, Louis DiGuardia; EPA On-Scene Coordinator, Gez Bushra; and NYSDEC representative HDR, were on-site to inspect excavation operations.

September 12, 2014

Backfilling operations continued.

In summary, excavation operations were completed in *Area A, Area B, and Area C*.

September 15, 2014

On September 15, 2014, excavation operations were proposed to begin in *Area D*, correlating with former SVE-11 (see Figure 2). The total horizontal dimension of this area is approximately 10 ft. x 10 ft.

This area (*Area D*), within the area by the tenant mulch pile facility, had previously been requested to be cleared for excavation, but the tenant's site equipment wasn't available. The tenant has verified the area would be cleared by September 16, 2014.

Continued backfilling operations. Awaiting off-site disposal acceptance of waste.

September 16, 2014

On September 16, 2014, with the tenant providing the necessary cleared area for excavation in *Area D*, excavation operations began.

Maximum excavation depth was estimated from previous sampling events performed to be approximately 1.0 ft. Excavated operations continued to an approximate 1 ft. depth in this area where screening of base samples approached zero.

At this point, post-excavation Encore base sample, was taken for a 24-hour turnaround analysis to confirm reaching of cleanup goals.

Encore sample numbers for *Area D* (SVE-11) were designated CL-PESOIL-B-19 and 19A (dup) for base (see Figure 3).

All samples were packaged for shipment to the ERT-SERAS laboratory for 24-hour turnaround analysis.

September 17, 2014

On late September 17, 2014, analysis received from the ERT-SERAS laboratory confirmed the base in *Area D*, (SVE-11) to be below the site cleanup goals (see Table 6). Excavation operations were completed in *Area D*.

To-date, excavation operations were completed in *Area A, Area B, Area C and Area D.*

Please see Analytical Section below, for a summary of the post excavation analytical results.

DISPOSAL

September 18 - 25, 2014

With receipt of analytical results which confirmed cleanup goals, 1,100 standard tons of non-hazardous soil from the four excavations areas were shipped to the off-site to Atlantic County Utilities Authority (ACUA) Facility, Egg Harbor Township NJ, a CERCLA approved facility.

ANALYTICAL RESULTS

Prior to backfilling operations, a 24-hour turnaround Encore Analysis was taken to confirm the achievement of cleanup levels to below the cleanup goals.

Each excavation area was screened by performing head space monitoring using a PID, where soil samples were placed in a jar and heated for approximately 20 minutes. In general, Encore samples were taken when PID readings were approaching zero.

Analytical results for all four areas indicated concentrations were well below the ESD cleanup goals (see Tables 1- 6 -Post Excavation Sampling Results, CPC Site, and Attachments 2, and 3a - 3d, for the full analytical reports).

All areas were confirmed to be below the cleanup goals.

III. Chronology of Events

See Table 7.

IV. Performance Standards and Construction Quality Control

All construction activities were conducted by EPA and its ERRS contractor. The SVE system as installed and the quality control of the system was classified as operational and functional.

The RA activities at the Site were undertaken in a manner consistent with the 2003 ESD, the plans and specifications and subsequent as-built construction drawings. All applicable EPA and State quality assurance and quality control (QA/QC) procedures and protocols were implemented. EPA procedures and protocols were followed for all soil sampling collection and analyses activities during the RD/RA activities. EPA's approved analytical methods were used for all sample validation during all RD/RA activities. All sample analyses were performed at certified laboratories. Technical oversight of daily construction activities were performed by Louis DiGuardia and Gez Bushra, EPA On-Scene Coordinators for the Site. In addition, other EPA and NYSDEC personnel periodically visited the Site during the construction and operational phases.

The QA/QC program used throughout the soil remediation was rigorous and in conformance with EPA and State standards; therefore, EPA and the State determined that all analytical results are accurate to the degree needed to assure the satisfactory execution of the remedial action activities

and that they are consistent with the 2003 ESD, the RD plans and specifications and the construction drawings.

The SVE system equipment was furnished by reputable manufacturers and suppliers. Manufacturers and suppliers advised EPA on the installation of the equipment, which was tested according to the manufacturers' specifications and guidelines. The equipment specification sheets are included in the Operation and Maintenance (O&M) Manual. The up-to-date O&M Manual was maintained in the SVE housing.

Quality control measures were part of the ongoing sampling and monitoring activities performed by the EPA-RAB, and EPA-ERT, and its contractor REAC/SERAS. All sampling activities were performed according to the approved Site Sampling Quality Assurance Project Plan. The project logic control system automatically performs continuous monitoring of the SVE system to ensure that all QA/QC standards are met.

As was noted above, approximately 20,000 cubic yards of soil were treated by the SVE and approximately 1,100 tons of soil were excavated and disposed of off-site at a CECLA approved facility.

V. Final Inspections and Certifications

The overall finalization of the Site construction activities were handled under the completion of the SVE system. This remedial action represented successful coordination efforts by the EPA Region 2 Superfund removal and remedial programs.

Site inspections were performed on two different occasions as follows. On September 26, 2003, the SVE system was inspected, and on September 11, 2014, excavation operations were inspected.

September 11, 2014 Site inspection, participants included:

Maria Jon, EPA RPM
Lou DiGuardia, EPA OSC
Gez Bushra, EPA OSC

September 26, 2003 Site inspection, participants included:

Maria Jon, EPA RPM
Lou DiGuardia, EPA OSC
Jeff Catanzarita, EPA Environmental Response Team
Payson Long, NYSDEC

The SVE system was found to be operational and functional and in compliance with discharge requirements. The NYSDEC agreed to this designation.

As previously discussed, following the December 2010 and May 2013 sampling events, and in discussions with NYSDEC, it became apparent that the SVE system had reached a plateau and was

no longer effective in extracting VOCs from the soil. In general, the volume of soil that was still above the soil cleanup goals was limited to approximately 1,100 tons.

In March 2014, in order to address the remaining areas of soil above the site cleanup goals, EPA prepared a report entitled *"Sampling Summary Report", Technical Memorandum, Claremont Polychemical Corporation Superfund Site,* which proposed addressing the remaining limited contaminated soil with excavation and off-site disposal at a CERCLA approved facility. The NYSDEC concurred with this recommendation.

Subsequently, soil excavation commenced the week of August 25, and was completed September 25, 2014. Approximately 1,100 tons of soil was excavated and shipped off-site to Atlantic County Utilities Authority (ACUA) Facility, Egg Harbor Township NJ, a CERCLA approved disposal facility. Analytical results of post-excavation sampling of all areas indicated VOC concentrations, specifically PCE and TCE, were below the soil cleanup goals for all compounds in Table 1. Tables 3 through 6, tabulate all post-excavation results.

VI. Operation and Maintenance Activities

While the SCOs specified in the ROD have been achieved, operation of the SVE was discontinued and excavation of the remaining, approximately 1,100 tons of soil above the soil cleanup goals were excavated and disposed off-site at a CERCLA approved facility.

VII. Contact Information

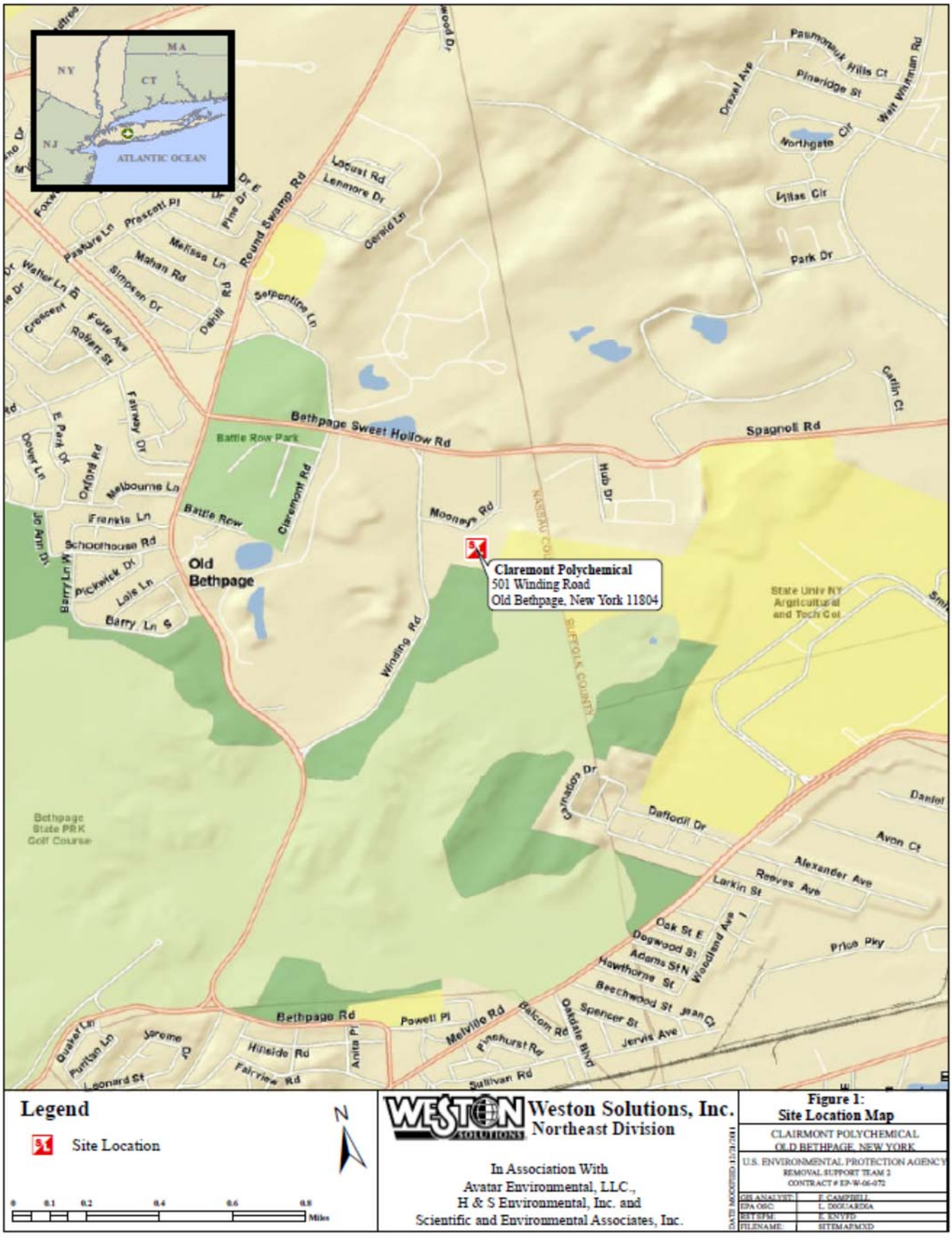
USEPA
290 Broadway
New York, New York 10007-1886
Attn: Maria Jon, Remedial Project Manager
Telephone: (212) 637-3967
Email: jon.maria@epa.gov

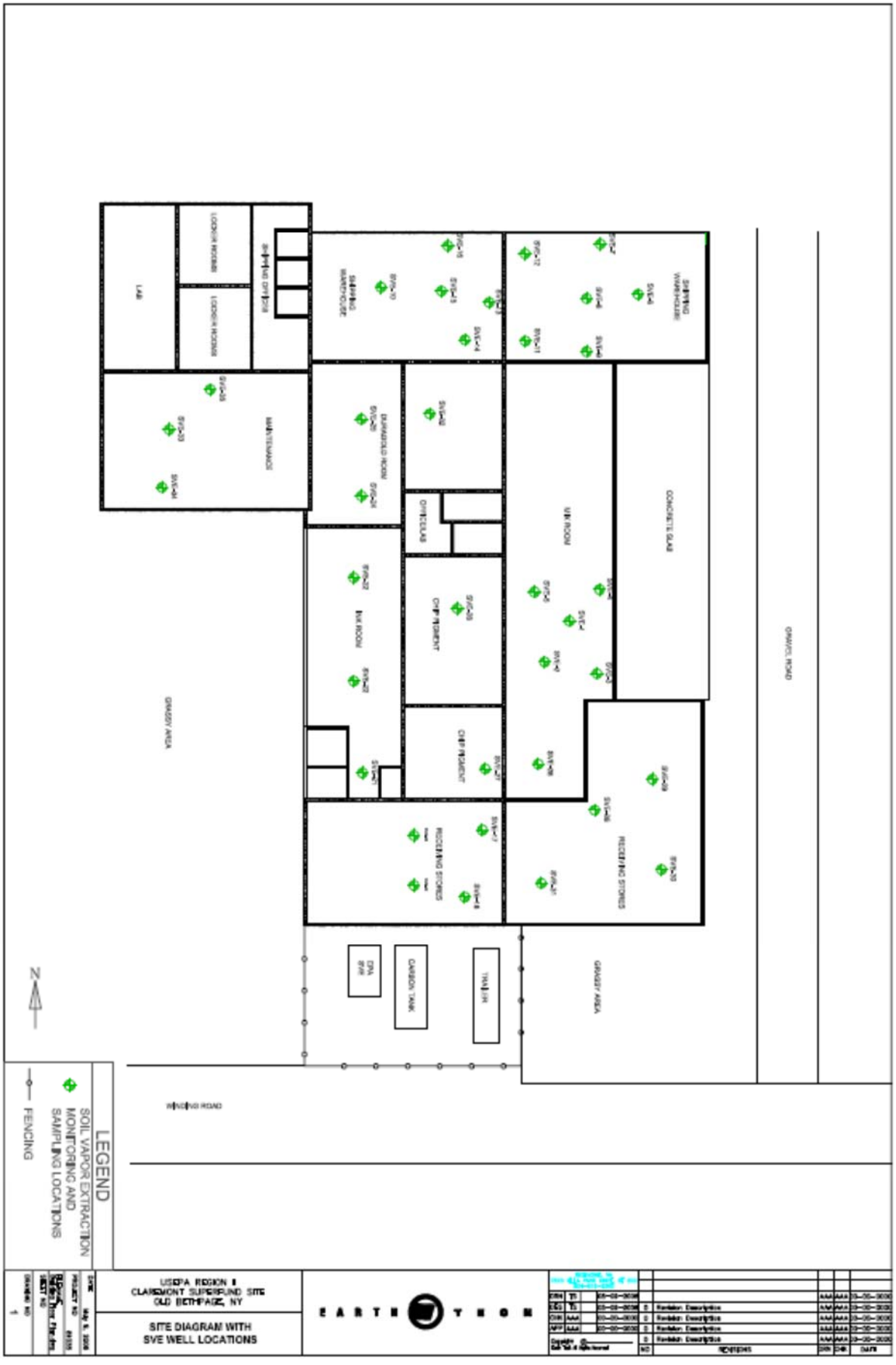
USEPA
2890 Woodbridge Avenue
Edison, New Jersey 08836-3679
Attn: Louis DiGuardia, On-Scene Coordinator
Telephone: (732) 906-6927
Email: diguardia.lou@epa.gov

