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Transmitted Via Federal Express

March 19, 1998

Mr. Andrew English
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Tennessee Gas Pipeline Company Compressor Station 224 (Clymer, New York)
Final Documentation Report (Order on Consent #A9-0359-9706), Site No. 9-07-014
Project #: 513.42.02 #2

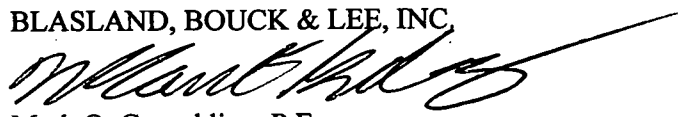
Dear Mr. English:

Enclosed please find four copies (one unbound) of the document entitled *Final Documentation Report for Soil, Sediment, and Drainline Remediation Activities* (March 1998) for Tennessee Gas Pipeline Company (TGPL) Compressor Station 224 located near the town of Clymer, Chautauqua County, New York. This document is being transmitted at the request of TGPL. The *Final Documentation Report* summarizes the remediation activities performed at Station 224 and demonstrates that the completed activities satisfy the requirements established in the *Remedial Design Work Plan* and provides documentation of any variances from that Plan. In addition, the *Operations and Maintenance Plan* is included as an attachment to the *Final Documentation Report*. As noted in the *Final Documentation Report*, an addendum will be prepared following the completion of additional excavation activities in the Air Receiver Tank (ART) Area (anticipated spring/summer 1998). The enclosed document and future addendum will represent the final submittal of documentation reporting as required in the Order on Consent (#A9-0359-9706).

Please contact Mr. Edward Schaper or Mr. A. Timothy Webster, Esq., if you have any questions.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

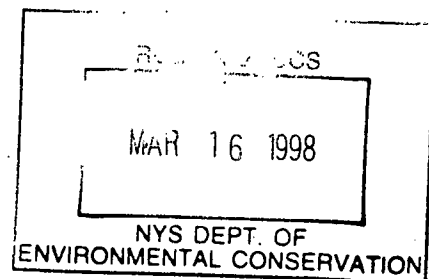

Mark O. Gravelding, P.E.
Manager

MOG/dmn

Enclosure

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cc: G. Anders Carlsson, New York State Department of Health (w/2 encl.)
Gerald Mikol, New York State Department of Environmental Conservation (w/encl.)
Michael J. Lesser, Esq., New York State Department of Environmental Conservation (w/encl.)
Edward Schaper, El Paso Energy (w/encl.)
Ian Yanagisawa, P.E., El Paso Energy (w/encl.)
Richard K. Hite, R.K. Hite & Co., Inc. (w/encl.)
A. Timothy Webster, Esq., Harris, Beach & Wilcox (w/encl.)
Robert K. Goldman, P.E., Blasland, Bouck & Lee, Inc. (w/encl.)



REPORT

Final Documentation Report for Soil, Sediment, and Drainline Remediation Activities

Compressor Station 224
Clymer, Chautauqua County, New York
Site No. 9-07-014

Tennessee Gas Pipeline Company
(an El Paso Energy Company)
Houston, Texas

March 1998

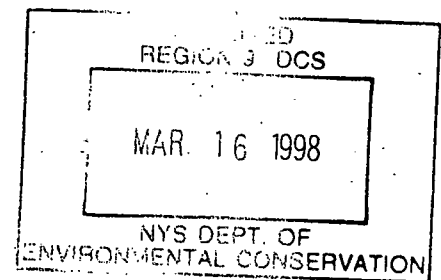
REPORT

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Compressor Station 224
Clymer, Chautauqua County, New York
Site No. 9-07-014

Tennessee Gas Pipeline Company
(an El Paso Energy Company)
Houston, Texas

March 1998



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

6723 Towpath Road, P.O. Box 66
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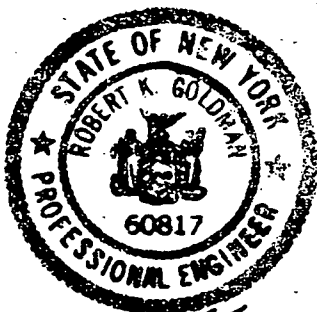
- 2-7 Retired Burn Pit and Scrap Yard Capped Areas
- 3-1 Drainline Remediation

Attachments

- 1 August 13, 1997-Work Plan Approval Letter
- 2 May 13, 1997 Letter Discussing Modifications to the Pre-Remediation Verification Sampling Strategy
- 3 Operations and Maintenance Plan
- 4 Air Monitoring Information
- 5 Liquid Treatment Sampling Analytical Results
- 6 Initial Topsoil, General Backfill, and Gravel Analytical Results (Including a Certification Letter for Gravel)
- 7 Secondary Topsoil and General Backfill Analytical Results (Including a Certification Letter for General Backfill)
- 8 Compressor Station 229 Topsoil Analytical Results (Including Certification Letter)
- 9 Equipment Wipe Sampling Analytical Results
- 10 Drainline Grouting Summary
- 11 Monitoring Well MW-6 Well Construction Log
- 12 Well Abandonment Logs
- 13 Pre-Remediation Verification Sample Analytical Data Review

Certification Statement

I hereby certify that this document has been prepared in accordance with the requirements of the Order on Consent (#A9-0359-9706, dated August 1, 1997) between the New York State Department of Environmental Conservation (NYSDEC) and the Tennessee Gas Pipeline Company (TGPL) for the development and implementation of remedial activities at TGPL's Compressor Station 224 located near the town of Clymer, Chautauqua County, New York. Furthermore, I certify that the remedial activities were performed as described herein and that unless otherwise noted in this Final Documentation Report, such performance was in accordance with the requirements specified in the July 1997 (revised) document entitled *Remedial Design Work Plan*, which was prepared for Compressor Station 224 by Blasland, Bouck & Lee, Inc. (BBL).



