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**COMPLETION CERTIFICATION REPORT
INTERIM CORRECTIVE MEASURE:
SOIL EXCAVATION RECREATION AREA**

**Former Texaco Research Center
Beacon (Glenham), New York**

Site ID #314004
RCRA Permit #3-1330-00048/16-0

Prepared For:



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OCTOBER 2006

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TRANSMITTAL

TO: Paul Patel, P.E.

Bureau of Radiation and Hazardous Waste Management

Division of Solid and Hazardous Materials

New York State Department of Environmental Conservation

625 Broadway, Albany, NY 12233-7252

Date: 11/21/2006

Job No.: 442044

RE: Former Texaco Research Center

Beacon, New York

Site ID #314004

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☐ Shop drawings ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

Dated: _____ ☐ Change Order

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1			Disk containing PDF version of the Report

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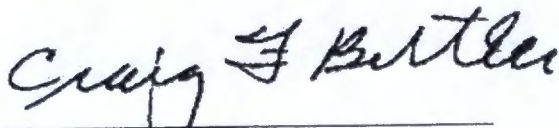
SIGNED: Jeffrey Poulsen, CPG

If enclosures are not as noted, please notify us at once.

ENGINEER'S CERTIFICATION

Certification of Completion

I certify that the Interim Corrective Measure has been completed as described in this document and in accordance with the Final Work Plan Interim Corrective Measure: Soil Excavation Recreation Area dated October 2005 and approved by the NYSDEC in a letter dated September 06, 2005. This area was included in the Part 373 Hazardous Waste Management Permit (NYSDEC ID No. 3-1330-48/16-0; U.S. EPA Identification No. NYD091894899) held by Chevron.



Craig F. Butler, P.E.

New York, No. 080807

Parsons

October 11, 2005

Date

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SECTION 1 INTRODUCTION

1.1 BACKGROUND

Chevron Corporation (Chevron, formerly Texaco, Inc.) operated a Research Center in Glenham, New York from 1931 until the facility closure in 2003. In 1985, Chevron completed the assessment and remediation of an area of the Research Center property ("the Property") referred to as the Recreation Area, which was utilized for waste disposal until the late 1970's. This portion of the Property was designated by the New York State Department of Environmental Conservation (NYSDEC) as a Class 2 New York State Inactive Hazardous Waste Site (IHWS). A Class 2 designation signifies a site that is a significant threat to the environment or public health, and requires remedial action (6 New York Code of Rules and Regulations [NYCRR] Part 375).

The Recreation Area was reclassified to Class 4 in the mid-1990s, defined as a site that "has been properly closed but requires continued operation, maintenance, and/or monitoring" (6 NYCRR Part 375). Ongoing groundwater monitoring activities have been conducted at the Recreation Area in compliance with Class 4 requirements.

Chevron petitioned the NYSDEC to remove (delist) the site from the IHWS Registry in November, 2000. The NYSDEC's response, developed in concert with the New York State Health Department (NYSDOH), was received in a letter dated May 2001, and required that additional sampling be completed to confirm existing site conditions. Several Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) sampling events were completed in order to provide data regarding site soil and groundwater conditions to support the delisting petition. Residual chemical constituents were detected in soils in three areas in the Recreation Area. In October 2005, the NYSDEC approved the proposed Interim Corrective Measure (ICM) proposed for the Site (Parsons 2005a).

This report contains a summary of the ICM completed at the Recreation Area from November 2005 through April 2006.

1.2 SITE HISTORY

The Property is located on approximately 140 acres of land in the Town of Fishkill, New York (Figure 1-1). The Property has been used as an on-shore, non-production, non-transportation laboratory complex engaged in research, development, and technical services related to petroleum products and energy. Petroleum, coal products, and solvents have been used at the Property in connection with the research functions. The Property is located in Dutchess County, Town of Fishkill, immediately east of the City of Beacon, on land zoned as "Planned Industrial" by the County. The main portion of the Research Center is located on approximately 50 acres of land north of the Fishkill Creek. The Recreation Area portion of the Property is located on approximately 90 acres of land south of the Fishkill Creek.

The Recreation Area was listed as an IHWS due to the former use of isolated portions of the Property as a disposal site. The Recreation Area included a sludge

lagoon, a "new" sludge lagoon permitted under RCRA Part B status, three chemical burial sites, a disposal pit, and a container disposal site. Additionally, four areas were identified which contained a variety of non-hazardous materials, which were referred to as Trash Piles "A" through "D". These four separate areas were utilized for the disposal of non-hazardous materials during the history of the facility. Materials disposed in these locations primarily consisted of wood and metal debris, grass clippings, old empty drums, and general trash. Trash Pile "D", one of the four disposal sites, and Chemical Burial Sites #1 and #3 (CBS-1 and CBS -3) were the focus of this ICM.

1.3 PREVIOUS INVESTIGATIONS

A *Soil and Groundwater Sampling Plan* was prepared by IT Group in July 2001 and approved by NYSDEC and NYSDOH. The Sampling Plan was conducted between August 21 and 23, 2001, and included a comprehensive sampling program to investigate 14 areas within the Recreation Area. The results were reported in a *Soil Sampling Report* prepared by IT Group, dated April 16, 2002.

Of the 14 areas investigated, the chemical data from most sample locations showed non-detectable or trace levels of chemical constituents. However, in a few areas, chemical constituents were detected in soil at concentrations exceeding the NYSDEC Technical and Administrative Guidance Memo (TAGM) 4046 recommended soil cleanup objectives (RSCOs). The highest concentrations of chemical constituents in soils were detected in the subsurface in the area of former Trash Pile "D". CBS-1 and CBS-3 were also identified as areas of concern due to the presence of polycyclic aromatic hydrocarbon (PAH) concentrations exceeding NYSDEC standards in surface soils.

A work plan titled *Sampling and Analysis Plan to Delineate Soil Impact Areas*, dated November 27, 2002, was prepared by MWH Americas, Inc. (MWH) to further delineate chemical impacts in soil in the Trash Pile "D" area. The work plan was presented to and approved by the NYSDEC (MWH, 2002). MWH was advised by the NYSDEC to delay the delineation of surficial semi-volatile organic compound (SVOC) impacts at the Recreation Area until a sampling strategy acceptable to both NYSDEC and NYSDOH could be developed.

The subsurface soil investigation field work was completed at the Trash Pile "D" area between December 11 and December 14, 2002. A total of 26 soil borings (MWHSB-57 through MWHSB-82) were installed to delineate chemical impacts related to the "hot spot" boring (ITSB-42) detected during the 2001 sampling. During this phase of investigation, boring MWHSB-58 was installed at the approximate location of previous boring ITSB-42 to verify the location of the "hot spot." This boring was used as the center of a sampling grid used to identify additional boring locations to delineate the extent of chemically impacted soils. A portable photoionization detector (PID) was used during the investigation to field-screen soils for the presence of volatile chemical constituents. Twenty-two (22) soil samples were collected for laboratory analysis for volatile organic compounds (VOCs) and SVOCs to characterize and define the lateral and vertical extent of soil chemical impacts, guided by the use of the PID in the field. The lateral and vertical extent of chemical impacts in soil at Trash Pile "D" was defined by

several borings in which no chemical constituents were detected at concentrations exceeding RSCOs (MWH, 2003a).

Sampling results obtained during the subsurface soil investigation of Trash Pile "D" identified an area of chemically impacted soil, approximately 35 feet by 170 feet in lateral dimension and 12 feet in depth, that existed near the location of the former Trash Pile "D". Impacts consisted of VOCs and SVOCs (specifically polycyclic aromatic hydrocarbons, or PAHs) that were detected in the soils at 4 to 12 feet below ground surface (bgs), and to a lesser extent at 2 to 4 feet bgs. No chemical impacts were detected in the 0 to 2 foot interval using field screening techniques with a PID. No chemical impacts were detected below 12 feet bgs that exceeded RSCOs (MWH, 2003a).

A meeting between the NYSDEC, NYSDOH, Chevron, and MWH personnel was held on August 27, 2003, and an approach to further delineate surface soil PAH impacts at CBS-1 and CBS-3 was developed. An *RFI Site Investigation Workscope for Surface Soil Sampling*, dated September 24, 2003, was developed and submitted to the NYSDEC and NYSDOH, and was subsequently approved by both agencies.

The RFI investigation was completed at CBS-1 and CBS-3 during three sampling events. The first event was completed in April 2004, when 26 surface soils locations (13 locations at each CBS, labeled SS-11 through SS-36) were sampled utilizing a hand auger. A total of 78 samples were collected and sent to the laboratory for PAH analysis.

The second surface soil sampling event was conducted in June 2004 to further delineate surface soils containing PAHs as indicated by the laboratory results from the April 2004 event. An additional 15 locations were sampled utilizing the approved sampling plan from the first event.

The third sampling event was conducted in August 2004 to further delineate surface soils containing PAHs as indicated by the laboratory results from the April and June 2004 sampling events. An additional nine locations were sampled utilizing the approved sampling plan from the first event. Laboratory results from the three samples obtained during the third surface soil investigation of CBS-1 all met the RSCOs. Of the six additional samples obtained during the third surface soil investigation of CBS-3, one met the TAGM soil cleanup objectives but five did not, primarily along the southern edge of this area. For all the areas to be excavated during this ICM (i.e.; Trash Pile "D", CBS-1, and CBS-3), the extent of cleanup during the ICM was verified by the collection of post-excavation endpoint samples. The ICM at area CBS-3 was completed with the full extent of contamination having been previously delineated.

In summary, during the *RFI Surface Soil Investigation* of CBS-1 and CBS-3 conducted in April, June, and August 2004, a total of 46 locations were sampled and a total of 149 samples were sent for laboratory analysis for PAHs. The investigation identified an area of PAH-impacted soil at CBS-1 approximately 120 square feet in area and one foot in depth. Laboratory results for the samples taken at CBS-3 indicate an impacted area of approximately 340 square feet in area, with PAH impacts extending from 0 to 1 feet to 2 feet bgs.

1.4 INTERIM CORRECTIVE MEASURE (ICM) OBJECTIVE

The primary objective of the ICM presented in the October 2005 work plan was to excavate and dispose of impacted soils and debris associated with the Trash Pile "D" area (Figure 1-2). In addition, shallow soils at CBS-1 and at CBS-3 were also removed. Following removal, the Site was restored by backfilling with clean material from an off-site source.

Due to high static groundwater conditions at the site, groundwater controls and dewatering of the work zone were utilized to minimize the quantity of groundwater entering the work area.

SECTION 2

HEALTH AND SAFETY

2.1 PROJECT SAFETY PLAN

A project safety plan (PSP) was developed in accordance with 29 CFR 1910.120, Parsons' Safety, Health, and Risk Program (SHARP) requirements (Parsons, 2004), and Chevron safety requirements, including the Chevron Loss Prevention System (LPS) program (Chevron, 2003). This plan was followed during the completion of the ICM and included provisions for traffic control, project staff safety, and community air monitoring requirements.

During the course of the project, Chevron met with community leaders, the Slater Chemical Fire Company, Town of Fishkill Police, Town Engineer, and the Town Highway Department to address any traffic management and safety concerns. On November 30th, Chevron held a public meeting to discuss the planned work with members of the community.

Additionally, contractors working on the site under direct contract to Chevron or Parsons developed their own site-specific HASP to address all known or anticipated site hazards associated with their work at the site. During the completion of the ICM, there were no reported injuries, incidents or releases of materials to the environment. The following section describes the results of the air monitoring program in greater detail.

2.2 COMMUNITY AIR MONITORING PROGRAM

During the remedial activities, the Community Air Monitoring Plan (CAMP) was followed to provide a measure of protection for the community (i.e., off-site receptors, including residences and businesses, as well as on-site workers not directly involved with the subject work activities) from potential contaminant releases as a direct result of the work activities.

Real-time air monitoring for VOCs and particulates was conducted at the perimeter of the exclusion zone or work area. Continuous monitoring was conducted during all intrusive activities and when soil piles were being actively moved or loaded for transportation and disposal. Prior to beginning excavation, upwind conditions were monitored to establish a baseline condition.

2.2.1 Volatile Organic Compounds

Airborne concentrations of volatile organic compounds were monitored at the downwind perimeter of the immediate work area on a continuous basis while intrusive activities were in progress. A miniRAE2000TM photoionization detector (PID) was used to measure VOC concentrations. The PID was equipped with a 10.6eV lamp and was calibrated daily using a 100ppm isobutylene gas mixture.

Action levels for VOCs at the downwind perimeter of the work site were established in the work plan. At no time during the completion of the remedial work did VOC concentrations measured with the PID exceed the prescribed action levels.

2.2.2 Particulates

During intrusive work activities, the concentration of airborne particulates was monitored continuously on the downwind perimeter of the exclusion zone. Particulate monitoring was performed using a MIE Personal DataRAM model PDR1000.

Action levels for particulates at the downwind perimeter of the work site were established in the work plan that was approved by NYSDEC.. At no time during the completion of the work did the airborne particulate levels exceed these action levels.

A copy of the particulate monitoring data, including the applicable VOC and particulate matter action levels, has been included in Appendix A.

SECTION 3

MEASURE IMPLEMENTATION (TRASH PILE "D")

3.1 SITE PREPARATION

3.1.1 Site Access

The delineated work zone identified in the work plan is located in the southeast portion of the Recreation Area. In order to access this area with the required heavy equipment and trucks, a haul road was established. The road was constructed along the eastern limit of the property from the existing paved access from Washington Avenue, extending south to the work area. Roadway improvements included: installation of gravel sub-base, geotextile fabric and road bed gravel. A truck turn around area and a loading area were constructed near the north end of the excavation.

The chain-link fence along the property line between Chevron and the Central Hudson Gas & Electric Corporation (Central Hudson) right-of-way was removed and a temporary construction fence was installed. Some clearing of surface vegetation was completed to provide a safe working space.

Access permits were obtained from Central Hudson to allow remedial activities to be completed on the property adjoining the Recreation Area to the east. This included the removal of the fence, installation of a slurry wall for groundwater control, excavation of CBS-1 and part of CBS-3. An access permit was obtained from the Town of Fishkill permitting the installation of a temporary pipeline within the drainage culvert underneath Washington Avenue. This pipeline was used to transfer treated construction water to the lift station in the tank farm. An access permit was also obtained from Metro-North Railroad for the section of pipeline that was placed underneath the rail bed.

3.1.2 Decontamination

Temporary decontamination areas were established for personal and decontamination of heavy equipment utilized for the excavation work. Decontamination water was containerized and treated similarly to fluids collected during the dewatering of excavations described below. Trucks used to haul excavated soils were lined with polyethylene liners prior to loading to facilitate the unloading of the waste at the landfill. Trucks transporting soil and other materials to and from the site were rinsed off as necessary prior to exiting the Recreation Area to ensure no waste material went onto public roads.

3.1.3 Erosion Control

Erosion control measures, consisting of silt fencing, were installed at the perimeter of the Site to protect the small stream located to the north of the work zone, and the pooled water area to the north of the project area. Erosion controls were installed and maintained to ensure effective control of sediments, preventing entry of sediments into adjacent surface waters.

3.2 WATER MANAGEMENT

Due to high static groundwater conditions present at the site, groundwater control and dewatering of the work zone were critical to minimize the quantity of water to be disposed of off-site and to ensure that soils did not maintain a moisture content unacceptable for disposal at the selected landfill site.

A temporary pipeline was constructed using heat welded, 3-inch inside-diameter high density polyethylene (HDPE) to transport treated construction water to the facility industrial sewer system. The pipeline extended through the Recreation Area, through a culvert underneath Washington Avenue and the railroad tracks to the concrete lift station in the former Texaco Tank Farm located on the north side of Washington Avenue. A pump in the lift station was used to transfer the water through the existing pipeline to the facility industrial sewer system for final treatment and disposal. Prior to use, the pipeline was air pressure tested to check for leaks. Permits were obtained from both the Town of Fishkill and the Metro-North Railroad to install this pipeline beneath their respective properties.

Soil/Bentonite Cutoff Wall

The influx of groundwater into the work area was controlled by the installation of a soil/bentonite groundwater cutoff wall around the perimeter of the work site.

The cutoff wall was designed to intersect the silt/clay layer that had been identified beneath the site at a depth of approximately 10 feet below ground surface (bgs). In order to provide a level working platform and to provide an elevation head sufficient for the creation of a preliminary bentonite slurry wall, a working platform was constructed along the alignment of the cutoff wall. This working platform was constructed to a height of approximately 2 to 3 feet above ground surface and was made from clean rock fill.

During construction, a trench was excavated through the working platform to the targeted depth between 8 and 13 feet. The excavation was loaded with bentonite slurry to seal off the groundwater and to maintain the physical integrity of the trench. Excavated soils were mixed with additional powdered bentonite and placed back into the excavation, displacing the bentonite slurry and creating the cutoff wall. The slurry wall was completed with a total circumference of approximately 760 feet. Copies of the quality control records from the wall installation are included as Appendix B.

Dewatering

Following the installation of the soil/bentonite cutoff wall and during the completion of the remedial excavation and backfilling, the excavation was dewatered and the water was treated for disposal.

The excavation was dewatered by excavating a series of sumps and removing the accumulated water using two submersible pumps. Water was pumped to a fractionation tank to remove the settleable solids. Following solids removal, the water was pumped through a set of activated carbon units and through a pipeline to the lift station at the tank farm. The lift station pumped the water to the industrial sewer system (ISS) for additional treatment and discharge to Fishkill Creek.

During dewatering, samples of the water treated through the carbon units and being sent to the ISS were sampled and analyzed for parameters identified in the facility SPDES permit. Results from this sampling have been included in Table 3-1.

The carbon in the treatment vessels was sampled and disposed of, upon completion of the work. The sample results and disposal information are included as Appendix C.

3.3 WASTE MANAGEMENT

In September 2005, Chevron completed additional sampling in the Recreation Area to characterize the impacted soils for disposal. Based on the results of this sampling program, all of the soils to be excavated from both the Chemical Burial Sites and the Trash Pile "D" area were classified as non-hazardous for the purposes of disposal.

Although the ICM work plan indicated that soil would be stockpiled and sampled prior to removal from the Site, the classification as non-hazardous allowed the direct loading of trucks from the open excavation. As a result, no soil staging area was constructed. Soils were excavated and staged within the work area on a daily basis.

Soil Amendments

In spite of the continued water management measures, the moisture content of some of the excavated soil exceeded the allowable limit for disposal at the landfill site. In order to reduce the moisture content, some of the soils were mixed with a drying amendment prior to loading.

K-sorb© Universal Fiber is a non-reactive material consisting primarily of cellulose fibers and was selected as an amendment to reduce the moisture content prior to shipping. The addition of K-sorb© did not affect any physical or chemical changes to the soil materials save for the absorption of excess water. A copy of the material safety data sheet for K-sorb is included as Appendix D. Approximately 70,000 pounds of K-sorb© fiber were used during the soil excavation and staging activities.

Disposal

Impacted soils were excavated from the Trash Pile "D" area and stockpiled within the northern part of the excavation. Staged soils were loaded into lined trucks, and transported to the GROWS landfill and the Tullytown Resource Recovery Facility operated by Waste Management, Inc. in Morrisville, PA.

A total of 10,600 tons of soils were removed from the Site via 486 loads.

Approximately 4,900 cubic yards (CY) of soil were excavated, transported and disposed of as non-hazardous waste from Trash Pile "D" and CBS-1 and CBS-3.

The extents of the excavations are shown in Figure 1-2. A copy of the manifest list and the tonnage report has been included in this report as Appendix E.

Confirmation Sampling

Following the completion of excavation activities, confirmation samples were collected from the sidewalls and the bottom of the excavation to document soil conditions prior to backfilling.

From the Trash Pile "D" Area, a total of eleven confirmatory soil samples were collected. Five bottom soil samples and six sidewall soil samples were collected and analyzed for the presence of VOCs and SVOCs. A summary of the results from the Trash Pile "D" confirmatory sampling are included in Table 4-1.

The locations of the confirmatory soil samples are shown in Figure 1-2.

Samples were collected in accordance with the Field Sampling Plan (FSP) which is included as Appendix B and the Quality Assurance Project Plan (Appendix C) of the Final Work Plan (October 2005). A copy of the complete soil analytical data package is included in Appendix F. A copy of the Data Review Summary Report is included as Appendix G.

None of the confirmatory soil samples from the Trash Pile "D" excavation contained VOC or SVOC concentrations in excess of the RSCOs.

Backfilling

Following a review of the analytical data from the confirmation soil samples, the excavation was backfilled using clean fill from off-site sources. In accordance with the approved Work Plan, representative samples of the fill material were analyzed to verify that the material did not contain any contaminant concentrations above NYSDEC TAGM 4046 guideline standards.

Material used for backfilling the excavation was obtained from Thalle Industries, Inc. from the quarry on Route 9, Fishkill, NY. Material used as backfill has been identified as 1-1/2 inch stone and NYSDOT grade backfill material. Backfill material was tested by ASTM method D422 for gradation, and analytical testing was completed for the presence of VOCs, SVOCs, pesticides, herbicides, PCBs, and metals. A copy of the gradation and analytical results are included as Appendix H. Backfill material was placed in the excavation and compacted with minimum of three passes with a bulldozer.

Stone backfill was placed and compacted in the excavation to a depth of approximately 12 inches from the final surface grade. Topsoil was imported to fill from ground surface to a depth of 1 foot. Prior to import, a sample of the topsoil was tested for the presence of VOCs, SVOCs, pesticides, herbicides, PCBs and metals in accordance with the work plan. A copy of the analytical data report for the topsoil sample is included as Appendix H.

Site Restoration

Following the placement of the backfill, the site was graded to match the existing grades and drainage patterns. Fertilizer and grass seed were distributed over backfilled areas. The chain-link fence that had been removed from the property line between the Chevron property and the Central Hudson right-of-way property was replaced. Photographs depicting the restored Site and pictures documenting the project progress are in the photographic log that is included as Appendix I.

SECTION 4

MEASURE IMPLEMENTATION (CHEMICAL BURIAL SITES)

In addition to the main site excavation for the Trash Pile "D" area, two additional excavations were completed to remove impacted materials from the locations of the two chemical burial sites (CBSs).

Chemical Burial Site 1

Chemical Burial Site 1 (CBS-1) is located southeast of the Trash Pile "D" area on the property currently owned by Central Hudson. Soils were excavated from the CBS-1 in the locations shown in Figure 1-2. The extent of the impacted soils in the CBS-1 area was determined during the 2004 investigation (MWH Americas).

From CBS-1, soils were excavated to a depth of approximately 1 foot and the excavation area measured approximately 7,121 square feet (sf) in size. No staining, discoloration or elevated PIDs readings were noted during the removal of the soils.

Approximately 265 CY of soils were excavated from CBS-1 and disposed of at the GROWS/Tullytown Landfill Sites. During loading and disposal these soils were combined with those from Trash Pile "D" area. Manifests for the disposal of the soils from CBS-1 are included in Appendix D.

Following the excavation of the impacted soils, confirmatory sampling was completed. A total of nine confirmatory soil samples were collected from CBS-1 and analyzed for the presence of SVOCs by EPA Method 8270C. The locations of the confirmatory soil samples are shown in Figure 1-2. A summary of the analytical results from the confirmatory samples is included as Table 4-2. A copy of the Data Review Summary Report is included as Appendix G.

Of the nine samples, one confirmatory soil sample from the CBS-1 contained SVOC concentrations in excess of the RSCOs. Sample SS-CBS1-7 was located in the south west corner of the excavation and had detected compounds including Benzo(a)anthracene, Benzo(a)pyrene, and Chrysene. Dibenzo(a,h)anthracene was detected above the RSCO but was reported as an estimated value.

Chemical Burial Site 3

Chemical Burial Site 3 (CBS-3) is located south of the Trash Pile "D" excavation, west of the property line between Chevron and Central Hudson. The extent of the impacted soils in the CBS-3 area was determined during the 2004 investigation (MWH Americas).

This excavation was completed in two stages. Following the completion of the first excavation, confirmatory soil samples were collected. The results from these samples indicated that additional soil needed to be removed. Following the second round of excavation, additional confirmatory soil samples were collected. Soils in CBS-3 were excavated to a depth of approximately 1.5 feet and the excavation was approximately 10,902 sf in area. The extent of the CBS-3 excavation is shown in Figure 1-2. No

staining, discoloration or elevated PIDs readings were noted during the removal of the soils.

Approximately 606 CY of soils were excavated from CBS-3 and disposed of at the GROWS/Tullytown Landfill Sites. During loading and disposal these soils were combined with those from Trash Pile "D" area. Manifests for the disposal of the soils from CBS-1 are included in Appendix D.

Following the excavation of the impacted soils, confirmatory sampling was completed. A total of 13 confirmatory soil samples were collected from CBS-3 and analyzed for the presence of SVOCs by EPA Method 8270C. The locations of the confirmatory soil samples are shown in Figure 1-2. A summary of the analytical results from the confirmatory samples is included as Table 4-3. A copy of the Data Review Summary Report is included as Appendix G.

SVOCs were detected in some of the sidewall soil samples with concentrations exceeding the RSCOs. Detected compounds include Benzo(a)anthracene, Benzo(a)pyrene, and Chrysene. Dibenzo(a,h)anthracene was detected above the RSCO but was reported as an estimated value. The remedial objectives for this site were met in that the detected compounds left in place were restricted to a very limited area that was completed with a minimum 2 feet of soil cover. The detected compounds were present at concentrations just slightly above RSCOs, and there is expected to be no further excavation in this area of the site.