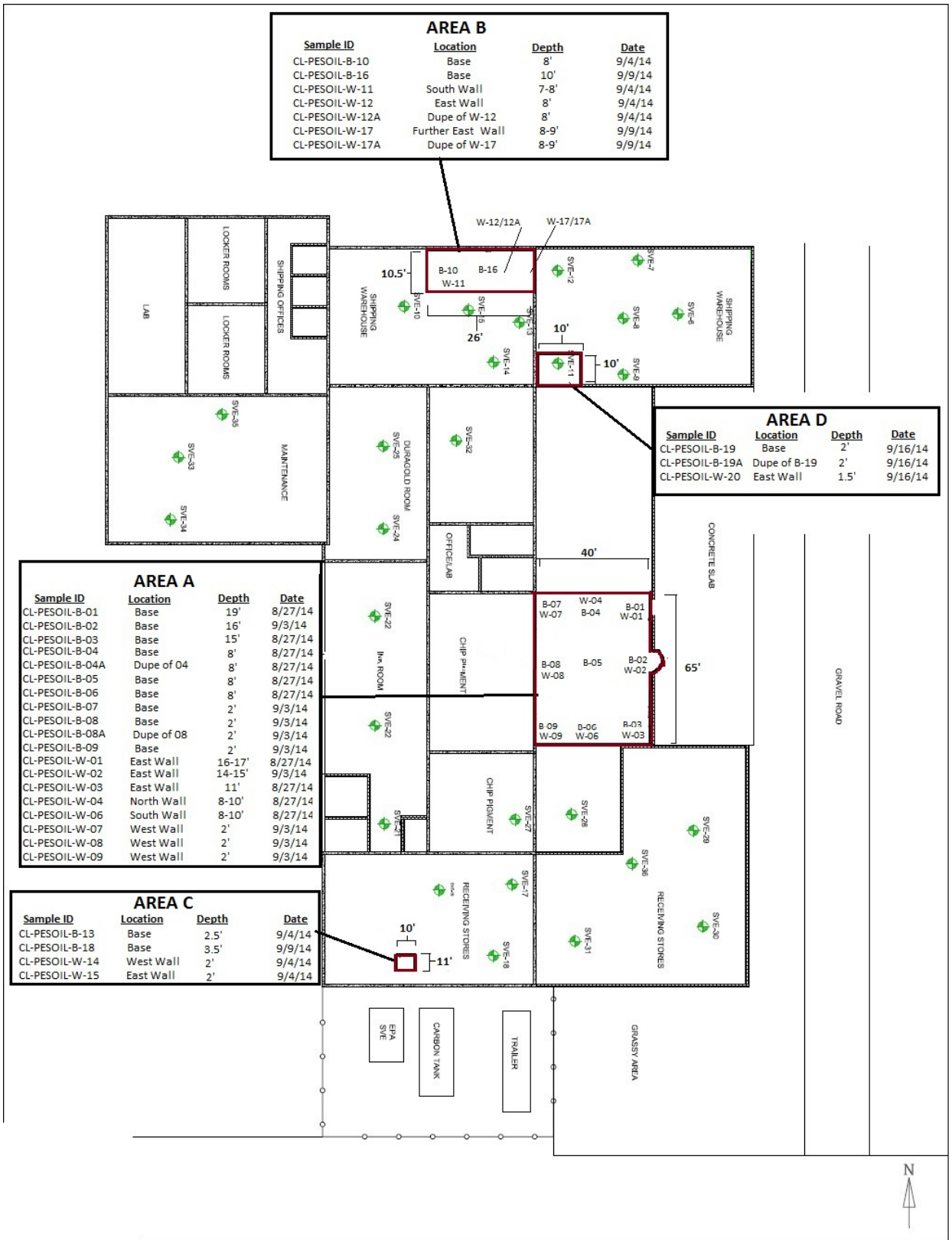
NYSDEC
625 Broadway
Albany, New York 12233
Attn: Ben Rung, Project Manager
Telephone: (518) 402-9813
Email: rung.ben@gw.dec.state.ny.us

VIII. Appendices

FIGURES


MA
NY
CT
NJ
ATLANTIC OCEAN
Claremont Polychemical
501 Winding Road
Old Bethpage, New York 11804
Old Bethpage
Bethpage Sweet Hollow Rd
Spagnoli Rd
Round Swamp Rd
Battle Row Park
Battle Row
Claremont Rd
Winding Rd
Mooney's Rd
Hub Dr
Locust Rd
Lenmore Dr
Gerald Ln
Melissa Ln
Mahan Rd
Simpson Dr
Dehill Rd
Serpentine Ln
Pasture Ln
Prescott Pl
Pine Dr E
Crescent Dr
Forte Ave
Robert St
Fairway Dr
Melbourne Ln
Franklin Ln
Schoolhouse Rd
Pickwick Dr
Lois Ln
Barry Ln S
Barry Ln W
Jo Ann Dr
Dover Ln
E Park Dr
Oxford Rd
Pasmonauk Hills Ct
Pineridge St
Dexel Ave
Walt Whitman Rd
Northgate Cir
Hillas Cir
Park Dr
Caitlin Ct
State Univ NY Agricultural and Tech Col
Daffodil Dr
Avon Ct
Alexander Ave
Reeves Ave
Larkin St
Oak St E
Dogwood St
Adams St N
Hawthorne St
Beechwood St
Woodland Ave
Price Pky
Jean Ct
Spencer St
Jervis Ave
Oakdale Blvd
Belcom Rd
Pinehurst Rd
Melville Rd
Powell Pl
Bethpage Rd
Sullivan Rd
Fairview Rd
Hillside Rd
Anita Pl
Jereme Ct
Puritan Ln
Quaker Ln
Leonard St
Bethpage State Park Golf Course
SUFFOLK COUNTY
NASSAU CO
Legend
Site Location
N
0 0.1 0.2 0.4 0.6 0.8 Miles
Weston Solutions, Inc.
Northeast Division
In Association With
Avatar Environmental, LLC.,
H & S Environmental, Inc. and
Scientific and Environmental Associates, Inc.
Figure 1:
Site Location Map
CLAIRMONT POLYCHEMICAL
OLD BETHPAGE, NEW YORK
U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072
GIS ANALYST: F. CAMPBELL
EPA OSC: L. DEGUARDIA
RST SPM: E. KNYFD
FILENAME: SITEMAP.MXD
DATE MODIFIED 12/8/2011


LEGEND
SOIL VAPOR EXTRACTION MONITORING AND SAMPLING LOCATIONS
FENCING
N
USEPA REGION II
CLAREMONT SUPERFUND SITE
OLD BETHPAGE, NY
SITE DIAGRAM WITH
SVE WELL LOCATIONS
EARTH TECH
GRASSY AREA
CARBON TANK
TANK
GRASSY AREA
WINDING ROAD



USEPA CLAREMONT POLYCHEMICAL SUPERFUND SITE
FIGURE 3:
AUGUST-SEPTEMBER 2014
POST EXCAVATION SAMPLING LOCATION MAP

-Excavation Areas

Not to Scale

TABLES:

Table 1 - Soil Cleanup Goals for Contaminants in the Soil Under the Process Building

Contaminants	Cleanup Goals (mg/kg)	TAGM Values (mg/kg)
Acetonitrile	42.0	0.1
Methylene Chloride	9.1	0.1
t-1,2-Dichloroethene	6.9	0.3
c-1,2-Dichloroethene	4.3	0.3
Trichloroethene (TCE)	0.053	0.7
Tetrachloroethene (PCE)	1.5	1.4

TABLE 2 - Claremont –Soil Cleanup Exceedances

Contaminant **mg/kg or ppm**	**NYSDEC Remedial Program Soil Cleanup Objectives for Commercial Facilities**	**NYSDEC Remedial Program Soil Restricted Residential Cleanup Objectives 375-6.8b**	**Record of Decision (ROD) Cleanup Goals**	*Area A** SVE-3 14'-15' Depth	*Area A** SVE-4 1'-2' Depth	*Area A** SVE-4 8'-9' Depth	*Area A** SVE-4 15'-16' Depth	*Area A** SVE-2 2'– 3' Depth	*Area B** SVE-13 6.5'-7.0' Depth	*Area C** SVE-20 1'-1.5' Depth	*Area D** SVE-11 0 – 1' Depth
PCE	150	**19**	**1.5**	**19**	**94**	**11**	**46**	2.4	**270**	**<5**	2.2
TCE	200	**21**	**0.053**	**4.3**	**.32**	< 5	**0.47**	.039	**19**	**.056**	.0064

Claremont Polychemical Superfund Site Soil Excavation
August 2014 – September 2014
Table 3. Excavation A - Post-Excavation Soil Samples Result

Sample #	Location	Analyte*	Result (µg/Kg)	Qualifier	SampleDate	Remark
CL-PESOIL-B-01	Base Sample	Tetrachloroethene	1.48	J	8/27/2014	
CL-PESOIL-B-01	Base Sample	Trichloroethene	5.44	U	8/27/2014	
CL-PESOIL-B-02	Base Sample	Tetrachloroethene	2.16	J	9/3/2014	
CL-PESOIL-B-02	Base Sample	Trichloroethene	5.05	U	9/3/2014	
CL-PESOIL-B-03	Base Sample	Tetrachloroethene	4.42	J	8/27/2014	
CL-PESOIL-B-03	Base Sample	Trichloroethene	4.89	U	8/27/2014	
CL-PESOIL-B-04	Base Sample	Tetrachloroethene	3.19	J	8/27/2014	
CL-PESOIL-B-04	Base Sample	Trichloroethene	5.97	U	8/27/2014	
CL-PESOIL-B-04A	Base Sample	Tetrachloroethene	1.73	J	8/27/2014	A duplicate sample of CL-PESOIL-B-04
CL-PESOIL-B-04A	Base Sample	Trichloroethene	5.71	U	8/27/2014	A duplicate sample of CL-PESOIL-B-04
CL-PESOIL-B-05	Base Sample	Tetrachloroethene	1.4	J	8/27/2014	
CL-PESOIL-B-05	Base Sample	Trichloroethene	5.16	U	8/27/2014	
CL-PESOIL-B-06	Base Sample	Tetrachloroethene	2.46	J	8/27/2014	
CL-PESOIL-B-06	Base Sample	Trichloroethene	5.86	U	8/27/2014	
CL-PESOIL-B-07	Base Sample	Tetrachloroethene	3.74	J	9/3/2014	
CL-PESOIL-B-07	Base Sample	Trichloroethene	5.31	U	9/3/2014	
CL-PESOIL-B-08	Base Sample	Tetrachloroethene	4.95	U	9/3/2014	
CL-PESOIL-B-08	Base Sample	Trichloroethene	4.95	U	9/3/2014	
CL-PESOIL-B-08A	Base Sample	Tetrachloroethene	5.1	U	9/3/2014	A duplicate sample of CL-PESOIL-B-08
CL-PESOIL-B-08A	Base Sample	Trichloroethene	5.1	U	9/3/2014	A duplicate sample of CL-PESOIL-B-08
CL-PESOIL-B-09	Base Sample	Tetrachloroethene	14.8		9/3/2014	
CL-PESOIL-B-09	Base Sample	Trichloroethene	4.89	U	9/3/2014	
CL-PESOIL-W-01	Wall Sample	Tetrachloroethene	2.59	J	8/27/2014	
CL-PESOIL-W-01	Wall Sample	Trichloroethene	5	U	8/27/2014	
CL-PESOIL-W-02	Wall Sample	Tetrachloroethene	1.17	J	9/3/2014	
CL-PESOIL-W-02	Wall Sample	Trichloroethene	6.57	U	9/3/2014	
CL-PESOIL-W-03	Wall Sample	Tetrachloroethene	1.44	J	8/27/2014	
CL-PESOIL-W-03	Wall Sample	Trichloroethene	5.37	U	8/27/2014	
CL-PESOIL-W-04	Wall Sample	Tetrachloroethene	4.96	J	8/27/2014	
CL-PESOIL-W-04	Wall Sample	Trichloroethene	5.31	U	8/27/2014	
CL-PESOIL-W-06	Wall Sample	Tetrachloroethene	2.56	J	8/27/2014	
CL-PESOIL-W-06	Wall Sample	Trichloroethene	5.63	U	8/27/2014	
CL-PESOIL-W-07	Wall Sample	Tetrachloroethene	49.4		9/3/2014	
CL-PESOIL-W-07	Wall Sample	Trichloroethene	5.05	U	9/3/2014	
CL-PESOIL-W-08	Wall Sample	Tetrachloroethene	79.9		9/3/2014	
CL-PESOIL-W-08	Wall Sample	Trichloroethene	5	U	9/3/2014	
CL-PESOIL-W-09	Wall Sample	Tetrachloroethene	64.4		9/3/2014	
CL-PESOIL-W-09	Wall Sample	Trichloroethene	1.65	J	9/3/2014	

Based upon past sampling events, only Tetrachloroethene (PCE) and Trichloroethene (TCE) exceeded the ESD Soil Cleanup Goals.
Excavation Area A -Containing former SVE-03, SVE-04 and SVE-02.
ESD and TAGM Soil Cleanup Goals for PCE are 1500 µg/Kg and 1400 µg/Kg respectively.
ESD and TAGM Soil Cleanup Goals for TCE are 53 µg/Kg and 700 µg/Kg respectively.