A handwritten signature in black ink, appearing to read "Robert K. Goldman", written over a horizontal line.

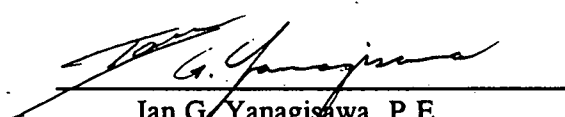
Robert K. Goldman, P.E.
N.Y.P.E. No. 60817

3/13/98

Date

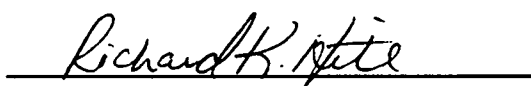
Certification Statement

I hereby certify that the remedial activities were performed as described herein and that unless otherwise noted in this Final Documentation Report, such activities were in accordance with the requirements specified in the July 1997 (revised) document entitled *Remedial Design Work Plan* (BBL, 1997) prepared for Compressor Station 224.



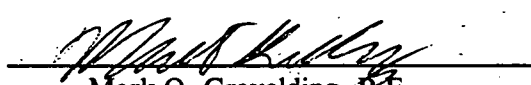
Ian G. Yanagisawa, P.E.
TGPL Project Manager

3/13/98
Date



Richard K. Hite
R.K. Hite & Co., Inc.
(TGPL's Chief Inspector)

3/13/98
Date



Mark O. Gravelding, P.E.
Engineer's Representative

3/13/98
Date

Executive Summary

Between July and October 1997, Tennessee Gas Pipeline Company (TGPL) performed remedial activities at TGPL's Compressor Station 224 located near the town of Clymer, Chautauqua County, New York. The remediation program was performed in accordance with an Order on Consent (#A9-0359-9706, dated August 1, 1997) between TGPL and the New York State Department of Environmental Conservation (NYSDEC), and consistent with the procedures established in the document entitled *Remedial Design Work Plan* (the "Work Plan"; Blasland, Bouck & Lee, Inc. [BBL], July 1997 [revised]). The Work Plan discusses the five primary remediation components to be performed, which include: 1) the excavation and off-site disposal of certain polychlorinated biphenyl- (PCB-) containing soils and sediments; 2) the closure of various drainlines and related appurtenances; 3) abandonment of several groundwater monitoring wells; 4) installation of one groundwater monitoring well; and 5) installation of two, discrete soil caps.

Soil/sediment remediation was performed in the following seven areas of the site:

- Compressor Building Area;
- Auxiliary Building Area;
- Air Receiver Tank (ART) Area;
- Separator Pond Area;
- Tributary of French Creek (on-site) (Areas "A" and "B");
- Retired Burn Pit Area; and
- Scrap Yard Area.

Soil/sediment remediation primarily involved the excavation and off-site disposal of PCB-containing soils and sediments above the specified action level of 25 parts per million (ppm). However, in two areas (i.e., Retired Burn Pit and Scrap Yard areas) the remedy selected included isolation of soil with slightly elevated levels of other constituents via the installation of a 12-inch soil cover. In addition, Areas "A" and "B" along the tributary of French Creek were subject to remediation due to concerns regarding potential erosion of PCB-containing soils/sediments, which during prior sampling were determined to be below the 25 ppm action level. For the remaining four soil/sediment remediation areas of the site, the remedy involved the excavation and off-site disposal of soils/sediments exceeding the PCB action level. The estimated volume of PCB-containing soils/sediment removed from the site is approximately 1,095 in-place cubic yards (cy). This material was disposed at the CWM Chemical Services, Inc. (CWM) landfill in Model City, New York as Toxic Substance Control Act- (TSCA-) Regulated materials. In addition, due to subsurface limitations adjacent to a concrete tank foundation in the ART Area, a subgrade low-permeability cap was installed in a portion of the excavation where residual PCBs above the action level remain. Excavation areas were subsequently backfilled, regraded, and restored similar to original conditions.

As part of soil and sediment remediation activities, liquid treatment was performed on site utilizing a dual carbon treatment unit. In total, approximately 85,646 gallons of liquid were treated and discharged on site. Due to limited treatment system effectiveness, on-site liquid treatment was discontinued during remediation with approximately 22,641 gallons of liquid remaining to be treated. Following subsequent discussions with the NYSDEC, it was determined that the remaining liquid would be disposed off site as non-hazardous material at the High Acres facility in Fairport, New York. In addition, other liquids generated during drainline remediation (approximately 1,250 gallons) were disposed as TSCA-regulated materials at CWM's Model City facility.

Drainline remediation was performed for one on-site drainline system, Drainline B. Approximately 1,085 linear feet of drainage piping, manholes MH 3, MH 4, and MH 5, and an oil/water separator were closed via filling with grout. Sediments removed from drainline appurtenances were disposed at CWM's landfill in Model City, New York as TSCA-regulated materials prior to filling the drainage piping and appurtenances with grout. In addition, as noted above, approximately 1,250 gallons of liquid materials were collected from this drainline system and disposed as TSCA-regulated material at the CWM facility in Model City, New York.

Additional remediation activities included the installation of one monitoring well (MW-6) and the abandonment of four existing monitoring wells (MW-1, MW-3, MW-4 and MW-5).

Certain post-remediation activities also have been or will be implemented at Station 224 to provide for the long-term operation, maintenance, and monitoring of the remediated site. These activities include long-term site management activities such as operations, maintenance, and monitoring of the area subject to capping, groundwater monitoring, and the management of data collected as part of remediation activities.

Overall, this Final Documentation Report summarizes the remediation activities performed at Compressor Station 224, demonstrates that the completed activities satisfy the requirements established in the Work Plan, and provides documentation of any variances from this Plan, in accordance with the requirements of the Order on Consent. To this end, this document provides a summary of the pertinent background information, area-specific summaries of soil/sediment and drainline remediation activities, quality assurance/quality control (QA/QC) information, and a description of post-remediation activities.