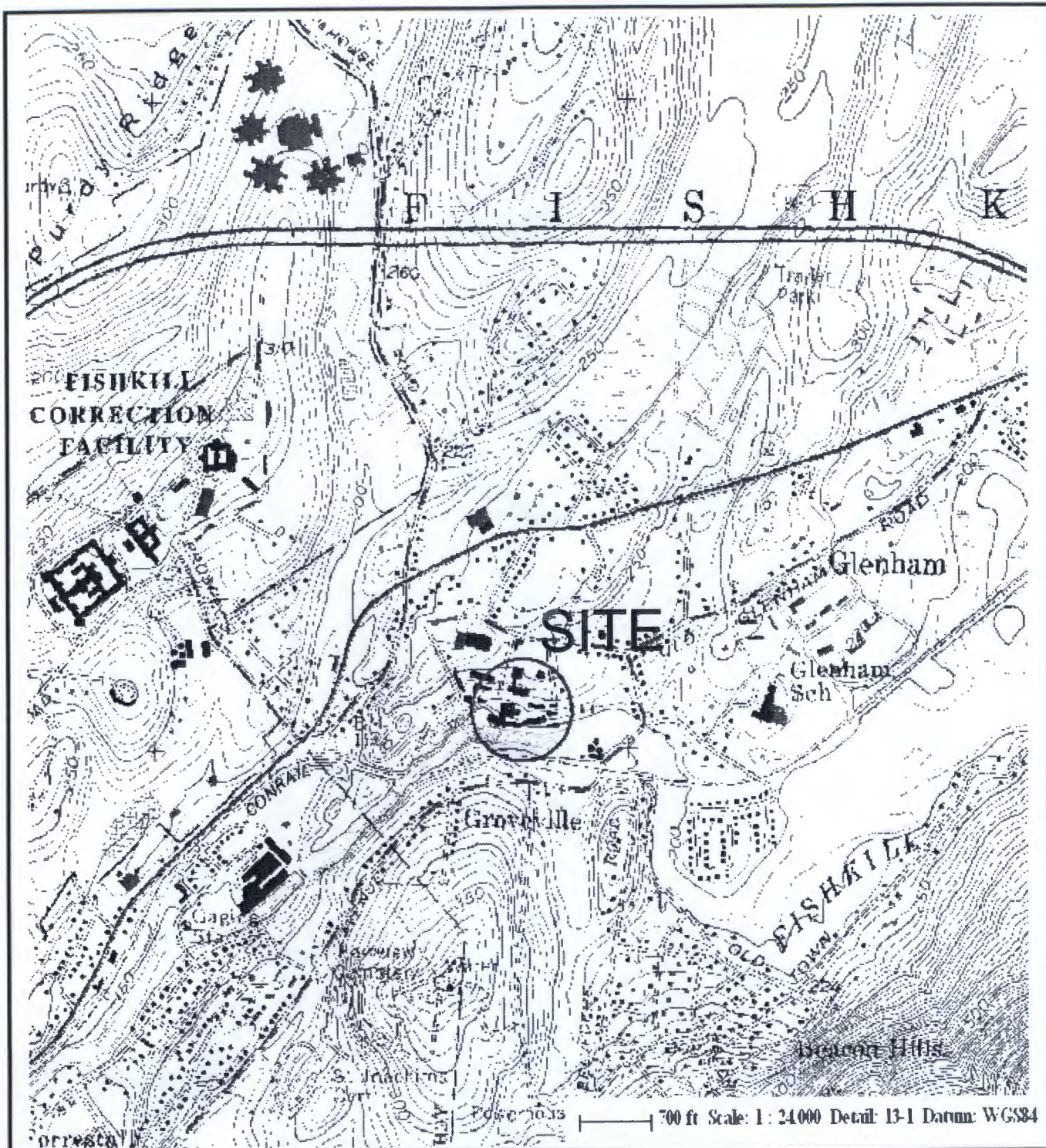
Site Restoration

The CBS excavations were backfilled using the approved stone backfill to a depth of approximately 12 inches. The top foot was backfilled using the approved topsoil. Both sites were restored by fine grading the area to match existing grades and drainage patterns and the application of fertilizer and grass seed. Photographs showing the restored Site and pictures documenting the project progress are in the photographic log that is included as Appendix I.

SECTION 5

REFERENCES

- IT Group, 2001. Soil and Groundwater Sampling Plan. Final. July 2001.
- IT Group, 2002. Soil Sampling Report, Recreation Area. Final. April 2002.
- MWH, 2002. Sampling and Analysis Plan to Delineate Soil Impact Areas. Final. November 2002.
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New York
Vicinity Map

LATITUDE: N41° 31' 04"
LONGITUDE: W73° 56' 14"



SOURCE: DeLORME 3-D
TOPOQUAD PROGRAM

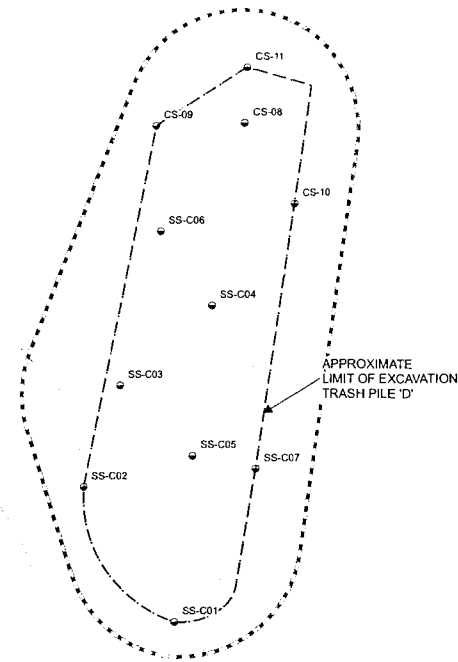
FIGURE 1

CHEVRON ENVIRONMENTAL MANAGEMENT
COMPANY (EMC)
FORMER TEXACO RESEARCH FACILITY
GLENHAM, NEW YORK

SITE LOCATION MAP

PARSONS

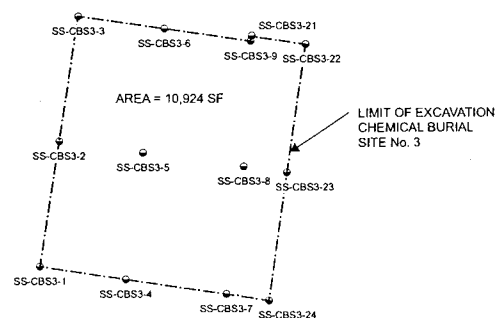
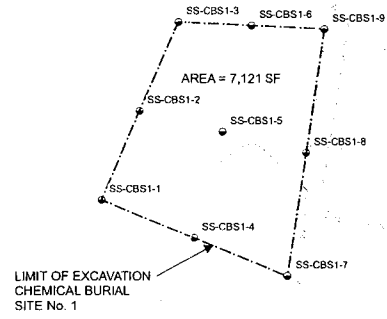
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, NY 13088 PHONE: (315) 451-9560



CENTRAL HUDSON R.O.W.

CHAIN LINK FENCE

PROPERTY OF
CHEVRON TEXACO

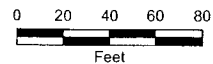


Legend

Confirmatory Soil Sample Location

Excavation Area

Slurry Wall



CONSULTANT

PARSONS

290 ELWOOD DAVIS RD
LIVERPOOL, NY 13088
(315) 451-9560

SEAL

CONSULTANT PROJ. NO.

SUBCONSULTANT PROJ. NO.

NO.	DATE	DESCRIPTION	CHKD
A	6/7/06	ISSUED FOR REVIEW	XXX

PROJECT TITLE

CHEVRON TEXACO
BEACON, NEW YORK
RECREATION AREA

DATE6/7/06

DRAWN BYMAB

CHECKED BYXXX

APPROVED BYXXX

NOT FOR CONSTRUCTION

RELEASED FOR CONSTRUCTION

AS-BUILT DRAWING

PROJECT NO.442044

DRAWING TITLE

RECREATION AREA SITE PLAN

SCALE:NOT TO SCALE

DRAWING NO.

FIGURE 1-2

Table 3-1
Construction Water Analytical Summary
SPDES Monitoring

Former Texaco Research Center
Beacon, New York

		Field Sample ID	WW-01	WW-02	WW-03A	WW-03B	TB-02	TB-03
		Location	WW	WW	WW	WW	TB	TB
		Sample Date	1/9/2006	1/23/2006	2/7/2006	2/7/2006	1/23/2006	2/7/2006
		Sample Delivery Group	973860	975346	977298	977298	975346	977298
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Trip Blank	Trip Blank
Parameter Name	Units	Analytical Method						
Solids, Total Suspended	mg/l	E160.2	27.2	26.8		22		
pH	S.U.	EPA 150.1	8.7	7		7		
Copper	mg/l	EPA 200.7	0.0047 J	0.003 J		0.0051 J		
Iron	mg/l	EPA 200.7	1.62	0.957		1.69 JH		
Lead	mg/l	EPA 200.7	0.0084 U	0.0084 U		0.0084 U		
Manganese	mg/l	EPA 200.7	0.486	0.71		0.973		
Silver	mg/l	EPA 200.7	0.002 U	0.002 U		0.002 U		
Zinc	mg/l	EPA 200.7	0.0108 J	0.0127 J		0.0191 J		
Oil and Grease , Total	mg/l	EPA 413.1	2.5 U	2.5 U		2.5 U		
1,1,1-Trichloroethane	ug/l	SW8260B	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Acetone	ug/l	SW8260B	6 U	6 U	11 J	6 U	6 U	6 U
Benzene	ug/l	SW8260B	0.5 U	0.5 U	6	0.5 J	0.5 U	0.5 U
Ethylbenzene	ug/l	SW8260B	0.8 U	0.8 U	17	1 J	0.8 U	0.8 U
Methylene chloride	ug/l	SW8260B	2 U	2 U	2 U	2 U	2 U	2 U
Toluene	ug/l	SW8260B	0.7 U	0.7 U	4 J	0.7 U	0.7 U	0.7 U
Xylene (total)	ug/l	SW8260B	0.8 U	0.8 U	27	2 J	0.8 U	0.8 U

Table 4-1
Soil Analytical Data Summary
Trash Pile 'D'

Former Texaco Research Center
Beacon, New York

Interim Corrective Measure Soil Excavation; Recreation Area		Field Sample ID	SS-C01-0-0.5	SS-C02-0-0.5	SS-C03-0-0.5	SS-C04-0-0.5	SS-C05	SS-C06	SS-C07	SS-C08	SS-CS08	SS-CS09	SS-CS10	SS-CS11
		Location	SS-C01	SS-C02	SS-C03	SS-C04	SS-C05	SS-C06	SS-C07	SS-C08	SS-CS08	SS-CS09	SS-CS10	SS-CS11
		Sample Date	2/6/2006	2/6/2006	2/7/2006	2/16/2006	2/17/2006	2/17/2006	2/17/2006	2/17/2006	3/23/2006	3/23/2006	3/23/2006	3/30/2006
		Sample Delivery Group	977405	977405	977405	978479	978661	978661	978661	978661	982927	982927	982927	983782
		Sample Depth	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT	0-0.5 FT
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	Units	NYSDEC TAGM 4046												
Volatile Organic Compounds														
1,1,1-Trichloroethane	ug/Kg	800	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	ug/Kg	600	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	ug/Kg	200	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethylene	ug/Kg	400	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	ug/Kg	100	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	ug/Kg	200	8	U	9	U	8	U	9	U	9	U	46	UJ
Benzene	ug/Kg	60	0.6	U	0.6	U	0.6	U	0.6	U	0.5	U	0.6	U
Carbon disulfide	ug/Kg	2700	1	U	1	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	ug/Kg	600	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	ug/Kg	1700	1	U	1	U	1	U	1	U	1	U	220	U
Chloroethane	ug/Kg	1900	2	U	2	U	2	U	2	U	3	U	13	U
Chloroform	ug/Kg	300	1	U	1	U	1	U	1	U	1	U	7	U
cis-1,2-Dichloroethylene	ug/Kg	250	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	ug/Kg	5500	1	U	1	U	1	U	1	U	1	U	7	U
Methylene chloride	ug/Kg	100	2	U	2	U	2	U	2	U	3	U	13	U
Tetrachloroethylene	ug/Kg	1400	1	U	1	U	1	U	1	U	1	U	7	U
Toluene	ug/Kg	1500	1	U	1	U	1	U	1	U	1	U	7	U
trans-1,2-Dichloroethene	ug/Kg	300	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethylene	ug/Kg	700	1	U	1	U	1	U	1	U	1	U	19	J
Vinyl chloride	ug/Kg	200	1	U	1	U	1	U	1	U	1	U	1	U
Xylene (total)	ug/Kg	1200	1	U	1	U	6	J	1	U	1	U	7	U
Semivolatile Organic Compounds														
1,2,4-Trichlorobenzene	ug/Kg	3400	38	U	41	U	38	U	41	U	42	U	36	U
2,4,5-Trichlorophenol	ug/Kg	100	75	U	81	U	76	U	81	U	83	U	84	U
2,4-Dichlorophenol	ug/Kg	400	38	U	41	U	38	U	41	U	42	U	36	U
2,4-Dinitrophenol	ug/Kg	200	750	U	810	U	760	U	810	U	830	U	840	U
2,6-Dinitrotoluene	ug/Kg	1000	38	U	41	U	38	U	41	U	42	U	36	U
2-Chlorophenol	ug/Kg	800	38	U	41	U	38	U	41	U	42	U	36	U
2-Methylnaphthalene	ug/Kg	36400	38	U	41	U	38	U	41	U	42	U	36	U
Acenaphthene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U
Acenaphthylene	ug/Kg	41000	38	U	41	U	38	U	41	U	42	U	36	U
Anthracene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U
Benzo(a)anthracene	ug/Kg	224	38	U	41	U	38	U	41	U	42	U	36	U
Benzo(a)pyrene	ug/Kg	61	38	U	41	U	38	U	41	U	42	U	36	U
Benzo(b)fluoranthene	ug/Kg	1100	38	U	41	U	38	U	41	U	42	U	36	U
Benzo(ghi)perylene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U
Benzo(k)fluoranthene	ug/Kg	1100	38	U	41	U	38	U	41	U	42	U	36	U
Bis(2-ethylhexyl)phthalate (BEHP)	ug/Kg	50000	75	U	81	U	76	U	81	U	83	U	84	U
Butyl benzyl phthalate	ug/Kg	50000	75	U	81	U	76	U	81	U	83	U	84	U
Chrysene	ug/Kg	400	38	U	41	U	38	U	41	U	42	U	36	U
Dibenzo(a,h)anthracene	ug/Kg	14	38	U	41	U	38	U	41	U	42	U	36	U
Dibenzofuran	ug/Kg	6200	38	U	41	U	38	U	41	U	42	U	36	U
Diethyl phthalate	ug/Kg	7100	75	U	81	U	76	U	81	U	83	U	84	U
Dimethyl phthalate	ug/Kg	2000	75	U	81	U	76	U	81	U	83	U	84	U
Di-n-butyl phthalate	ug/Kg	8100	75	U	81	U	76	U	81	U	83	U	84	U
Di-n-octyl phthalate	ug/Kg	50000	75	U	81	U	76	U	81	U	83	U	84	U
Fluoranthene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U
Fluorene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U
Hexachlorobenzene	ug/Kg	410	38	U	41	U	38	U	41	U	42	U	36	U
Indeno(1,2,3-cd)pyrene	ug/Kg	3200	38	U	41	U	38	U	41	U	42	U	36	U
Isophorone	ug/Kg	4400	38	U	41	U	38	U	41	U	42	U	36	U
Naphthalene	ug/Kg	13000	38	U	41	U	38	U	41	U	42	U	36	U
Nitrobenzene	ug/Kg	200	38	U	41	U	38	U	41	U	42	U	36	U
Phenanthrene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U
Phenol	ug/Kg	30	38	U	41	U	38	U	41	U	42	U	36	U
Pyrene	ug/Kg	50000	38	U	41	U	38	U	41	U	42	U	36	U

Notes:
690 : Bold indicate concentration exceeding the NYSDEC TAGM 4046 standard (RSCO)
U : compound was not detected
J: estimated value (the results is greater than the MDL and less than the LOQ)
NYSDEC TAGM 4046: Technical and Administrative Guidance Memorandum #4046: Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.
NYSDEC: New York State Department of Environmental Conservation
MDL: method detection limit
LOQ: limit of quantitation
ug/Kg : micrograms per Kilogram

Table 4-2
Soil Analytical Data Summary
Chemical Burial Site 1

Former Texaco Research Center
Beacon New York

Interim Corrective Measure Soil Excavation Recreation Area		Field Sample ID Sample Date Sample Delivery Group Sample Depth Sample Purpose	SS-CBS1-01 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-02 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-03 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-04 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-05 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-06 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-07 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-08 3/9/2006 981106 0-0.5 FT Regular sample	SS-CBS1-09 3/9/2006 981106 0-0.5 FT Regular sample					
Parameter Name	Units	NYSDEC TAGM 4046														
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	ug/Kg	3400	41	U	37	U	39	U	37	U	39	U	38	U	40	U
2,4,5-Trichlorophenol	ug/Kg	100	81	U	74	U	79	U	77	U	74	U	77	U	76	U
2,4-Dichlorophenol	ug/Kg	400	41	U	37	U	39	U	37	U	37	U	39	U	38	U
2,4-Dinitrophenol	ug/Kg	200	810	UJ	740	UJ	790	UJ	770	UJ	740	UJ	770	UJ	760	UJ
2,6-Dinitrotoluene	ug/Kg	1000	41	U	37	U	39	U	39	U	37	U	39	U	38	U
2-Chlorophenol	ug/Kg	800	41	U	37	U	39	U	39	U	37	U	39	U	38	U
2-Methylnaphthalene	ug/Kg	36400	41	U	37	U	39	U	39	U	37	U	39	U	38	U
Acenaphthene	ug/Kg	50000	41	U	37	U	39	U	39	U	37	U	100	J	38	U
Acenaphthylene	ug/Kg	41000	41	U	37	U	39	U	39	U	37	U	39	U	38	U
Anthracene	ug/Kg	50000	41	U	37	U	39	U	39	U	37	U	37	U	130	J
Benzo(a)anthracene	ug/Kg	224	41	U	37	U	44	J	56	J	37	U	37	U	690	
Benzo(a)pyrene	ug/Kg	61	41	U	37	U	43	J	44	J	37	U	37	U	480	
Benzo(b)fluoranthene	ug/Kg	1100	41	U	37	U	48	J	56	J	37	U	37	U	690	
Benzo(ghi)perylene	ug/Kg	50000	41	U	37	U	47	J	42	J	37	U	37	U	280	
Benzo(k)fluoranthene	ug/Kg	1100	41	U	37	U	39	U	39	U	37	U	37	U	330	
Bis(2-ethylhexyl)phthalate (BEHP)	ug/Kg	50000	81	U	74	U	79	U	77	U	74	U	74	U	77	U
Butyl benzyl phthalate	ug/Kg	50000	81	U	74	U	79	U	77	U	74	U	74	U	77	U
Chrysene	ug/Kg	400	41	U	37	U	49	J	44	J	37	U	37	U	940	
Dibenzo(a,h)anthracene	ug/Kg	14	41	U	37	U	39	U	39	U	37	U	37	U	77	J
Dibenzofuran	ug/Kg	6200	41	U	37	U	39	U	39	U	37	U	37	U	71	J
Diethyl phthalate	ug/Kg	7100	81	U	74	U	79	U	77	U	74	U	74	U	77	U
Dimethyl phthalate	ug/Kg	2000	81	U	74	U	79	U	77	U	74	U	74	U	77	U
Di-n-butyl phthalate	ug/Kg	8100	81	U	74	U	79	U	77	U	74	U	74	U	77	U
Di-n-octyl phthalate	ug/Kg	50000	81	U	74	U	79	U	77	U	74	U	74	U	77	U
Fluoranthene	ug/Kg	50000	42	J	37	U	67	J	71	J	37	U	47	J	2000	
Fluorene	ug/Kg	50000	41	U	37	U	39	U	39	U	37	U	37	U	120	J
Hexachlorobenzene	ug/Kg	410	41	U	37	U	39	U	39	U	37	U	37	U	39	U
Indeno(1,2,3-cd)pyrene	ug/Kg	3200	41	U	37	U	39	U	39	U	37	U	37	U	290	
Isophorone	ug/Kg	4400	41	U	37	U	39	U	39	U	37	U	37	U	39	U
Naphthalene	ug/Kg	13000	41	U	37	U	39	U	39	U	37	U	37	U	39	U
Nitrobenzene	ug/Kg	200	41	U	37	U	39	U	39	U	37	U	37	U	39	U
Phenanthrene	ug/Kg	50000	41	U	37	U	41	J	46	J	37	U	37	U	2300	
Phenol	ug/Kg	30	41	U	37	U	39	U	39	U	37	U	37	U	39	U
Pyrene	ug/Kg	50000	42	J	37	U	74	J	81	J	37	U	51	J	2100	

Notes:

690 : Bold indicate concentration exceeding the NYSDEC TAGM 4046 standard (RSCO)

U : compound was not detected

J: estimated value (the results is greater than the MDL and less than the LOQ)

NYSDEC TAGM 4046: Technical and Administrative Guidance Memorandum #4046: Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.

NYSDEC: New York State Department of Environmental Conservation

MDL: method detection limit

LOQ: limit of quantitation

ug/Kg : micrograms per Kilogram

Table 4-3
Soil Analytical Data Summary
Chemical Burial Site 3

Former Texaco Research Center
Beacon, New York

Interim Corrective Measure Soil Excavation Recreation Area		Field Sample ID Location Sample Date Sample Delivery Group Sample Depth Sample Purpose	SS-CBS3-1 CBS3-SS-1 980840 0-0.5 FT Regular sample	SS-CBS3-2 CBS3-SS-2 3/7/2006 980840 0-0.5 FT Regular sample	SS-CBS3-3 CBS3-SS-3 3/8/2006 980840 0-0.5 FT Regular sample	SS-CBS3-4 CBS3-SS-4 3/7/2006 980840 0-0.5 FT Regular sample	SS-CBS3-5 CBS3-SS-5 3/7/2006 980840 0-0.5 FT Regular sample	SS-CBS3-6 CBS3-SS-6 3/7/2006 980840 0-0.5 FT Regular sample
Parameter Name	Units	NYSDEC TAGM 4046						
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	ug/Kg	3400	38 U	37 U	39 U	37 U	36 U	41 U
2,4,5-Trichlorophenol	ug/Kg	100	77 U	73 U	78 U	74 U	73 U	82 U
2,4-Dichlorophenol	ug/Kg	400	38 U	37 U	39 U	37 U	36 U	41 U
2,4-Dinitrophenol	ug/Kg	200	770 UJ	730 UJ	780 UJ	740 UJ	730 UJ	820 UJ
2,6-Dinitrotoluene	ug/Kg	1000	38 U	37 U	39 U	37 U	36 U	41 U
2-Chlorophenol	ug/Kg	800	38 U	37 U	39 U	37 U	36 U	41 U
2-Methylnaphthalene	ug/Kg	38400	38 U	37 U	39 U	37 U	36 U	56 J
Acenaphthene	ug/Kg	50000	38 U	37 U	39 U	37 U	36 U	160 J
Acenaphthylene	ug/Kg	41000	38 U	37 U	39 U	37 U	36 U	120 J
Anthracene	ug/Kg	50000	38 U	37 U	39 U	37 U	45 J	520 J
Benzo(a)anthracene	ug/Kg	224	38 U	37 U	39 U	37 U	92 J	1100
Benzo(a)pyrene	ug/Kg	61	38 U	37 U	39 U	37 U	64 J	770
Benzo(b)fluoranthene	ug/Kg	1100	38 U	37 U	39 U	37 U	77 J	920
Benzo(ghi)perylene	ug/Kg	50000	38 U	37 U	39 U	37 U	41 J	510
Benzo(k)fluoranthene	ug/Kg	1100	38 U	37 U	39 U	37 U	40 J	590
Bis(2-ethylhexyl)phthalate (BEHP)	ug/Kg	50000	77 U	73 U	78 U	74 U	73 U	82 U
Butyl benzyl phthalate	ug/Kg	50000	77 U	73 U	78 U	74 U	73 U	82 U
Chrysene	ug/Kg	400	38 U	37 U	39 U	37 U	100 J	1100
Dibenzo(a,h)anthracene	ug/Kg	14	38 U	37 U	39 U	37 U	36 U	150 J
Dibenzofuran	ug/Kg	6200	38 U	37 U	39 U	37 U	36 U	130 J
Diethyl phthalate	ug/Kg	7100	77 U	73 U	78 U	74 U	73 U	82 U
Dimethyl phthalate	ug/Kg	2000	77 U	73 U	78 U	74 U	73 U	82 U
Di-n-butyl phthalate	ug/Kg	8100	77 U	73 U	78 U	74 U	73 U	82 U
Di-n-octyl phthalate	ug/Kg	50000	77 U	73 U	78 U	74 U	73 U	82 U
Fluoranthene	ug/Kg	50000	38 U	37 U	39 U	37 U	200	2400
Fluorene	ug/Kg	50000	38 U	37 U	39 U	37 U	36 U	230
Hexachlorobenzene	ug/Kg	410	38 U	37 U	39 U	37 U	36 U	41 U
Indeno(1,2,3-cd)pyrene	ug/Kg	3200	38 U	37 U	39 U	37 U	36 J	460
Isophorone	ug/Kg	4400	38 U	37 U	39 U	37 U	36 U	41 U
Naphthalene	ug/Kg	13000	38 U	37 U	39 U	37 U	36 U	180 J
Nitrobenzene	ug/Kg	200	38 U	37 U	39 U	37 U	36 U	41 U
Phenanthrene	ug/Kg	50000	38 U	37 U	39 U	37 U	210	2400
Phenol	ug/Kg	30	38 U	37 U	39 U	37 U	36 U	41 U
Pyrene	ug/Kg	50000	38 U	37 U	39 U	37 U	200	2300