Claremont Polychemical Superfund Site Soil Excavation
August 2014 – September 2014
Table 4. Excavation B - Post-Excavation Soil Samples Result

Sample #	Location	Analyte	Result (µg/Kg)	Qualifier	SampleDate	Remark
CL-PESOIL-B-10	Base Sample	Tetrachloroethene	6.13		9/4/2014	
CL-PESOIL-B-10	Base Sample	Trichloroethene	3.47	J	9/4/2014	
CL-PESOIL-B-16	Base Sample	Tetrachloroethene	5.16	U	9/9/2014	
CL-PESOIL-B-16	Base Sample	Trichloroethene	5.16	U	9/9/2014	
CL-PESOIL-W-11	Wall Sample	Tetrachloroethene	7.95		9/4/2014	
CL-PESOIL-W-11	Wall Sample	Trichloroethene	4.95	U	9/4/2014	
CL-PESOIL-W-12	Wall Sample	Tetrachloroethene	881		9/4/2014	
CL-PESOIL-W-12	Wall Sample	Trichloroethene	71.6		9/4/2014	
CL-PESOIL-W-12A	Wall Sample	Tetrachloroethene	27400	E	9/4/2014	A duplicate sample of CL-PESOIL-W-12 and resampled as CL-PESOIL-W-17A*
CL-PESOIL-W-12A	Wall Sample	Trichloroethene	3590	E	9/4/2014	A duplicate sample of CL-PESOIL-W-12 and resampled as CL-PESOIL-W-17A*
CL-PESOIL-W-17	Wall Sample	Tetrachloroethene	160		9/9/2014	a resample of CL-PESOIL-W-12
CL-PESOIL-W-17	Wall Sample	Trichloroethene	2.3	J	9/9/2014	a resample of CL-PESOIL-W-12
CL-PESOIL-W-17A	Wall Sample	Tetrachloroethene	514	E	9/9/2014	A duplicate sample of CL-PESOIL-W-17 and a resample of CL-PESOIL-W-12A
CL-PESOIL-W-17A	Wall Sample	Trichloroethene	19.7		9/9/2014	A duplicate sample of CL-PESOIL-W-17 and resample of CL-PESOIL-W-12A

Based upon past sampling events, only Tetrachloroethene (PCE) and Trichloroethene (TCE) exceeded the ESD Soil Cleanup Goals.

**Additional soil excavated before re-sampling.*

Excavation Area B - Containing former SVE-13.

ESD and TAGM Soil Cleanup Goals for PCE are 1500 µg/Kg and 1400 µg/Kg respectively.

ESD and TAGM Soil Cleanup Goals for TCE are 53 µg/Kg and 700 µg/Kg respectively.

Claremont Polychemical Superfund Site Soil Excavation
August 2014 – September 2014
Table 5. Excavation C - Post-Excavation Soil Samples Result

Sample #	Location	Analyte	Result (µg/Kg)	Qualifier	SampleDate	Remark
CL-PESOIL-B-13	Base Sample	Tetrachloroethene	1450		9/4/2014	
CL-PESOIL-B-13	Base Sample	Trichloroethene	2.84	J	9/4/2014	
CL-PESOIL-B-18	Base Sample	Tetrachloroethene	80.6		9/9/2014	a resample of CL-PESOIL-B-13*
CL-PESOIL-B-18	Base Sample	Trichloroethene	5.57	U	9/9/2014	a resample of CL-PESOIL-B-13*
CL-PESOIL-W-14	Wall Sample	Tetrachloroethene	25.4		9/4/2014	
CL-PESOIL-W-14	Wall Sample	Trichloroethene	4.74	U	9/4/2014	
CL-PESOIL-W-15	Wall Sample	Tetrachloroethene	87.8		9/4/2014	
CL-PESOIL-W-15	Wall Sample	Trichloroethene	1.11	J	9/4/2014	

Based upon past sampling events, only Tetrachloroethene (PCE) and Trichloroethene (TCE) exceeded the ESD Soil Cleanup Goals.

**Additional soil excavated before re-sampling.*

Excavation Area C - Containing former SVE-20.

ESD and TAGM Soil Cleanup Goals for PCE are 1500 µg/Kg and 1400 µg/Kg respectively.

ESD and TAGM Soil Cleanup Goals for TCE are 53 µg/Kg and 700 µg/Kg respectively.

Claremont Polychemical Superfund Site Soil Excavation
August 2014 – September 2014
Table 6. Excavation D - Post-Excavation Soil Samples Result

Sample #	Location	Analyte	Result (µg/Kg)	Qualifier	SampleDate	Remark
CL-PESOIL-B-19	Base Sample	Tetrachloroethene	7.9		9/16/2014	
CL-PESOIL-B-19	Base Sample	Trichloroethene	6.35	U	9/16/2014	
CL-PESOIL-B-19A	Base Sample	Tetrachloroethene	32.1		9/16/2014	A duplicate sample of CL-PESOIL-B-19
CL-PESOIL-B-19A	Base Sample	Trichloroethene	5.89	U	9/16/2014	A duplicate sample of CL-PESOIL-B-19
CL-PESOIL-W-20	Wall Sample	Tetrachloroethene	24.9		9/16/2014	
CL-PESOIL-W-20	Wall Sample	Trichloroethene	5.05	U	9/16/2014	

Based upon past sampling events, only Tetrachloroethene (PCE) and Trichloroethene (TCE) exceeded the ESD Soil Cleanup Goals.

Excavation Area A -Containing former SVE-11.

ESD and TAGM Soil Cleanup Goals for PCE are 1500 µg/Kg and 1400 µg/Kg respectively.

ESD and TAGM Soil Cleanup Goals for TCE are 53 µg/Kg and 700 µg/Kg respectively.

Table 7: Chronology of Site Events	
Event	**Date(s)**
Nassau County Health Department (NCHD) investigate CPC facility.	1979
Claremont Polychemical Corporation Site listed on National Priorities List.	1986
First Record of Decision (ROD)	1989
Second ROD for Comprehensive Cleanup	1990
Process Building Source Identification/Control and Investigation and Feasibility Study	2000
SVE Design and Pilot Completed - Full Scale Operation Began	2002
Explanation of Significant Differences (1990 ROD)	April 2003
Full Scale SVE Operations Begin	July 2003
ESD Completion of Removal of Construction Debris and Decommissioning of Treatment Basins	September 2003
Preliminary Close-Out Report	September 2003
Property Sold – Requirement of Sale - Owner Required to Make Building Safe or Demolish for Continued remediation.	2007
Building Demolished to Grade by Owner	2013
Soil sampling and re-assessment of SVE remedy.	2010-2013
Sampling Summary Report – Excavate and Off-Disposal of Approximately 1,500 cubic yards Soil	March 2014
Limited Soil Excavation Activities (approximately 1,100 tons removed)	August – September 2014
Final Soil Excavation Inspection	September, 11 2014

PICTURES:

Picture 1 - Excavation *Area A*, Claremont Polychemical Site
Picture 2 - Excavation *Area B*, Claremont Polychemical Site
Picture 3 - Excavation *Area C*, Claremont Polychemical Site
Picture 4 - Excavation *Area D*, Claremont Polychemical Site

ATTACHMENTS:

Attachment 1a - Trip Report - Disposal Characterization/Clean Fill Analysis, CPC Site
Attachment 1b - Disposal Characterization/Clean Fill Analysis Results, CPC Site
Attachment 2 - August 28 – September 17, 2014, Trip Report - Post Excavation Sampling, CPC Site
Attachment 3a - August 28, 2014, Post Excavation Analytical Results, ERT-SERAS, CPC Site
Attachment 3b - September 5, 2014, Post Excavation Analytical Results, ERT-SERAS, CPC Site
Attachment 3c - September 10, 2014, Post Excavation Analytical Results, ERT-SERAS, CPC Site
Attachment 3d - September 17, 2014, Post Excavation Analytical Results, ERT-SERAS, CPC Site

EXCAVATION AREA A

EXCAVATION AREA B

EXCAVATION AREA C

EXCAVATION AREA D

ATTACHMENTS:

Attachment 1 - Trip Report - Disposal Characterization/Clean Fill Analysis, CPC Site
Attachment 2 - August 28 - September 17, 2014, Trip Report - Post Excavation Sampling
Attachment 3a - August 28, 2014, Post Excavation Analytical Results, ERT-SERAS, CPC Site
Attachment 3b - September 5, 2014, Post Excavation Analytical Results, ERT-SERAS, CPC Site
Attachment 3c - September 10, 2014, Post Excavation Analytical Results, ERT-SERAS
Attachment 3d - September 16, 2014, Post Excavation Analytical Results, ERT-SERAS

SAMPLING TRIP REPORT

Site Name: Claremont Polychemical Superfund Site
Sampling Date: August 27- September 16, 2014
Site Location: 501 Winding Rd., Old Bethpage, New York, 11804
Sample Descriptions: Post Excavation Base and Wall soil sampling

Laboratories Receiving Samples (Table 1):

Case Number	Sample Type	Name and Address of Laboratory
N/A	VOCs, Percent Moisture	ERT / SERAS Laboratory 2890 Woodbridge Ave. Edison, NJ

Sample Dispatch Data (Table 2):

On August 27th, 2014, a total of ten (10) post excavation samples (CL-PESOIL-B-01, 03, 04, 04A, 05, 06 and CL-PESOIL-W-01, 03, 04, and 06) including one duplicate (CL-PESOIL-B-04A) were taken for VOCs and Percent Moisture analyses.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
8036 1554 2240	1	Total of 10 Post Excavation Soil Samples including one duplicate sample	8/27/14 @ 19:30 TO: ERT/SERAS

On September 3rd, 2014, a total of nine (9) post excavation samples (CL-PESOIL-B-02, 07, 08, 08A, 09 and CL-PESOIL-W-02, 07, 08, and 09) including one duplicate (CL-PESOIL-B-08A) were taken for VOCs and Percent Moisture analyses.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
8036 1554 2250	2	Total of 9 Post Excavation Soil Samples including one duplicate sample	9/3/14 @ 19:30 TO: ERT/SERAS

On September 4th, 2014, a total of seven (7) post excavation samples (CL-PESOIL-B-10, 13, and CL-PESOIL-W-11, 12, 12A, 14, and 15) including one duplicate sample (CL-PESOIL-W-12A) were taken for VOCs and Percent Moisture analyses.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
N/A- Dropped off to lab	1	Total of 7 Post Excavation Soil Samples including one duplicate sample	9/4/14 @ 14:30 TO: ERT/SERAS

On September 9th, 2014 a total of four (4) post excavation samples (CL-PESOIL-B-16, 18 and CL-PESOIL-W-17 and 17A) including one duplicate sample (CL-PESOIL-W-17A) were taken for VOCs and Percent Moisture analyses.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
8064 3453 3531	1	Total of 4 Post Excavation Soil Samples including one duplicate sample	9/9/14 @ 17:30 TO: ERT/SERAS

On September 16th, 2014 a total of three (3) post excavation samples (CL-PESOIL-B-19, 19A, and CL-PESOIL-W-20) including one duplicate sample (CL-PESOIL-B-19A) were taken for VOCs and Percent Moisture analyses.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
N/A- Dropped off to lab	1	Total of 3 Post Excavation Soil Samples including one duplicate sample	9/16/14 @ 10:00 TO: ERT/SERAS

Sampling Personnel (Table 3):

Name	Organization	Site Duties
Frank Mahalski	ER, LLC.	Sampler

Sample Numbers and Collection Points (Table 4):

Laboratory	Analysis	Sample Type	Sample #	Sample Collection Point(SP)*
ERT / SERAS 2890 Woodbridge Ave. Edison, NJ	VOCs / Percent Moisture	Post Excavation Soil Samples	CL-PESOIL-B-01 CL-PESOIL-B-02 CL-PESOIL-B-03* CL-PESOIL-B-04 CL-PESOIL-B-04A CL-PESOIL-B-05 CL-PESOIL-B-06 CL-PESOIL-B-07* CL-PESOIL-B-08 CL-PESOIL-B-08A CL-PESOIL-B-09 CL-PESOIL-W-01 CL-PESOIL-W-02 CL-PESOIL-W-03 CL-PESOIL-W-04 CL-PESOIL-W-06 CL-PESOIL-W-07 CL-PESOIL-W-08 CL-PESOIL-W-09	AREA A
			CL-PESOIL-B-10 CL-PESOIL-B-16 CL-PESOIL-W-11* CL-PESOIL-W-12 CL-PESOIL-W-12A CL-PESOIL-W-17 CL-PESOIL-W-17A	AREA B
			CL-PESOIL-B-13 CL-PESOIL-B-18* CL-PESOIL-W-14 CL-PESOIL-W-15	AREA C
			CL-PESOIL-B-19 CL-PESOIL-B-19A CL-PESOIL-W-20*	AREA D

Notes: B = Base Sample, A= Duplicate, W= Wall Sample
*= MS/MSD sample

Additional Comments:

A Copies of the Chains of Custody forms are included in Attachment A. Fedex Airbills are included in Attachment B. Sample Location Map is shown in Attachment C.