Section 1

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

1. Introduction

1.1 General

Between July and October 1997, TGPL performed remedial activities at their Compressor Station 224 located near the town of Clymer, Chautauqua County, New York. As required by the Order on Consent (#A9-0359-9706, dated August 1, 1997) between TGPL and the NYSDEC, the document entitled *Remedial Design Work Plan* (the "Work Plan"; BBL, July 1997 [revised]) indicates that five primary remediation components were to be performed: 1) the excavation and off-site disposal of certain PCB-containing soils and sediments; 2) the closure of various drainlines and related appurtenances; 3) abandonment of several groundwater monitoring wells; 4) installation of one groundwater monitoring well; and 5) installation of two discrete soil caps. The extent of soil/sediment removal, drainline closure, and capping was based on specific criteria presented in the Work Plan. Approval of the Work Plan was provided by the NYSDEC in a letter dated August 13, 1997 presented as Attachment 1.

Documentation of these remediation activities is provided in this Final Documentation Report.

1.2 Facility Description

TGPL owns and operates a natural gas pipeline system that extends from Texas to New England. Compressor stations are located at various points along the pipeline to pressurize the natural gas in the pipeline to facilitate its transmission. Several of these compressor stations are located throughout New York State. Station 224 is located near the town of Clymer in Chautauqua County, New York. This station occupies approximately 206 acres along Ravlin Hill Road (approximately 1 mile south of the hamlet of French Creek) and is bordered on the east and west by farm land and fields; woods lie to the north and south of the site.

The primary operational facilities at Compressor Station 224 consist of the following: a Compressor Building, which contains four, reciprocal-type natural gas compressor engines; the Auxiliary Building, which contains the starting air compressors used to start the compressor engines; three air receiver tanks (ARTs); and associated piping. In addition, an administrative office, pipeline warehouse, meter building, combination office/garage, and a water treatment building are present at the station. A site plan is provided as Figure 1-1.

Drainage systems have been utilized at Compressor Station 224 for the conveyance and discharge of sanitary wastes, storm water, and floor, foundation, and roof drainage for several buildings. Components of these systems (depending on the specific system) include drain pipes, holding tanks, manholes, and other drainline appurtenances, as depicted on Figure 1-1.

1.3 Report Format

The purpose of this Final Documentation Report is to document the remediation activities performed at Compressor Station 224 to demonstrate that the completed activities satisfy the requirements established in the Work Plan, and also to provide documentation of changes from this plan, in accordance with the Order on Consent. To this end, this document provides a summary of the pertinent background information, area-specific summaries of soil, sediment, and drainline remediation activities, a summary of well abandonment and installation activities, analytical sampling QA/QC information, and a description of post-remediation activities.

In addition to the report narrative, several tables, figures, and attachments have been included to summarize remediation activities. In general, tables and figures are provided at the end of the section in which they are first referenced. However, in Section 2, tables and figures are provided at the end of each tabbed section (tabbed