Notes:

690 : Bold indicate concentration exceeding the NYSDEC TAGM 4046 standard (RSCO)

U : compound was not detected

J: estimated value (the results greater than the MDL and less than the LOQ)

NYSDEC TAGM 4046: Technical and Administrative Guidance Memorandum #4046

NYSDEC: New York State Department of Environmental Conservation

MDL: method detection limit

LOQ: limit of quantitation

ug/Kg : micrograms per Kilogram

Table 4-3
Soil Analytical Data Summary
Chemical Burial Site 3

Former Texaco Research Center
Beacon, New York

Interim Corrective Measure Soil Excavation Recreation Area		Field Sample ID Location Sample Date Sample Delivery Group Sample Depth Sample Purpose	SS-CBS3-7 CBS3-SS-7 3/7/2006 980840 0-0.5 FT Regular sample	SS-CBS3-8 CBS3-SS-8 3/7/2006 980840 0-0.5 FT Regular sample	SS-CBS3-9 CBS3-SS-9 3/7/2006 980840 0-0.5 FT Regular sample	SS-CBS3-21 CBS3-SS-21 3/21/2006 982498 0-0.5 FT Regular sample	SS-CBS3-22 CBS3-SS-22 3/21/2006 982498 0-0.5 FT Regular sample	SS-CBS3-23 CBS3-SS-23 3/21/2006 982498 0-0.5 FT Regular sample	SS-CBS3-24 CBS3-SS-24 3/21/2006 982498 0-0.5 FT Regular sample
Parameter Name	Units	NYSDEC TAGM 4046							
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	ug/Kg	3400	39 U	39 U	40 U	40 U	39 U	38 U	38 U
2,4,5-Trichlorophenol	ug/Kg	100	78 U	79 U	79 U	80 U	78 U	77 U	77 U
2,4-Dichlorophenol	ug/Kg	400	39 U	39 U	40 U	40 U	39 U	38 U	38 U
2,4-Dinitrophenol	ug/Kg	200	760 UJ	790 UJ	790 UJ	800 U	780 U	770 U	770 U
2,6-Dinitrotoluene	ug/Kg	1000	39 U	39 U	40 U	40 U	39 U	38 U	38 U
2-Chlorophenol	ug/Kg	800	39 U	39 U	40 U	40 U	39 U	38 U	38 U
2-Methylnaphthalene	ug/Kg	36400	520	50 J	69 J	40 U	39 U	38 U	38 U
Acenaphthene	ug/Kg	50000	1400	39 U	150 J	40 U	39 U	38 U	38 U
Acenaphthylene	ug/Kg	41000	2000	190 J	200	52 J	46 J	38 U	38 U
Anthracene	ug/Kg	50000	4700	440	520	70 J	87 J	38 U	61 J
Benzo(a)anthracene	ug/Kg	224	12000	1100	1200	190 J	450	38 U	180 J
Benzo(a)pyrene	ug/Kg	61	8600	820	850	140 J	380	38 U	160 J
Benzo(b)fluoranthene	ug/Kg	1100	11000	1100	1200	180 J	520	38 U	240
Benzo(ghi)perylene	ug/Kg	50000	5100	540	560	94 J	290	38 U	120 J
Benzo(k)fluoranthene	ug/Kg	1100	4100	360	440	98 J	220	38 U	65 J
Bis(2-ethylhexyl)phthalate (BEHP)	ug/Kg	50000	78 U	79 U	79 U	80 U	78 U	77 U	77 U
Butyl benzyl phthalate	ug/Kg	50000	78 U	79 U	79 U	80 U	78 U	77 U	77 U
Chrysene	ug/Kg	400	11000	1100	1200	180 J	440	38 U	230
Dibenzo(a,h)anthracene	ug/Kg	14	2100	180 J	180 J	40 U	90 J	38 U	38 U
Dibenzofuran	ug/Kg	6200	1000	83 J	120 J	40 U	39 U	38 U	38 U
Diethyl phthalate	ug/Kg	7100	78 U	79 U	79 U	80 U	78 U	77 U	77 U
Dimethyl phthalate	ug/Kg	2000	78 U	79 U	79 U	80 U	78 U	77 U	77 U
Di-n-butyl phthalate	ug/Kg	8100	78 U	79 U	79 U	80 U	78 U	77 U	77 U
Di-n-octyl phthalate	ug/Kg	50000	78 U	79 U	79 U	80 U	78 U	77 U	77 U
Fluoranthene	ug/Kg	50000	25000	2200	2400	360	660	38 U	390
Fluorene	ug/Kg	50000	2000	170 J	210	40 U	39 U	38 U	38 U
Hexachlorobenzene	ug/Kg	410	39 U	39 U	40 U	40 U	39 U	38 U	38 U
Indeno(1,2,3-cd)pyrene	ug/Kg	3200	5000	490	520	81 J	250	38 U	110 J
Isophorone	ug/Kg	4400	39 U	39 U	40 U	40 U	39 U	38 U	38 U
Naphthalene	ug/Kg	13000	1000	100 J	130 J	40 U	39 U	38 U	38 U
Nitrobenzene	ug/Kg	200	39 U	39 U	40 U	40 U	39 U	38 U	38 U
Phenanthrene	ug/Kg	50000	22000	2000	2400	290	420	38 U	280
Phenol	ug/Kg	30	44 J	39 U	40 U	40 U	39 U	38 U	38 U
Pyrene	ug/Kg	50000	23000	2100	2300	370	830	38 U	430

Notes:

990 : Bold indicate concentration exceeding the NYSDEC TAGM 4046 st.

U : compound was not detected

J: estimated value (the results greater than the MDL and less than the L

NYSDEC TAGM 4046: Technical and Administrative Guidance Memorandum

NYSDEC: New York State Department of Environmental Conservation

MDL: method detection limit

LOQ: limit of quantitation

ug/Kg : micrograms per Kilogram

APPENDIX A

AIRBORNE PARTICULATES MONITORING DATA

Chevron - Recreation Area Site
Beacon, New York

Background Particulate Monitoring Data
November 30, 2005

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 01

Number of logged points: 53

Start time and date: 08:05:55 30-Nov

Elapsed time: 08:50:00

Logging period (sec): 600

Calibration Factor (%): 100

Max Display Concentration: 0.191 mg/m³

Time at maximum: 17:02:18 Nov 30

Max STEL Concentration: 0.000 mg/m³

Time at max STEL: 08:05:55 Nov 30

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	30-Nov	08:15:55	0
2	30-Nov	08:25:55	0
3	30-Nov	08:35:55	0
4	30-Nov	08:45:55	0
5	30-Nov	08:55:55	0
6	30-Nov	09:05:55	0
7	30-Nov	09:15:55	0
8	30-Nov	09:25:55	0
9	30-Nov	09:35:55	0
10	30-Nov	09:45:55	0
11	30-Nov	09:55:55	0
12	30-Nov	10:05:55	0
13	30-Nov	10:15:55	0
14	30-Nov	10:25:55	0
15	30-Nov	10:35:55	0
16	30-Nov	10:45:55	0
17	30-Nov	10:55:55	0
18	30-Nov	11:05:55	0
19	30-Nov	11:15:55	0
20	30-Nov	11:25:55	0
21	30-Nov	11:35:55	0
22	30-Nov	11:45:55	0
23	30-Nov	11:55:55	0
24	30-Nov	12:05:55	0
25	30-Nov	12:15:55	0
26	30-Nov	12:25:55	0
27	30-Nov	12:35:55	0
28	30-Nov	12:45:55	0
29	30-Nov	12:55:55	0
30	30-Nov	13:05:55	0

**Chevron - Recreation Area Site
Beacon, New York**

**Background Particulate Monitoring Data
November 30, 2005**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	30-Nov	13:15:55	0
32	30-Nov	13:25:55	0
33	30-Nov	13:35:55	0
34	30-Nov	13:45:55	0
35	30-Nov	13:55:55	0
36	30-Nov	14:05:55	0
37	30-Nov	14:15:55	0
38	30-Nov	14:25:55	0
39	30-Nov	14:35:55	0
40	30-Nov	14:45:55	0
41	30-Nov	14:55:55	0
42	30-Nov	15:05:55	0
43	30-Nov	15:15:55	0
44	30-Nov	15:25:55	0
45	30-Nov	15:35:55	0
46	30-Nov	15:45:55	0
47	30-Nov	15:55:55	0
48	30-Nov	16:05:55	0
49	30-Nov	16:15:55	0
50	30-Nov	16:25:55	0
51	30-Nov	16:35:55	0
52	30-Nov	16:45:55	0
53	30-Nov	16:55:55	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
December 19, 2005**

pDR-1000

User ID: pine 01168 PDR1000AN

Tag Number: 02

Number of logged points: 13

Start time and date: 12:56:35 19-Dec

Elapsed time: 02:10:00

Logging period (sec): 600

Calibration Factor (%): 100

Max Display Concentration: 0.511 mg/m³

Time at maximum: 14:04:43 Dec 19

Max STEL Concentration: 0.041 mg/m³

Time at max STEL: 14:16:35 Dec 19

Overall Avg Conc: 0.012 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	19-Dec	13:06:35	0.012
2	19-Dec	13:16:35	0.01
3	19-Dec	13:26:35	0.009
4	19-Dec	13:36:35	0.008
5	19-Dec	13:46:35	0.008
6	19-Dec	13:56:35	0.008
7	19-Dec	14:06:35	0.044
8	19-Dec	14:16:35	0.021
9	19-Dec	14:26:35	0.009
10	19-Dec	14:36:35	0.007
11	19-Dec	14:46:35	0.006
12	19-Dec	14:56:35	0.006
13	19-Dec	15:06:35	0.006

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
December 20, 2005**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 03

Number of logged points: 36

Start time and date: 08:59:23 20-Dec

Elapsed time: 06:00:00

Logging period (sec): 600

Calibration Factor (%): 100

Max Display Concentration: 3.908 mg/m³

Time at maximum: 10:47:28 Dec 20

Max STEL Concentration: 0.240 mg/m³

Time at max STEL: 10:52:53 Dec 20

Overall Avg Conc: 0.035 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	20-Dec	09:09:23	0.023
2	20-Dec	09:19:23	0.022
3	20-Dec	09:29:23	0.021
4	20-Dec	09:39:23	0.021
5	20-Dec	09:49:23	0.022
6	20-Dec	09:59:23	0.023
7	20-Dec	10:09:23	0.021
8	20-Dec	10:19:23	0.021
9	20-Dec	10:29:23	0.021
10	20-Dec	10:39:23	0.029
11	20-Dec	10:49:23	0.334
12	20-Dec	10:59:23	0.049
13	20-Dec	11:09:23	0.027
14	20-Dec	11:19:23	0.026
15	20-Dec	11:29:23	0.025
16	20-Dec	11:39:23	0.023
17	20-Dec	11:49:23	0.023
18	20-Dec	11:59:23	0.022
19	20-Dec	12:09:23	0.021
20	20-Dec	12:19:23	0.023
21	20-Dec	12:29:23	0.022
22	20-Dec	12:39:23	0.021
23	20-Dec	12:49:23	0.024
24	20-Dec	12:59:23	0.024
25	20-Dec	13:09:23	0.021
26	20-Dec	13:19:23	0.026
27	20-Dec	13:29:23	0.028
28	20-Dec	13:39:23	0.025
29	20-Dec	13:49:23	0.026
30	20-Dec	13:59:23	0.024

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
December 20, 2005**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	20-Dec	14:09:23	0.023
32	20-Dec	14:19:23	0.022
33	20-Dec	14:29:23	0.082
34	20-Dec	14:39:23	0.042
35	20-Dec	14:49:23	0.032
36	20-Dec	14:59:23	0.025

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Air Monitoring Data
January 12, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 04

Number of logged points: 49

Start time and date: 10:11:17 12-Jan

Elapsed time: 04:05:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.015 mg/m³

Time at maximum: 13:51:16 Jan 12

Max STEL Concentration: 0.001 mg/m³

Time at max STEL: 11:40:17 Jan 12

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	12-Jan	10:16:17	0
2	12-Jan	10:21:17	0
3	12-Jan	10:26:17	0
4	12-Jan	10:31:17	0
5	12-Jan	10:36:17	0
6	12-Jan	10:41:17	0
7	12-Jan	10:46:17	0
8	12-Jan	10:51:17	0
9	12-Jan	10:56:17	0
10	12-Jan	11:01:17	0
11	12-Jan	11:06:17	0
12	12-Jan	11:11:17	0
13	12-Jan	11:16:17	0.001
14	12-Jan	11:21:17	0.001
15	12-Jan	11:26:17	0
16	12-Jan	11:31:17	0.001
17	12-Jan	11:36:17	0.001
18	12-Jan	11:41:17	0.001
19	12-Jan	11:46:17	0.001
20	12-Jan	11:51:17	0.001
21	12-Jan	11:56:17	0.001
22	12-Jan	12:01:17	0.001
23	12-Jan	12:06:17	0.001
24	12-Jan	12:11:17	0.001
25	12-Jan	12:16:17	0.001
26	12-Jan	12:21:17	0
27	12-Jan	12:26:17	0
28	12-Jan	12:31:17	0
29	12-Jan	12:36:17	0
30	12-Jan	12:41:17	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Air Monitoring Data
January 12, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	12-Jan	12:46:17	0
32	12-Jan	12:51:17	0
33	12-Jan	12:56:17	0
34	12-Jan	13:01:17	0.001
35	12-Jan	13:06:17	0
36	12-Jan	13:11:17	0
37	12-Jan	13:16:17	0
38	12-Jan	13:21:17	0
39	12-Jan	13:26:17	0
40	12-Jan	13:31:17	0
41	12-Jan	13:36:17	0
42	12-Jan	13:41:17	0
43	12-Jan	13:46:17	0
44	12-Jan	13:51:17	0
45	12-Jan	13:56:17	0
46	12-Jan	14:01:17	0
47	12-Jan	14:06:17	0
48	12-Jan	14:11:17	0
49	12-Jan	14:16:17	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
January 16, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 05

Number of logged points: 8

Start time and date: 08:45:34 16-Jan

Elapsed time: 00:40:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.064 mg/m³

Time at maximum: 08:48:34 Jan 16

Max STEL Concentration: 0.059 mg/m³

Time at max STEL: 09:00:34 Jan 16

Overall Avg Conc: 0.058 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	16-Jan	08:50:34	0.06
2	16-Jan	08:55:34	0.059
3	16-Jan	09:00:34	0.059
4	16-Jan	09:05:34	0.058
5	16-Jan	09:10:34	0.058
6	16-Jan	09:15:34	0.058
7	16-Jan	09:20:34	0.058
8	16-Jan	09:25:34	0.058

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
January 17, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 06

Number of logged points: 63

Start time and date: 07:43:33 17-Jan

Elapsed time: 05:15:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.047 mg/m³

Time at maximum: 08:29:54 Jan 17

Max STEL Concentration: 0.021 mg/m³

Time at max STEL: 07:58:33 Jan 17

Overall Avg Conc: 0.009 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	17-Jan	07:48:33	0
2	17-Jan	07:53:33	0
3	17-Jan	07:58:33	0.002
4	17-Jan	08:03:33	0
5	17-Jan	08:08:33	0
6	17-Jan	08:13:33	0.001
7	17-Jan	08:18:33	0.001
8	17-Jan	08:23:33	0.005
9	17-Jan	08:28:33	0.008
10	17-Jan	08:33:33	0.009
11	17-Jan	08:38:33	0.012
12	17-Jan	08:43:33	0.016
13	17-Jan	08:48:33	0.021
14	17-Jan	08:53:33	0.018
15	17-Jan	08:58:33	0.009
16	17-Jan	09:03:33	0.012
17	17-Jan	09:08:33	0.014
18	17-Jan	09:13:33	0.013
19	17-Jan	09:18:33	0.014
20	17-Jan	09:23:33	0.014
21	17-Jan	09:28:33	0.014
22	17-Jan	09:33:33	0.013
23	17-Jan	09:38:33	0.012
24	17-Jan	09:43:33	0.012
25	17-Jan	09:48:33	0.013
26	17-Jan	09:53:33	0.012
27	17-Jan	09:58:33	0.01
28	17-Jan	10:03:33	0.009
29	17-Jan	10:08:33	0.007
30	17-Jan	10:13:33	0.007

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
January 17, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	17-Jan	10:18:33	0.007
32	17-Jan	10:23:33	0.005
33	17-Jan	10:28:33	0.006
34	17-Jan	10:33:33	0.006
35	17-Jan	10:38:33	0.008
36	17-Jan	10:43:33	0.012
37	17-Jan	10:48:33	0.008
38	17-Jan	10:53:33	0.008
39	17-Jan	10:58:33	0.01
40	17-Jan	11:03:33	0.007
41	17-Jan	11:08:33	0.009
42	17-Jan	11:13:33	0.008
43	17-Jan	11:18:33	0.009
44	17-Jan	11:23:33	0.009
45	17-Jan	11:28:33	0.01
46	17-Jan	11:33:33	0.008
47	17-Jan	11:38:33	0.008
48	17-Jan	11:43:33	0.009
49	17-Jan	11:48:33	0.01
50	17-Jan	11:53:33	0.01
51	17-Jan	11:58:33	0.01
52	17-Jan	12:03:33	0.01
53	17-Jan	12:08:33	0.009
54	17-Jan	12:13:33	0.008
55	17-Jan	12:18:33	0.011
56	17-Jan	12:23:33	0.01
57	17-Jan	12:28:33	0.011
58	17-Jan	12:33:33	0.01
59	17-Jan	12:38:33	0.009
60	17-Jan	12:43:33	0.009
61	17-Jan	12:48:33	0.01
62	17-Jan	12:53:33	0.01
63	17-Jan	12:58:33	0.01

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
January 30, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 01

Number of logged points: 47

Start time and date: 11:56:07 30-Jan

Elapsed time: 03:55:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.789 mg/m³

Time at maximum: 14:33:57 Jan 30

Max STEL Concentration: 0.037 mg/m³

Time at max STEL: 15:18:38 Jan 30

Overall Avg Conc: 0.011 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	30-Jan	12:01:07	0
2	30-Jan	12:06:07	0
3	30-Jan	12:11:07	0.001
4	30-Jan	12:16:07	0.001
5	30-Jan	12:21:07	0
6	30-Jan	12:26:07	0
7	30-Jan	12:31:07	0.001
8	30-Jan	12:36:07	0.001
9	30-Jan	12:41:07	0
10	30-Jan	12:46:07	0
11	30-Jan	12:51:07	0.005
12	30-Jan	12:56:07	0
13	30-Jan	13:01:07	0.013
14	30-Jan	13:06:07	0.002
15	30-Jan	13:11:07	0.024
16	30-Jan	13:16:07	0.005
17	30-Jan	13:21:07	0.055
18	30-Jan	13:26:07	0.008
19	30-Jan	13:31:07	0.001
20	30-Jan	13:36:07	0
21	30-Jan	13:41:07	0.001
22	30-Jan	13:46:07	0
23	30-Jan	13:51:07	0.011
24	30-Jan	13:56:07	0.001
25	30-Jan	14:01:07	0.052
26	30-Jan	14:06:07	0.019
27	30-Jan	14:11:07	0.031
28	30-Jan	14:16:07	0.001
29	30-Jan	14:21:07	0
30	30-Jan	14:26:07	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
January 30, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	30-Jan	14:31:07	0
32	30-Jan	14:36:07	0.062
33	30-Jan	14:41:07	0.013
34	30-Jan	14:46:07	0.014
35	30-Jan	14:51:07	0.01
36	30-Jan	14:56:07	0.032
37	30-Jan	15:01:07	0.014
38	30-Jan	15:06:07	0.012
39	30-Jan	15:11:07	0.082
40	30-Jan	15:16:07	0.013
41	30-Jan	15:21:07	0.015
42	30-Jan	15:26:07	0.018
43	30-Jan	15:31:07	0.014
44	30-Jan	15:36:07	0.013
45	30-Jan	15:41:07	0.007
46	30-Jan	15:46:07	0.001
47	30-Jan	15:51:07	0.002

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 1, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 02

Number of logged points: 87

Start time and date: 08:35:34 01-Feb

Elapsed time: 07:15:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.170 mg/m³

Time at maximum: 12:59:38 Feb 01

Max STEL Concentration: 0.001 mg/m³

Time at max STEL: 08:36:34 Feb 01

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	1-Feb	08:40:34	0.003
2	1-Feb	08:45:34	0
3	1-Feb	08:50:34	0
4	1-Feb	08:55:34	0
5	1-Feb	09:00:34	0
6	1-Feb	09:05:34	0.001
7	1-Feb	09:10:34	0
8	1-Feb	09:15:34	0
9	1-Feb	09:20:34	0.001
10	1-Feb	09:25:34	0
11	1-Feb	09:30:34	0
12	1-Feb	09:35:34	0.007
13	1-Feb	09:40:34	0
14	1-Feb	09:45:34	0
15	1-Feb	09:50:34	0
16	1-Feb	09:55:34	0
17	1-Feb	10:00:34	0
18	1-Feb	10:05:34	0
19	1-Feb	10:10:34	0
20	1-Feb	10:15:34	0
21	1-Feb	10:20:34	0
22	1-Feb	10:25:34	0
23	1-Feb	10:30:34	0
24	1-Feb	10:35:34	0
25	1-Feb	10:40:34	0
26	1-Feb	10:45:34	0
27	1-Feb	10:50:34	0
28	1-Feb	10:55:34	0
29	1-Feb	11:00:34	0
30	1-Feb	11:05:34	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 1, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	1-Feb	11:10:34	0
32	1-Feb	11:15:34	0
33	1-Feb	11:20:34	0.002
34	1-Feb	11:25:34	0.011
35	1-Feb	11:30:34	0.001
36	1-Feb	11:35:34	0
37	1-Feb	11:40:34	0
38	1-Feb	11:45:34	0
39	1-Feb	11:50:34	0
40	1-Feb	11:55:34	0
41	1-Feb	12:00:34	0
42	1-Feb	12:05:34	0
43	1-Feb	12:10:34	0
44	1-Feb	12:15:34	0
45	1-Feb	12:20:34	0
46	1-Feb	12:25:34	0
47	1-Feb	12:30:34	0
48	1-Feb	12:35:34	0
49	1-Feb	12:40:34	0
50	1-Feb	12:45:34	0
51	1-Feb	12:50:34	0
52	1-Feb	12:55:34	0
53	1-Feb	13:00:34	0.005
54	1-Feb	13:05:34	0
55	1-Feb	13:10:34	0
56	1-Feb	13:15:34	0
57	1-Feb	13:20:34	0
58	1-Feb	13:25:34	0
59	1-Feb	13:30:34	0
60	1-Feb	13:35:34	0
61	1-Feb	13:40:34	0
62	1-Feb	13:45:34	0
63	1-Feb	13:50:34	0
64	1-Feb	13:55:34	0
65	1-Feb	14:00:34	0
66	1-Feb	14:05:34	0
67	1-Feb	14:10:34	0
68	1-Feb	14:15:34	0
69	1-Feb	14:20:34	0
70	1-Feb	14:25:34	0
71	1-Feb	14:30:34	0
72	1-Feb	14:35:34	0
73	1-Feb	14:40:34	0
74	1-Feb	14:45:34	0
75	1-Feb	14:50:34	0
76	1-Feb	14:55:34	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 1, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
77	1-Feb	15:00:34	0
78	1-Feb	15:05:34	0
79	1-Feb	15:10:34	0
80	1-Feb	15:15:34	0
81	1-Feb	15:20:34	0
82	1-Feb	15:25:34	0
83	1-Feb	15:30:34	0
84	1-Feb	15:35:34	0
85	1-Feb	15:40:34	0
86	1-Feb	15:45:34	0
87	1-Feb	15:50:34	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 2, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 03

Number of logged points: 85

Start time and date: 09:20:43 02-Feb

Elapsed time: 07:05:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.042 mg/m³

Time at maximum: 14:37:19 Feb 02

Max STEL Concentration: 0.002 mg/m³

Time at max STEL: 14:37:44 Feb 02

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	2-Feb	09:25:43	0
2	2-Feb	09:30:43	0
3	2-Feb	09:35:43	0.001
4	2-Feb	09:40:43	0
5	2-Feb	09:45:43	0
6	2-Feb	09:50:43	0
7	2-Feb	09:55:43	0
8	2-Feb	10:00:43	0.002
9	2-Feb	10:05:43	0
10	2-Feb	10:10:43	0
11	2-Feb	10:15:43	0
12	2-Feb	10:20:43	0
13	2-Feb	10:25:43	0
14	2-Feb	10:30:43	0
15	2-Feb	10:35:43	0
16	2-Feb	10:40:43	0
17	2-Feb	10:45:43	0
18	2-Feb	10:50:43	0
19	2-Feb	10:55:43	0
20	2-Feb	11:00:43	0
21	2-Feb	11:05:43	0
22	2-Feb	11:10:43	0.001
23	2-Feb	11:15:43	0
24	2-Feb	11:20:43	0
25	2-Feb	11:25:43	0
26	2-Feb	11:30:43	0.001
27	2-Feb	11:35:43	0.001
28	2-Feb	11:40:43	0
29	2-Feb	11:45:43	0
30	2-Feb	11:50:43	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 2, 2006**