Attachment A

Chains of Custody
(August 27 – September 16, 2014)

USEPA
DateShipped: 8/27/2014
CarrierName: FedEx
AirbillNo: 803615542240

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-01
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-01	Base Sample	VOCs	Soil	8/27/2014	10:50	3	Encore	4 C	
	CL-PESOIL-B-01	Base Sample	Moisture Content	Soil	8/27/2014	10:50	1	4 oz glass jar	4 C	
	CL-PESOIL-B-03	Base Sample	VOCs	Soil	8/27/2014	15:30	9	Encore	4 C	Y
	CL-PESOIL-B-03	Base Sample	Moisture Content	Soil	8/27/2014	15:30	1	4 oz glass jar	4 C	
	CL-PESOIL-B-04	Base Sample	VOCs	Soil	8/27/2014	12:30	3	Encore	4 C	
	CL-PESOIL-B-04	Base Sample	Moisture Content	Soil	8/27/2014	12:30	1	4 oz glass jar	4 C	
	CL-PESOIL-B-04A	Base Sample	VOCs	Soil	8/27/2014	12:33	3	Encore	4 C	
	CL-PESOIL-B-04A	Base Sample	Moisture Content	Soil	8/27/2014	12:33	1	4 oz glass jar	4 C	
	CL-PESOIL-B-05	Base Sample	VOCs	Soil	8/27/2014	11:55	3	Encore	4 C	
	CL-PESOIL-B-05	Base Sample	Moisture Content	Soil	8/27/2014	11:55	1	4 oz glass jar	4 C	
	CL-PESOIL-B-06	Base Sample	VOCs	Soil	8/27/2014	16:15	3	Encore	4 C	
	CL-PESOIL-B-06	Base Sample	Moisture Content	Soil	8/27/2014	16:15	1	4 oz glass jar	4 C	
	CL-PESOIL-W-01	Wall Sample	VOCs	Soil	8/27/2014	10:55	3	Encore	4 C	
	CL-PESOIL-W-01	Wall Sample	Moisture Content	Soil	8/27/2014	10:55	1	4 oz glass jar	4 C	
	CL-PESOIL-W-03	Wall Sample	VOCs	Soil	8/27/2014	15:35	3	Encore	4 C	
	CL-PESOIL-W-03	Wall Sample	Moisture Content	Soil	8/27/2014	15:35	1	4 oz glass jar	4 C	
	CL-PESOIL-W-04	Wall Sample	VOCs	Soil	8/27/2014	11:30	3	Encore	4 C	
	CL-PESOIL-W-04	Wall Sample	Moisture Content	Soil	8/27/2014	11:30	1	4 oz glass jar	4 C	
	CL-PESOIL-W-06	Wall Sample	VOCs	Soil	8/27/2014	16:20	3	Encore	4 C	
	CL-PESOIL-W-06	Wall Sample	Moisture Content	Soil	8/27/2014	16:20	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-B-01 and CL-PESOIL-W-01may have concentration of VOC's as high as 50 ppm.
MS/MSD is assigned to sample number CL-PESOIL-B-03.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Paul Mendelsohn/ERT LLC	8-27-14 15:05			

USEPA
DateShipped: 9/3/2014
CarrierName: FedEx
AirbillNo: 803815542250

CHAIN OF CUSTODY RECORD

Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-02
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-02	Base Sample	VOCs	Soil	9/3/2014	13:25	3	Encore	4 C	
	CL-PESOIL-B-02	Base Sample	Moisture Content	Soil	9/3/2014	13:25	1	4 oz glass jar	4 C	
	CL-PESOIL-B-07	Base Sample	VOCs	Soil	9/3/2014	16:45	9	Encore	4 C	Y
	CL-PESOIL-B-07	Base Sample	Moisture Content	Soil	9/3/2014	16:45	1	4 oz glass jar	4 C	
	CL-PESOIL-B-08	Base Sample	VOCs	Soil	9/3/2014	17:15	3	Encore	4 C	
	CL-PESOIL-B-08	Base Sample	Moisture Content	Soil	9/3/2014	17:15	1	4 oz glass jar	4 C	
	CL-PESOIL-B-08A	Base Sample	VOCs	Soil	9/3/2014	17:17	3	Encore	4 C	
	CL-PESOIL-B-08A	Base Sample	Moisture Content	Soil	9/3/2014	17:17	1	4 oz glass jar	4 C	
	CL-PESOIL-B-09	Base Sample	VOCs	Soil	9/3/2014	18:00	3	Encore	4 C	
	CL-PESOIL-B-09	Base Sample	Moisture Content	Soil	9/3/2014	18:00	1	4 oz glass jar	4 C	
	CL-PESOIL-W-02	Wall Sample	VOCs	Soil	9/3/2014	13:30	3	Encore	4 C	
	CL-PESOIL-W-02	Wall Sample	Moisture Content	Soil	9/3/2014	13:30	1	4 oz glass jar	4 C	
	CL-PESOIL-W-07	Wall Sample	VOCs	Soil	9/3/2014	16:35	3	Encore	4 C	
	CL-PESOIL-W-07	Wall Sample	Moisture Content	Soil	9/3/2014	16:35	1	4 oz glass jar	4 C	
	CL-PESOIL-W-08	Wall Sample	VOCs	Soil	9/3/2014	17:10	3	Encore	4 C	
	CL-PESOIL-W-08	Wall Sample	Moisture Content	Soil	9/3/2014	17:10	1	4 oz glass jar	4 C	
	CL-PESOIL-W-09	Wall Sample	VOCs	Soil	9/3/2014	18:05	3	Encore	4 C	
	CL-PESOIL-W-09	Wall Sample	Moisture Content	Soil	9/3/2014	18:05	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-B-02 and CL-PESOIL-W-02 may have concentration of VOC's as high as 35 ppm.
MS/MSD is assigned to sample number CL-PESOIL-B-07.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Paul Mabbe ERT, LLC	9-3-14/18:00			

USEPA
DateShipped: 9/4/2014
CarrierName: EPA
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-03
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-10	Base Sample	VOCs	Soil	9/4/2014	13:05	3	Encore	4 C	
	CL-PESOIL-B-10	Base Sample	Moisture Content	Soil	9/4/2014	13:05	1	4 oz glass jar	4 C	
	CL-PESOIL-B-13	Base Sample	VOCs	Soil	9/4/2014	14:10	3	Encore	4 C	
	CL-PESOIL-B-13	Base Sample	Moisture Content	Soil	9/4/2014	14:10	1	4 oz glass jar	4 C	
	CL-PESOIL-W-11	Wall Sample	VOCs	Soil	9/4/2014	12:55	9	Encore	4 C	Y
	CL-PESOIL-W-11	Wall Sample	Moisture Content	Soil	9/4/2014	12:55	1	4 oz glass jar	4 C	
	CL-PESOIL-W-12	Wall Sample	VOCs	Soil	9/4/2014	13:10	3	Encore	4 C	
	CL-PESOIL-W-12	Wall Sample	Moisture Content	Soil	9/4/2014	13:10	1	4 oz glass jar	4 C	
	CL-PESOIL-W-12A	Wall Sample	VOCs	Soil	9/4/2014	13:13	3	Encore	4 C	
	CL-PESOIL-W-12A	Wall Sample	Moisture Content	Soil	9/4/2014	13:13	1	4 oz glass jar	4 C	
	CL-PESOIL-W-14	Wall Sample	VOCs	Soil	9/4/2014	14:15	3	Encore	4 C	
	CL-PESOIL-W-14	Wall Sample	Moisture Content	Soil	9/4/2014	14:15	1	4 oz glass jar	4 C	
	CL-PESOIL-W-15	Wall Sample	VOCs	Soil	9/4/2014	14:20	3	Encore	4 C	
	CL-PESOIL-W-15	Wall Sample	Moisture Content	Soil	9/4/2014	14:20	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-W-12 and CL-PESOIL-W-12A may have concentration of VOC's as high as 380 ppm.
MS/MSD is assigned to sample number CL-PESOIL-W-11.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Transfers	Rick Merkle	9-4-14/1430	Gez Budhra	09/04/14 1430	

USEPA

DateShipped: 9/9/2014

CarrierName: EPA

AirbillNo: 808434533531

CHAIN OF CUSTODY RECORD

Site #: 2K

Contact Name: Lou DiGuardia

Contact Phone: 732-906-6927

No: Claremont-04

Cooler #: 01

Lab: ERT/SERAS Laboratory

Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-16	Base Sample	VOCs	Soil	9/9/2014	14:20	3	Encore	4 C	
	CL-PESOIL-B-16	Base Sample	Moisture Content	Soil	9/9/2014	14:20	1	4 oz glass jar	4 C	
	CL-PESOIL-B-16	Base Sample	VOCs	Soil	9/9/2014	15:30	9	Encore	4 C	Y
	CL-PESOIL-B-16	Base Sample	Moisture Content	Soil	9/9/2014	15:30	1	4 oz glass jar	4 C	
	CL-PESOIL-W-17	Wall Sample	VOCs	Soil	9/9/2014	13:50	3	Encore	4 C	
	CL-PESOIL-W-17	Wall Sample	Moisture Content	Soil	9/9/2014	13:50	1	4 oz glass jar	4 C	
	CL-PESOIL-W-17A	Wall Sample	VOCs	Soil	9/9/2014	13:52	3	Encore	4 C	
	CL-PESOIL-W-17A	Wall Sample	Moisture Content	Soil	9/9/2014	13:52	1	4 oz glass jar	4 C	

Special Instructions:

NOTE: Sample Numbers CL-PESOIL-B-16, CL-PESOIL-W-17 and CL-PESOIL-W-17A may have concentration of VOC's as high as 300ppm to 400ppm.

MS/MSD is assigned to sample number CL-PESOIL-B-16.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature] ERT, LLC	9-9-14/17:00			

USEPA
DateShipped: 9/16/2014
CarrierName: EPA
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-05
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-19	Base Sample	VOCs	Soil	9/16/2014	09:50	3	Encore	4 C	
	CL-PESOIL-B-19	Base Sample	Moisture Content	Soil	9/16/2014	09:50	1	4 oz glass jar	4 C	
	CL-PESOIL-B-19A	Base Sample	VOCs	Soil	9/16/2014	09:53	3	Encore	4 C	
	CL-PESOIL-B-19A	Base Sample	Moisture Content	Soil	9/16/2014	09:53	1	4 oz glass jar	4 C	
	CL-PESOIL-W-20	Wall Sample	VOCs	Soil	9/16/2014	09:45	9	Encore	4 C	Y
	CL-PESOIL-W-20	Wall Sample	Moisture Content	Soil	9/16/2014	09:45	1	4 oz glass jar	4 C	

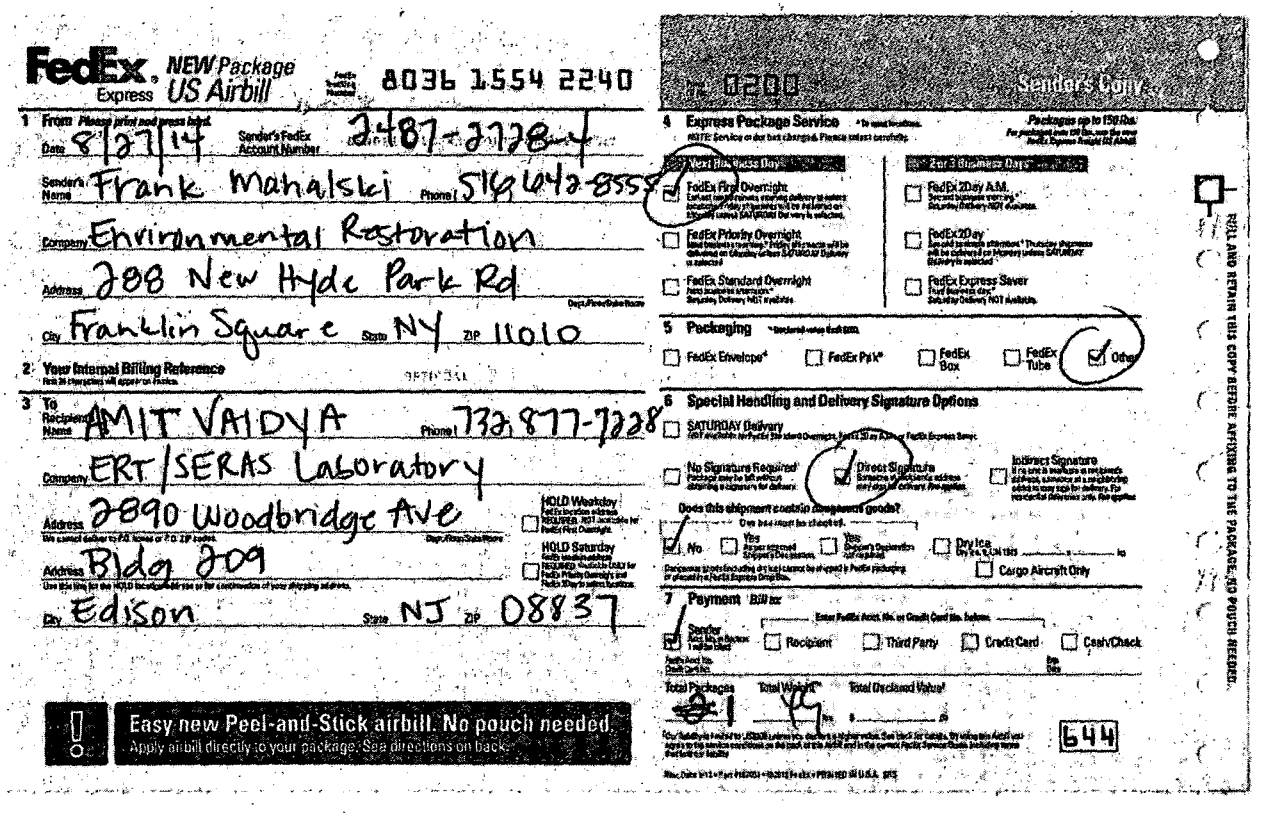
Special Instructions: NOTE: MS/MSD is assigned to sample number CL-PESOIL-W-20.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Paul Mulcahy ERT, LLC	9-16-14/ 10:05			

Attachment B

Fedex Airbills



FedEx Express NEW Package US Airbill

8036 1554 2240

1 From Please print and press hard.
Date 8/27/14 Sender's FedEx Account Number 2487-2728-4
Sender's Name Frank Mahalski Phone 516 642-8555
Company Environmental Restoration
Address 288 New Hyde Park Rd
City Franklin Square State NY ZIP 11010

2 Your Internal Billing Reference

3 To
Recipient's Name AMIT VAIDYA Phone 732 877-7228
Company ERT/SERAS Laboratory
Address 2890 Woodbridge Ave
Address Bldg 209
City Edison State NJ ZIP 08837
HOLD Weekday
HOLD Saturday

Easy new Peel-and-Stick airbill. No pouch needed.
Apply airbill directly to your package. See directions on back.

0200 Sender's Copy

4 Express Package Service
Packages up to 150 lbs.
Next Business Days
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
2nd Business Days
FedEx 2Day A.M.
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?
No Yes Dry Ice Cargo Aircraft Only

7 Payment Bill to:
Sender Recipient Third Party Credit Card Cash/Check
Total Packages 1 Total Weight 4 lbs. Total Declared Value $

644

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE. NO POUCH NEEDED.