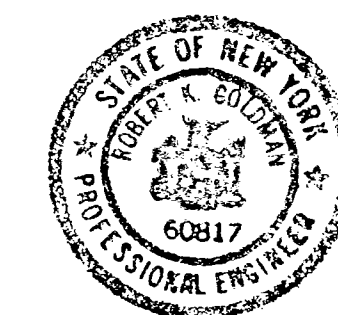
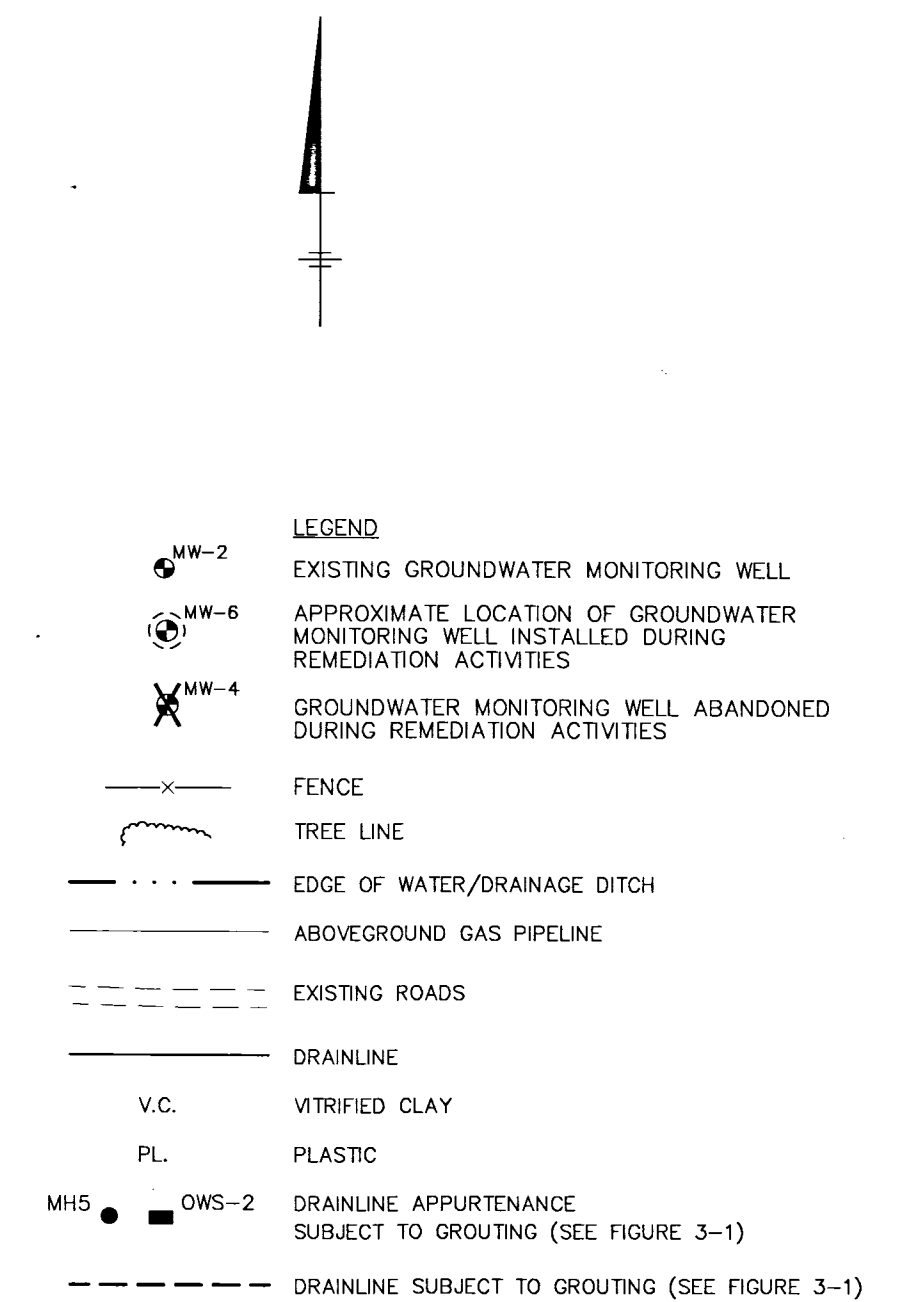
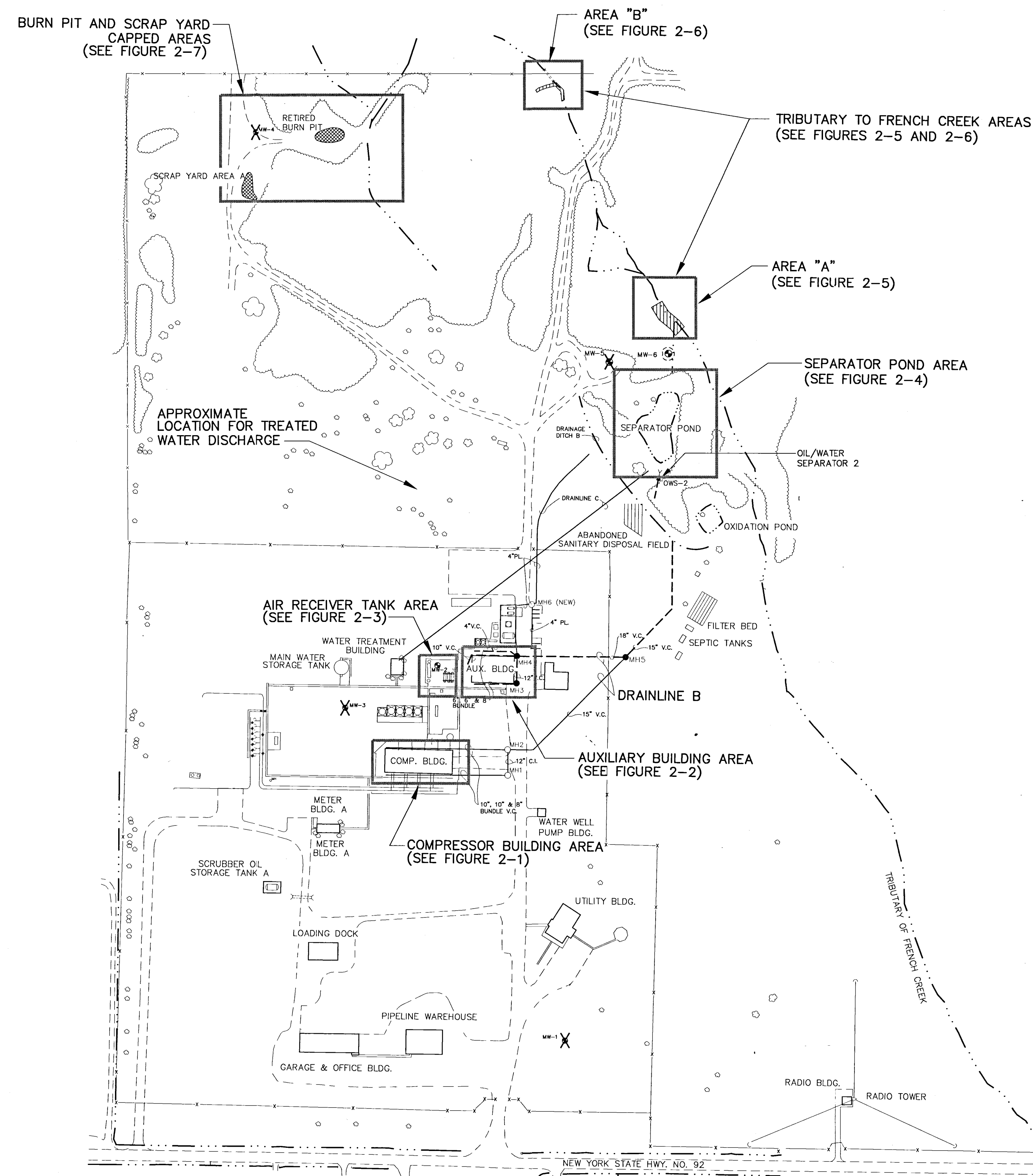
sections are provided for each soil/sediment remediation area). Attachments, which are referenced herein, are provided at the end of the document. Throughout the report, this information will be referenced as appropriate.

1.4 Remediation Project Roles

Soil, sediment, and drainline remediation activities at Compressor Station 224 involved several firms, organizations, and facilities, including those described below.