31	2-Feb	11:55:43	0
32	2-Feb	12:00:43	0
33	2-Feb	12:05:43	0
34	2-Feb	12:10:43	0
35	2-Feb	12:15:43	0
36	2-Feb	12:20:43	0.001
37	2-Feb	12:25:43	0
38	2-Feb	12:30:43	0
39	2-Feb	12:35:43	0
40	2-Feb	12:40:43	0.001
41	2-Feb	12:45:43	0.001
42	2-Feb	12:50:43	0
43	2-Feb	12:55:43	0
44	2-Feb	13:00:43	0
45	2-Feb	13:05:43	0
46	2-Feb	13:10:43	0
47	2-Feb	13:15:43	0
48	2-Feb	13:20:43	0
49	2-Feb	13:25:43	0.001
50	2-Feb	13:30:43	0
51	2-Feb	13:35:43	0.001
52	2-Feb	13:40:43	0
53	2-Feb	13:45:43	0.001
54	2-Feb	13:50:43	0.001
55	2-Feb	13:55:43	0.002
56	2-Feb	14:00:43	0.001
57	2-Feb	14:05:43	0.001
58	2-Feb	14:10:43	0
59	2-Feb	14:15:43	0.001
60	2-Feb	14:20:43	0.002
61	2-Feb	14:25:43	0.001
62	2-Feb	14:30:43	0.001
63	2-Feb	14:35:43	0.001
64	2-Feb	14:40:43	0.003
65	2-Feb	14:45:43	0.002
66	2-Feb	14:50:43	0.001
67	2-Feb	14:55:43	0.001
68	2-Feb	15:00:43	0.001
69	2-Feb	15:05:43	0.001
70	2-Feb	15:10:43	0.001
71	2-Feb	15:15:43	0.001
72	2-Feb	15:20:43	0.002
73	2-Feb	15:25:43	0.001
74	2-Feb	15:30:43	0.001
75	2-Feb	15:35:43	0.001
76	2-Feb	15:40:43	0.002
77	2-Feb	15:45:43	0.001

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 2, 2006**

78	2-Feb	15:50:43	0.004
79	2-Feb	15:55:43	0.002
80	2-Feb	16:00:43	0.002
81	2-Feb	16:05:43	0.002
82	2-Feb	16:10:43	0.002
83	2-Feb	16:15:43	0.002
84	2-Feb	16:20:43	0.002
85	2-Feb	16:25:43	0.002

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 6, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 01

Number of logged points: 26

Start time and date: 12:43:28 06-Feb

Elapsed time: 02:10:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.039 mg/m³

Time at maximum: 12:54:56 Feb 06

Max STEL Concentration: 0.000 mg/m³

Time at max STEL: 12:43:28 Feb 06

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	6-Feb	12:48:28	0.001
2	6-Feb	12:53:28	0
3	6-Feb	12:58:28	0.002
4	6-Feb	13:03:28	0
5	6-Feb	13:08:28	0
6	6-Feb	13:13:28	0
7	6-Feb	13:18:28	0
8	6-Feb	13:23:28	0
9	6-Feb	13:28:28	0
10	6-Feb	13:33:28	0
11	6-Feb	13:38:28	0
12	6-Feb	13:43:28	0
13	6-Feb	13:48:28	0
14	6-Feb	13:53:28	0
15	6-Feb	13:58:28	0
16	6-Feb	14:03:28	0
17	6-Feb	14:08:28	0
18	6-Feb	14:13:28	0
19	6-Feb	14:18:28	0
20	6-Feb	14:23:28	0
21	6-Feb	14:28:28	0
22	6-Feb	14:33:28	0
23	6-Feb	14:38:28	0
24	6-Feb	14:43:28	0
25	6-Feb	14:48:28	0
26	6-Feb	14:53:28	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 7, 2006**

pDR-1000

User ID: pine 01168 PDR1000AN

Tag Number: 02

Number of logged points: 134

Start time and date: 10:52:26 07-Feb

Elapsed time: 11:10:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.219 mg/m³

Time at maximum: 14:33:23 Feb 07

Max STEL Concentration: 0.000 mg/m³

Time at max STEL: 10:52:26 Feb 07

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	7-Feb	10:57:26	0
2	7-Feb	11:02:26	0
3	7-Feb	11:07:26	0.001
4	7-Feb	11:12:26	0
5	7-Feb	11:17:26	0
6	7-Feb	11:22:26	0
7	7-Feb	11:27:26	0
8	7-Feb	11:32:26	0
9	7-Feb	11:37:26	0
10	7-Feb	11:42:26	0
11	7-Feb	11:47:26	0
12	7-Feb	11:52:26	0
13	7-Feb	11:57:26	0
14	7-Feb	12:02:26	0
15	7-Feb	12:07:26	0
16	7-Feb	12:12:26	0
17	7-Feb	12:17:26	0
18	7-Feb	12:22:26	0
19	7-Feb	12:27:26	0
20	7-Feb	12:32:26	0
21	7-Feb	12:37:26	0
22	7-Feb	12:42:26	0
23	7-Feb	12:47:26	0
24	7-Feb	12:52:26	0
25	7-Feb	12:57:26	0
26	7-Feb	13:02:26	0.001
27	7-Feb	13:07:26	0
28	7-Feb	13:12:26	0
29	7-Feb	13:17:26	0
30	7-Feb	13:22:26	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 7, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	7-Feb	13:27:26	0
32	7-Feb	13:32:26	0
33	7-Feb	13:37:26	0
34	7-Feb	13:42:26	0
35	7-Feb	13:47:26	0
36	7-Feb	13:52:26	0
37	7-Feb	13:57:26	0
38	7-Feb	14:02:26	0
39	7-Feb	14:07:26	0
40	7-Feb	14:12:26	0
41	7-Feb	14:17:26	0
42	7-Feb	14:22:26	0
43	7-Feb	14:27:26	0.002
44	7-Feb	14:32:26	0
45	7-Feb	14:37:26	0.016
46	7-Feb	14:42:26	0
47	7-Feb	14:47:26	0
48	7-Feb	14:52:26	0
49	7-Feb	14:57:26	0
50	7-Feb	15:02:26	0
51	7-Feb	15:07:26	0
52	7-Feb	15:12:26	0
53	7-Feb	15:17:26	0.001
54	7-Feb	15:22:26	0
55	7-Feb	15:27:26	0
56	7-Feb	15:32:26	0.002
57	7-Feb	15:37:26	0
58	7-Feb	15:42:26	0
59	7-Feb	15:47:26	0
60	7-Feb	15:52:26	0
61	7-Feb	15:57:26	0
62	7-Feb	16:02:26	0
63	7-Feb	16:07:26	0.013
64	7-Feb	16:12:26	0.003
65	7-Feb	16:17:26	0.001
66	7-Feb	16:22:26	0
67	7-Feb	16:27:26	0.008
68	7-Feb	16:32:26	0.007
69	7-Feb	16:37:26	0.006
70	7-Feb	16:42:26	0.001

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 9, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 01

Number of logged points: 91

Start time and date: 07:54:44 09-Feb

Elapsed time: 07:35:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.274 mg/m³

Time at maximum: 09:16:27 Feb 09

Max STEL Concentration: 0.005 mg/m³

Time at max STEL: 09:21:44 Feb 09

Overall Avg Conc: 0.000 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	9-Feb	07:59:44	0.009
2	9-Feb	08:04:44	0.002
3	9-Feb	08:09:44	0.001
4	9-Feb	08:14:44	0
5	9-Feb	08:19:44	0.006
6	9-Feb	08:24:44	0
7	9-Feb	08:29:44	0
8	9-Feb	08:34:44	0.001
9	9-Feb	08:39:44	0
10	9-Feb	08:44:44	0
11	9-Feb	08:49:44	0
12	9-Feb	08:54:44	0
13	9-Feb	08:59:44	0
14	9-Feb	09:04:44	0
15	9-Feb	09:09:44	0.002
16	9-Feb	09:14:44	0
17	9-Feb	09:19:44	0.03
18	9-Feb	09:24:44	0.001
19	9-Feb	09:29:44	0
20	9-Feb	09:34:44	0.014
21	9-Feb	09:39:44	0.005
22	9-Feb	09:44:44	0.001
23	9-Feb	09:49:44	0
24	9-Feb	09:54:44	0.001
25	9-Feb	09:59:44	0.002
26	9-Feb	10:04:44	0.009
27	9-Feb	10:09:44	0.001
28	9-Feb	10:14:44	0
29	9-Feb	10:19:44	0
30	9-Feb	10:24:44	0.005

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 9, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	9-Feb	10:29:44	0
32	9-Feb	10:34:44	0
33	9-Feb	10:39:44	0
34	9-Feb	10:44:44	0
35	9-Feb	10:49:44	0
36	9-Feb	10:54:44	0
37	9-Feb	10:59:44	0
38	9-Feb	11:04:44	0
39	9-Feb	11:09:44	0.003
40	9-Feb	11:14:44	0
41	9-Feb	11:19:44	0
42	9-Feb	11:24:44	0
43	9-Feb	11:29:44	0
44	9-Feb	11:34:44	0
45	9-Feb	11:39:44	0
46	9-Feb	11:44:44	0
47	9-Feb	11:49:44	0
48	9-Feb	11:54:44	0
49	9-Feb	11:59:44	0
50	9-Feb	12:04:44	0
51	9-Feb	12:09:44	0
52	9-Feb	12:14:44	0.003
53	9-Feb	12:19:44	0
54	9-Feb	12:24:44	0
55	9-Feb	12:29:44	0
56	9-Feb	12:34:44	0
57	9-Feb	12:39:44	0
58	9-Feb	12:44:44	0
59	9-Feb	12:49:44	0
60	9-Feb	12:54:44	0
61	9-Feb	12:59:44	0
62	9-Feb	13:04:44	0
63	9-Feb	13:09:44	0
64	9-Feb	13:14:44	0
65	9-Feb	13:19:44	0
66	9-Feb	13:24:44	0
67	9-Feb	13:29:44	0
68	9-Feb	13:34:44	0
69	9-Feb	13:39:44	0
70	9-Feb	13:44:44	0
71	9-Feb	13:49:44	0
72	9-Feb	13:54:44	0
73	9-Feb	13:59:44	0
74	9-Feb	14:04:44	0
75	9-Feb	14:09:44	0
76	9-Feb	14:14:44	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 9, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
77	9-Feb	14:19:44	0
78	9-Feb	14:24:44	0
79	9-Feb	14:29:44	0
80	9-Feb	14:34:44	0
81	9-Feb	14:39:44	0
82	9-Feb	14:44:44	0
83	9-Feb	14:49:44	0
84	9-Feb	14:54:44	0
85	9-Feb	14:59:44	0
86	9-Feb	15:04:44	0
87	9-Feb	15:09:44	0
88	9-Feb	15:14:44	0
89	9-Feb	15:19:44	0
90	9-Feb	15:24:44	0
91	9-Feb	15:29:44	0

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 14, 2006**

pDR-1000

User ID: pine 01168 PDR1000AN

Tag Number: 01

Number of logged points: 55

Start time and date: 11:00:01 14-Feb

Elapsed time: 04:35:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.220 mg/m³

Time at maximum: 14:35:58 Feb 14

Max STEL Concentration: 0.013 mg/m³

Time at max STEL: 13:14:32 Feb 14

Overall Avg Conc: 0.007 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	14-Feb	11:05:01	0.011
2	14-Feb	11:10:01	0.009
3	14-Feb	11:15:01	0.008
4	14-Feb	11:20:01	0.008
5	14-Feb	11:25:01	0.008
6	14-Feb	11:30:01	0.008
7	14-Feb	11:35:01	0.008
8	14-Feb	11:40:01	0.008
9	14-Feb	11:45:01	0.008
10	14-Feb	11:50:01	0.009
11	14-Feb	11:55:01	0.008
12	14-Feb	12:00:01	0.009
13	14-Feb	12:05:01	0.009
14	14-Feb	12:10:01	0.009
15	14-Feb	12:15:01	0.009
16	14-Feb	12:20:01	0.009
17	14-Feb	12:25:01	0.01
18	14-Feb	12:30:01	0.01
19	14-Feb	12:35:01	0.009
20	14-Feb	12:40:01	0.009
21	14-Feb	12:45:01	0.008
22	14-Feb	12:50:01	0.008
23	14-Feb	12:55:01	0.008
24	14-Feb	13:00:01	0.008
25	14-Feb	13:05:01	0.021
26	14-Feb	13:10:01	0.009
27	14-Feb	13:15:01	0.009
28	14-Feb	13:20:01	0.01
29	14-Feb	13:25:01	0.007
30	14-Feb	13:30:01	0.008

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 14, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	14-Feb	13:35:01	0.007
32	14-Feb	13:40:01	0.008
33	14-Feb	13:45:01	0.008
34	14-Feb	13:50:01	0.006
35	14-Feb	13:55:01	0.008
36	14-Feb	14:00:01	0.006
37	14-Feb	14:05:01	0.008
38	14-Feb	14:10:01	0.005
39	14-Feb	14:15:01	0.007
40	14-Feb	14:20:01	0.005
41	14-Feb	14:25:01	0.005
42	14-Feb	14:30:01	0.004
43	14-Feb	14:35:01	0.004
44	14-Feb	14:40:01	0.023
45	14-Feb	14:45:01	0.004
46	14-Feb	14:50:01	0.004
47	14-Feb	14:55:01	0.003
48	14-Feb	15:00:01	0.003
49	14-Feb	15:05:01	0.003
50	14-Feb	15:10:01	0.004
51	14-Feb	15:15:01	0.004
52	14-Feb	15:20:01	0.004
53	14-Feb	15:25:01	0.005
54	14-Feb	15:30:01	0.005
55	14-Feb	15:35:01	0.003

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 15, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 02

Number of logged points: 55

Start time and date: 12:51:26 15-Feb

Elapsed time: 04:35:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.180 mg/m³

Time at maximum: 14:36:08 Feb 15

Max STEL Concentration: 0.024 mg/m³

Time at max STEL: 16:42:26 Feb 15

Overall Avg Conc: 0.017 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	15-Feb	12:56:26	0.012
2	15-Feb	13:01:26	0.011
3	15-Feb	13:06:26	0.014
4	15-Feb	13:11:26	0.014
5	15-Feb	13:16:26	0.015
6	15-Feb	13:21:26	0.015
7	15-Feb	13:26:26	0.016
8	15-Feb	13:31:26	0.016
9	15-Feb	13:36:26	0.015
10	15-Feb	13:41:26	0.015
11	15-Feb	13:46:26	0.016
12	15-Feb	13:51:26	0.016
13	15-Feb	13:56:26	0.015
14	15-Feb	14:01:26	0.015
15	15-Feb	14:06:26	0.017
16	15-Feb	14:11:26	0.017
17	15-Feb	14:16:26	0.019
18	15-Feb	14:21:26	0.017
19	15-Feb	14:26:26	0.019
20	15-Feb	14:31:26	0.022
21	15-Feb	14:36:26	0.025
22	15-Feb	14:41:26	0.018
23	15-Feb	14:46:26	0.017
24	15-Feb	14:51:26	0.017
25	15-Feb	14:56:26	0.016
26	15-Feb	15:01:26	0.015
27	15-Feb	15:06:26	0.016
28	15-Feb	15:11:26	0.014
29	15-Feb	15:16:26	0.013
30	15-Feb	15:21:26	0.014

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 15, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
31	15-Feb	15:26:26	0.015
32	15-Feb	15:31:26	0.017
33	15-Feb	15:36:26	0.014
34	15-Feb	15:41:26	0.013
35	15-Feb	15:46:26	0.023
36	15-Feb	15:51:26	0.019
37	15-Feb	15:56:26	0.016
38	15-Feb	16:01:26	0.019
39	15-Feb	16:06:26	0.02
40	15-Feb	16:11:26	0.022
41	15-Feb	16:16:26	0.021
42	15-Feb	16:21:26	0.021
43	15-Feb	16:26:26	0.022
44	15-Feb	16:31:26	0.024
45	15-Feb	16:36:26	0.023
46	15-Feb	16:41:26	0.023
47	15-Feb	16:46:26	0.022
48	15-Feb	16:51:26	0.02
49	15-Feb	16:56:26	0.021
50	15-Feb	17:01:26	0.018
51	15-Feb	17:06:26	0.017
52	15-Feb	17:11:26	0.017
53	15-Feb	17:16:26	0.017
54	15-Feb	17:21:26	0.016
55	15-Feb	17:26:26	0.015

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 20, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 03

Number of logged points: 67

Start time and date: 08:55:56 20-Feb

Elapsed time: 05:35:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 5.374 mg/m³

Time at maximum: 11:16:55 Feb 20

Max STEL Concentration: 0.092 mg/m³

Time at max STEL: 11:23:27 Feb 20

Overall Avg Conc: 0.008 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	20-Feb	09:00:56	0.005
2	20-Feb	09:05:56	0.003
3	20-Feb	09:10:56	0.005
4	20-Feb	09:15:56	0.003
5	20-Feb	09:20:56	0.004
6	20-Feb	09:25:56	0.005
7	20-Feb	09:30:56	0.006
8	20-Feb	09:35:56	0.006
9	20-Feb	09:40:56	0.004
10	20-Feb	09:45:56	0.003
11	20-Feb	09:50:56	0.004
12	20-Feb	09:55:56	0.005
13	20-Feb	10:00:56	0.035
14	20-Feb	10:05:56	0.003
15	20-Feb	10:10:56	0.003
16	20-Feb	10:15:56	0.006
17	20-Feb	10:20:56	0.004
18	20-Feb	10:25:56	0.004
19	20-Feb	10:30:56	0.006
20	20-Feb	10:35:56	0.004
21	20-Feb	10:40:56	0.005
22	20-Feb	10:45:56	0.008
23	20-Feb	10:50:56	0.005
24	20-Feb	10:55:56	0.004
25	20-Feb	11:00:56	0.003
26	20-Feb	11:05:56	0.005
27	20-Feb	11:10:56	0.005
28	20-Feb	11:15:56	0.003
30	20-Feb	11:25:56	0.005
31	20-Feb	11:30:56	0.002

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
February 20, 2006**

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
32	20-Feb	11:35:56	0.002
33	20-Feb	11:40:56	0.002
34	20-Feb	11:45:56	0.005
35	20-Feb	11:50:56	0.003
36	20-Feb	11:55:56	0.002
37	20-Feb	12:00:56	0.002
38	20-Feb	12:05:56	0.002
39	20-Feb	12:10:56	0.002
40	20-Feb	12:15:56	0.002
41	20-Feb	12:20:56	0.002
42	20-Feb	12:25:56	0.002
43	20-Feb	12:30:56	0.002
44	20-Feb	12:35:56	0.002
45	20-Feb	12:40:56	0.002
46	20-Feb	12:45:56	0.003
47	20-Feb	12:50:56	0.002
48	20-Feb	12:55:56	0.004
49	20-Feb	13:00:56	0.003
50	20-Feb	13:05:56	0.002
51	20-Feb	13:10:56	0.002
52	20-Feb	13:15:56	0.002
53	20-Feb	13:20:56	0.003
54	20-Feb	13:25:56	0.003
55	20-Feb	13:30:56	0.002
56	20-Feb	13:35:56	0.003
57	20-Feb	13:40:56	0.001
58	20-Feb	13:45:56	0.001
59	20-Feb	13:50:56	0.007
60	20-Feb	13:55:56	0.001
61	20-Feb	14:00:56	0.002
62	20-Feb	14:05:56	0.001
63	20-Feb	14:10:56	0.004
64	20-Feb	14:15:56	0.001
65	20-Feb	14:20:56	0.001
66	20-Feb	14:25:56	0.001
67	20-Feb	14:30:56	0.001

**Chevron - Recreation Area Site
Beacon, New York**

**Downwind Particulate Monitoring Data
March 21, 2006**

pDR-1000 S/N: 03551

User ID: pine 01168 PDR1000AN

Tag Number: 01

Number of logged points: 24

Start time and date: 10:09:46 21-Mar

Elapsed time: 02:00:00

Logging period (sec): 300

Calibration Factor (%): 100

Max Display Concentration: 0.582 mg/m³

Time at maximum: 10:43:37 Mar 21

Max STEL Concentration: 0.016 mg/m³

Time at max STEL: 10:55:46 Mar 21

Overall Avg Conc: 0.002 mg/m³

Logged Data:

<u>Point</u>	<u>Date</u>	<u>Time</u>	<u>Avg.(mg/m³)</u>
1	21-Mar	10:14:46	0.006
2	21-Mar	10:19:46	0.007
3	21-Mar	10:24:46	0.001
4	21-Mar	10:29:46	0
5	21-Mar	10:34:46	0.002
6	21-Mar	10:39:46	0.007
7	21-Mar	10:44:46	0.037
8	21-Mar	10:49:46	0.006
9	21-Mar	10:54:46	0.006
10	21-Mar	10:59:46	0.006
11	21-Mar	11:04:46	0.006
12	21-Mar	11:09:46	0.001
13	21-Mar	11:14:46	0.002
14	21-Mar	11:19:46	0.003
15	21-Mar	11:24:46	0.02
16	21-Mar	11:29:46	0.001
17	21-Mar	11:34:46	0
18	21-Mar	11:39:46	0
19	21-Mar	11:44:46	0
20	21-Mar	11:49:46	0
21	21-Mar	11:54:46	0
22	21-Mar	11:59:46	0
23	21-Mar	12:04:46	0
24	21-Mar	12:09:46	0

APPENDIX B
SLURRY WALL DATA QUALITY ASSURANCE LOGS

Contractors Verification: The above report is complete and correct and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above

Dave Kelley

Dave Kelley

Contractors Verification: The above report is complete and correct and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above
Dave Kelley *Dave Kelley*

APPENDIX C
CARBON UNIT SAMPLING RESULTS AND DISPOSAL
DOCUMENTATION



2523 Mutahar Street - Box 3308 Parker, AZ 85344 AZD 982 441 263
11711 Reading Road Red Bluff, CA 96080 CAR 000 058 784

April 12, 2006

Consultant:

J.S. Paulsen
Parsons
Phone: (716) 432-7685
FAX: (716) 633-7195

Generator Mailing Address:

(713) 432-2634
Chevron Bellaire Bldg.
4800 Fournace Pl., Room E534C
Bellaire, TX 77401-

The following Spent Carbon Profile has been approved for acceptance at USF Westates:

Generator:	Chevron Bellaire Bldg.		
EPA ID:	n/a		
Site Address:	45 Old Kenhan Road Beacon, NY		
Waste Codes:	None	No Waste Codes Per Generator	
Carbon Type:	Aqueous		
PH Range:	4.1 to 10.5		
Profile Number:	W60226AC		
Valid Through:	4/12/2008		

Please feel free to call the undersigned at (928) 669-5758 if you have any questions.

Sincerely,

Deborah Foster
Profiling Chemist

USF Westates has all the necessary permits and licenses for the waste that has been characterized and identified by this profile.

Los Angeles	Oakland	New Jersey	Texas	Red Bluff
800.659.1771	800.659.1718	800.659.1717	800.659.1723	800.795.2664

APPENDIX D
K-SORB PRODUCT SHEET AND MATERIAL SAFETY DATA
SHEET



Sludge Stabilization . . . Liquid Waste Solidification . . . Remediation Projects . . . Tank Clear

K-Sorb® Universal Fiber Absorbent- a highly absorbent cellulose product used to solidify liquid waste, stabilize sludge for transportation and disposal (including incineration). This specialty fiber is used to absorb liquid and satisfy EPA test requirements (i.e., paint filter tests) for waste prior to disposal. K-Sorb® Fiber has superior absorbency and is less costly to dispose of than fly ash, diatomite, clay, corn cobs, rice hulls, and bulking agents. K-Sorb® is available in 30 lb. and 40 lb. compressed bales.

Highly Absorbent K-Sorb® Fiber can absorb an amazing 13 times its weight in water, and over 8 times following table shows how K-Sorb® Fiber's superior absorption affects a 1,000 gallon project from inception to completion.

Absorbency Analysis (1000 gallons free liquid)

Source: Pollution Technology Review No. 150

	Absorbency Ratio	Absorbent Required (lb.)	Disposal Weight
K-Sorb® Fiber	13	640	8,980
Clay	1.0	8,340	16,680
Fly Ash or Diatomite	1.4	5,900	14,240
Relative Savings		89-92%	37-46%

Disposable As Fuel K-Sorb® Universal Fiber has high heat content (adding 8,484 btu/lb.), can be liquefied and qualifies under RCRA for cost-effective and permanent disposal as fuel through incineration. Inorganic materials such as clay and fly ash do not, making their disposal means more limited and costly than those of K-Sorb.

Made from Recycled Fiber Not only does K-Sorb® reduce the amount of waste requiring disposal up to 90%, it is made from 98.5% recycled fiber that otherwise would go to a landfill.

K-Sorb® Universal Fiber
PN 5500008; 40 lbs/bag
24 bags/pallet

K-Sorb® Universal Fiber
PN 5500013; 30 lbs/bag
24 bags/pallet

The environment and your budget agree . . . Make it K-Sorb®!

Please call 1-800-551-9956 for free product support and pricing.