FedEx Express *NEW Package US Airbill*

FedEx Tracking Number 8036 1554 2250

Form ID No. 0200 — Sender's Copy

1 From Please print and press hard.

Date 9/3/14 — Sender's FedEx Account Number 2487-2728-4

Sender's Name Frank Mahalski — Phone 516 642-8555

Company Environmental Restoration

Address 288 New Hyde Park Rd

City Franklin Square — State NY — ZIP 11010

2 Your Internal Billing Reference CP2-86

3 To

Recipient's Name Amit Vaidya — Phone 732 877-7228

Company ERT/SERAS Laboratory

Address 2890 Woodbridge Ave

Address Bldg 209

City Edison — State NJ — ZIP 08837

☐ HOLD Weekday ☐ HOLD Saturday

4 Express Package Service — Packages up to 150 lbs.

Next Business Day: ☑ FedEx First Overnight ☐ FedEx Priority Overnight ☐ FedEx Standard Overnight

2 or 3 Business Days: ☐ FedEx 2Day A.M. ☐ FedEx 2Day ☐ FedEx Express Saver

5 Packaging ☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube ☑ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery

☐ No Signature Required ☑ Direct Signature ☐ Indirect Signature

Does this shipment contain dangerous goods? ☑ No ☐ Yes ☐ Yes ☐ Dry Ice ☐ Cargo Aircraft Only

7 Payment Bill to:

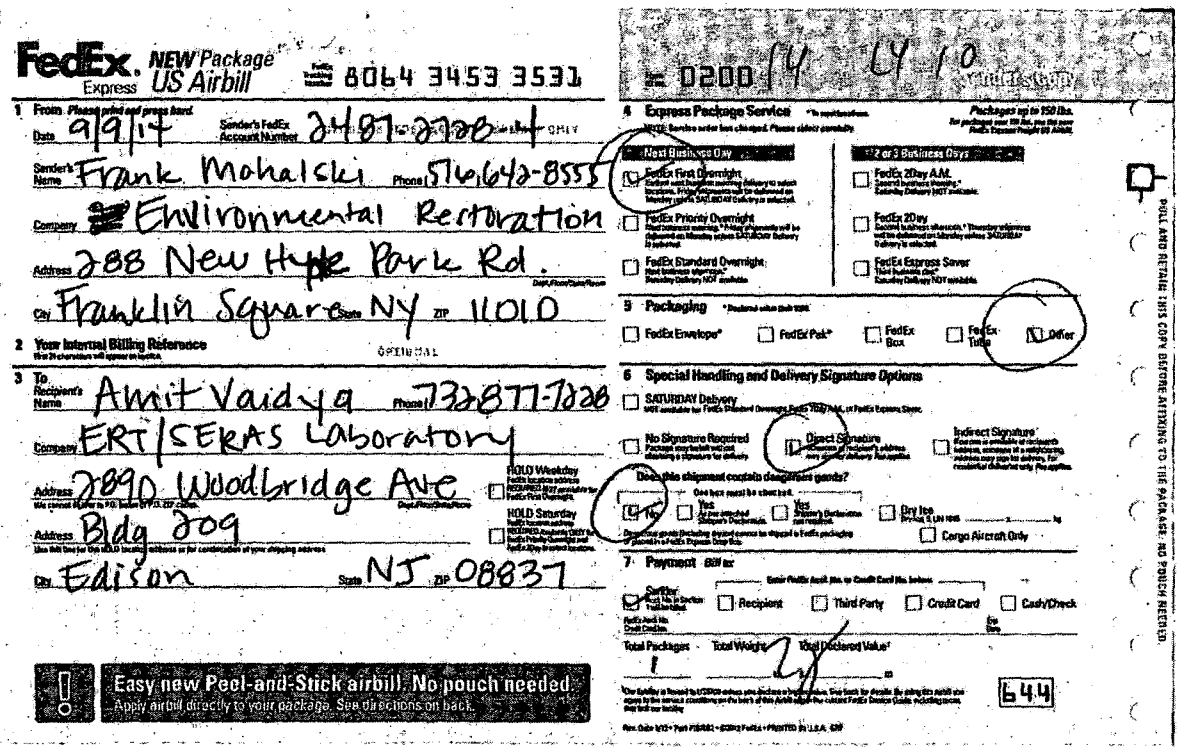
☑ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 2 — Total Weight — Total Declared Value

644

Easy new Peel-and-Stick airbill. No pouch needed. Apply airbill directly to your package. See directions on back.

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE OR POUCH



FedEx Express NEW Package US Airbill 8064 3453 3531

0200 14 CY 10

1 From Please print and press hard.
Date 9/9/17 Sender's FedEx Account Number 2487-2788
Sender's Name Frank Mahalski Phone 516 642-8555
Company Environmental Restoration
Address 288 New Hyde Park Rd.
City Franklin Square State NY ZIP 11010

2 Your Internal Billing Reference
ORIGINAL

3 To
Recipient's Name Amit Vaidya Phone 732 877-7828
Company ERT/SERAS Laboratory
Address 2890 Woodbridge Ave
Address Bldg 209
City Edison State NJ ZIP 08837

HOLD Weekday
HOLD Saturday

4 Express Package Service
Next Business Day
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
2 or 3 Business Days
FedEx 2Day A.M.
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?
No
Yes
Dry Ice
Cargo Aircraft Only

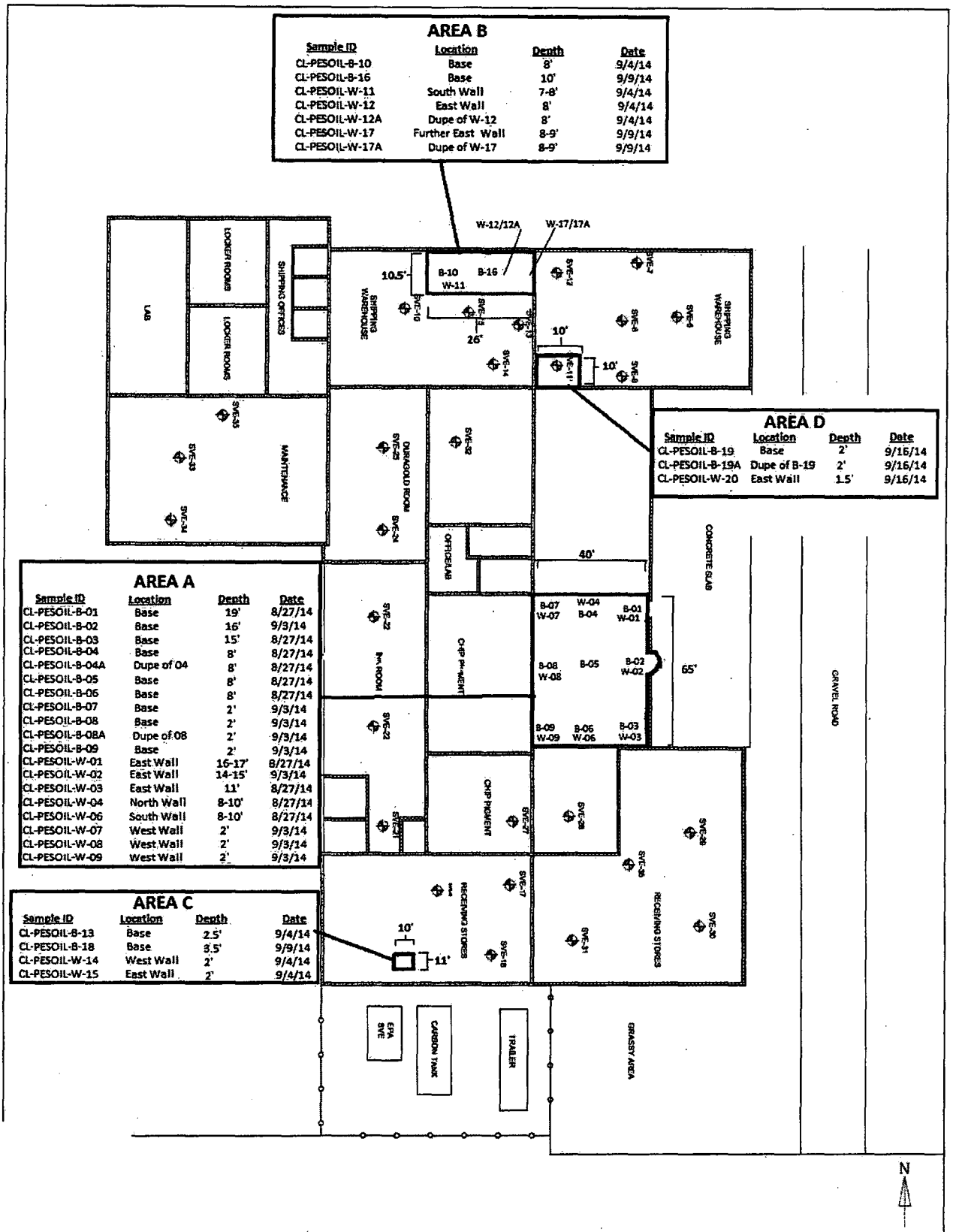
7 Payment Bill to:
Sender
Recipient
Third Party
Credit Card
Cash/Check
Total Packages 1
Total Weight 24
Total Declared Value*
644

Easy new Peel-and-Stick airbill! No pouch needed.
Apply airbill directly to your package. See directions on back.

PULL AND RETAIN THIS COPY BEFORE ATTACHING TO THE PACKAGE. NO POUCH NEEDED.

Attachment C

Sample Location Map



USEPA CLAREMONT POLYCHEMICAL SUPERFUND SITE
FIGURE 3:
AUGUST-SEPTEMBER 2014
POST EXCAVATION SAMPLING LOCATION MAP

-Excavation Areas

Not to Scale

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-79597-2
Client Project/Site: Claremont Polychemical CP2-86 Analytica
Revision: 2

For:
Environmental Restoration LLC
288 New Hyde Park Rd.
Franklin Square, New York 11010

Attn: Mr. Frank Mahalski

Kristin M Beebe

Authorized for release by:
8/13/2014 11:33:56 AM

Kristin Beebe, Project Manager II
(732)593-2555
kristin.beebe@testamericainc.com

Table of Contents

Date: 008/28/14

To: Work Assignment Manager J. Catanzarita, EPA/ERTC

From: Jay Patel, Analytical Support Leader, SERAS.

Subject: Preliminary Results of Project Claremont WA# 0-206

Attached please find the preliminary results of the above referenced project for the following samples:

Chain(s) of Custody No.:Claremont-01

Analysis: VOC

No. of Samples: 10

Matrix: Soils

NOTE: The following samples have not yet been validated.
Electronic files can be found at: I:\Organics\SERAS_After_11-02-2009\Projects\0206 Claremont\VOC\082814

cc Raj Singhvi
Central File
Gerry DePasquale
Analyst: A. Vaidya

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-208 Claremont,

Method: SERAS SOP 1806

Sample Number	Soil Blank B 082814-2		CL-PESOIL-B-03		CL-PESOIL-B-04		CL-PESOIL-B-04A		CL-PESOIL-B-05	
Sample Location:			Base Sample		Base Sample		Base Sample		Base Sample	
SERAS ID:			R408004-02		R408004-03		R408004-04		R408004-05	
Percent_Solids	100		90		98		98		96	
Dilution Factor	1		0.88		1.17		1.12		0.99	
File:	CV6535.D		CV6538.D		CV6539.D		CV6540.D		CV6541.D	
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Chloromethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Vinyl Chloride	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Bromomethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Chloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Trichlorofluoromethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Acetone	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1-Dichloroethene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Methylene Chloride	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Carbon Disulfide	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Methyl tert-Butyl Ether	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
trans-1,2-Dichloroethene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1 Dichloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
2-Butanone	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
2,2-Dichloropropane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
cis-1,2-Dichloroethene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Chloroform	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1-Dichloropropene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2-Dichloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1,1-Trichloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Carbon Tetrachloride	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Benzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Trichloroethene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2-Dichloropropane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Bromodichloromethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Dibromomethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
cis-1,3-Dichloropropene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
trans-1,3-Dichloropropene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1,2-Trichloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,3-Dichloropropane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Dibromochloromethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2-Dibromoethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Bromoform	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
4-Methyl-2-Pentanone	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Toluene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
2-Hexanone	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Tetrachloroethene	U	5.00	4.42 J	4.89	3.19 J	5.97	1.73 J	5.71	1.40 J	5.16
Chlorobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1,1,2-Tetrachloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Ethylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
p&m-Xylene	U	10.0	U	9.78	U	11.9	U	11.4	U	10.3
o-Xylene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Styrene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Isopropylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,1,2,2-Tetrachloroethane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2,3-Trichloropropane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
n-Propylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Bromobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,3,5-Trimethylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
2-Chlorotoluene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
4-Chlorotoluene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
tert-Butylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2,4-Trimethylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
sec-Butylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
p-Isopropyltoluene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,3-Dichlorobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,4-Dichlorobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
n-Butylbenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2-Dichlorobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2-Dibromo-3-Chloropropane	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2,4-Trichlorobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Hexachlorobutadiene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
Naphthalene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16
1,2,3-Trichlorobenzene	U	5.00	U	4.89	U	5.97	U	5.71	U	5.16

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-208 Claremont,

Method: SERAS SOP 1806

Sample Number	Soil Blank B 082814-2	CL-PESOIL-B-06	CL-PESOIL-W-03	CL-PESOIL-W-04	CL-PESOIL-W-06
Sample Location:		Base Sample	Wall Sample	Wall Sample	Wall Sample
SERAS ID:		R408004-06	R408004-08	R408004-09	R408004-10
Percent_Solids	100	87	94	96	95
Dilution Factor	1	1.02	1.01	1.02	1.07
File:	CV6535.D	CV6542.D	CV6543.D	CV6544.D	CV6545.D