- **TGPL, Houston, Texas** - TGPL is the owner and operator of Compressor Station 224. TGPL secured the services of the various firms, organizations, and facilities involved in the remediation activities and provided overall direction and coordination during remediation.
- **NYSDEC** - The NYSDEC reviewed and approved the Work Plan and, as necessary, the variations from this Plan, as documented herein. In addition, NYSDEC central office personnel secured a representative from **Malcolm Pirnie, Inc.**, to provide frequent inspections of ongoing remediation activities.
- **R.K. Hite & Company, Inc. (R.K. Hite)** - R.K. Hite was secured by TGPL to provide a Chief Inspector, who served as their on-site representative during remediation activities.
- **ENVIRON Engineering Associates of New York, P.C. (ENVIRON), Princeton, New Jersey** - ENVIRON, (in cooperation with Ecology & Environment, Inc.) coordinated the collection and presentation of the previous site characterization data related to the Remedial Investigation, completed the feasibility study (FS) for the site, and provided coordination with regulatory agencies.
- **BBL, Syracuse, New York** - BBL prepared the Work Plan including the Contract Documents and Contract Drawings. Additionally, BBL performed sampling, provided a representative to periodically monitor the Remediation Contractor's general compliance with the Contract Documents, provided a representative to oversee monitoring well abandonment and installation, assisted TGPL in coordinating with regulatory agencies, and conducted various assessment and support activities.
- **Philip Services Corporation (Philip), Houston, Texas** - Philip served as the Remediation Contractor. Philip performed remediation activities and directed subcontractor services as necessary to implement soil/sediment and drainline remediation activities in general accordance with the Contract Documents. The major subcontractors utilized by Philip and tasks performed include the following:
 - ▶ **Amherst Construction** - performed drainline grouting activities;
 - ▶ **SJB Services, Inc.** - performed monitoring well abandonment and installation activities; and
 - ▶ **Fox Trucking** - performed various site restoration activities, such as fence repair and seeding.
- **RECRA Environmental, Inc. (RECRA), Amherst, New York** - RECRA served as the analytical laboratory for the analysis of soil, sediment, and liquid samples collected at Compressor Station 224, as well as backfill samples collected from off-site sources.
- **CWM Chemical Services, Inc. (CWM) Model City Landfill and Liquid Disposal Facility, Model City, New York** - The CWM facilities were utilized for the disposal of solid waste materials containing greater than or equal to 25 parts per million (ppm) PCBs (i.e., TSCA materials) and liquid disposed as TSCA materials. These facilities are permitted to accept such materials for disposal. In addition, CWM arranged for waste transportation services for both TSCA and non-TSCA materials (disposed at the High Acres Landfill).

-
- **High Acres Landfill, Fairport, New York** - The High Acres Landfill served as the disposal facility for a portion of the liquid materials collected during remediation activities. This liquid waste was identified as non-TSCA material; the High Acres facility is permitted to accept such materials for disposal.



RECORD DRAWINGS
 TO THE BEST OF OUR KNOWLEDGE,
 INFORMATION AND BELIEF, THESE RECORD
 DRAWINGS SUBSTANTIALLY REPRESENT
 THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.
 DATE 3/13/98 BY [Signature]
 FILE NUMBER 5134202E

TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
 HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK

SITE PLAN



BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

FIGURE
1-1

Section 2

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

2. Soil/Sediment Remediation

2.1 General

This section provides a summary of the soil and sediment remediation activities performed at Compressor Station 224, including a description of the remediation requirements, sampling approach, and an area-specific summary of the remediation activities undertaken in each remediation area.

2.2 Remediation Requirements

Various environmental studies have been conducted at the site since 1988. These studies included the performance of phased and targeted investigations to determine the potential presence and extent of PCBs and other constituents in various media at the site. A summary of the results of these prior investigations is provided in the Work Plan.

Remedial goals and action levels were established through the remedy selection process stated in 6 NYCRR Part 375-1.10. The March 1997 NYSDEC Record of Decision (ROD) specifies certain remedial goals for the site, which are summarized as follows:

- The PCB action level for on-site soils and sediments is 25 ppm (see Note below);
- Prevent, or greatly reduce, potential migration of contaminated on-site soils and sediments through surface run-off;
- Prevent, or greatly reduce, potential migration of contaminants via on-site drainlines; and
- Prevent, or greatly reduce, the potential for direct human or animal contact with contaminated on-site soils and sediments.

Note: The 25 ppm PCB action level for soil and sediment identified above was initially to be used to identify the extent of remediation at the site. However, because the pre-remediation verification sampling approach (discussed below) utilized 12-inch depth interval samples, the development of excavation limits required the application of a modified "characterization goal" to define the extent, as discussed in a May 13, 1997 letter from TGPL (Ed Schaper) to the NYSDEC (James A. Moras). As indicated in the letter, which is presented as Attachment 2, 12-inch depth samples were compared to a characterization goal of 12.5 ppm PCBs (i.e., one-half the 25 ppm action level) because a 12-inch sampling interval was used instead of a 6-inch sampling interval.

To address the remedial goals for on-site soils and sediments identified above, data collected during prior characterization activities were utilized to identify the preliminary remediation areas shown in the Work Plan. These remediation areas required additional pre-remediation sampling to verify the estimated extent of excavation. The Work Plan describes the general strategy and approach utilized in determining the final (verified) extent of remediation, as summarized below.

For Compressor Station 224, the criteria for demonstrating that the PCB action level in soils and sediments were achieved involved the performance of pre-remediation verification sampling. The results of the additional sampling were utilized to establish the horizontal and vertical extent of soils and sediments exhibiting PCBs above the 12.5 ppm characterization goal (for 12-inch depth interval samples). The soils and sediments containing PCBs above the characterization goal were then removed to the identified horizontal and vertical extent and subject to off-site disposal. In addition, it was determined that excavation could not proceed in a portion of the ART remediation area

due to safety concerns related to undermining the concrete tank foundation. Therefore, with NYSDEC's approval, a low-permeability cap was required for this area to address residual PCBs. The low-permeability cap construction and location are discussed in Section 2.4.3.