CLICK FOR FREE PRODUCT SAMPLE

K-Sorb® products are patented

☐ [sludge stabilization remediation absorbents - more absorbent than fly ash, lime kiln dust, cement kiln dust](#)

[\[BioCel Home\]](#) [\[Univ. Particulate Absorbents\]](#) [\[Hydrophobic Absorbents\]](#) [\[Packing Absorbents\]](#) [\[About BioCel\]](#)

BioCel Technologies, 12315 Robin Blvd., Houston, TX 77045
Phone: (713) 413-1173, Fax: (713) 433-2029, E-Mail: sales@ecosorb.com

SUBMITTAL FORM

TO: Parsons
180 Lawrence Bell Dr
Williamsville, NY 14221

Submittal No. 6

Date: 1/26/2006	Job No.: 442044
RE: CVX Recreation Area	
Soil Amendment	
K-Sorb	

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☐ Shop drawings ☐ Attached ☐ Under separate cover via _____ the following items:
☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
Dated: _____ ☐ Change Order ☒ Submittal #6

COPIES	DATE	NO.	DESCRIPTION
1	1/26/2006	1	K-Sorb Product sheet, MSDS

THESE ARE TRANSMITTED as checked below:

- | | | |
|---|---|--|
| ☐ For approval | ☐ For checking | ☐ Resubmit ____ copies for approval |
| ☐ For your use | ☐ Approved as submitted | ☐ Design only, not for construction |
| ☐ For review and comment | ☐ Approved as noted | ☐ Return ____ corrected prints |
| ☐ For your action | ☐ Returned for corrections | ☐ Resubmit items noted |

REMARKS:

COPY TO:

SIGNED: Paul McCorvey

If enclosures are not as noted, please notify us at once.

MANUFACTURER Ecosorb International, Inc. 12315 Robin Blvd. Houston, TX 77045		PRODUCT IDENTIFICATION K-Sorb® Universal Fiber PN 5500008 and PN 5500013		PRODUCT DESCRIPTION Patented cellulose fiber absorbent used to stabilize sludge and absorb free liquids for transportation and disposal.	
INGREDIENTS/IDENTITY INFORMATION					
Component	CAS No.	OSHA PEL	ACGIH TLV	OSHA TWA	Percent
Macerated Paper	65998-61-4	None	None	15 mg/m ³	98.5
Other	N/A	None	None	None	1.5
PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point:	N/A	Vapor Pressure:	N/A	Vapor Density:	N/A
Specific Gravity:	0.86	Solubility:	N/A	Melting Point:	N/A
Evaporation Rate:	N/A	Odor:	None	Appearance:	Cellulose Material
REACTIVITY DATA					
Stability: Stable		Conditions to Avoid: Mixing with incompatible materials			
Hazardous Decomposition or Byproducts: None		Hazardous Polymerization: None			
Incompatible Materials:		Strong oxidizers; e.g. hydrogen peroxide, bromide, chromic acid (no hazardous reactions are expected under normal industrial use)			
FIRE/EXPLOSION HAZARDS			HEALTH HAZARD DATA		
Flammability Limits: N/A LEL: N/A UEL: N/A			Routes of Entry: Inhalation x Skin x Ingestion x		
Flash Point: >212° F			Health Hazards (Acute & Chronic): N/A		
Extinguishing Media: Water			Carcinogenicity		
Special Fire Fighting Procedures: N/A			NPT: N/E IARC Monographs: N/E		
Unusual Fire/Explosion Hazards: None			OSHA Regulated: No		
PRECAUTIONS FOR SAFE HANDLING & USE			Signs & Symptoms of Exposure: N/A		
Steps to be taken in case material is released or spilled: If material is unused, sweep up and place in suitable container for disposal.			Medical Conditions Aggravated by Exposure:		
Waste Disposal Method: If unused, no special precautions are necessary. In any event, dispose of according to all laws and regulations.			Skin irritation may occur in persons with existing skin lesions. Breathing of dust may aggravate acute or chronic asthma and other pulmonary diseases.		
Precautions to be taken in handling & storage: N/A			Emergency First Aid Procedures:		
Other Precautions: None			Inhalation: If signs of distress occur, remove individual to fresh air.		
			Eye Contact: Flush with fresh water		
			Skin Irritation: Wash skin with soap and water		
			Ingestions: Ingestion of small quantities is not considered harmful, however, if discomfort occurs, seek medical attention.		
CONTROL MEASURES					
Respiratory Protection: Use NIOSH/MSHA approved dust respirator if material is used in unventilated area, or if dust concentrations exceed specified exposure limits.					
Ventilation: Local Exhaust – Good Mechanical – Preferred Protective Gloves: No special requirements.					
Eye Protection: Not required. Always consider using safety glasses in an industrial environment.					
Other Protective Clothing or Equipment: N/A Work/Hygienic Practices: N/A					
Disclaimer of Expressed and Implied Warranties					
The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use.					
This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and the condition that he assume the risk of his use thereof.					

PARSONS

Letter of Transmittal

TO: Entact, Inc..
3129 Bass Pro Drive
Grapevine, Texas 76051

Date: 2/2/2006	Job No.: 442044
RE: CVX Recreation Area	
Submittal No. 6	

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☐ Shop drawings ☐ Attached ☐ Under separate cover via _____ the following items:
☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
Dated: _____ ☐ Change Order ☒ Submittal #6

COPIES	DATE	NO.	DESCRIPTION
1	1/26/2006	6	Product Sheet and MSDS for K-Sorb soil Amendment

THESE ARE TRANSMITTED as checked below:

- | | | |
|---|---|--|
| ☐ For approval | ☐ For checking | ☐ Resubmit ____ copies for approval |
| ☐ For your use | ☒ Approved as submitted | ☐ Design only, not for construction |
| ☐ For review and comment | ☐ Approved as noted | ☐ Return ____ corrected prints |
| ☐ For your action | ☐ Returned for corrections | ☐ Resubmit items noted |

REMARKS:

COPY TO: file 442044, distribution

SIGNED: _____

Jeffrey Parker

If enclosures are not as noted, please notify us at once.

C:\Documents and Settings\p0040069\Desktop\Chevron\Submittals\Submittal No. 6.doc

APPENDIX E
SUMMARY OF DISPOSAL MANIFESTS

Summary of Disposal Manifests
Recreation Area
Interim Corrective Measure
Former Texaco Research Facility
Beacon, New York

Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)
1/16/2006	233813	22.48	2/1/2006	233859	18.99	2/7/2006	233906	13.55
1/16/2006	233814	21.82	2/1/2006	233860	20.07	2/7/2006	233907	23.78
1/16/2006	233815	22.97	2/1/2006	233861	18.04	2/7/2006	233908	24.34
1/16/2006	233816	21.31	2/2/2006	233862	16.69	2/7/2006	233909	24.89
1/16/2006	233817	21.77	2/2/2006	233863	19.02	2/7/2006	233910	22.80
1/16/2006	233818	21.47	2/2/2006	233864	18.15	2/7/2006	233911	20.85
1/16/2006	233819	22.42	2/2/2006	233865	9.75	2/7/2006	233912	16.4
1/16/2006	233820	22.37	2/2/2006	233866	16.19	2/7/2006	233913	23.37
1/16/2006	233825	15.30	2/2/2006	233867	16.21	2/7/2006	233397	19.98
1/16/2006	233826	13.83	2/2/2006	233868	17.45	2/7/2006	233398	19.12
1/17/2006	233824	23.95	2/2/2006	233869	17.22	2/7/2006	233399	17.59
1/17/2006	233823	16.34	2/2/2006	233870	20.25	2/7/2006	233400	21.26
1/17/2006	233821	23.38	2/2/2006	233871	17.91	2/7/2006	233401	22.86
1/17/2006	233827	23.90	2/2/2006	233872	21.13	2/7/2006	233402	21.81
1/17/2006	233822	21.34	2/2/2006	233873	20.05	2/7/2006	233403	17.35
1/17/2006	233828	19.71	2/2/2006	233874	17.68	2/7/2006	233404	21.37
1/17/2006	233829	17.19	2/2/2006	233875	13.97	2/7/2006	233405	18.63
1/17/2006	233832	14.70	2/2/2006	233876	16.1	2/7/2006	233406	20.88
1/17/2006	233830	16.89	2/2/2006	233877	16.22	2/8/2006	233407	20.66
1/17/2006	233914	15.11	2/3/2006	233878	17.01	2/8/2006	233408	23.55
1/17/2006	233831	22.79	2/3/2006	233879	19.25	2/8/2006	233409	21.53
1/17/2006	233833	23.06	2/3/2006	233880	13.56	2/8/2006	233410	22.48
1/31/2006	233834	18.41	2/3/2006	233881	21.02	2/8/2006	233411	21.77
1/31/2006	233835	15.12	2/3/2006	233882	16.35	2/8/2006	233412	22.84
1/31/2006	233836	22.42	2/3/2006	233883	23.51	2/8/2006	233413	21.92
1/31/2006	233837	15.66	2/3/2006	233884	18.73	2/8/2006	233414	19.82
1/31/2006	233838	17.88	2/3/2006	233885	19.13	2/8/2006	233415	20.99
1/31/2006	233839	25.42	2/3/2006	233886	21.24	2/8/2006	233416	16.60
1/31/2006	233840	24.14	2/3/2006	233887	22.87	2/8/2006	233417	21.28
1/31/2006	233841	19.00	2/3/2006	233888	17.46	2/8/2006	233418	19.20
1/31/2006	233842	20.12	2/3/2006	233889	15.33	2/8/2006	233419	18.55
1/31/2006	233843	16.43	2/3/2006	233890	15.07	2/8/2006	233420	17.87
1/31/2006	233844	17.76	2/3/2006	233891	21.45	2/8/2006	233421	23.06
1/31/2006	233845	20.50	2/6/2006	233892	23.28	2/8/2006	233422	21.01
1/31/2006	233846	18.91	2/6/2006	233893	22.42	2/8/2006	233423	22.19
2/1/2006	233847	18.47	2/6/2006	233894	20.05	2/8/2006	233424	19.34
2/1/2006	233848	23.09	2/6/2006	233895	23.44	2/8/2006	233425	19.34
2/1/2006	233849	22.52	2/6/2006	233896	23.95	2/8/2006	233426	18.93
2/1/2006	233850	16.14	2/6/2006	233897	22.42	2/8/2006	233427	22.36
2/1/2006	233851	21.68	2/6/2006	233898	19.25	2/9/2006	233428	19.93
2/1/2006	233852	22.25	2/6/2006	233899	19.33	2/9/2006	233429	23.74
2/1/2006	233853	16.02	2/6/2006	233900	25.47	2/9/2006	233430	24.24
2/1/2006	233854	22.5	2/6/2006	233902	21.31	2/9/2006	233431	23.28
2/1/2006	233855	23.57	2/6/2006	233901	19.51	2/9/2006	233432	22.45
2/1/2006	233856	21.01	2/6/2006	233903	19.92	2/9/2006	233434	24.45
2/1/2006	233857	19.23	2/7/2006	233904	20.00	2/9/2006	233435	24.15
2/1/2006	233858	19.69	2/7/2006	233905	20.01	2/9/2006	233436	20.84

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Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)
2/9/2006	233437	21.53	2/13/2006	233487	25.22	2/15/2006	235617	18.44
2/9/2006	233441	18.54	2/13/2006	233488	22.20	2/15/2006	235616	20.71
2/9/2006	233438	22.06	2/13/2006	233489	24.42	2/15/2006	235619	22.26
2/9/2006	233439	24.90	2/13/2006	233490	23.52	2/15/2006	235620	23.73
2/9/2006	233440	22.18	2/13/2006	233491	24.40	2/15/2006	235621	22.38
2/9/2006	233442	19.18	2/13/2006	233500	23.79	2/15/2006	235622	20.06
2/9/2006	233443	18.61	2/13/2006	233492	23.42	2/15/2006	235623	18.06
2/9/2006	233444	19.25	2/13/2006	233493	23.96	2/15/2006	235624	21.92
2/9/2006	233445	20.07	2/13/2006	233494	23.35	2/16/2006	235625	23.54
2/9/2006	233446	22.86	2/13/2006	233495	19.43	2/16/2006	235626	22.30
2/9/2006	233447	19.71	2/14/2006	233458	22.81	2/16/2006	235627	20.29
2/9/2006	233448	21.54	2/14/2006	233496	23.66	2/16/2006	235628	25.63
2/9/2006	233449	22.94	2/14/2006	233497	24.69	2/16/2006	235629	21.37
2/9/2006	233450	21.38	2/14/2006	233498	20.73	2/16/2006	235630	23.31
2/10/2006	233451	23.73	2/14/2006	233499	24.5	2/16/2006	235631	23.37
2/10/2006	233453	20.78	2/14/2006	233679	23.99	2/16/2006	235632	21.90
2/10/2006	233452	22.90	2/14/2006	235609	24.67	2/16/2006	235633	22.52
2/10/2006	233454	23.26	2/14/2006	235608	21.36	2/16/2006	235634	23.99
2/10/2006	233455	21.27	2/14/2006	235606	22.62	2/16/2006	235635	19.96
2/10/2006	233456	23.63	2/14/2006	235607	23.78	2/16/2006	235637	23.78
2/10/2006	233457	24.10	2/14/2006	235602	22.75	2/16/2006	235638	22.96
2/10/2006	233459	22.47	2/14/2006	235603	23.73	2/16/2006	235639	23.56
2/10/2006	233460	22.91	2/14/2006	235604	21.74	2/16/2006	235640	19.95
2/10/2006	233461	22.29	2/14/2006	235605	26.1	2/16/2006	235642	21.06
2/10/2006	233462	24.84	2/14/2006	235697	25.27	2/16/2006	235636	23.70
2/10/2006	233463	27.02	2/14/2006	235696	22.89	2/16/2006	235641	21.39
2/10/2006	233464	24.07	2/14/2006	235695	21.27	2/16/2006	235643	19.75
2/10/2006	233465	21.28	2/14/2006	235694	21.73	2/16/2006	235644	20.28
2/10/2006	233466	19.37	2/14/2006	235693	27.31	2/17/2006	235645	23.85
2/10/2006	233467	22.46	2/14/2006	235692	26.89	2/17/2006	235646	22.91
2/10/2006	233468	27.81	2/14/2006	235691	21.33	2/17/2006	235647	22.73
2/10/2006	233469	23.28	2/14/2006	235690	26.2	2/17/2006	235648	22.62
2/10/2006	233470	20.67	2/14/2006	235689	21.95	2/17/2006	235649	23.83
2/10/2006	233471	18.93	2/15/2006	234680	23.34	2/17/2006	235650	22.77
2/10/2006	233472	17.76	2/15/2006	235682	17.45	2/17/2006	235651	21.34
2/10/2006	233473	17.77	2/15/2006	235681	21.25	2/17/2006	235652	23.42
2/10/2006	233478	20.73	2/15/2006	235683	22.79	2/17/2006	235654	23.86
2/13/2006	233474	22.27	2/15/2006	235684	22.92	2/17/2006	235653	23.17
2/13/2006	233475	20.57	2/15/2006	235685	22.72	2/17/2006	235655	21.38
2/13/2006	233476	22.56	2/15/2006	235686	21.81	2/17/2006	235656	23.41
2/13/2006	233477	22.91	2/15/2006	235687	23.62	2/17/2006	235657	22.31
2/13/2006	233479	21.06	2/15/2006	235688	25.1	2/17/2006	235658	23.86
2/13/2006	233480	23.59	2/15/2006	235610	22.25	2/17/2006	235659	22.43
2/13/2006	233481	21.77	2/15/2006	235611	23.62	2/17/2006	235660	18.66
2/13/2006	233482	22.93	2/15/2006	235612	24.79	2/17/2006	235661	23.52
2/13/2006	233483	19.82	2/15/2006	235613	21.29	2/17/2006	235662	22.96
2/13/2006	233484	23.33	2/15/2006	235614	25.52	2/17/2006	235663	23.29
2/13/2006	233485	23.08	2/15/2006	235615	23.14	2/17/2006	235664	19.41
2/13/2006	233486	22.29	2/15/2006	235618	22.64			

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Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)
2/17/2006	235665	20.18	2/21/2006	241564	22.84	2/23/2006	241606	21.89
2/17/2006	235678	21.64	2/21/2006	241565	23.25	2/23/2006	241607	21.86
2/20/2006	235666	24.72	2/21/2006	241566	22.05	2/23/2006	241608	22.04
2/20/2006	235667	23.75	2/21/2006	241567	20.80	2/23/2006	241609	21.33
2/20/2006	235668	23.66	2/21/2006	241655	21.04	2/23/2006	241610	22.41
2/20/2006	235669	23.91	2/21/2006	241656	23.75	2/23/2006	241611	21.09
2/20/2006	235670	22.86	2/21/2006	241657	21.31	2/23/2006	241612	20.48
2/20/2006	235671	22.35	2/21/2006	241658	20.47	2/23/2006	241613	21.66
2/20/2006	235672	22.94	2/21/2006	241659	25.75	2/23/2006	241614	21.83
2/20/2006	235673	24.19	2/21/2006	241660	21.68	2/23/2006	241615	21.09
2/20/2006	235674	23.31	2/21/2006	241661	22.56	2/23/2006	241616	20.96
2/20/2006	235675	23.79	2/22/2006	241662	22.37	2/23/2006	241617	22.62
2/20/2006	235676	23.25	2/22/2006	241663	22.34	2/24/2006	241618	25.42
2/20/2006	235677	21.94	2/22/2006	241664	24.76	2/24/2006	241619	22.13
2/20/2006	241535	23.60	2/22/2006	241665	23.51	2/24/2006	241620	23.35
2/20/2006	241536	23.20	2/22/2006	241573	24.49	2/24/2006	241621	23.56
2/20/2006	241537	21.24	2/22/2006	241574	24.66	2/24/2006	241622	24.44
2/20/2006	241538	21.71	2/22/2006	241575	22.61	2/24/2006	241623	21.28
2/20/2006	241439	22.18	2/22/2006	241576	22.18	2/24/2006	241624	21.39
2/20/2006	241540	22.94	2/22/2006	241577	23.46	2/24/2006	241625	21.00
2/20/2006	241541	22.86	2/22/2006	241578	23.45	2/24/2006	241626	23.15
2/20/2006	241542	22.27	2/22/2006	241579	22.50	2/24/2006	241627	19.72
2/20/2006	241543	20.29	2/22/2006	241580	21.85	2/24/2006	241628	17.90
2/20/2006	241545	22.66	2/22/2006	241581	24.38	2/24/2006	241629	19.50
2/20/2006	241544	23.75	2/22/2006	241582	21.33	2/24/2006	241630	21.44
2/20/2006	241546	24.33	2/22/2006	241583	21.63	2/24/2006	241631	22.30
2/20/2006	241547	19.43	2/22/2006	241584	20.97	2/24/2006	241632	21.71
2/20/2006	241548	18.61	2/22/2006	241585	22.66	2/24/2006	241633	22.94
2/20/2006	241549	18.86	2/22/2006	241587	23.10	2/24/2006	241634	20.63
2/20/2006	241550	19.25	2/22/2006	241586	23.43	2/24/2006	241635	22.80
2/20/2006	241551	18.13	2/22/2006	241588	22.71	2/24/2006	241637	23.67
2/21/2006	241552	23.75	2/22/2006	241589	22.41	3/20/2006	241636	23.55
2/21/2006	241649	23.62	2/22/2006	241590	21.86	3/20/2006	241639	17.6
2/21/2006	241650	22.38	2/22/2006	241591	21.86	3/20/2006	241640	18.92
2/21/2006	241651	22.65	2/22/2006	241592	23.61	3/20/2006	241638	24.13
2/21/2006	241652	24.84	2/22/2006	241593	22.73	3/20/2006	241641	22.97
2/21/2006	241653	24.00	2/22/2006	241594	27.66	3/20/2006	241642	23.38
2/21/2006	241654	22.52	2/22/2006	241595	20.41	3/20/2006	241643	23.44
2/21/2006	241554	24.17	2/23/2006	241596	24.23	3/21/2006	241644	24.59
2/21/2006	241555	24.04	2/23/2006	241597	21.86	3/21/2006	241645	24.28
2/21/2006	241556	23.59	2/23/2006	241598	23.31	3/21/2006	167143	21.95
2/21/2006	241557	21.61	2/23/2006	241599	22.92	3/21/2006	167145	18.38
2/21/2006	241558	23.57	2/23/2006	241600	22.77	3/21/2006	167146	20.05
2/21/2006	241559	21.99	2/23/2006	241601	23.05	3/21/2006	167144	23.62
2/21/2006	241560	23.67	2/23/2006	241603	22.97	3/21/2006	167147	22.73
2/21/2006	241561	20.97	2/23/2006	241602	20.80	3/21/2006	167148	17.83
2/21/2006	241562	22.01	2/23/2006	241604	22.19	3/22/2006	167149	24.24
2/21/2006	241563	20.51	2/23/2006	241605	22.61	3/22/2006	167151	24.19

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Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)	Date	Manifest Number	Load Weight (ton)
3/22/2006	167150	22.60	3/27/2006	167197	23.88	3/31/2006	167004	24.36
3/22/2006	167154	17.97	3/27/2006	167198	22.29	3/31/2006	167005	22.19
3/22/2006	167152	19.67	3/27/2006	167199	24.98	3/31/2006	167007	23.69
3/22/2006	167155	23.87	3/27/2006	167200	23.43	3/31/2006	167179	23.95
3/22/2006	167156	23.68	3/27/2006	167201	24.60	3/31/2006	167180	21.76
3/22/2006	167153	25.08	3/28/2006	167186	23.06	3/31/2006	167181	23.53
3/23/2006	167157	25.08	3/28/2006	167187	24.34	3/31/2006	167182	22.98
3/23/2006	167158	23.40	3/28/2006	167188	23.14			
3/23/2006	167159	23.46	3/28/2006	167189	21.89			
3/23/2006	167160	24.51	3/28/2006	167190	21.35			
3/23/2006	167161	26.75	3/28/2006	167191	24.05			
3/23/2006	167162	25.52	3/28/2006	167192	22.02			
3/23/2006	167163	23.90	3/28/2006	167193	24.38			
3/24/2006	167003	24.74	3/29/2006	167171	24.28			
3/24/2006	167164	24.30	3/29/2006	167172	23.74			
3/24/2006	167165	23.42	3/29/2006	167173	23.07			
3/24/2006	167166	22.66	3/29/2006	167174	23.25			
3/24/2006	167167	23.99	3/29/2006	167175	23.21			
3/24/2006	167168	24.25	3/29/2006	167183	24.63			
3/24/2006	167169	24.78	3/29/2006	167184	21.68			
3/24/2006	167170	23.66	3/29/2006	167185	24.41			
3/27/2006	167194	24.42	3/30/2006	167176	22.07			
3/27/2006	167195	22.42	3/30/2006	167177	20.00			
3/27/2006	167196	23.57	3/30/2006	167178	22.69			

APPENDIX F
COMPLETE LABORATORY ANALYTICAL DATA PACKAGE

The complete set of analytical laboratory data has been included
in electronic form on the attached disk

APPENDIX G
DATA REVIEW SUMMARY REPORT

DATA REVIEW SUMMARY REPORT
for samples collected from
RECREATION AREA
FORMER TEXACO RESEARCH CENTER
BEACON, NY

Data Review by: Richard Cheatham
Parsons – Denver, Colorado

1.0 INTRODUCTION

The following data review summary report covers water samples, soil samples and the associated field quality control (QC) samples collected as part of the sampling associated with the Interim Corrective Measure for the Recreation Area at the Former Texaco Research Center in Beacon, NY (Site ID#314004) during the period of January 09 through April 05, 2006. Field program quality control samples included field duplicate samples for soils and aqueous trip blank samples. All samples were collected by Parsons and analyzed by Lancaster Laboratories, Lancaster, PA (Lancaster) following the procedures outlined in the Quality Assurance Project Plan for Interim Corrective Measure: Soil Excavation Recreation Area, dated August 2005 (QAPP).

The data submitted by the laboratory has been reviewed and validated, as specified below, following the guidelines outlined in the project QAPP to assess the precision, accuracy, representativeness, completeness, and comparability (PARCC) of the analytical data.

Analytical results were reported in the Lancaster Sample Delivery Groups (SDG)/Sample Groups identified on Table 1, with sample groups associated with an SDG# being reported in a New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B deliverables package: Samples were analyzed, as identified on the chain-of-custody record (COC), for one or more of the following types of analyses: target compound list (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), metals, or Toxicity Characteristic Leaching Potential (TCLP)-VOCs,

Table 1 summarizes the sample data that has been reviewed. Table 2 summarizes the data validation qualifiers and qualification reasons. Field duplicate sample results are summarized on Table 3 of this report. Samples SS-CBS1-5 and SS-CBS3-4 were collected as field duplicate pairs.

1.1 Sampling, Chain-of-Custody, and Sample Identification

The Recreation Area (Rec Area) samples were collected, properly preserved, shipped under a COC record, and received at Lancaster within one or two days of sampling. All samples were received intact and in good condition at Lancaster. Sample documentation discrepancies, if any, were noted on the laboratory sample receipt log.

2.0 DATA REVIEW CRITERIA

Information reviewed and evaluated as part of the validation process included sample results; laboratory control sample results (LCS); matrix spike/matrix spike duplicate (MS/MSD) results; parent/field duplicate (FD) results; trip blank field QC samples results; method blanks; "laboratory comments"; and chain-of-custody (COC) forms.

In addition, the summarized sample analysis results for one soil sample (SS-C01-0-0.5 in sample group 977405/SDG CBN01 and for one water sample (WW-02) in sample group 975346/SDG BEA07, as well as the associated QC sample results and QA/QC data were verified from the "raw" analytical data as part of the raw data verification "spot check".

The data packages were evaluated for deliverables completeness with reference to the project QAPP requirements.

The analyses and findings presented in this report are based on the reviewed information, and whether requirements in the project QAPP were met.