Analyte	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg
Dichlorodifluoromethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Chloromethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Vinyl Chloride	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Bromomethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Chloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Trichlorofluoromethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Acetone	U	5.00	U	5.86	U	5.37	3.71 J	5.31	U	5.63
1,1-Dichloroethene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Methylene Chloride	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Carbon Disulfide	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Methyl tert-Butyl Ether	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
trans-1,2-Dichloroethene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,1 Dichloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
2-Butanone	U	5.00	U	5.86	U	5.37	1.37 J	5.31	U	5.63
2,2-Dichloropropane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
cis-1,2-Dichloroethene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Chloroform	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,1-Dichloropropene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2-Dichloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,1,1-Trichloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Carbon Tetrachloride	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Benzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Trichloroethene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2-Dichloropropane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Bromodichloromethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Dibromomethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
cis-1,3-Dichloropropene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
trans-1,3-Dichloropropene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,1,2-Trichloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,3-Dichloropropane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Dibromochloromethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2-Dibromoethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Bromoform	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
4-Methyl-2-Pentanone	U	5.00	U	5.86	U	5.37	0.776 J	5.31	U	5.63
Toluene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
2-Hexanone	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Tetrachloroethene	U	5.00	2.46 J	5.86	1.44 J	5.37	4.96 J	5.31	2.56 J	5.63
Chlorobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,1,1,2-Tetrachloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Ethylbenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
p&m-Xylene	U	10.0	U	11.7	U	10.7	U	10.6	U	11.3
o-Xylene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Styrene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Isopropylbenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,1,2,2-Tetrachloroethane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2,3-Trichloropropane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
n-Propylbenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Bromobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,3,5-Trimethylbenzene	U	5.00	U	5.86	U	5.37	10.4	5.31	U	5.63
2-Chlorotoluene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
4-Chlorotoluene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
tert-Butylbenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2,4-Trimethylbenzene	U	5.00	U	5.86	U	5.37	22.6	5.31	U	5.63
sec-Butylbenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
p-Isopropyltoluene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,3-Dichlorobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,4-Dichlorobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
n-Butylbenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2-Dichlorobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2,4-Trichlorobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Hexachlorobutadiene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
Naphthalene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63
1,2,3-Trichlorobenzene	U	5.00	U	5.86	U	5.37	U	5.31	U	5.63

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-206 Claremont,

Method: SERAS SOP 1806

Sample Number	Soil Blank B 082814-2		CL-PESOIL-B-01		CL-PESOIL-W-01	
Sample Location:			Base Sample		Wall Sample	
SERAS ID:			R408004-01		R408004-07	
Percent_Solids	100		91		91	
Dilution Factor	1		0.99		0.91	
File:	CV6535.D		CV6546.D		CV6547.D	
Analyte	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg	Result µg/Kg	RL µg/Kg
Dichlorodifluoromethane	U	5.00	U	5.44	U	5.00
Chloromethane	U	5.00	U	5.44	U	5.00
Vinyl Chloride	U	5.00	U	5.44	U	5.00
Bromomethane	U	5.00	U	5.44	U	5.00
Chloroethane	U	5.00	U	5.44	U	5.00
Trichlorofluoromethane	U	5.00	U	5.44	U	5.00
Acetone	U	5.00	U	5.44	U	5.00
1,1-Dichloroethene	U	5.00	U	5.44	U	5.00
Methylene Chloride	U	5.00	U	5.44	U	5.00
Carbon Disulfide	U	5.00	U	5.44	U	5.00
Methyl tert-Butyl Ether	U	5.00	U	5.44	U	5.00
trans-1,2-Dichloroethene	U	5.00	U	5.44	U	5.00
1,1 Dichloroethane	U	5.00	U	5.44	U	5.00
2-Butanone	U	5.00	U	5.44	U	5.00
2,2-Dichloropropane	U	5.00	U	5.44	U	5.00
cis-1,2-Dichloroethene	U	5.00	U	5.44	U	5.00
Chloroform	U	5.00	U	5.44	U	5.00
1,1-Dichloropropene	U	5.00	U	5.44	U	5.00
1,2-Dichloroethane	U	5.00	U	5.44	U	5.00
1,1,1-Trichloroethane	U	5.00	U	5.44	U	5.00
Carbon Tetrachloride	U	5.00	U	5.44	U	5.00
Benzene	U	5.00	U	5.44	U	5.00
Trichloroethene	U	5.00	U	5.44	U	5.00
1,2-Dichloropropane	U	5.00	U	5.44	U	5.00
Bromodichloromethane	U	5.00	U	5.44	U	5.00
Dibromomethane	U	5.00	U	5.44	U	5.00
cis-1,3-Dichloropropene	U	5.00	U	5.44	U	5.00
trans-1,3-Dichloropropene	U	5.00	U	5.44	U	5.00
1,1,2-Trichloroethane	U	5.00	U	5.44	U	5.00
1,3-Dichloropropane	U	5.00	U	5.44	U	5.00
Dibromochloromethane	U	5.00	U	5.44	U	5.00
1,2-Dibromoethane	U	5.00	U	5.44	U	5.00
Bromoform	U	5.00	U	5.44	U	5.00
4-Methyl-2-Pentanone	U	5.00	U	5.44	U	5.00
Toluene	U	5.00	U	5.44	U	5.00
2-Hexanone	U	5.00	U	5.44	U	5.00
Tetrachloroethene	U	5.00	1.48 J	5.44	2.59 J	5.00
Chlorobenzene	U	5.00	U	5.44	U	5.00
1,1,1,2-Tetrachloroethane	U	5.00	U	5.44	U	5.00
Ethylbenzene	U	5.00	U	5.44	U	5.00
p&m-Xylene	U	10.0	U	10.9	U	10.0
o-Xylene	U	5.00	U	5.44	U	5.00
Styrene	U	5.00	U	5.44	U	5.00
Isopropylbenzene	U	5.00	1.26 J	5.44	3.34 J	5.00
1,1,2,2-Tetrachloroethane	U	5.00	U	5.44	U	5.00
1,2,3-Trichloropropane	U	5.00	U	5.44	U	5.00
n-Propylbenzene	U	5.00	8.44	5.44	23.5	5.00
Bromobenzene	U	5.00	U	5.44	U	5.00
1,3,5-Trimethylbenzene	U	5.00	4.06 J	5.44	20.8	5.00
2-Chlorotoluene	U	5.00	U	5.44	U	5.00
4-Chlorotoluene	U	5.00	U	5.44	U	5.00
tert-Butylbenzene	U	5.00	U	5.44	U	5.00
1,2,4-Trimethylbenzene	U	5.00	33.2	5.44	101	5.00
sec-Butylbenzene	U	5.00	3.49 J	5.44	8.20	5.00
p-Isopropyltoluene	U	5.00	2.09 J	5.44	5.82	5.00
1,3-Dichlorobenzene	U	5.00	U	5.44	U	5.00
1,4-Dichlorobenzene	U	5.00	U	5.44	U	5.00
n-Butylbenzene	U	5.00	U	5.44	5.84	5.00
1,2-Dichlorobenzene	U	5.00	U	5.44	U	5.00
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.44	U	5.00
1,2,4-Trichlorobenzene	U	5.00	U	5.44	U	5.00
Hexachlorobutadiene	U	5.00	U	5.44	U	5.00
Naphthalene	U	5.00	U	5.44	U	5.00
1,2,3-Trichlorobenzene	U	5.00	U	5.44	U	5.00

USEPA
DateShipped: 8/27/2014
CarrierName: FedEx
AirbillNo: 803615542240

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-01
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

WO#R4080014

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
01	CL-PESOIL-B-01	Base Sample	VOCs	Soil	8/27/2014	10:50	3	Encore	4 C	
↓	CL-PESOIL-B-01	Base Sample	Moisture Content	Soil	8/27/2014	10:50	1	4 oz glass jar	4 C	
02	CL-PESOIL-B-03	Base Sample	VOCs	Soil	8/27/2014	15:30	9	Encore	4 C	Y
↓	CL-PESOIL-B-03	Base Sample	Moisture Content	Soil	8/27/2014	15:30	1	4 oz glass jar	4 C	
03	CL-PESOIL-B-04	Base Sample	VOCs	Soil	8/27/2014	12:30	3	Encore	4 C	
↓	CL-PESOIL-B-04	Base Sample	Moisture Content	Soil	8/27/2014	12:30	1	4 oz glass jar	4 C	
04	CL-PESOIL-B-04A	Base Sample	VOCs	Soil	8/27/2014	12:33	3	Encore	4 C	
↓	CL-PESOIL-B-04A	Base Sample	Moisture Content	Soil	8/27/2014	12:33	1	4 oz glass jar	4 C	
05	CL-PESOIL-B-05	Base Sample	VOCs	Soil	8/27/2014	11:55	3	Encore	4 C	
↓	CL-PESOIL-B-05	Base Sample	Moisture Content	Soil	8/27/2014	11:55	1	4 oz glass jar	4 C	
06	CL-PESOIL-B-06	Base Sample	VOCs	Soil	8/27/2014	16:15	3	Encore	4 C	
↓	CL-PESOIL-B-06	Base Sample	Moisture Content	Soil	8/27/2014	16:15	1	4 oz glass jar	4 C	
07	CL-PESOIL-W-01	Wall Sample	VOCs	Soil	8/27/2014	10:55	3	Encore	4 C	
↓	CL-PESOIL-W-01	Wall Sample	Moisture Content	Soil	8/27/2014	10:55	1	4 oz glass jar	4 C	
08	CL-PESOIL-W-03	Wall Sample	VOCs	Soil	8/27/2014	15:35	3	Encore	4 C	
↓	CL-PESOIL-W-03	Wall Sample	Moisture Content	Soil	8/27/2014	15:35	1	4 oz glass jar	4 C	
09	CL-PESOIL-W-04	Wall Sample	VOCs	Soil	8/27/2014	11:30	3	Encore	4 C	
↓	CL-PESOIL-W-04	Wall Sample	Moisture Content	Soil	8/27/2014	11:30	1	4 oz glass jar	4 C	
10	CL-PESOIL-W-06	Wall Sample	VOCs	Soil	8/27/2014	16:20	3	Encore	4 C	
↓	CL-PESOIL-W-06	Wall Sample	Moisture Content	Soil	8/27/2014	16:20	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-B-01 and CL-PESOIL-W-01may have concentration of VOC's as high as 50 ppm.
MS/MSD is assigned to sample number CL-PESOIL-B-03.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Paul Wodenlek / ERT LLC	8-27-14 18:00	[illegible] / SERAS	8/28/14 8:00	4C Intact
All Analysis	[illegible] / SERAS	8/28/14 8:36	A.F.V. [illegible] / SERAS	08/28/14 8:36	

Date: 09/05/14

To: Work Assignment Manager J. Catanzarita, EPA/ERTC

From: Jay Patel, Analytical Support Leader, SERAS. J. Patel

Subject: Preliminary Results of Project Claremont WA# 0-206

Attached please find the preliminary results of the above referenced project for the following samples:

Chain(s) of Custody No.:Claremont-02 and Claremont-03

Analysis: VOC

No. of Samples: 16

Matrix: Soils

NOTE: The following samples have not yet been validated.
Electronic files can be found at: I:\Organics\SERAS_After_11-02-2009\Projects\0206 Claremont\VOC\090414
Please Note Samples CL-PESOIL-W-12 and CL-PESOIL-W-12A need to be diluted further using Methanol Extraction.

cc Raj Singhvi
Central File
Gerry DePasquale
Analyst: A. Vaidya

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-206 Claremont,

Method: SERAS SOP 1807

Sample Number	Soil Blank C 090414-2	CL-PESOIL-B-07	CL-PESOIL-B-08	CL-PESOIL-B-08A	CL-PESOIL-B-09
Sample Location:		Base Sample	Base Sample	Base Sample	Base Sample
SERAS No.:		R409001-02	R409001-03	R409001-04	R409001-05
Percent_Solids	100	96	97	97	94
Dilution Factor	1	1.02	0.96	0.99	0.92
File:	CV6556.D	CV6559.D	CV6563.D	CV6564.D	CV6565.D

	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Dichlorodifluoromethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Chloromethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Vinyl Chloride	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Bromomethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Chloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Trichlorofluoromethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Acetone	U	5.00	U	5.31	U	4.95	U	5.10	5.80 J	4.89
1,1-Dichloroethene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Methylene Chloride	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Carbon Disulfide	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Methyl tert-Butyl Ether	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
trans-1,2-Dichloroethene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,1 Dichloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
2-Butanone	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
2,2-Dichloropropane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
cis-1,2-Dichloroethene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Chloroform	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,1-Dichloropropene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2-Dichloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,1,1-Trichloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Carbon Tetrachloride	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Benzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Trichloroethene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2-Dichloropropane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Bromodichloromethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Dibromomethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
cis-1,3-Dichloropropene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
trans-1,3-Dichloropropene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,1,2-Trichloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,3-Dichloropropane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Dibromochloromethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2-Dibromoethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Bromoform	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
4-Methyl-2-Pentanone	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Toluene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
2-Hexanone	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Tetrachloroethene	U	5.00	3.74 J	5.31	U	4.95	U	5.10	14.8	4.89
Chlorobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,1,1,2-Tetrachloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Ethylbenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
p&m-Xylene	U	10.0	U	10.6	U	9.90	U	10.2	U	9.79
o-Xylene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Styrene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Isopropylbenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,1,2,2-Tetrachloroethane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2,3-Trichloropropane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
n-Propylbenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Bromobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,3,5-Trimethylbenzene	U	5.00	1.17 J	5.31	U	4.95	U	5.10	U	4.89
2-Chlorotoluene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
4-Chlorotoluene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
tert-Butylbenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2,4-Trimethylbenzene	U	5.00	2.65 J	5.31	U	4.95	U	5.10	2.20 J	4.89
sec-Butylbenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
p-Isopropyltoluene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,3-Dichlorobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,4-Dichlorobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
n-Butylbenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2-Dichlorobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2,4-Trichlorobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Hexachlorobutadiene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
Naphthalene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89
1,2,3-Trichlorobenzene	U	5.00	U	5.31	U	4.95	U	5.10	U	4.89