Two remediation areas located along the tributary to French Creek were identified based on prior characterization sampling. The extent of remediation in these two areas was not established in the same manner as other remediation areas at the site (i.e., samples delineating the horizontal and vertical extent of excavation were not collected and analyzed). Instead, limits were established based on on-site discussions with the NYSDEC. Prior sampling along these two sections, which are both located on site, exhibited PCB levels below the 25 ppm action level; however, as further discussed in Section 2.4.5, these two areas were excavated and restored with permanent erosion control measures (i.e., geotextile and rip rap).

To address remaining areas, samples were collected and analyzed during site characterization from drainline sediments and soils in the Retired Burn Pit and Scrap Yard areas. Based on the analytical results, a portion of Drainline B (including related appurtenances) required remediation due to PCB levels and soils in the Retired Burn Pit and Scrap Yard areas were identified for remediation based on slightly elevated levels of other constituents.

Additional details regarding the sampling strategy and scope of soil, sediment, and drainline remediation activities are provided in subsequent sections.

2.3 Sampling Strategy

An integral component of the Compressor Station 224 remediation program was the performance of pre-remediation sampling and analysis. The primary objective of pre-remediation sampling was to further define the preliminary remediation areas presented in the Work Plan (which were developed based on initial site characterization sampling and an estimation methodology involving interpolation or extrapolation) in order to develop final verified excavation limits. As identified in the NYSDEC-approved Work Plan, horizontal and vertical delineation were accomplished prior to mobilization of the Remediation Contractor; therefore, additional sampling during remediation was not required unless a previously uncharacterized area was identified (based on visual inspection). Consequently, pre-remediation samples also served as post-remediation verification samples. During remediation activities, additional sampling was required due to the identification of discolored soil in the ART Area; the analytical results and resulting changes to the excavation limits based on this additional sampling are discussed in Section 2.4.3.

To address the objective presented above, both perimeter and depth samples were collected and analyzed to establish the horizontal and vertical excavation limits. The sampling locations were field surveyed to establish horizontal sample coordinates in order to define final excavation limits. The general procedures used to establish the excavation limits are outlined in the Work Plan. The number and location of pre-remediation samples collected were determined based on field conditions, site features, previous sampling locations and analytical data, and the estimated extent of excavation presented in the Work Plan. Once collected, the samples were sent to RECRA laboratories and selected samples were analyzed or "held" until released for analysis by TGPL. For example, several samples from varying depth intervals may have been collected from a discrete sample location (node); however, the sample collected from the shallowest depth interval may have been analyzed and the deeper samples "held" until the analytical results from the shallowest interval were received and evaluated. The samples submitted to RECRA laboratories were analyzed for PCBs in accordance with a modified United States Environmental Protection Agency (USEPA) SW-846 Method 8081 (i.e., RECRA Method REI-111-01-04).

The analytical results for samples collected from a 12-inch interval were subsequently compared to the characterization goal of 12.5 ppm PCBs (or were compared to the 25 ppm action level for 6-inch interval samples) to determine the appropriate course of action, which included the following: 1) release of additional "hold" samples for analysis; 2) collection and analysis of additional pre-remediation samples; or 3) verification that the characterization goal/action level had been met and delineation of the excavation area is complete. The delineation process for defining the extent of excavation was complete when all surface and depth samples were below the appropriate PCB action level or characterization goal.

Following completion of the verification sampling, TGPL prepared final excavation drawings, which were provided to the NYSDEC and Philip before initiating excavation activities.

The analytical data review for pre-remediation verification samples is summarized in Section 5 of this Final Documentation Report.

2.4 Soil and Sediment Remediation Activities

The primary component of remediation activities consisted of the excavation and off-site disposal of soils and sediments exceeding the PCB action level or characterization goal. In addition, two areas were subject to remediation via the installation of a 12-inch soil cover due to the presence of slightly elevated levels of other constituents. The remediation areas identified in the Work Plan (and the associated constituents of concern) include the following:

- Compressor Building Area (PCBs);
- Auxiliary Building Area (PCBs);
- ART Area (PCBs);
- Separator Pond Area (PCBs);
- Tributary of French Creek (on-site Areas "A" and "B") (erodible soils with PCBs);
- Retired Burn Pit Area (polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans); and
- Scrap Yard Area (semi-volatile organic compounds [SVOCs]).

These remediation areas were identified based on reviewing site characterization sample results obtained prior to implementation of the Work Plan, as well as the results of additional sampling and analysis conducted prior to the initiation of remediation activities. The pre-remediation sampling and analysis program utilized fixed laboratory analyses to confirm/refine the horizontal and vertical extent of soil/sediment to be remediated. The strategy used for pre-remediation delineation was described in the Work Plan, and is summarized above.

For each area, this section provides general background information, a summary of pre-remediation sampling activities, a summary of the scope of remediation, and identification of any deviations from the Work Plan. Certain components of the remediation process were common to each remediation area; therefore, these components are not specifically included in the area-specific descriptions, but are instead described below.

Initially, site activities consisted of mobilization to the site and set-up of an office trailer for use by Philip, NYSDEC, and TGPL personnel (including other designated representatives). Other site preparation activities included the construction of stabilized access roads, clearing of trees, set-up of the material and equipment staging areas, delivery of miscellaneous support equipment (e.g., electrical generator), and connection of telephone lines for the office trailer. In addition, unless otherwise noted in the detailed descriptions, the following activities were performed as necessary prior to remediation activities in each area:

- Delineation of excavation limits based on the information presented in the Work Plan, the results of pre-remediation sampling activities, and/or final excavation drawings; subsequently, the surveyed sample locations were utilized to establish limits of remediation in the field;
- Establishment of a health and safety exclusion zone, contamination reduction zone, and support zone;
- Implementation of erosion and sedimentation control measures (e.g., staked hay bales, silt fences, diversion dike, etc.);
- Placement of construction safety fencing around the excavation areas; and
- Establishment of remediation support areas to be utilized for direct loading of materials (where applicable).