2.1 Accuracy

Accuracy was evaluated using the percent recovery (%R) obtained from LCSs (blank spikes), MS, and MSD, as well as of surrogate compound recoveries for each project sample.

2.2 Precision

Analytical Precision was evaluated based on the relative percent difference (%RPD) of MS/MSD sample analysis results and of internal laboratory duplicate results.

Overall Precision (of the sampling and analysis process) was evaluated based on the relative percent difference (%RPD) of sample/field duplicate results.

2.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the COC procedures to those described in the project QAPP;
- Comparing actual analytical procedures to those described in the Addendum QAPP;
- Evaluating analytical holding times;
- Examining trip blanks for contamination of, or cross-contamination of, samples during sample handling and shipment;
- Examining laboratory blanks for cross contamination of samples during sample preparation and analysis; and,
- Evaluating field duplicate sample results.

2.4 Completeness (laboratory completeness)

Laboratory completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data, calculating a "percent completeness" value, and comparing the "percent completeness" with the project QAPP criterion of 90% for each type of analysis.

2.5 Comparability

Comparability has been evaluated by:

- Evaluating the sample analysis methods used; and,
- Confirming the use, by the laboratory, of standard reporting units and reporting formats, including for reporting of QC data.

3.0 DELIVERABLES (DATA PACKAGE) COMPLETENESS AND COMPLIANCE

Deliverables Completeness is considered acceptable. The data for the Rec Area water and soil samples were reported in NYSDEC ASP Category B (type) deliverables packages identified as SDGs BEA07, CBN01, CBN07, CBN13, CBN14, CBN16, and CBN17. These packages contained all sample COC forms, case narratives including sample/analysis summary forms, QA/QC summaries with supporting documentation, relevant calibration data, instrument and method performance data, documentation of the laboratories ability to attain the method detection limits for target analytes in required matrices, data report forms with examples of calculations, and raw data.

The data reviewed for sample delivery groups 973860 and 977298 were reported in analytical reports that contained sample/analysis summary forms and QA/QC sample data. These data reports did not contain instrument calibration data or raw data.

Deliverables Compliance is considered acceptable. The data was produced and reported consistent with the project QAPP and the requested data package deliverables, protocol-required QA/QC criteria were met, and problems encountered during the analytical process and actions taken to correct the problems were reported in the data packages. NYSDEC ASP Category B data deliverables packages were requested and provided for all Rec Area sample delivery groups, with the exception of 973860 and 977298.

4.0 PARCC ASSESSMENT SUMMARY – REC AREA SAMPLES

4.1 Accuracy

Accuracy for Rec Area sample analyses is considered acceptable for all analyses. Evaluation results are as follows:

- Surrogate compound recoveries (%R) were within applicable (laboratory) control limits (and also within Addendum QAPP control limits for Soil and Water samples).
- LCS recoveries (%R) were within applicable (laboratory) control limits (and also within Addendum QAPP control limits for Soil and Water samples).
- MS/MSD recoveries (%R) were within applicable (laboratory) control limits (and also within Addendum QAPP control limits for Soil and Water samples).

4.2 Precision

Analytical Precision is considered acceptable for all Rec Area sample analyses. Evaluation results are as follows:

- MS/MSD RPD values were within applicable (laboratory) control limits (and also within Addendum QAPP control limits for Soil and Water samples).
- LCS/LCSD RPD values were within applicable (laboratory) control limits (and also within Addendum QAPP control limits for Soil and Water samples).
- Laboratory duplicate RPD values were within applicable (laboratory) control limits (and also within Addendum QAPP control limits for Soil and Water samples) for Mercury and metals analyses.

Overall Precision is considered acceptable for Rec Area sample analyses. Evaluation results are as follows:

- Sample results are not qualified based on field duplicate RPD results; they are advisory only. The project QAPP does not include a criterion for field duplicate RPD.
- Analysis results for the field duplicate pairs are summarized on Table 3.

4.3 Representativeness

Representativeness is considered acceptable for Rec Area sample analyses. Evaluation results are as follows:

- Analytical holding times, as specified in the Addendum QAPP were met for all sample analyses.
- The method blanks associated with each sample analysis were free of any target analyte at a reportable level.
- The trip blanks associated with the VOCs sample analysis were free of any target analyte at a reportable level.
- The samples were analyzed using the methods specified in the Addendum QAPP.

4.4 Completeness

Analytical completeness is considered acceptable for all Rec Area sample analyses. Sample results are considered as usable for project purposes. No sample results were qualified as rejected. Therefore, the completeness is 100%.

Comparability

Comparability is considered acceptable for all Rec Area sample analyses. The samples were analyzed using the methods specified in the Addendum QAPP and data, including QC results, were reported using industry-standard reporting units and reporting formats. Sample results for soil samples are reported on a dry-weight basis.

5.0 DATA REVIEW RESULTS

5.1 SW8260B VOCs Analysis Data

The following items were reviewed for compliancy in the analysis by Lancaster using Method SW8260B and following NYSDEC Method 95-1 (10/95):

- Custody documentation;
- Sample preservation;
- Holding times;
- Initial calibration;
- GC/MS instrument performance (BFB ion abundance criteria);
- Initial calibration verification (Second source);
- Continuing calibration verification (CCV);
- Internal standard area counts and retention times;
- Surrogate recoveries;
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy;
- Laboratory control sample (LCS) recoveries;
- Laboratory control sample duplicate (LCSD), if required;
- Laboratory method blank contamination;
- Field duplicate precision;
- Field QC blank samples (trip blank) contamination;
- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits;
- Sample quantitation; and,
- Data completeness.

977405/CBN01	2-Hexanone	23	ALL	UJ
982927/CBN14	Acetone	-32	ALL	UJ
982927/CBN14	Butanone	-27	ALL	UJ
982927/CBN14	4-Methyl-2-pentanone	-22	ALL	UJ
982927/CBN14	2-Hexanone	-25	ALL	UJ

5.2 SW8270C SVOCs Analysis Data

The following items were reviewed for compliancy in the analysis by Lancaster using Method Sw8270C:

- Custody documentation;
- Sample preservation;
- Holding times;
- Initial calibration;
- GC/MS instrument performance (DFTPP ion abundance criteria);
- Initial calibration verification (Second source);
- Continuing calibration verifications;
- Internal standard area counts and retention times;
- Surrogate recoveries;
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy;
- Laboratory control sample (LCS) recoveries;
- Laboratory control sample duplicate (LCSD);
- Laboratory method blank contamination;
- Field duplicate precision;
- Field QC blank samples (trip blank) contamination;
- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits;
- Sample quantitation; and,
- Data completeness.

For sample group 977405, SDG CBN01, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of LCS and MS/MSD. Sample SS-C03-0-0.5 was utilized for MS/MSD.

For sample group 978479, SDG CBN07, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of CCV%D. Sample SS-C04-0-0.5 was utilized for MS/MSD.

For sample group 978661, SDG CBN07, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SS-CO5 was utilized for MS/MSD.

For sample group 980840, SDG CBN13, these items were considered compliant and acceptable in accordance with the validation protocols with the exception of CCV %D. Sample SS-CBS3-2 was utilized for MS/MSD.

For sample group 981106, SDG CBN14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of CCV%D. Sample SS-CBS1-07 was utilized for MS/MSD.

For sample group 982498, SDG CBN14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of ICV%D. MS/MSD was performed on a sample from a different sample group.

For sample group 982927, SDG CBN14, these items were considered compliant and acceptable in accordance with the validation protocol. Sample SS-CS08 was utilized for MS/MSD.

For sample group 983782, SDG CBN16, these items were considered compliant and acceptable in accordance with the validation protocols with the exception of CCV%D. MS/MSD was not performed; LCS/LCSD was performed.

LCS/LCSD Precision and Accuracy

LCS/LCSD precision (relative percent differences; RPDs) and accuracy (percent recoveries; %Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Sample result qualification was not required if non-compliant LCS recoveries indicate potential high bias of results and associated sample results were reported as undetected ("U").

Sample Group/ SDG	Analytical Parameter	LCS ID	LCS/LCSD %R	QC Batch ID	Affected Samples	Data Qualifier
977405/CBN01	n-Nitrosodiphenylamine	0401A1CS	116	06040SLA026	ALL	None, high recovery, sample "ND"

MS/MSD Precision and Accuracy

MS/MSD precision (relative percent differences; RPDs) and accuracy (percent recoveries; %Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Sample result qualification was not required if non-compliant MS/MSD recoveries indicate potential high bias of results and associated sample result was reported as undetected ("U").

For sample group 975346, SDG BEA07, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of CCV%D. A sample from a different sample group was utilized for MS/MSD.

For sample group 977405, SDG CBN01, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of CCV%D. Sample SS-C01-0-0.5 was utilized for MS/MSD. A trip blank was not submitted with this sample group.

For sample group 978479, SDG CBN07, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SS-CO4-0-0.5 was utilized for MS/MSD. A trip blank was not submitted with this sample group.

For sample group 978661, SDG CBN07, these items were considered compliant and acceptable in accordance with the validation protocols. Sample SS-CO4-0-0.5 was utilized for MS/MSD. A trip blank was not submitted with this sample group.

For sample group 982927, SDG CBN14, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of CCV%D. MS/MSD was performed on a sample from a different sample group.

For sample group 983782, SDG CBN16, these items were considered compliant and acceptable in accordance with the validation protocols. MS/MSD was performed on a sample from a different sample group. A trip blank was not submitted with this sample group.

For sample group 984489, SDG CBN17, these items were considered compliant and acceptable in accordance with the validation protocols. The sample in this SDG was prepared using the TCLP sample extraction procedure. Sample GAC No. 1 was utilized for MS/MSD. A trip blank was not submitted with the sample shipment for this SDG.

For sample group 973860, these items were considered compliant and acceptable in accordance with the validation protocols; only method blank, LCS, and MS data were reviewed. Sample WW-01 was utilized for MS/MSD. A trip blank was not submitted with the sample shipment for this SDG.

For sample group 977298, these items were considered compliant and acceptable in accordance with the validation protocols; only method blank, LCS, and MS data were reviewed. A sample from a different sample group was utilized for MS/MSD.

Continuing Calibration Verifications

Continuing calibration verification compounds (all target analytes) were compliant with a maximum percent difference (%D) of $\pm 20\%$, with the exceptions shown below.

Sample Group/SDG	Target Analyte	%D	Samples Affected	Data Qualifier
977405/CBN01	4-Methyl-2-pentanone	31	ALL	UJ

Sample Group/ SDG	Sample ID	Analyte	MS/MSD %R	MS/MSD %RPD	Data Qualifier
977405/CBN01	SS-C03-0-0.5	1,3-Dichlorobenzene	Ok	50	UJ
977405/CBN01	SS-C03-0-0.5	1,4-Dichlorobenzene	Ok	48	UJ
977405/CBN01	SS-C03-0-0.5	1,2-Dichlorobenzene	Ok	40	UJ
977405/CBN01	SS-C03-0-0.5	Hexachloroethane	Ok	49	UJ

Initial Calibration Verifications

Continuing calibration verification compounds (all target analytes) were compliant with a maximum percent difference (%D) of $\pm 20\%$, with the exceptions shown below.

Sample Group/SDG	Target Analyte	%D	Samples Affected	Data Qualifier
982498/CBN14	Hexachlorocyclopentadiene	-35	SS-CBS3-21	UJ
982498/CBN14	2-Chloronaphthalene	-21	SS-CBS3-21	UJ

Continuing Calibration Verifications

Continuing calibration verification compounds (all target analytes) were compliant with a maximum percent difference (%D) of $\pm 20\%$, with the exceptions shown below.

Sample Group/SDG	Target Analyte	%D	Samples Affected	Data Qualifier
980840/CBN13	2,4-Dinitrophenol	-38	ALL	UJ
981106/CBN14	2,4-Dinitrophenol	-26	ALL	UJ
983782/CBN16	Hexachlorocyclopentadiene	21	ALL	UJ

5.4 SW6010A Metals Analysis

The following items were reviewed for compliancy in the metals analysis by Lancaster using Method SW6010A:

- Custody documentation;
- Sample preservation;
- Holding times;
- Initial calibration;
- Continuing calibration verifications;
- Initial and continuing calibration blanks;
- Method blanks;
- Matrix spike/matrix spike duplicate recoveries;
- Replicate analyses;
- Laboratory control sample (LCS);
- Interference check sample (ICS);
- Serial dilution results;

- Post-digestion spike results;
- Sample result verification and identification;
- Analysis sequence;
- Quantitation limits; and,
- Data completeness.

For sample group 975346, SDG BEA07, these items were considered compliant and acceptable in accordance with the validation protocols. Sample WW-02 was utilized for MS/MSD and for sample duplicate.

For sample group 973860, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of LCS%R and MS%R; only method blank, LCS, and MS data were reviewed.. Sample WW-01 was utilized for MS/MSD and duplicate analysis.

For sample group 977298, these items were considered compliant and acceptable in accordance with the validation protocols, with the exception of MS%R and duplicate sample; only method blank, LCS, and MS data were reviewed. Sample WW-03B was utilized for MS/MSD.

LCS/LCSD Precision and Accuracy

LCS/LCSD precision (relative percent differences; RPDs) and accuracy (percent recoveries; %Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Sample result qualification was not required if non-compliant LCS recoveries indicate potential high bias of results and associated sample results were reported as undetected ("U").

Sample Group/ SDG	Analytical Parameter	LCS ID	LCS/LCSD %R	QC Batch ID	Affected Samples	Data Qualifier
973860	Lead		118	060135732001	WW-02	None, high recovery, sample "ND"

MS/MSD Precision and Accuracy

MS/MSD precision (relative percent differences; RPDs) and accuracy (percent recoveries; %Rs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below. Sample result qualification was not required if non-compliant MS/MSD recoveries indicate potential high bias of results and associated sample result was reported as undetected ("U").

Sample Group/ SDG	Sample ID	Analyte	MS/MSD %R	MS/MSD %RPD	Data Qualifier
973860	WW-01	Lead	140	50	None
977298	WW-03B	Iron	170	-	J

Duplicate Sample

Duplicate sample analysis precision (relative percent differences; RPDs) measurements were within QC acceptance limits and considered acceptable, with the exceptions noted below.

Sample Group/ SDG	Sample ID	Analyte	Dup RPD	Data Qualifier
977298	WW-03B	Iron	25	J

TABLE 1 – VALIDATED SAMPLES AND ANALYSES PERFORMED

CVX-Beacon, NY

Recreation Area Project

Lancaster Sample Group/ SDG	Lancaster Sample No,	Parsons Field Sample ID	Sample Date	Matrix	VOCs (SW8260B)	SVOCs (SW8270C)	Metals (SW6010B)
973860	4685888	WW-01	01/09/06	Water	X		X
975346/BEA07	4694219	WW-02	01/23/06	Water	X		X
975346/BEA07	4694220	TB-02	01/23/06	Water	X		
977298	4705436	TB-03	02/07/06	Water	X		
977298	4705437	WW-03A	02/07/06	Water	X		
977298	4705438	WW-03B	02/07/06	Water	X		X
977405/CBN01	4705883	SS-C01-0-0.5	02/06/06	Soil	X	X	
977405/CBN01	4705884	SS-C02-0-0.5	02/06/06	Soil	X	X	
977405/CBN01	4705885	SS-C03-0-0.5	02/07/06	Soil	X	X	
978479/CBN07	4711771	SS-C04-0-0.5	02/16/06	Soil	X	X	
978661/CBN07	4712913	SS-C05	02/17/06	Soil	X	X	
978661/CBN07	4712914	SS-C06	02/17/06	Soil	X	X	
978661/CBN07	4712915	SS-C07	02/17/06	Soil	X	X	
978661/CBN07	4712916	SS-C08	02/17/06	Soil	X	X	
980840/CBN13	4724135	SS-CBS3-1	03/07/06	Soil		X	
980840/CBN13	4724136	SS-CBS3-2	03/07/06	Soil		X	
980840/CBN13	4724137	SS-CBS3-2MS	03/07/06	Soil		X	
980840/CBN13	4724138	SS-CBS3-2MD	03/07/06	Soil		X	
980840/CBN13	4724139	SS-CBS3-3	03/07/06	Soil		X	
980840/CBN13	4724140	SS-CBS3-4	03/07/06	Soil		X	
980840/CBN13	4724141	SS-CBS3-5	03/07/06	Soil		X	
980840/CBN13	4724142	SS-CBS3-6	03/07/06	Soil		X	
980840/CBN13	4724143	SS-CBS3-7	03/07/06	Soil		X	
980840/CBN13	4724144	SS-CBS3-8	03/07/06	Soil		X	
980840/CBN13	4724145	SS-CBS3-9	03/07/06	Soil		X	
980840/CBN13	4724146	SS-CBS3-104	03/07/06	Soil		X	

981106/CBN14	4725334	SS-CBS1-01	03/09/06	Soil		X	
981106/CBN14	4725335	SS-CBS1-02	03/09/06	Soil		X	
981106/CBN14	4725336	SS-CBS1-03	03/09/06	Soil		X	
981106/CBN14	4725337	SS-CBS1-04	03/09/06	Soil		X	
981106/CBN14	4725338	SS-CBS1-05	03/09/06	Soil		X	
981106/CBN14	4725339	SS-CBS1-06	03/09/06	Soil		X	
981106/CBN14	4725340	SS-CBS1-07	03/09/06	Soil		X	
981106/CBN14	4725343	SS-CBS1-08	03/09/06	Soil		X	
981106/CBN14	4725344	SS-CBS1-09	03/09/06	Soil		X	
981106/CBN14	4725345	SS-CBS1-105	03/09/06	Soil		X	
982498/CBN14	4733572	SS-CBS3-21	03/21/06	Soil		X	
982498/CBN14	4733573	SS-CBS3-22	03/21/06	Soil		X	
982498/CBN14	4733574	SS-CBS3-23	03/21/06	Soil		X	
982498/CBN14	4733575	SS-CBS4-24	03/21/06	Soil		X	
982927/CBN14	4735818	SS-CS08	03/23/06	Soil	X	X	
982927/CBN14	4735819	SS-CS09	03/23/06	Soil	X	X	
982927/CBN14	4735820	SS-CS-10	03/23/06	Soil	X	X	
983782/CBN16	4740800	SS-CS-11	03/30/06	Soil	X	X	
984489/CBN17	4744142	GAC NO. 1 GRAB	04/05/06	Solid	TCLP		

TABLE 2
DATA VALIDATION DATA QUALIFIERS AND DATA FLAG CHANGES
CVX-Beacon, NY
Recreation Area Project

Sample Group/SDG	Lab ID	Sample ID	ANALYTE	Reported Concentration (ug/L)	Old Flag (lab flag)	New Flag (Data Qualifier)	Final Q (summary)	Reason
977405/CBN01	4705883	SS-C01-0-0.5	2-Hexanone	ND		J	UJ	CCV %D
977405/CBN01	4705883	SS-C01-0-0.5	4-Methyl-2-pentanone	ND		J	UJ	CCV %D
977405/CBN01	4705884	SS-C02-0-0.5	2-Hexanone	ND		J	UJ	CCV %D
977405/CBN01	4705884	SS-C02-0-0.5	4-Methyl-2-pentanone	ND		J	UJ	CCV %D
977405/CBN01	4705885	SS-C03-0-0.5	1,2-Dichlorobenzene	ND		J	UJ	MSRPD
977405/CBN01	4705885	SS-C03-0-0.5	1,3-Dichlorobenzene	ND		J	UJ	MSRPD
977405/CBN01	4705885	SS-C03-0-0.5	1,4-Dichlorobenzene	ND		J	UJ	MSRPD
977405/CBN01	4705885	SS-C03-0-0.5	2-Hexanone	ND		J	UJ	CCV %D
977405/CBN01	4705885	SS-C03-0-0.5	4-Methyl-2-pentanone	ND		J	UJ	CCV %D
977405/CBN01	4705885	SS-C03-0-0.5	Hexachloroethane	ND		J	UJ	MSRPD
978479/CBN07	4711771	SS-C04-0-0.5	4-Chloroaniline	ND		J	UJ	CCV %D
978479/CBN07	4711772	SS-C04 MS	4-Chloroaniline	ND		J	UJ	CCV %D
978479/CBN07	4711773	SS-C04 MD	4-Chloroaniline	ND		J	UJ	CCV %D
980840/CBN13	4724135	SS-CBS3-1	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724136	SS-CBS3-2	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724139	SS-CBS3-3	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724140	SS-CBS3-4	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724141	SS-CBS3-5	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724142	SS-CBS3-6	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724143	SS-CBS3-7	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724144	SS-CBS3-8	2,4-Dinitrophenol	ND		J	UJ	CCV %D

980840/CBN13	4724145	SS-CBS3-9	2,4-Dinitrophenol	ND		J	UJ	CCV %D
980840/CBN13	4724146	SS-CBS3-104	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725334	SS-CBS1-01	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725335	SS-CBS1-02	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725336	SS-CBS1-03	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725337	SS-CBS1-04	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725338	SS-CBS1-05	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725339	SS-CBS1-06	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725340	SS-CBS1-07	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725343	SS-CBS1-08	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725344	SS-CBS1-09	2,4-Dinitrophenol	ND		J	UJ	CCV %D
981106/CBN14	4725345	SS-CBS1-105	2,4-Dinitrophenol	ND		J	UJ	CCV %D
982498/CBN14	4733572	SS-CBS3-21	2-Chloronaphthalene	ND		J	UJ	ICV %D
982498/CBN14	4733572	SS-CBS3-21	Hexachlorocyclopentadiene	ND		J	UJ	ICV %D
982927/CBN14	4735818	SS-CS08	2-Butanone	ND		J	UJ	CCV %D
982927/CBN14	4735818	SS-CS08	2-Hexanone	ND		J	UJ	CCV %D
982927/CBN14	4735818	SS-CS08	4-Methyl-2-pentanone	ND		J	UJ	CCV %D
982927/CBN14	4735818	SS-CS08	Acetone	ND		J	UJ	CCV %D
982927/CBN14	4735819	SS-CS09	2-Butanone	ND		J	UJ	CCV %D
982927/CBN14	4735819	SS-CS09	2-Hexanone	ND		J	UJ	CCV %D
982927/CBN14	4735819	SS-CS09	4-Methyl-2-pentanone	ND		J	UJ	CCV %D
982927/CBN14	4735819	SS-CS09	Acetone	ND		J	UJ	CCV %D
982927/CBN14	4735820	SS-CS-10	2-Butanone	ND		J	UJ	CCV %D
982927/CBN14	4735820	SS-CS-10	2-Hexanone	ND		J	UJ	CCV %D
982927/CBN14	4735820	SS-CS-10	4-Methyl-2-pentanone	ND		J	UJ	CCV %D
982927/CBN14	4735820	SS-CS-10	Acetone	ND		J	UJ	CCV %D
983782/CBN16	4740800	SS-CS-11	Hexachlorocyclopentadiene	ND		J	UJ	CCV %D
977298	4705438	WW-03B	Iron	1.69		J	JH	MS%R, dup

TABLE 3 – FIELD DUPLICATE SAMPLE RESULTS

CVX-Beacon, NY

Recreation Area Project

Sample Matrix	Analyte	Collection Date	Field Sample ID	Field Sample Value (ug/L)	RL*	Replicate Sample ID	Replicate Sample Value	RL	RPD**
Soil	ALL ND	03/09/06	SS-CBS1-5			SS-CBS1-105			N/A
Soil	ALL ND	03/07/06	SS-CBS3-4			SS-CBS3-104			N/A

*RL = MDL (reported on dry-weight basis for soils)

**RPD calculated only if both results are detected and one is >RL.

N/A = not applicable

APPENDIX H
BACKFILL MATERIAL ANALYTICAL REPORTS

PARSONS

Letter of Transmittal

2

TO: Entact, Inc.,
3129 Bass Pro Drive
Grapevine, Texas 76051

Date: 11/29/2005	Job No.: 442044
RE: CVX Recreation Area	
Transmittal No. 2	
Backfill Material Analytical Data	

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☐ Shop drawings ☐ Attached ☐ Under separate cover via _____ the following items:
☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
 Dated: _____ ☐ Change Order ☒ Submittal #2

COPIES	DATE	NO.	DESCRIPTION
1	11/21/2005	2	Analytical results from proposed borrow area

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ For checking ☐ Resubmit ____ copies for approval
☐ For your use ☒ Approved as submitted ☐ Design only, not for construction
☐ For review and comment ☐ Approved as noted ☐ Return ____ corrected prints
☐ For your action ☐ Returned for corrections ☐ Resubmit items noted

REMARKS: the 4" Thalle Backfill is approved based on analytical results, please note that one more set of analytical results will be required during backfilling operations.

COPY TO: file 442044, distribution

SIGNED:

Jeffrey Parker

(If enclosures are not as noted, please notify us at once.)

C:\Documents and Settings\p0040069\Desktop\Chevron\Submittals\Submittal No. 2.doc

SUBMITTAL FORM

Submittal No. 2

TO:

PARSONS

180 Lawrence Bell Dr.

Williamsville NY 14221

Attn Jeff Poulsen

Date: 11-21-05

Job No.: 442044

RE: Chevron Recreation Area

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☐ Shop drawings ☐ Attached ☐ Under separate cover via _____ the following items:
☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
Dated: _____ ☐ Change Order ☒ Analytical Data, UNOFFICIAL

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>	<u>11-21-05</u>	<u>1</u>	<u>Analytical results from Proposed Beaver Area</u>

THESE ARE TRANSMITTED as checked below:

- ☒ For approval ☐ For checking ☐ Resubmit _____ copies for approval
☐ For your use ☐ Approved as submitted ☐ Design only, not for construction
☐ For review and comment ☐ Approved as noted ☐ Return _____ corrected prints
☐ For your action ☐ Returned for corrections ☐ _____

REMARKS:

COPY TO: Nel Cope, ENTACTSIGNED: Paul McGeePAUL MCGEE, ENTACT SERVICES

If enclosures are not as noted, please notify us at once.