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-206 Claremont,

Method: SERAS SOP 1807

Sample Number	Soil Blank C 090414-2		CL-PESOIL-W-07		CL-PESOIL-W-08		CL-PESOIL-B-02		CL-PESOIL-W-02	
Sample Location:			Wall Sample		Wall Sample		Base Sample		Wall Sample	
SERAS No.:			R409001-07		R409001-08		R409001-01		R409001-06	
Percent_Solids	100		92		95		91		83	
Dilution Factor	1		0.93		0.95		0.92		1.09	
File:	CV6556.D		CV6566.D		CV6567.D		CV6569.D		CV6570.D	
Analyte	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg
Dichlorodifluoromethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Chloromethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Vinyl Chloride	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Bromomethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Chloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Trichlorofluoromethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Acetone	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,1-Dichloroethene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Methylene Chloride	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Carbon Disulfide	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Methyl tert-Butyl Ether	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
trans-1,2-Dichloroethene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,1 Dichloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
2-Butanone	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
2,2-Dichloropropane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
cis-1,2-Dichloroethene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Chloroform	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,1-Dichloropropene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2-Dichloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,1,1-Trichloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Carbon Tetrachloride	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Benzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Trichloroethene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2-Dichloropropane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Bromodichloromethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Dibromomethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
cis-1,3-Dichloropropene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
trans-1,3-Dichloropropene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,1,2-Trichloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,3-Dichloropropane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Dibromochloromethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2-Dibromoethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Bromoform	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
4-Methyl-2-Pentanone	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Toluene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
2-Hexanone	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Tetrachloroethene	U	5.00	49.4	5.05	79.9	5.00	2.16 J	5.05	1.17 J	6.57
Chlorobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,1,1,2-Tetrachloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Ethylbenzene	U	5.00	U	5.05	U	5.00	0.950 J	5.05	U	6.57
p&m-Xylene	U	10.0	U	10.1	U	10.0	5.62 J	10.1	U	13.1
o-Xylene	U	5.00	U	5.05	2.91 J	5.00	11.5	5.05	U	6.57
Styrene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Isopropylbenzene	U	5.00	U	5.05	1.23 J	5.00	6.45	5.05	U	6.57
1,1,2,2-Tetrachloroethane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2,3-Trichloropropane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
n-Propylbenzene	U	5.00	U	5.05	5.80	5.00	22.7	5.05	U	6.57
Bromobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,3,5-Trimethylbenzene	U	5.00	U	5.05	143	5.00	110	5.05	4.75 J	6.57
2-Chlorotoluene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
4-Chlorotoluene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
tert-Butylbenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2,4-Trimethylbenzene	U	5.00	U	5.05	75.0	5.00	184	5.05	9.13	6.57
sec-Butylbenzene	U	5.00	U	5.05	4.13 J	5.00	8.08	5.05	U	6.57
p-Isopropyltoluene	U	5.00	U	5.05	4.20 J	5.00	8.08	5.05	U	6.57
1,3-Dichlorobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,4-Dichlorobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
n-Butylbenzene	U	5.00	U	5.05	5.72	5.00	8.53	5.05	U	6.57
1,2-Dichlorobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2,4-Trichlorobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Hexachlorobutadiene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
Naphthalene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57
1,2,3-Trichlorobenzene	U	5.00	U	5.05	U	5.00	U	5.05	U	6.57

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-206 Claremont,

Method: SERAS SOP 1807

Sample Number	Soil Blank C 090514-2		CL-PESOIL-B-10		CL-PESOIL-B-13		CL-PESOIL-W-11		CL-PESOIL-W-14	
Sample Location:			Base Sample		Base Sample		Wall Sample		Wall Sample	
SERAS No.:			R409001-10		R409001-11		R409001-12		R409001-15	
Percent_Solids	100		83		91		94		95	
Dilution Factor	1		0.96		0.95		0.93		0.9	
File:	CV6578.D		CV6581.D		CV6582.D		CV6583.D		CV6586.D	
Analyte	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg
Dichlorodifluoromethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Chloromethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Vinyl Chloride	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Bromomethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Chloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Trichlorofluoromethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Acetone	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1-Dichloroethene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Methylene Chloride	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Carbon Disulfide	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Methyl tert-Butyl Ether	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
trans-1,2-Dichloroethene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1 Dichloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
2-Butanone	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
2,2-Dichloropropane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
cis-1,2-Dichloroethene	U	5.00	3.03 J	5.78	U	5.22	U	4.95	U	4.74
Chloroform	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1-Dichloropropene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2-Dichloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1,1-Trichloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Carbon Tetrachloride	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Benzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Trichloroethene	U	5.00	3.47 J	5.78	2.84 J	5.22	U	4.95	U	4.74
1,2-Dichloropropane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Bromodichloromethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Dibromomethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
cis-1,3-Dichloropropene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
trans-1,3-Dichloropropene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1,2-Trichloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,3-Dichloropropane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Dibromochloromethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2-Dibromoethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Bromoform	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
4-Methyl-2-Pentanone	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Toluene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
2-Hexanone	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Tetrachloroethene	U	5.00	6.13	5.78	1450	52.2	7.95	4.95	25.4	4.74
Chlorobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1,1,2-Tetrachloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Ethylbenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
p&m-Xylene	U	10.0	U	11.6	U	10.4	U	9.89	U	9.47
o-Xylene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Styrene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Isopropylbenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,1,2,2-Tetrachloroethane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2,3-Trichloropropane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
n-Propylbenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Bromobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,3,5-Trimethylbenzene	U	5.00	U	5.78	U	5.22	1.48 J	4.95	U	4.74
2-Chlorotoluene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
4-Chlorotoluene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
tert-Butylbenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2,4-Trimethylbenzene	U	5.00	U	5.78	U	5.22	4.79 J	4.95	U	4.74
sec-Butylbenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
p-Isopropyltoluene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,3-Dichlorobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,4-Dichlorobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
n-Butylbenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2-Dichlorobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2,4-Trichlorobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Hexachlorobutadiene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
Naphthalene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74
1,2,3-Trichlorobenzene	U	5.00	U	5.78	U	5.22	U	4.95	U	4.74

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-206 Claremont,

Method: SERAS SOP 1807

Sample Number	Soil Blank C 090514-2		CL-PESOIL-W-15		CL-PESOIL-W-12		CL-PESOIL-W-12A		CL-PESOIL-W-09	
Sample Location:			Wall Sample		Wall Sample		Wall Sample		Wall Sample	
SERAS No.:			R409001-16		R409001-13		R409001-14		R409001-09	
Percent_Solids	100		94		88		88		92	
Dilution Factor	1		0.95		10		10		0.96	
File:	CV6578.D		CV6587.D		CV6589.D		CV6590.D		CV6593.D	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Analyte	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dichlorodifluoromethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Chloromethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Vinyl Chloride	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Bromomethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Chloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Trichlorofluoromethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Acetone	U	5.00	22.7	5.05	U	56.8	U	56.8	U	5.22
1,1-Dichloroethene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Methylene Chloride	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Carbon Disulfide	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Methyl tert-Butyl Ether	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
trans-1,2-Dichloroethene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,1 Dichloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
2-Butanone	U	5.00	1.65 J	5.05	U	56.8	U	56.8	U	5.22
2,2-Dichloropropane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
cis-1,2-Dichloroethene	U	5.00	1.78 J	5.05	10.7 J	56.8	93.0	56.8	U	5.22
Chloroform	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,1-Dichloropropene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,2-Dichloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,1,1-Trichloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Carbon Tetrachloride	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Benzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Trichloroethene	U	5.00	1.11 J	5.05	71.6	56.8	3590 E	56.8	1.65 J	5.22
1,2-Dichloropropane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Bromodichloromethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Dibromomethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
cis-1,3-Dichloropropene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
trans-1,3-Dichloropropene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,1,2-Trichloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,3-Dichloropropane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Dibromochloromethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,2-Dibromoethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Bromoform	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
4-Methyl-2-Pentanone	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Toluene	U	5.00	U	5.05	50.3 J	56.8	2500 E	56.8	U	5.22
2-Hexanone	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Tetrachloroethene	U	5.00	87.8	5.05	881	56.8	27400 E	56.8	64.4	5.22
Chlorobenzene	U	5.00	U	5.05	U	56.8	149	56.8	U	5.22
1,1,1,2-Tetrachloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Ethylbenzene	U	5.00	U	5.05	U	56.8	164	56.8	U	5.22
p&m-Xylene	U	10.0	U	10.1	U	114	1270	114	U	10.4
o-Xylene	U	5.00	U	5.05	86.3	56.8	4540 E	56.8	U	5.22
Styrene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Isopropylbenzene	U	5.00	U	5.05	112	56.8	3270 E	56.8	U	5.22
1,1,2,2-Tetrachloroethane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,2,3-Trichloropropane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
n-Propylbenzene	U	5.00	U	5.05	449	56.8	9290 E	56.8	U	5.22
Bromobenzene	U	5.00	U	5.05	U	56.8	U	56.8	0.772 J	5.22
1,3,5-Trimethylbenzene	U	5.00	U	5.05	1290	56.8	39200 E	56.8	1.65 J	5.22
2-Chlorotoluene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
4-Chlorotoluene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
tert-Butylbenzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,2,4-Trimethylbenzene	U	5.00	U	5.05	3610 E	56.8	23000 E	56.8	6.30	5.22
sec-Butylbenzene	U	5.00	U	5.05	80.6	56.8	1040	56.8	U	5.22
p-Isopropyltoluene	U	5.00	U	5.05	72.4	56.8	995	56.8	U	5.22
1,3-Dichlorobenzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,4-Dichlorobenzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
n-Butylbenzene	U	5.00	U	5.05	80.5	56.8	1010	56.8	U	5.22
1,2-Dichlorobenzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
1,2,4-Trichlorobenzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Hexachlorobutadiene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22
Naphthalene	U	5.00	U	5.05	U	56.8	121	56.8	U	5.22
1,2,3-Trichlorobenzene	U	5.00	U	5.05	U	56.8	U	56.8	U	5.22

USEPA
DateShipped: 9/4/2014
CarrierName: EPA
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-03
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-10	Base Sample	VOCs	Soil	9/4/2014	13:05	3	Encore	4 C	
	CL-PESOIL-B-10	Base Sample	Moisture Content	Soil	9/4/2014	13:05	1	4 oz glass jar	4 C	
	CL-PESOIL-B-13	Base Sample	VOCs	Soil	9/4/2014	14:10	3	Encore	4 C	
	CL-PESOIL-B-13	Base Sample	Moisture Content	Soil	9/4/2014	14:10	1	4 oz glass jar	4 C	
	CL-PESOIL-W-11	Wall Sample	VOCs	Soil	9/4/2014	12:55	9	Encore	4 C	Y
	CL-PESOIL-W-11	Wall Sample	Moisture Content	Soil	9/4/2014	12:55	1	4 oz glass jar	4 C	
	CL-PESOIL-W-12	Wall Sample	VOCs	Soil	9/4/2014	13:10	3	Encore	4 C	
	CL-PESOIL-W-12	Wall Sample	Moisture Content	Soil	9/4/2014	13:10	1	4 oz glass jar	4 C	
	CL-PESOIL-W-12A	Wall Sample	VOCs	Soil	9/4/2014	13:13	3	Encore	4 C	
	CL-PESOIL-W-12A	Wall Sample	Moisture Content	Soil	9/4/2014	13:13	1	4 oz glass jar	4 C	
	CL-PESOIL-W-14	Wall Sample	VOCs	Soil	9/4/2014	14:15	3	Encore	4 C	
	CL-PESOIL-W-14	Wall Sample	Moisture Content	Soil	9/4/2014	14:15	1	4 oz glass jar	4 C	
	CL-PESOIL-W-15	Wall Sample	VOCs	Soil	9/4/2014	14:20	3	Encore	4 C	
	CL-PESOIL-W-15	Wall Sample	Moisture Content	Soil	9/4/2014	14:20	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-W-12 and CL-PESOIL-W-12A may have concentration of VOC's as high as 380 ppm.
MS/MSD is assigned to sample number CL-PESOIL-W-11.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Transfer	[signature]	9-4-14/14:20	Gez Bushra	09/04/14 1430	
All Transfer	Gez Bushra	09/04/14 1625	[signature] /SERAS	9/4/14 16:25	Intact 4°C

USEPA
DateShipped: 9/4/2014
CarrierName: EPA
AirbillNo:
WO# R4090001

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-03
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
10	CL-PESOIL-B-10	Base Sample	VOCs	Soil	9/4/2014	13:05	3	Encore	4 C	
↓	CL-PESOIL-B-10	Base Sample	Moisture Content	Soil	9/4/2014	13:05	1	4 oz glass jar	4 C	
11	CL-PESOIL-B-13	Base Sample	VOCs	Soil	9/4/2014	14:10	3	Encore	4 C	
↓	CL-PESOIL-B-13	Base Sample	Moisture Content	Soil	9/4/2014	14:10	1	4 oz glass jar	4 C	
12	CL-PESOIL-W-11	Wall Sample	VOCs	Soil	9/4/2014	12:55	9	Encore	4 C	Y
↓	CL-PESOIL-W-11	Wall Sample	Moisture Content	Soil	9/4/2014	12:55	1	4 oz glass jar	4 C	
13	CL-PESOIL-W-12	Wall Sample	VOCs	Soil	9/4/2014	13:10	3	Encore	4 C	
↓	CL-PESOIL-W-12	Wall Sample	Moisture Content	Soil	9/4/2014	13:10	1	4 oz glass jar	4 C	
14	CL-PESOIL-W-12A	Wall Sample	VOCs	Soil	9/4/2014	13:13	3	Encore	4 C	
↓	CL-PESOIL-W-12A	Wall Sample	Moisture Content	Soil	9/4/2014	13:13	1	4 oz glass jar	4 C	
15	CL-PESOIL-W-14	Wall Sample	VOCs	Soil	9/4/2014	14:15	3	Encore	4 C	
↓	CL-PESOIL-W-14	Wall Sample	Moisture Content	Soil	9/4/2014	14:15	1	4 oz glass jar	4 C	
16	CL-PESOIL-W-15	Wall Sample	VOCs	Soil	9/4/2014	14:20	3	Encore	4 C	
↓	CL-PESOIL-W-15	Wall Sample	Moisture Content	Soil	9/4/2014	14:20	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-W-12 and CL-PESOIL-W-12A may have concentration of VOC's as high as 380 ppm.
MS/MSD is assigned to sample number CL-PESOIL-W-11.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Transfer	Rich Nesbit	9-4-14/14:20	Gez Bushra	09/04/14 1430	
All Transfer	Gez Bushra	09/04/14 1625	Tony Stevens/SERAS	9/4/14 16:25	Intact 4°C

Date: 09/10/14

To: Work Assignment Manager J. Catanzarita, EPA/ERTC

From: Jay Patel, Analytical Support Leader, SERAS. JP for Jay Patel

Subject: Preliminary Results of Project Claremont WA# 0-206

Attached please find the preliminary results of the above referenced project for the following samples:

Chain(s) of Custody No.:Claremont-04

Analysis: VOC

No. of Samples: 04

Matrix: Soils

NOTE: The following samples have not yet been validated.
Electronic files can be found at: I:\Organics\SERAS_After_11-02-2009\Projects\0206 Claremont\VOC\091014
Please Note Samples CL-PESOIL-W-17 and CL-PESOIL-W-17A need to be diluted further and will also need Methanol Extraction.

cc Raj Singhvi
Central File
Gerry DePasquale
Analyst: A. Vaidya

Table 1.1 Result of the Analysis for VOC in Soil
WA # 0-206 Claremont,

Method: SERAS SOP 1807

Sample Number	Soil Blank C 091014-1	CL-PESOIL-B-18	CL-PESOIL-B-16	CL-PESOIL-W-17	CL-PESOIL-W-17A
Sample Location:		Base Sample	Base Sample	Wall Sample	Wall Sample
SERAS ID:		R409002-02	R409002-01	R409002-03	R409002-04
Percent_Solids	100	87	93	91	86
Dilution Factor	1	0.97	0.96	1.03	0.93
File:	CV6600.D	CV6603.D	CV6604.D	CV6605.D	CV6606.D

Analyte	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg
Dichlorodifluoromethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Chloromethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Vinyl Chloride	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Bromomethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Chloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Trichlorofluoromethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Acetone	U	5.00	U	5.57	4.53 J	5.16	4.29 J	5.66	12.7	5.41
1,1-Dichloroethene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Methylene Chloride	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Carbon Disulfide	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Methyl tert-Butyl Ether	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
trans-1,2-Dichloroethene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,1 Dichloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
2-Butanone	U	5.00	U	5.57	U	5.16	U	5.66	2.47 J	5.41
2,2-Dichloropropane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
cis-1,2-Dichloroethene	U	5.00	U	5.57	U	5.16	U	5.66	5.89	5.41
Chloroform	U	5.00	1.55 J	5.57	1.00 J	5.16	1.28 J	5.66	1.58 J	5.41
1,1-Dichloropropene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,2-Dichloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,1,1-Trichloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Carbon Tetrachloride	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Benzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Trichloroethene	U	5.00	U	5.57	U	5.16	2.30 J	5.66	19.7	5.41
1,2-Dichloropropane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Bromodichloromethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Dibromomethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
cis-1,3-Dichloropropene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
trans-1,3-Dichloropropene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,1,2-Trichloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,3-Dichloropropane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Dibromochloromethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,2-Dibromoethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Bromoform	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
4-Methyl-2-Pentanone	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Toluene	U	5.00	U	5.57	U	5.16	6.29	5.66	79.4	5.41
2-Hexanone	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Tetrachloroethene	U	5.00	80.6	5.57	U	5.16	160	5.66	514 E	5.41
Chlorobenzene	U	5.00	U	5.57	1.26 J	5.16	13.8	5.66	22.1	5.41
1,1,1,2-Tetrachloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Ethylbenzene	U	5.00	U	5.57	U	5.16	1.69 J	5.66	5.27 J	5.41
p&m-Xylene	U	10.0	U	11.1	U	10.3	16.3	11.3	45.7	10.8
o-Xylene	U	5.00	U	5.57	U	5.16	77.9	5.66	240 E	5.41
Styrene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Isopropylbenzene	U	5.00	U	5.57	U	5.16	112	5.66	312 E	5.41
1,1,2,2-Tetrachloroethane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,2,3-Trichloropropane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
n-Propylbenzene	U	5.00	U	5.57	2.91 J	5.16	341 E	5.66	892 E	5.41
Bromobenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,3,5-Trimethylbenzene	U	5.00	U	5.57	23.0	5.16	905 E	5.66	1800 E	5.41
2-Chlorotoluene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
4-Chlorotoluene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
tert-Butylbenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,2,4-Trimethylbenzene	U	5.00	U	5.57	76.5	5.16	2020 E	5.66	2690 E	5.41
sec-Butylbenzene	U	5.00	U	5.57	2.13 J	5.16	77.9	5.66	190	5.41
p-Isopropyltoluene	U	5.00	U	5.57	2.06 J	5.16	76.4	5.66	219 E	5.41
1,3-Dichlorobenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,4-Dichlorobenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
n-Butylbenzene	U	5.00	U	5.57	2.56 J	5.16	80.9	5.66	218 E	5.41
1,2-Dichlorobenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
1,2,4-Trichlorobenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Hexachlorobutadiene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41
Naphthalene	U	5.00	U	5.57	3.44 J	5.16	5.29 J	5.66	14.3	5.41
1,2,3-Trichlorobenzene	U	5.00	U	5.57	U	5.16	U	5.66	U	5.41

USEPA
DateShipped: 9/9/2014
CarrierName: EPA
AirbillNo: 805434533531
WO# R4090002

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-04
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
01	CL-PESOIL-B-16	Base Sample	VOCs	Soil	9/9/2014	14:20	3	Encore	4 C	
↓	CL-PESOIL-B-16	Base Sample	Moisture Content	Soil	9/9/2014	14:20	1	4 oz glass jar	4 C	
02	CL-PESOIL-B-18	Base Sample	VOCs	Soil	9/9/2014	15:30	9	Encore	4 C	Y
↓	CL-PESOIL-B-18	Base Sample	Moisture Content	Soil	9/9/2014	15:30	1	4 oz glass jar	4 C	
03	CL-PESOIL-W-17	Wall Sample	VOCs	Soil	9/9/2014	13:50	3	Encore	4 C	
↓	CL-PESOIL-W-17	Wall Sample	Moisture Content	Soil	9/9/2014	13:50	1	4 oz glass jar	4 C	
04	CL-PESOIL-W-17A	Wall Sample	VOCs	Soil	9/9/2014	13:52	3	Encore	4 C	
↓	CL-PESOIL-W-17A	Wall Sample	Moisture Content	Soil	9/9/2014	13:52	1	4 oz glass jar	4 C	

Special Instructions:
NOTE: Sample Numbers CL-PESOIL-B-16, CL-PESOIL-W-17 and CL-PESOIL-W-17A may have concentration of VOC's as high as 300ppm to 400ppm.
MS/MSD is assigned to sample number CL-PESOIL-B-18.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature] ERT, LLC	9-9-14/17:00	[signature] /SERAS	9/10/14 8:30	Intact 2°C
All Analysis	[signature] /SERAS	9/10/14 9:05	A + V Lee /SERAS	9/10/14 9:05	

Date: 09/16/14

To: Work Assignment Manager J. Catanzarita, EPA/ERTC

From: Jay Patel, Analytical Support Leader, SERAS. For Jay Patel

Subject: Preliminary Results of Project Claremont WA# 0-206

Attached please find the preliminary results of the above referenced project for the following samples:

Chain(s) of Custody No.:Claremont-05

Analysis: VOC

No. of Samples: 03

Matrix: Soils

NOTE: The following samples have not yet been validated.
Electronic files can be found at: I:\Organics\SERAS_After_11-02-2009\Projects\0206 Claremont\VOC\091614

cc Raj Singhvi
Central File
Gerry DePasquale
Analyst: A. Vaidya

Table 1.1 Result of the Analysis for VOC in Soil
WA # 206 Claremont.

Method: SERAS SOP 1807

Sample Number	Soil Blank C 091614-2		CL-PESOIL-B-19		CL-PESOIL-B-19A		CL-PESOIL-W-20	
Sample Location:			Base Sample		Base Sample		Wall Sample	
SERAS ID:								
Percent_Solids	100		96		96		95	
Dilution Factor	1		1.22		1.13		0.96	
File:	CV6617.D		CV6619.D		CV6620.D		CV6621.D	
Analyte	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg	Result ug/Kg	RL ug/Kg
Dichlorodifluoromethane	U	5.00	U	6.35	U	5.89	U	5.05
Chloromethane	U	5.00	U	6.35	U	5.89	U	5.05
Vinyl Chloride	U	5.00	U	6.35	U	5.89	U	5.05
Bromomethane	U	5.00	U	6.35	U	5.89	U	5.05
Chloroethane	U	5.00	U	6.35	U	5.89	U	5.05
Trichlorofluoromethane	U	5.00	U	6.35	U	5.89	U	5.05
Acetone	U	20.0	3.44 J	25.4	3.23 J	23.5	7.59 J	20.2
1,1-Dichloroethene	U	5.00	U	6.35	U	5.89	U	5.05
Methylene Chloride	U	5.00	U	6.35	U	5.89	U	5.05
Carbon Disulfide	U	5.00	U	6.35	U	5.89	U	5.05
Methyl tert-Butyl Ether	U	5.00	U	6.35	U	5.89	U	5.05
trans-1,2-Dichloroethene	U	5.00	U	6.35	U	5.89	U	5.05
1,1 Dichloroethane	U	5.00	U	6.35	U	5.89	U	5.05
2-Butanone	U	5.00	U	6.35	U	5.89	U	5.05
2,2-Dichloropropane	U	5.00	U	6.35	U	5.89	U	5.05
cis-1,2-Dichloroethene	U	5.00	U	6.35	U	5.89	U	5.05
Chloroform	1.45 J	5.00	1.61 B	6.35	1.81 B	5.89	1.35 B	5.05
1,1-Dichloropropene	U	5.00	U	6.35	U	5.89	U	5.05
1,2-Dichloroethane	U	5.00	U	6.35	U	5.89	U	5.05
1,1,1-Trichloroethane	U	5.00	U	6.35	U	5.89	U	5.05
Carbon Tetrachloride	U	5.00	U	6.35	U	5.89	U	5.05
Benzene	U	5.00	U	6.35	U	5.89	U	5.05
Trichloroethene	U	5.00	U	6.35	U	5.89	U	5.05
1,2-Dichloropropane	U	5.00	U	6.35	U	5.89	U	5.05
Bromodichloromethane	U	5.00	U	6.35	U	5.89	U	5.05
Dibromomethane	U	5.00	U	6.35	U	5.89	U	5.05
cis-1,3-Dichloropropene	U	5.00	U	6.35	U	5.89	U	5.05
trans-1,3-Dichloropropene	U	5.00	U	6.35	U	5.89	U	5.05
1,1,2-Trichloroethane	U	5.00	U	6.35	U	5.89	U	5.05
1,3-Dichloropropane	U	5.00	U	6.35	U	5.89	U	5.05
Dibromochloromethane	U	5.00	U	6.35	U	5.89	U	5.05
1,2-Dibromoethane	U	5.00	U	6.35	U	5.89	U	5.05
Bromoform	U	5.00	U	6.35	U	5.89	U	5.05
4-Methyl-2-Pentanone	U	5.00	U	6.35	U	5.89	U	5.05
Toluene	U	5.00	U	6.35	U	5.89	U	5.05
2-Hexanone	U	5.00	U	6.35	U	5.89	U	5.05
Tetrachloroethene	U	5.00	7.90	6.35	32.1	5.89	24.9	5.05
Chlorobenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,1,1,2-Tetrachloroethane	U	5.00	U	6.35	U	5.89	U	5.05
Ethylbenzene	U	5.00	U	6.35	U	5.89	U	5.05
p&m-Xylene	U	10.0	U	12.7	U	11.8	U	10.1
o-Xylene	U	5.00	U	6.35	U	5.89	U	5.05
Styrene	U	5.00	U	6.35	U	5.89	U	5.05
Isopropylbenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,1,2,2-Tetrachloroethane	U	5.00	U	6.35	U	5.89	U	5.05
1,2,3-Trichloropropane	U	5.00	U	6.35	U	5.89	U	5.05
n-Propylbenzene	U	5.00	U	6.35	U	5.89	U	5.05
Bromobenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,3,5-Trimethylbenzene	U	5.00	2.36 J	6.35	2.93 J	5.89	1.30 J	5.05
2-Chlorotoluene	U	5.00	U	6.35	U	5.89	U	5.05
4-Chlorotoluene	U	5.00	U	6.35	U	5.89	U	5.05
tert-Butylbenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,2,4-Trimethylbenzene	U	5.00	4.02 J	6.35	5.32 J	5.89	2.57 J	5.05
sec-Butylbenzene	U	5.00	U	6.35	U	5.89	U	5.05
p-Isopropyltoluene	U	5.00	U	6.35	U	5.89	U	5.05
1,3-Dichlorobenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,4-Dichlorobenzene	U	5.00	U	6.35	U	5.89	U	5.05
n-Butylbenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,2-Dichlorobenzene	U	5.00	U	6.35	U	5.89	U	5.05
1,2-Dibromo-3-Chloropropane	U	5.00	U	6.35	U	5.89	U	5.05
1,2,4-Trichlorobenzene	U	5.00	U	6.35	U	5.89	U	5.05
Hexachlorobutadiene	U	5.00	U	6.35	U	5.89	U	5.05
Naphthalene	U	5.00	4.33 J	6.35	U	5.89	U	5.05
1,2,3-Trichlorobenzene	U	5.00	1.83 J	6.35	U	5.89	U	5.05

USEPA
DateShipped: 9/16/2014
CarrierName: EPA
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 2K
Contact Name: Lou DiGuardia
Contact Phone: 732-906-6927

No: Claremont-05
Cooler #: 01
Lab: ERT/SERAS Laboratory
Lab Phone: 732-877-7228

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	CL-PESOIL-B-19	Base Sample	VOCs	Soil	9/16/2014	09:50	3	Encore	4 C	
	CL-PESOIL-B-19	Base Sample	Moisture Content	Soil	9/16/2014	09:50	1	4 oz glass jar	4 C	
	CL-PESOIL-B-19A	Base Sample	VOCs	Soil	9/16/2014	09:53	3	Encore	4 C	
	CL-PESOIL-B-19A	Base Sample	Moisture Content	Soil	9/16/2014	09:53	1	4 oz glass jar	4 C	
	CL-PESOIL-W-20	Wall Sample	VOCs	Soil	9/16/2014	09:45	9	Encore	4 C	Y
	CL-PESOIL-W-20	Wall Sample	Moisture Content	Soil	9/16/2014	09:45	1	4 oz glass jar	4 C	

Special Instructions: NOTE: MS/MSD is assigned to sample number CL-PESOIL-W-20.

Temp 4°C (Ice)

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Paul Mahaffie ERT LLC	9-16-14 10:05	[signature]	9-16-14 1415	Intact