In addition, demobilization of equipment was performed as needed throughout the project. If a piece of heavy equipment that had contacted PCB-containing materials was to be taken off site, or relocated (i.e., transferred) to another area on site, it was cleaned in accordance with the requirements of the Contract Documents (an attachment to the Work Plan) and a visual inspection was performed by TGPL's Chief Inspector (R.K. Hite). Based on the visual inspection, the equipment was either recleaned and reinspected or allowed to be taken off site or relocated on site. Additionally, as specified in the Contract Documents, wipe sampling of equipment that had contacted PCB-containing soil/sediment/liquid was performed prior to the equipments' removal from the site. The analytical results of wipe sampling are summarized in Section 2.8.

Following completion of initial site activities, remediation activities were performed. The method of remediation involved excavation and off-site disposal of soils and sediments. In addition, with NYSDEC's approval, a low-permeability cap was installed in the ART Area due to safety concerns regarding excavation at depth in the vicinity of a concrete tank foundation. Depending on site conditions, soil/sediment excavation was performed by two methods: manual or mechanical excavation. Manual excavation involved the removal of soils utilizing hand tools and was performed adjacent to buildings, gas lines, utilities, foundations, and other operationally sensitive areas. Mechanical excavation involved the use of mechanical equipment and was utilized in areas where manual excavation was not required.

Excavated soils and "dry" sediments subject to off-site disposal were excavated and either placed into soil bags or directly into lined containers/vehicles used for off-site transport and disposal. Sediments that were excessively "wet" were "dewatered" (as necessary) prior to loading into containers or vehicles. Additional information regarding the "dewatering" process is provided in the area-specific remediation summaries, as appropriate. Vehicles/containers utilized for off-site transport and disposal of solid materials were lined and tarped prior to leaving the site. Subsequently, materials to be disposed were manifested and transported to the appropriate disposal facility.

Restoration of the remediated areas included re-establishing the initial contours and appearance of each area. This process included the placement of backfill material to within 6 inches of initial grade. The uppermost 6 inches were then covered with topsoil if the area was previously vegetated, or crushed stone if the area previously had a gravel cover. Areas receiving topsoil were subsequently fertilized, seeded, and mulched to promote vegetative growth.

The remainder of this section summarizes the specific activities performed in each of the seven remediation areas. To facilitate review of the remediation activities performed in each area, tabbed dividers have been inserted in this document to identify each remediation area (with the exception of the Burn Pit and Scrap Yard remediation areas

which are summarized in a single tabbed section). Each tabbed section includes the text, tables, and figures documenting the remediation activities performed in that area.

Compressor Building

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Compressor Building

2.4.1 Compressor Building Area

The Compressor Building is centrally located on station property and is the main operational facility housing four reciprocating-type natural gas compressor engines (Figure 1-1). The results of prior site characterization sampling in this area indicated the presence of PCBs at detectable levels ranging up to 940 ppm in samples from four locations in three areas located along the south side of the building. As a result, and in accordance with the Work Plan, the Compressor Building Area was further delineated during pre-remediation sampling by collecting surface and subsurface soil samples adjacent to the three discrete areas. Based on the results of additional sampling, the estimated extent of excavation for two of the three areas was modified; subsequently, final excavation plans were prepared for this area by TGPL and provided to the NYSDEC.

2.4.1.1 Pre-Remediation Sampling

Pre-remediation sampling activities included the collection and analysis of 13 samples (excluding duplicates) from 12 discrete locations (nodes) to delineate and verify the preliminary excavation limits for the three discrete remediation areas identified in the Work Plan. As previously discussed, these samples were collected in 12-inch sampling intervals (compared to a 6-inch sampling interval for most site characterization samples) and, as a result, were compared to a modified characterization goal of 12.5 ppm PCBs (see Section 2.2 and Attachment 2 for additional details). All 13 samples indicated PCB levels below this modified characterization goal. Based on these results, the three discrete remediation areas identified for excavation from previous site characterization results were verified. However, the depth of final excavation in two of the excavation areas was increased to an overall depth of 12 inches due to the modified 12-inch sampling interval approach. Table 2-1 provides a summary of the results of pre-remediation delineation sampling in this area. The results and locations of initial site characterization and pre-remediation sampling are shown on Figure 2-1.

2.4.1.2 Remediation

Remediation in the Compressor Building Area consisted of excavating soils in the three identified areas to the extent determined based on the results of site characterization and pre-remediation sampling and analysis. Also, the building foundation served as the northern boundary of excavation. Excavation was performed by manual means utilizing hand tools as these three areas are located near above-ground piping. Due to the inaccessibility of these excavation areas, the excavated soil was placed into soil bags. Subsequently, the soil bags were placed into a disposal vehicle/container. The excavation areas and depths are shown on Figure 2-1.

The overall depth of excavation -- excluding gravel surface layer (if present) -- in the three discrete areas was approximately 12 inches below original ground surface. The total in-place volume of soil and gravel excavated from this area is estimated to be approximately 5.9 cubic yards (cy). All materials were subject to TSCA disposal at the CWM disposal facility in Model City, New York. Following excavation of the three specified areas, the excavations were backfilled and the surface was restored with a gravel surface cover.