C:\Documents and Settings\p0040069\Desktop\Construction forms\submittal form.doc

ANALYTICAL REPORT

JOB NUMBER: 253514

Prepared For:

Entact, Inc.
3129 Bass Pro Drive
Grapevine, Texas 76051

Attention: Paul McCorvey

Date: 11/18/2005

Signature

Name: Richard E. Bayer

Title: Project Manager

E-Mail: rickbayer@stl-inc.com

18 Nov 2005
Date

315 Fullerton Avenue
Newburgh, NY 12550

PHONE: (845) 562-0890
FAX: (845) 562-0841

STL Newburgh is a part of Severn Trent Laboratories, Inc

SEVERN
TRENT
STL

NYSDOH 10142

NUDEP 73015

CTDOHS PH-0554

EPA NY049

PA 88-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841



CHAIN OF CUSTODY

20001655

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME ENTACT SERVICES	
ADDRESS 3129 BASS PRO DRIVE	
CITY, STATE, ZIP GRAPEVINE, TX 76051	
NAME OF CONTACT Paul McGarry / MIKE SHREVE	PHONE NO. (630) 935-9543
PROJECT LOCATION 591 WASHINGTON AVE BEACON, N.Y.	
PROJECT NUMBER / PO NO. CUX-47	

REPORT TYPE	TURNAROUND
STANDARD ☐ ISRA ☐	☐ NORMAL
NJ REG ☐	☒ QUICK
NYASP A ☐ B ☐ CLP ☐	☐ VERBAL
OTHER	

REPORT # (Lab Use Only)
SAMPLE TEMP. (F)
SAMPLE TEMP. (C)
PHYSICAL
CHEMICAL
REVIEWED BY

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4' ± 2°C.

STL #	SAMPLING DATE	TIME	AM	PM	MATRIX	CLIENT I.D.
116	11/9/05	1000			X S	4" - TRAIL BACKFILL
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mshreve@entact.com

NY PUBLIC WATER SUPPLIES
SOURCE ID
ELRP TYPE
FEDERAL ID

ANALYSIS REQUESTED

VOCs by 8260 B
SVOCs by 8270 C
PCBs by 8082
Pesticides by 8081 A
Herbicides by 8151 A
METALS by 6010 B / 7471 A

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY M. Shreve	COMPANY ENTACT ASSOC.	DATE 11/9/05	TIME 1050	RECEIVED BY AMP	COMPANY STL	DATE 11/9/05	TIME 10:50
SAMPLED BY M. Shreve	COMPANY ENTACT ASSOC.	DATE 11/9/05	TIME 1050 1000	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

COMMENTS

Date: 11/18/2005

Project Number.....: 20001655
Customer Project ID.....: CVX-47
Project Description.....:

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
253514-1	4" Thalle Backfill	Soil	11/09/2005	10:00	11/09/2005	10:50

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SECRET
FOUO

STL

NYSEDON 15142

WDEP 73016

CTDOH9 PH-0564

EPA HYDRO

PA 68-378

NY 100-459

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 582-0890
Fax (845) 582-0841

LABORATORY TEST RESULTS				Date: 11/18/2005			
Job Number: 253514							
CUSTOMER: Entact, Inc.		PROJECT: CVX-47		ATTN: Paul McCorvey			
Customer Sample ID: 4" Thalle Backfill Date Sampled.....: 11/09/2005 Time Sampled.....: 10:00 Sample Matrix.....: Soil		Laboratory Sample ID: 253514-1 Date Received.....: 11/09/2005 Time Received.....: 10:50					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SW846 7471A	Mercury (Hg)	0.045	U	0.045	ng/Kg	11/13/05	lms
SW846 3550B	Ultrasonic Extraction	Complete					ams
SW846 3550B	Ultrasonic Extraction	Complete					ams
SW846 9010B	Cyanide, Total	1.0	U	1.0	mg/Kg	11/10/05	bg
SW846 8081A	Organochlorine Pesticide Analysis						
	alpha-BHC	1.6	U	1.6	ug/Kg	11/15/05	mab
	beta-BHC	1.6	U	1.6	ug/Kg	11/15/05	mab
	delta-BHC	1.6	U	1.6	ug/Kg	11/15/05	mab
	gamma-BHC (Lindane)	1.6	U	1.6	ug/Kg	11/15/05	mab
	Heptachlor	1.6	U	1.6	ug/Kg	11/15/05	mab
	Aldrin	1.6	U	1.6	ug/Kg	11/15/05	mab
	Heptachlor epoxide	1.6	U	1.6	ug/Kg	11/15/05	mab
	Endosulfan I	3.3	U	3.3	ug/Kg	11/15/05	mab
	Dieldrin	3.3	U	3.3	ug/Kg	11/15/05	mab
	4,4'-DDE	3.3	U	3.3	ug/Kg	11/15/05	mab
	Endrin	3.3	U	3.3	ug/Kg	11/15/05	mab
	Endosulfan II	3.3	U	3.3	ug/Kg	11/15/05	mab
	4,4'-DDD	3.3	U	3.3	ug/Kg	11/15/05	mab
	Endosulfan sulfate	3.3	U	3.3	ug/Kg	11/15/05	mab
	4,4'-DDT	3.3	U	3.3	ug/Kg	11/15/05	mab
	Methoxychlor	16	U	16	ug/Kg	11/15/05	mab
	Toxaphene	33	U	33	ug/Kg	11/15/05	mab
	Endrin aldehyde	3.3	U	3.3	ug/Kg	11/15/05	mab
	Technical Chlordane	16	U	16	ug/Kg	11/15/05	mab
SW846 8082	PCB Analysis						
	Aroclor 1016	16	U	16	ug/Kg	11/15/05	mab
	Aroclor 1221	16	U	16	ug/Kg	11/15/05	mab
	Aroclor 1232	16	U	16	ug/Kg	11/15/05	mab
	Aroclor 1242	16	U	16	ug/Kg	11/15/05	mab
	Aroclor 1248	16	U	16	ug/Kg	11/15/05	mab
	Aroclor 1254	33	U	33	ug/Kg	11/15/05	mab
	Aroclor 1260	33	U	33	ug/Kg	11/15/05	mab
SW846 6010B	Metals Analysis (ICAP)						
	Aluminum (Al) ← 5.5	6470 ✓		40.0	mg/Kg	11/16/05	mad
	Antimony (Sb)	12.0	U	12.0	mg/Kg	11/16/05	mad
	Arsenic (As) ← 7.5	2.3		2.0	mg/Kg	11/16/05	mad
	Barium (Ba)	40.0	U	40.0	mg/Kg	11/16/05	mad
	Beryllium (Be)	1.0	U	1.0	mg/Kg	11/16/05	mad
	Cadmium (Cd)	1.0	U	1.0	mg/Kg	11/16/05	mad
	Calcium (Ca) ← 5.5	24300		100	mg/Kg	11/16/05	mad
	Chromium (Cr) ← 10.5	12.8		2.0	mg/Kg	11/16/05	mad
	Cobalt (Co)	10.0	U	10.0	mg/Kg	11/16/05	mad

* In Description = Dry Wgt.

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SEVERN
TRENT

STL

NYSDOH 10142

NJDEP 79015

CTDOSH PH-0554

EPA NY040

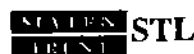
PA 60-378

M-NY040

LABORATORY TEST RESULTS							
Job Number: 253514		Date: 11/18/2005					
CUSTOMER: Entact, Inc.		PROJECT: CVX-47					
ATTN: Paul McConvey							
Customer Sample ID: 4" Thalle Backfill		Laboratory Sample ID: 253514-1					
Date Sampled.....: 11/09/2005		Date Received.....: 11/09/2005					
Time Sampled.....: 10:00		Time Received.....: 10:50					
Sample Matrix.....: Soil							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SWB46 8270C	Copper (Cu) - 25/58	22.4		5.0	mg/Kg	11/16/05	mad
	Iron (Fe) - 200/58	6300		20.0	mg/Kg	11/16/05	mad
	Lead (Pb) - 5.3	8.3		1.0	mg/Kg	11/16/05	mad
	Magnesium (Mg) - 5.3	13100		100	mg/Kg	11/16/05	mad
	Manganese (Mn) - 5.3	413		2.0	mg/Kg	11/16/05	mad
	Nickel (Ni) - 15/58	11.9		8.0	mg/Kg	11/16/05	mad
	Potassium (K) - 5.3	732		100	mg/Kg	11/16/05	mad
	Selenium (Se)	2.0	U	2.0	mg/Kg	11/16/05	mad
	Sodium (Na) - 5.3	653		100	mg/Kg	11/16/05	mad
	Silver (Ag)	2.0	U	2.0	mg/Kg	11/16/05	mad
	Thallium (Tl)	2.0	U	2.0	mg/Kg	11/16/05	mad
	Vanadium (V) - 150/58	16.3		10.0	mg/Kg	11/16/05	mad
	Zinc (Zn) - 20/58	47.3		4.0	mg/Kg	11/16/05	mad
	Semivolatile Organics	330	U	330	ug/Kg	11/15/05	caw
	n-Nitrosodimethylamine	330	U	330	ug/Kg	11/15/05	caw
	Phenol	330	U	330	ug/Kg	11/15/05	caw
	Bis(2-chloroethyl)ether	330	U	330	ug/Kg	11/15/05	caw
	1,3-Dichlorobenzene	330	U	330	ug/Kg	11/15/05	caw
	1,4-Dichlorobenzene	330	U	330	ug/Kg	11/15/05	caw
	1,2-Dichlorobenzene	330	U	330	ug/Kg	11/15/05	caw
	Benzyl alcohol	330	U	330	ug/Kg	11/15/05	caw
	2-Methylphenol (o-cresol)	330	U	330	ug/Kg	11/15/05	caw
	2,2-oxybis (1-chloropropane)	330	U	330	ug/Kg	11/15/05	caw
	n-Nitroso-di-n-propylamine	330	U	330	ug/Kg	11/15/05	caw
	Hexachloroethane	330	U	330	ug/Kg	11/15/05	caw
	4-Methylphenol (m/p-cresol)	330	U	330	ug/Kg	11/15/05	caw
	2-Chlorophenol	330	U	330	ug/Kg	11/15/05	caw
	Nitrobenzene	330	U	330	ug/Kg	11/15/05	caw
	Bis(2-chloroethoxy)methane	330	U	330	ug/Kg	11/15/05	caw
	1,2,4-Trichlorobenzene	330	U	330	ug/Kg	11/15/05	caw
	Benzoic acid	810	U	810	ug/Kg	11/15/05	caw
	Isophorone	330	U	330	ug/Kg	11/15/05	caw
	2,4-Dimethylphenol	330	U	330	ug/Kg	11/15/05	caw
	Hexachlorobutadiene	330	U	330	ug/Kg	11/15/05	caw
	Naphthalene	330	U	330	ug/Kg	11/15/05	caw
	2,4-Dichlorophenol	330	U	330	ug/Kg	11/15/05	caw
	4-Chloroaniline	330	U	330	ug/Kg	11/15/05	caw
	2,4,6-Trichlorophenol	330	U	330	ug/Kg	11/15/05	caw
	2,4,5-Trichlorophenol	810	U	810	ug/Kg	11/15/05	caw
	Hexachlorocyclopentadiene	330	U	330	ug/Kg	11/15/05	caw
	2-Methylnaphthalene	330	U	330	ug/Kg	11/15/05	caw
	2-Nitroaniline	810	U	810	ug/Kg	11/15/05	caw
	2-Chloronaphthalene	330	U	330	ug/Kg	11/15/05	caw
	4-Chloro-3-methylphenol	330	U	330	ug/Kg	11/15/05	caw
	2,6-Dinitrotoluene	330	U	330	ug/Kg	11/15/05	caw
	2-Nitrophenol	330	U	330	ug/Kg	11/15/05	caw
	3-Nitroaniline	810	U	810	ug/Kg	11/15/05	caw
	Dimethyl phthalate	330	U	330	ug/Kg	11/15/05	caw

* In Description = Dry Wgt.

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NYSDOH 10142

NUDEP 73015

CTDOHS PH-0664

EPA NY049

PA 66-378

M-NY049

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Newburgh, NY 12550
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Fax (845) 562-0841

LABORATORY TEST RESULTS					Date: 11/18/2005			
Job Number: 253514								
CUSTOMER: Entact, Inc.			PROJECT: CVX-47			ATTN: Paul McCorvey		
Customer Sample ID: 4" Thalle Backfill Date Sampled.....: 11/09/2005 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 253514-1 Date Received.....: 11/09/2005 Time Received.....: 10:50					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
	2,4-Dinitrophenol	810	U		810	ug/Kg	11/15/05	caw
	Acenaphthylene	330	U		330	ug/Kg	11/15/05	caw
	2,4-Dinitrotoluene	330	U		330	ug/Kg	11/15/05	caw
	Acenaphthene	330	U		330	ug/Kg	11/15/05	caw
	Dibenzofuran	330	U		330	ug/Kg	11/15/05	caw
	4-Nitrophenol	810	U		810	ug/Kg	11/15/05	caw
	Fluorene	330	U		330	ug/Kg	11/15/05	caw
	4-Nitroaniline	810	U		810	ug/Kg	11/15/05	caw
	4-Bromophenyl phenyl ether	330	U		330	ug/Kg	11/15/05	caw
	Hexachlorobenzene	330	U		330	ug/Kg	11/15/05	caw
	Diethyl phthalate	330	U		330	ug/Kg	11/15/05	caw
	4-Chlorophenyl phenyl ether	330	U		330	ug/Kg	11/15/05	caw
	Pentachlorophenol	810	U		810	ug/Kg	11/15/05	caw
	n-Nitrosodiphenylamine	330	U		330	ug/Kg	11/15/05	caw
	4,6-Dinitro-2-methylphenol	810	U		810	ug/Kg	11/15/05	caw
	Phenanthrene 5000	57	J		330	ug/Kg	11/15/05	caw
	Anthracene	330	U		330	ug/Kg	11/15/05	caw
	Di-n-butyl phthalate	330	U		330	ug/Kg	11/15/05	caw
	Fluoranthene	330	U		330	ug/Kg	11/15/05	caw
	Pyrene 5000	210	J		330	ug/Kg	11/15/05	caw
	Butyl benzyl phthalate	330	U		330	ug/Kg	11/15/05	caw
	Benzo(a)anthracene 2.24	35	J		330	ug/Kg	11/15/05	caw
	Chrysene 400	58	J		330	ug/Kg	11/15/05	caw
	3,3-Dichlorobenzidine	330	U		330	ug/Kg	11/15/05	caw
	Bis(2-ethylhexyl)phthalate	330	U		330	ug/Kg	11/15/05	caw
	Di-n-octyl phthalate	330	U		330	ug/Kg	11/15/05	caw
	Benzo(b)fluoranthene 100	67	J		330	ug/Kg	11/15/05	caw
	Benzo(k)fluoranthene	330	U		330	ug/Kg	11/15/05	caw
	Benzo(a)pyrene	330	U		330	ug/Kg	11/15/05	caw
	Indeno(1,2,3-cd)pyrene	330	U		330	ug/Kg	11/15/05	caw
	Dibenzo(a,h)anthracene	330	U		330	ug/Kg	11/15/05	caw
	Benzo(ghi)perylene	330	U		330	ug/Kg	11/15/05	caw
SW846 8260B	Volatile Organics	1.0	U		1.0	ug/Kg	11/15/05	eca
	Dichlorodifluoromethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Chloromethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Vinyl chloride	1.0	U		1.0	ug/Kg	11/15/05	eca
	Bromomethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Chloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Trichlorofluoromethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,1-Dichloroethene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Methylene chloride	1.4	U		1.0	ug/Kg	11/15/05	eca
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,1-Dichloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	2,2-Dichloropropane	1.0	U		1.0	ug/Kg	11/15/05	eca
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Bromochloromethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Chloroform	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,1,1-Trichloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca

* In Description = Dry Wgt.

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STL

NYSDOH 10142

NJDEP 73018

CTDOH 8 PH-0664

EPA NY049

PA 00-37B

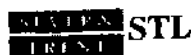
W-HY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
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Fax: (845) 562-0841

LABORATORY TEST RESULTS					Date: 11/18/2005			
Job Number: 253514		PROJECT: CVX-47		ATTN: PAUL McCorvey				
Customer Sample ID: 4" Thalle Backfill Date Sampled.....: 11/09/2005 Time Sampled.....: 10:00 Sample Matrix.....: Soil		Laboratory Sample ID: 253514-1 Date Received.....: 11/09/2005 Time Received.....: 10:50						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
	1,1-Dichloropropene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Carbon tetrachloride	1.0	U		1.0	ug/Kg	11/15/05	eca
	Benzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2-Dichloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Trichloroethene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2-Dichloropropane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Dibromomethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Bromodichloromethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Toluene	1.0	U		1.0	ug/Kg	11/15/05	eca
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,1,2-Trichloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Tetrachloroethene /40	1.2	U		1.0	ug/Kg	11/15/05	eca
	1,3-Dichloropropane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Dibromochloromethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/Kg	11/15/05	eca
	Chlorobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,1,1,2-Tetrachloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	Ethylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	m,p-Xylenes	1.0	U		1.0	ug/Kg	11/15/05	eca
	o-Xylene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Styrene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Bromoform	1.0	U		1.0	ug/Kg	11/15/05	eca
	Isopropylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Bromobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2,3-Trichloropropane	1.0	U		1.0	ug/Kg	11/15/05	eca
	n-Propylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	2-Chlorotoluene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,3,5-Trimethylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	4-Chlorotoluene	1.0	U		1.0	ug/Kg	11/15/05	eca
	tert-Butylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2,4-Trimethylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	sec-Butylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,3-Dichlorobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	p-Isopropyltoluene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,4-Dichlorobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	n-Butylbenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2-Dichlorobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2,4-Trichlorobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Hexachlorobutadiene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Naphthalene	1.0	U		1.0	ug/Kg	11/15/05	eca
	1,2,3-Trichlorobenzene	1.0	U		1.0	ug/Kg	11/15/05	eca
	Freon 113	1.0	U		1.0	ug/Kg	11/15/05	eca

* In Description = Dry Wgt.

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NYSDOH 10142

AJDEP 73018

CTDOHS PH-0564

EPA NY048

PA 88-376

M-NY048

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S06: 253514 Job Number & Lab Sample ID: Client Sample ID: Sample Date:	Matrix Spike Blank A05-C898 ASB1770801 A05-C898 ASB1770802 A05-C898 ASB1770803	Matrix Spike Blk Dup A05-C898 ASB1770801 A05-C898 ASB1770802 A05-C898 ASB1770803	Method Blank A05-C898 ASB1770801 A05-C898 ASB1770802 A05-C898 ASB1770803
TCLP Date/NT Met: Extraction Date/NT Met: Analysis Date/NT Met: Dilution Factor:	11/14/2005 07:00 YES 11/15/2005 21:58 YES 11/15/2005 21:58 YES 1.0	11/14/2005 07:00 YES 11/15/2005 22:49 YES 11/15/2005 22:49 YES 1.0	11/14/2005 07:00 YES 11/15/2005 23:39 YES 11/15/2005 23:39 YES 1.0
Analyte (UG/KG) RL	240 34 30	59 56 35	60 52 33
Herbicides 2,4-D 2,4,5-TP (Silvex) 2,4,5-T SUBSTRATES Dichlorophenyl Acetic Acid	240 34 30 29-124	59 56 35 87	60 52 33 87
Result	260 34 30	60 52 33	60 52 33

* Indicates Result is Outside QC Limits
 NA = Not Applicable

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/18/2005

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements will be noted in a case narrative.
Report Comments

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Glossary of flags and qualifiers.

Inorganic Qualifiers (Q-Column)

- U Indicates that the compound was analyzed for but not detected.
- 1 Result fails applicable drinking water standards.
- * Duplicate analysis not within control limits.
- N Spiked sample recovery not within control limits.
- E Indicates an estimated value because of the presence of interferences.
- W Post digestion spike for furnace AA analysis is out of the control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- + Correlation coefficient for the MSA is less than 0.995
- B The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

Organic Qualifiers (Q-Column)

- U Indicates that the compound was analyzed for but not detected.
- J Indicates an estimated value. This compound meets the identification criteria, but the result is less than the specified detection limit.
- B Indicates that the analyte was found in both the sample and its associated laboratory blank.
- D Indicates all compounds identified in an analysis at a secondary dilution factor.
- E Indicates that the analyte in an analysis has exceeded the linear calibration range.
- RE Indicates a re-analyzed sample

Glossary of Terms

Surrogates (Surrogate Standards) - an organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process. For semi-volatiles, volatiles and pesticides/Aroclors, surrogate compounds are added to every blank, sample, matrix sample, matrix spike, matrix sample duplicate, matrix spike blank, and standard. These are used to evaluate analytical efficiency by measuring recovery. Poor surrogate recovery may indicate a problem with the sample composition.

Matrix Spike - an aliquot of a sample (water or soil) fortified (spiked) with known quantities of specific compounds (target analytes) and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery. The spiking occurs prior to sample preparation and analysis. Poor spike recovery may indicate a problem with the sample composition.

Internal Standards - an organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process. For GC/MS semi-volatiles and volatiles, internal standards are added to every blank, sample, matrix spike, matrix spike duplicate, matrix spike blank, and standard. Internal standard responses outside of established limits will adversely affect the quantitation and final concentration of target compounds.

STL Newburgh is a part of Southern Trent Laboratories, Inc.



NYSOCH 10142

NJDEP 73016

CTDOH8 PH-0884

EPA NY049

PA 88-378

W-RY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (845) 582-0800
Fax: (845) 582-0841

Job Number: 253514

LABORATORY CHRONICLE

Date: 11/18/2005

CUSTOMER: Entact, Inc.

PROJECT: CVX-47

ATTN: Paul McCorvey

Lab ID: 253514-1	Client ID: 4" Thalle Backfill	Date Recvd: 11/09/2005	Sample Date: 11/09/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT # (S)	DATE/TIME ANALYZED	DILUTION
SW846 5030 (5g)	5030 Soil(5g)Prep	1	101115			
SW846 3050B	Acid Digestion (ICP) Solids	1	100873		11/14/2005	1200
SW846 9010B	Cyanide, Total	1	100962		11/10/2005	0730
SW846 3550B	Extraction Ultrasonic (Chlor.Pest.)	1	100789			
SW846 3550B	Extraction Ultrasonic (PCBs)	1	100790			
SW846 3550B	Extraction Ultrasonic (SVOC)	1	100788			
8151A Subcon	Herbicides	1				
SW846 7471A	Mercury (CVAA) Solids	1	100926	100921	11/13/2005	1213
SW846-7471	Mercury Soil Digestion	1	100921		11/11/2005	0800
SW846 6010B	Metals Analysis (ICAP)	1	101017	100873	11/16/2005	1208
SW846 8081A	Organochlorine Pesticide Analysis	1	100977		11/15/2005	0000
SW846 8082	PCB Analysis	1	100976		11/15/2005	0000
SW846 8270C	Semivolatile Organics	1	101142		11/15/2005	0000
SW846 8260B	Volatile Organics	1	101085		11/15/2005	0000

0.978

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NYSDOH 10142

NJDEP 73016

CTDOHS PH-0664

EPA NY049

PA 66-378

MI-NY040

STL Newburgh
315 Fulton Avenue
Newburgh, NY 12550
Tel (845) 562-0860
Fax (845) 562-0841

PARSONS

Letter of Transmittal

TO: Entact, Inc..
3129 Bass Pro Drive
Grapevine, Texas 76051

Date: 3/23//2006	Job No.: 442044
RE: CVX Recreation Area	
Submittal No. 7	

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☐ Shop drawings ☐ Attached ☐ Under separate cover via _____ the following items:
☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
 Dated: _____ ☐ Change Order ☒ Submittal #7

COPIES	DATE	NO.	DESCRIPTION
1	3/23/2006	7	Analytical results for topsoil source

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ For checking ☐ Resubmit _____ copies for approval
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☐ For review and comment ☐ Approved as noted ☐ Return _____ corrected prints
☐ For your action ☐ Returned for corrections ☐ Resubmit items noted

REMARKS:

COPY TO: file 442044, distribution

SIGNED:

Jeffrey Parker

SUBMITTAL FORM

TO: Parsons
180 Lawrence Bell Dr
Williamsville, NY 14221

Submittal No. 7

Date: 3/23/2006	Job No.: 442044
RE: CVX Recreation Area	
Topsoil	

WE ARE SENDING YOU THE FOLLOWING ITEMS:

- ☐ Shop drawings ☐ Attached ☐ Under separate cover via _____ the following items:
☐ Copy of Letter ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
Dated: _____ ☐ Change Order ☒ Submittal #7

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REMARKS:

COPY TO:

SIGNED: Paul McCorvey

If enclosures are not as noted, please notify us at once.

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STL

ANALYTICAL REPORT

Job Number: 420-2515-1

Job Description: Entact Beacon CVX-47

For:
Entact Environmental Services, LLC
3129 Bass Pro Drive
Grapevine, TX 76051

Attention: Mr. Paul McCorvey

A handwritten signature in black ink, appearing to read "Eric C. Andersen".

Eric C Andersen
Project Manager I
eandersen@stl-inc.com
03/23/2006

Project Manager: Eric C Andersen

Severn Trent Laboratories, Inc.
STL Newburgh 315 Fullerton Avenue, Newburgh, NY 12550
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METHOD SUMMARY

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	STL-NEW	SW846 8260B	
Purge-and-Trap	STL-NEW		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL-NEW	SW846 8270C	
Ultrasonic Extraction	STL-NEW		SW846 3550B
Organochlorine Pesticides by Gas Chromatography	STL-NEW	SW846 8081A	
Ultrasonic Extraction	STL-NEW		SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	STL-NEW	SW846 8082	
Ultrasonic Extraction	STL-NEW		SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry	STL-NEW	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	STL-NEW		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	STL-NEW	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual	STL-NEW		SW846 7471A
Percent Moisture	STL-NEW	EPA 160.3	
Herbicide by 8151	STL-NEW	8151	

LAB REFERENCES:

STL-NEW = STL-Newburgh

METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

STL Newburgh

SAMPLE SUMMARY

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-2515-1	Beacon-CVX-47 Top Soil	Solid	03/08/2006 0920	03/08/2006 0920

STI Newburgh

Date: 03/17/2006
Time: 09:00:34

STL NEWBURGH
ANALYTICAL RESULTS/CHRONOLOGY

Rept: AM0565
Page: 1

SDG: 420240	Client Sample ID: 420-2515-1 Job Number & Lab Sample ID: A06-2535 A6253501 Sample Date: 03/08/2006					
	TCLP Date/HT Met: - Extraction Date/HT Met: 03/13/2006 07:00 YES Analysis Date/HT Met: 03/15/2006 19:02 YES Dilution Factor: 1.0					
	Analyte (UG/KG)	RL	Result			
METHOD 8151 - HERBICIDES						
2,4-D	240	280	U			
2,4,5-TP (Silvex)	34	40	U			
2,4,5-T	30	36	U			
SURROGATES						
Dichlorophenyl Acetic Acid	10-147	86				

* Indicates Result is Outside QC Limits
NA = Not Applicable

Date: 03/17/2006
Time: 09:00:34

STL NEWBURGH
QC ANALYTICAL RESULTS/CHRONOLOGY

Rept: AW0565
Page: 2

SDG: 420240		Client Sample ID: A06-2535 A681510901		Matrix Spike Blank	Matrix Spike Blk Dup	Method Blank		
		Job Number & Lab Sample ID:		A06-2535 A681510901	A06-2535 A681510902	A06-2535 A681510903		
		Sample Date:						
		TCLP Date/HT Met:		-	-	-		
		Extraction Date/HT Met:		03/13/2006 07:00 YES	03/13/2006 07:00 YES	03/13/2006 07:00 YES		
		Analysis Date/HT Met:		03/15/2006 16:32 YES	03/15/2006 17:22 YES	03/15/2006 18:12 YES		
		Dilution Factor:		1.0	1.0	1.0		
Analyte	(UG/KG)	RL	Result		Result		Result	
METHOD 8151 - HERBICIDES								
2,4-D		240	68 J		72 J		240 U	
2,4,5-TP (Silvex)		34	52		67		34 U	
2,4,5-T		30	51		68		30 U	
SURROGATES								
Dichlorophenyl Acetic Acid		10-147	76		98		97	

* Indicates Result is Outside QC Limits
NA = Not Applicable

STL Buffalo

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Date Sampled: 03/08/2006 0920

Client Matrix: Solid

% Moisture: 11.7

Date Received: 03/08/2006 0920

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 420-3898

Instrument ID: HP

Preparation: 5030B

Lab File ID: Y032111.D

Dilution: 1.0

Initial Weight/Volume: 5.1 g

Date Analyzed: 03/21/2006 1734

Final Weight/Volume: 5 g

Date Prepared: 03/21/2006 1734

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL	RL
1,1,1,2-Tetrachloroethane		1.1	U	1.1	1.1
1,1,1-Trichloroethane		1.1	U	1.1	1.1
1,1,2,2-Tetrachloroethane		1.1	U	1.1	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane		1.1	U	1.1	1.1
1,1,2-Trichloroethane		1.1	U	1.1	1.1
1,1-Dichloroethane		1.1	U	1.1	1.1
1,1-Dichloroethene		1.1	U	1.1	1.1
1,1-Dichloropropene		1.1	U	1.1	1.1
1,2,3-Trichlorobenzene		1.1	U	1.1	1.1
1,2,3-Trichloropropane		1.1	U	1.1	1.1
1,2,4-Trichlorobenzene		1.1	U	1.1	1.1
1,2,4-Trimethylbenzene		1.1	U	1.1	1.1
1,2-Dibromo-3-Chloropropane		1.1	U	1.1	1.1
1,2-Dichlorobenzene		1.1	U	1.1	1.1
1,2-Dichloroethane		1.1	U	1.1	1.1
1,2-Dichloroethene, Total		1.1	U	1.1	1.1
1,2-Dichloropropane		1.1	U	1.1	1.1
1,3,5-Trimethylbenzene		1.1	U	1.1	1.1
1,3-Dichlorobenzene		1.1	U	1.1	1.1
1,3-Dichloropropane		1.1	U	1.1	1.1
1,4-Dichlorobenzene		1.1	U	1.1	1.1
2,2-Dichloropropane		1.1	U	1.1	1.1
2-Chloroethyl vinyl ether		1.1	U	1.1	1.1
2-Chlorotoluene		1.1	U	1.1	1.1
4-Chlorotoluene		1.1	U	1.1	1.1
4-Isopropyltoluene		1.1	U	1.1	1.1
Benzene		1.1	U	1.1	1.1
Benzyl chloride		1.1	U	1.1	1.1
Bromobenzene		1.1	U	1.1	1.1
Bromoform		1.1	U	1.1	1.1
Bromomethane		1.1	U	1.1	1.1
Carbon disulfide		1.1	U	1.1	1.1
Carbon tetrachloride		1.1	U	1.1	1.1
Chlorobenzene		1.1	U	1.1	1.1
Chlorobromomethane		1.1	U	1.1	1.1
Chlorodibromomethane		1.1	U	1.1	1.1
Chloroethane		1.1	U	1.1	1.1
Chloroform		1.1	U	1.1	1.1
Chloromethane		1.1	U	1.1	1.1
cis-1,2-Dichloroethene		1.1	U	1.1	1.1
cis-1,3-Dichloropropene		1.1	U	1.1	1.1
Dibromomethane		1.1	U	1.1	1.1
Dichlorobromomethane		1.1	U	1.1	1.1

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Date Sampled: 03/08/2006 0920

Client Matrix: Solid % Moisture: 11.7

Date Received: 03/08/2006 0920

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 420-3898

Instrument ID: HP

Preparation: 5030B

Lab File ID: Y032111.D

Dilution: 1.0

Initial Weight/Volume: 5.1 g

Date Analyzed: 03/21/2006 1734

Final Weight/Volume: 5 g

Date Prepared: 03/21/2006 1734

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL	RL
Dichlorodifluoromethane		1.1	U	1.1	1.1
Ethylbenzene		1.1	U	1.1	1.1
Hexachlorobutadiene		1.1	U	1.1	1.1
Isopropylbenzene		1.1	U	1.1	1.1
m-Xylene & p-Xylene		1.1	U	1.1	1.1
Methylene Chloride		1.1	U	1.1	1.1
n-Butylbenzene		1.1	U	1.1	1.1
N-Propylbenzene		1.1	U	1.1	1.1
Naphthalene		1.1	U	1.1	1.1
o-Xylene		1.1	U	1.1	1.1
sec-Butylbenzene		1.1	U	1.1	1.1
Styrene		1.1	U	1.1	1.1
tert-Butylbenzene		1.1	U	1.1	1.1
Xylenes, Total		1.1	U	1.1	1.1
Vinyl chloride		1.1	U	1.1	1.1
Vinyl acetate		1.1	U	1.1	1.1
Trichlorofluoromethane		1.1	U	1.1	1.1
Trichloroethene		1.1	U	1.1	1.1
trans-1,4-Dichloro-2-butene		1.1	U	1.1	1.1
trans-1,3-Dichloropropene		1.1	U	1.1	1.1
trans-1,2-Dichloroethene		1.1	U	1.1	1.1
Toluene		1.1	U	1.1	1.1
Tetrachloroethene		1.1	U	1.1	1.1
1,2,4,5-Tetramethylbenzene		1.1	U	1.1	1.1
n-Heptane		1.1	U	1.1	1.1
4-Ethyltoluene		1.1	U	1.1	1.1
1,2-Dibromoethane		1.1	U	1.1	1.1

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Client Matrix: Solid

% Moisture: 11.7

Date Sampled: 03/08/2006 0920

Date Received: 03/08/2006 0920

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3550B

Dilution: 1.0

Date Analyzed: 03/16/2006 0546

Date Prepared: 03/13/2006 1620

Analysis Batch: 420-3753

Prep Batch: 420-3661

Instrument ID: Hewlett Packard 5890

Lab File ID: S35935.D

Initial Weight/Volume: 30.81 g

Final Weight/Volume: 1 mL

Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL	RL
1,2,4-Trichlorobenzene		360	U	360	360
1,2-Dichlorobenzene		360	U	360	360
1,2-Diphenylhydrazine		3600	U	3600	3600
1,3-Dichlorobenzene		360	U	360	360
1,4-Dichlorobenzene		360	U	360	360
2,4-Dichlorophenol		360	U	360	360
2,4,6-Trichlorophenol		360	U	360	360
2,4,5-Trichlorophenol		360	U	360	360
2,4-Dimethylphenol		360	U	360	360
2,4-Dinitrotoluene		360	U	360	360
2-Chloronaphthalene		360	U	360	360
2-Chlorophenol		360	U	360	360
2-Methylnaphthalene		360	U	360	360
2-Methylphenol		360	U	360	360
2-Nitroaniline		920	U	920	920
2-Nitrophenol		360	U	360	360
3,3'-Dichlorobenzidine		360	U	360	360
3-Nitroaniline		920	U	920	920
4,6-Dinitro-2-methylphenol		920	U	920	920
4-Bromophenyl phenyl ether		360	U	360	360
4-Chloro-3-methylphenol		360	U	360	360
4-Chloroaniline		360	U	360	360
4-Chlorophenyl phenyl ether		360	U	360	360
4-Nitrophenol		920	U	920	920
Acenaphthene		360	U	360	360
Acenaphthylene		360	U	360	360
Anthracene		360	U	360	360
Benzidine		360	U	360	360
Benzo[a]anthracene		360	U	360	360
Benzo[a]pyrene		360	U	360	360
Benzo[b]fluoranthene		360	U	360	360
Benzo[g,h,i]perylene		360	U	360	360
Benzo[k]fluoranthene		360	U	360	360
Benzyl alcohol		360	U	360	360
Bis(2-chloroethoxy)methane		360	U	360	360
Bis(2-chloroethyl)ether		360	U	360	360
Bis(2-ethylhexyl) phthalate		360	U	360	360
Butyl benzyl phthalate		360	U	360	360
Carbazole		360	U	360	360
Chrysene		360	U	360	360
Di-n-octyl phthalate		360	U	360	360
Di-n-butyl phthalate		360	U	360	360
Dibenz(a,h)anthracene		360	U	360	360

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Date Sampled: 03/08/2006 0920

Client Matrix: Solid % Moisture: 11.7

Date Received: 03/08/2006 0920

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch:	420-3753	Instrument ID:	Hewlett Packard 5890
Preparation:	3550B	Prep Batch:	420-3661	Lab File ID:	S35935.D
Dilution:	1.0			Initial Weight/Volume:	30.81 g
Date Analyzed:	03/16/2006 0546			Final Weight/Volume:	1 mL
Date Prepared:	03/13/2006 1620			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL	RL
Dibenzofuran		360	U	360	360
Dimethyl phthalate		360	U	360	360
Fluoranthene		360	U	360	360
Fluorene		360	U	360	360
Hexachlorobenzene		360	U	360	360
Hexachlorobutadiene		360	U	360	360
Hexachlorocyclopentadiene		360	U	360	360
Hexachloroethane		360	U	360	360
Indeno[1,2,3-cd]pyrene		360	U	360	360
Isophorone		360	U	360	360
N-Nitrosodi-n-propylamine		360	U	360	360
N-Nitrosodimethylamine		360	U	360	360
N-Nitrosodiphenylamine		360	U	360	360
Naphthalene		360	U	360	360
Nitrobenzene		360	U	360	360
Pentachlorophenol		920	U	920	920
Phenol		360	U	360	360
Pyridine		360	U	360	360
2,4-Dinitrophenol		920	U	920	920
2,6-Dinitrotoluene		360	U	360	360
Pyrene		360	U	360	360
4-Nitroaniline		920	U	920	920
4-Methylphenol		360	U	360	360
Diethyl phthalate		360	U	360	360
Phenanthrene		360	U	360	360
2,2'-oxybis[1-chloropropane]		360	U	360	360

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Date Sampled: 03/08/2006 0920

Client Matrix: Solid

% Moisture: 11.7

Date Received: 03/08/2006 0920

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 420-3706

Instrument ID: Perkin Elmer Optima

Preparation: 3050B

Prep Batch: 420-3689

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 0.51 g

Date Analyzed: 03/15/2006 2009

Final Weight/Volume: 100 mL

Date Prepared: 03/13/2006 1130

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
Ag		2.2	U	2.2	2.2
Al		12000		44	44
As		7.0		2.2	2.2
Ba		45		44	44
Be		1.1	U	1.1	1.1
Ca		20000		110	110
Cd		1.1	U	1.1	1.1
Co		13		11	11
Cr		13		2.2	2.2
Cu		38		5.5	5.5
Fe		27000		22	22
K		1200		110	110
Mg		14000		110	110
Mn		940		2.2	2.2
Na		110	U	110	110
Ni		24		8.9	8.9
Pb		17		2.2	2.2
Sb		13	U	13	13
Se		2.2	U	2.2	2.2
Tl		2.2	U	2.2	2.2
V		15		11	11
Zn		74		4.4	4.4

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A

Analysis Batch: 420-3587

Instrument ID: Leeman Hydra AA

Preparation: 7471A

Prep Batch: 420-3593

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 0.20 g

Date Analyzed: 03/10/2006 0913

Final Weight/Volume: 25 mL

Date Prepared: 03/09/2006 1115

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL	RL
Hg		0.11	U	0.11	0.11

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Client Matrix: Solid % Moisture: 11.7

Date Sampled: 03/08/2006 0920

Date Received: 03/08/2006 0920

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A

Analysis Batch: 420-3752

Instrument ID: Hewlett Packard 5890 Dual

Preparation: N/A

Lab File ID: 2HP6094.D

Dilution: 1.0

Initial Weight/Volume:

Date Analyzed: 03/17/2006 1621

Final Weight/Volume:

Date Prepared: N/A

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL	RL
alpha-BHC		5.6	UH	5.6	5.6
gamma-BHC (Lindane)		5.6	UH	5.6	5.6
beta-BHC		5.6	UH	5.6	5.6
Heptachlor		5.6	UH	5.6	5.6
delta-BHC		5.6	UH	5.6	5.6
Aldrin		5.6	UH	5.6	5.6
Heptachlor epoxide		5.6	UH	5.6	5.6
gamma-Chlordane		57	UH	57	57
alpha-Chlordane		57	UH	57	57
4,4'-DDE		11	UH	11	11
Endosulfan I		11	UH	11	11
Dieldrin		11	UH	11	11
Endrin		11	UH	11	11
4,4'-DDD		11	UH	11	11
Endosulfan II		11	UH	11	11
4,4'-DDT		11	UH	11	11
Endrin aldehyde		23	UH	23	23
Endosulfan sulfate		11	UH	11	11
Methoxychlor		5.6	UH	5.6	5.6
Endrin ketone		11	UH	11	11
Toxaphene		110	UH	110	110
Chlordane (technical)		57	UH	57	57

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1

Date Sampled: 03/08/2006 0920

Client Matrix: Solid

% Moisture: 11.7

Date Received: 03/08/2006 0920

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082

Analysis Batch: 420-3752

Instrument ID: Hewlett Packard 5890 Dual

Preparation: N/A

Lab File ID: 2HP6094.D

Dilution: 1.0

Initial Weight/Volume:

Date Analyzed: 03/17/2006 1621

Final Weight/Volume:

Date Prepared: N/A

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL	RL
PCB-1016		56	U H	56	56
PCB-1221		56	U H	56	56
PCB-1232		56	U H	56	56
PCB-1242		56	U H	56	56
PCB-1248		56	U H	56	56
PCB-1254		110	U H	110	110
PCB-1260		110	U H	110	110

Analytical Data

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

General Chemistry

Client Sample ID: Beacon-CVX-47 Top Soil

Lab Sample ID: 420-2515-1
Client Matrix: SolidDate Sampled: 03/08/2006 0920
Date Received: 03/08/2006 0920

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	160.3
	Any Batch: 420-3646	Date Analyzed	03/11/2006	1125			
Percent Solids	88		%	0.10	0.10	1.0	160.3
	Any Batch: 420-3646	Date Analyzed	03/11/2006	1125			

DATA REPORTING QUALIFIERS

Client: Entact Environmental Services, LLC

Job Number: 420-2515-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyte was not detected at or above the reporting limit.
GC/MS Semi VOA	U	Analyte was not detected at or above the reporting limit.
GC Semi VOA	H	Sample was prepped or analyzed beyond the specified holding time
	U	Analyte was not detected at or above the reporting limit.
Metals	U	Analyte was not detected at or above the reporting limit.

STL Nawburah

**APPENDIX I
PHOTOGRAPHIC LOG**

Recreation Area ICM
Photographic Log

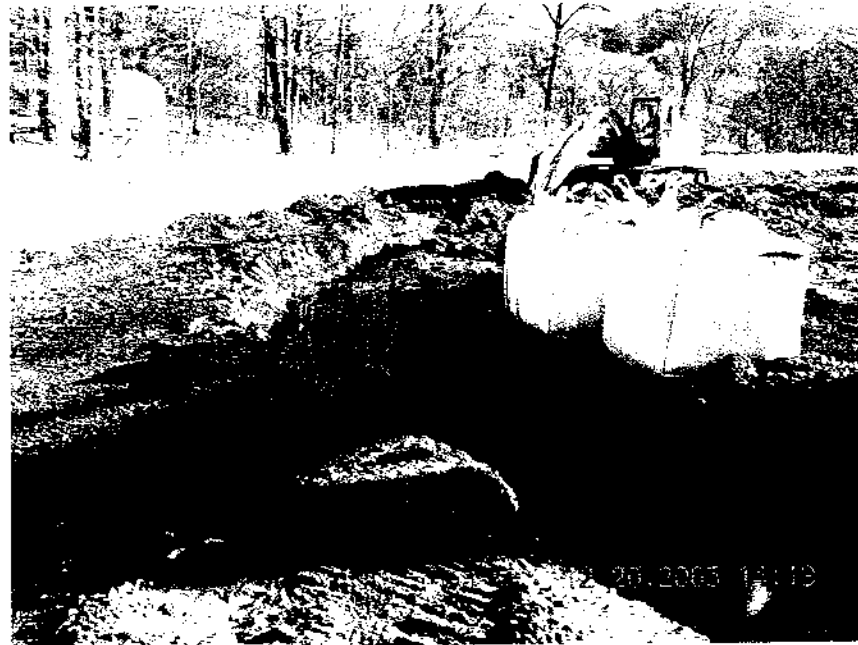


DSCN0047: Looking Southeast across the Trash Pile "D" Area. The bench for the slurry wall construction has been completed.



DSCN0051: Construction of the slurry wall after placement of bentonite slurry.

Recreation Area ICM
Photographic Log



DSCN0067: Preparing to mix soil and bentonite for cutoff wall placement.
The slurry filled trench is in the foreground.

DSCN0067



DSCN0065: Mixing the powdered bentonite with the soil prior to placement as a cutoff wall.

Recreation Area ICM
Photographic Log

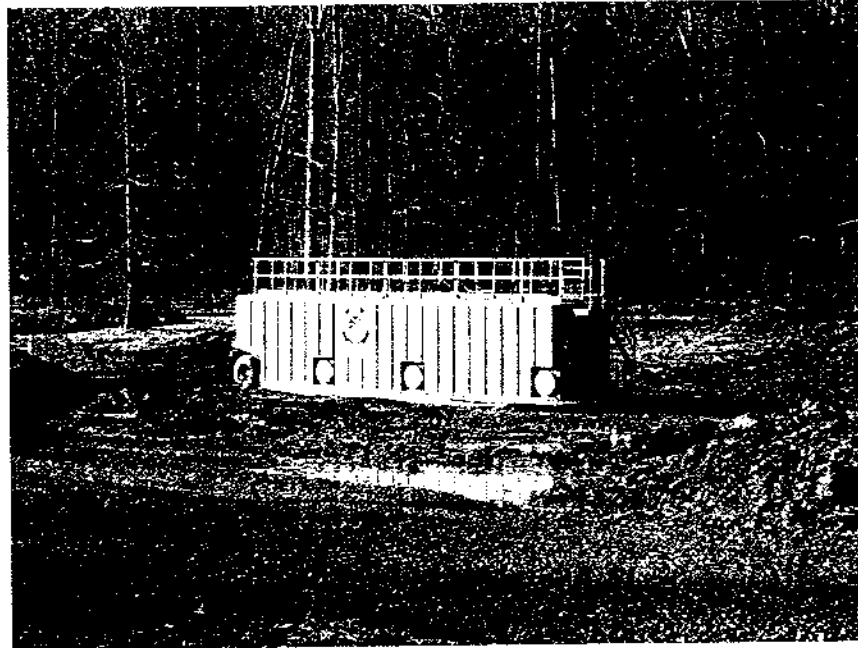


DSCN0060: Looking east following the completion of the soil/bentonite cutoff wall for groundwater control.



DSCN0162: Looking south from the northwest corner of the excavation. Along the west side is the collection ditch used for dewatering the excavation.

Recreation Area ICM
Photographic Log



DSCN0036: the fractionation tank used as part of the dewatering effort.



DSCN0121: Mixing K-Sorb to dry soils prior to loading for disposal.

Recreation Area ICM
Photographic Log



DSCN0085: beginning excavation of material within the cutoff wall and staging within the work area for disposal.



DSCN0143: Excavation along the west side of the excavation area looking north.

Recreation Area ICM
Photographic Log



DSNC009: Continued dewatering of the excavation.



DSNC0096: Southern extent of excavation.

Recreation Area ICM
Photographic Log



DSCN0168: Looking north toward continuing excavation.



DSCN0156: Looking south at continued excavation.

Recreation Area ICM
Photographic Log



DSCN0150: West sidewall looking south.



DSCN0141: Looking northwest at remaining are to be excavated from Trash Pile "D".

Recreation Area ICM
Photographic Log



DSCN0135: Preparing to mix K-sorb with soils for disposal.



PICT0668: Looking northeast at the remaining Trash Pile "D" area to be excavated,
Note some backfilling of the south section of the excavation.

Recreation Area ICM
Photographic Log

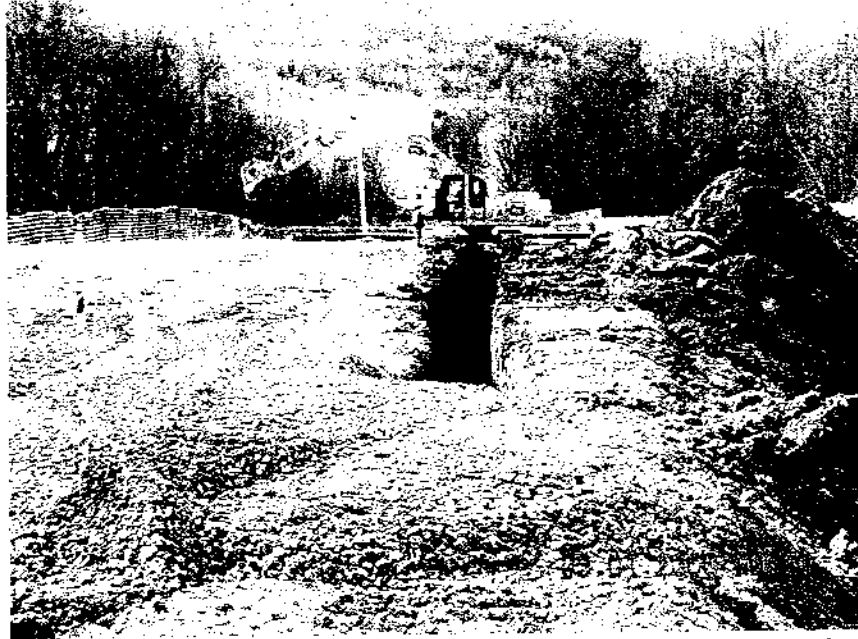


DSCN0659: Looking south east at the southern part of the excavation which
Has been backfilled with imported stone.



DSCN0175: Looking southwest at the start of backfilling of the
excavation with imported stone fill.

Recreation Area ICM
Photographic Log



DSCN0174: Beginning removal of the cutoff wall; to be excavated to 5 feet and backfilled with imported stone.



DSCN0194: Continued Backfilling of the Trash Pile "D" excavation with imported stone.

Recreation Area ICM
Photographic Log



DSCN0197: Looking northeast toward the Trash Pile "D" area
during backfilling



DSCN0213: Looking northeast toward the Trash Pile "D" Area during
final grading of topsoil

Recreation Area ICM
Photographic Log



DSCN0196: Looking east toward the CBS-1 area
following excavation



DSCN0195: Looking southeast at the CBS-3 area following excavation

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