TABLE 2-1

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK
COMPRESSOR BUILDING - SAMPLING AND ANALYSIS RESULTS

Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-CB-DS11-063-01	CB-11-063	0 to 12	06/04/97	1.1	
224-CB-DS11-067-01FD	CB-11-063	0 to 12	06/04/97	ND(2.1)	FIELD DUPLICATE
224-CB-DS11-064-01	CB-11-064	0 to 12	06/04/97	ND(2.3)	
224-CB-DS11-065-01	CB-11-065	0 to 12	06/04/97	ND(2.2)	
224-CB-DS11-066-01	CB-11-066	12 to 24	06/04/97	ND(2.3)	
224-CB-DS11-071-01	CB-11-071	0 to 12	06/04/97	ND(2.1)	
224-CB-DS11-072-01	CB-11-072	0 to 12	06/04/97	ND(2.0)	
224-CB-DS11-073-01	CB-11-073	0 to 12	06/04/97	ND(2.1)	
224-CB-DS11-074-01	CB-11-074	12 to 24	06/04/97	ND(2.3)	
224-CB-DS11-079-01	CB-11-079	0 to 12	06/04/97	ND(2.1)	
224-CB-DS11-080-01	CB-11-080	0 to 12	06/04/97	ND(2.1)	
224-CB-DS11-081-01	CB-11-081	0 to 12	06/04/97	2.7	
224-CB-DS11-082-01	CB-11-082	12 to 24	06/04/97	ND(2.2)	
224-CB-DS11-082-02	CB-11-082	24 to 36	06/04/97	ND(2.1)	

Notes:

Field Duplicate = QA/QC sample indicating the precision and accuracy of the analytical method relative to the sample matrix.

ppm = parts per million = milligrams per kilogram (mg/kg).

ND (2.1) = PCBs Not Detected (method detection limit is shown in parentheses).

1. Data validation was performed by Tennessee Gas Pipeline Company (TGPL) in accordance with the NYSDEC-approved QAPP (BBL, May 1995 and TGPL, February 1996); "USEPA SW-846, Test Methods for the Evaluation of Solid Waste" and USEPA Region II Standard Operating Procedures SW-846 Method 8080A/8000A, SOP HW-23 (April 1995).

2. Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:

- Database ID is utilized by TGPL for their database and internal tracking purposes;
- Location ID (Node) identifies a specific discrete sample location;
- Sample depth refers to the distance below the original ground surface or below gravel surface cover (if present);
- Sample date refers to the date that the sample was collected in the field; and
- REI Method Results obtained using a modified USEPA SW-846 Method 8081 (i.e., REI-111-01-04 Method by RECRA Environmental, Inc. [RECRA]).

3. The sample results presented in this table represent only samples collected by BBL prior to remediation (i.e., no site characterization samples).

SITE CHARACTERIZATION SAMPLES		
SAMPLE NODE	SAMPLE DEPTH (inches)	PCB (ppm)
022CB	0-6	940.0
	6-12	94.0
	12-24	3.9
	24-36	NON-DETECT
026CB	0-6	150.0
	6-12	7.5
	12-24	23.0
030CB	0-6	16.0
	6-12	5.3
	6-12	130 *
	12-24	NON-DETECT
032CB	0-6	130.0
	6-12	11.0

* DUPLICATE SAMPLE

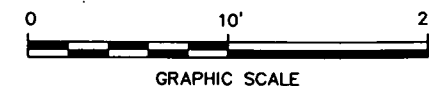
PRE-REMEDIATION VERIFICATION SAMPLES				
SAMPLE NODE	LOCATION		SAMPLE DEPTH (inches)	PCB (ppm)
	"X"	"Y"		
CB-11-063	845914.4448	750852.3505	0-12	1.1
CB-11-064	845916.9448	750846.3505	0-12	NON-DETECT
CB-11-065	845919.4448	750852.3505	0-12	NON-DETECT
CB-11-066	845916.9448	750856.3505	12-24	NON-DETECT
CB-11-071	845942.7140	750853.8505	0-12	NON-DETECT
CB-11-072	845945.2140	750851.3505	0-12	NON-DETECT
CB-11-073	845947.7140	750853.8505	0-12	NON-DETECT
CB-11-074	845945.2140	750853.8505	12-24	NON-DETECT
CB-11-079	845964.1329	750853.8505	0-12	NON-DETECT
CB-11-080	845966.6329	750851.3505	0-12	NON-DETECT
CB-11-081	845969.1329	750853.8505	0-12	2.7
CB-11-082	845966.6329	750853.8505	12-24	NON-DETECT
			24-36	NON-DETECT

LEGEND:

- SITE CHARACTERIZATION SAMPLE (RESULTS < 25ppm)
- 022CB SITE CHARACTERIZATION SAMPLE (RESULTS ≥ 25ppm)
- + CB-11-063 PRE-REMEDIATION VERIFICATION SAMPLE LOCATION AND NODE
- [] APPROXIMATE EXTENT OF EXCAVATION (SUBJECT TO TSCA DISPOSAL)
- 12" DEPTH OF FINAL EXCAVATION [MEASURED FROM BELOW ORIGINAL GROUND SURFACE OR BOTTOM OF GRAVEL SURFACE COVER (IF PRESENT)]

GENERAL NOTES:

- THIS FIGURE HAS BEEN PREPARED BASED ON A TGPL BASE MAP (TGPL CADD FILE NUMBER FIG2-1V, 3/97).
- SAMPLE NODE IDs AND ANALYTICAL RESULTS ARE NOT SHOWN FOR SITE CHARACTERIZATION SAMPLES WITH PCB LEVELS BELOW THE ACTION LEVEL (25 ppm).
- SIDEWALKS, FOUNDATIONS, AND PAVED AREAS MAY SERVE AS HORIZONTAL LIMITS OF REMEDIATION.
- ALL LOCATIONS, DIMENSIONS, AND SITE FEATURES ARE APPROXIMATE.
- THE EXTENT OF REMEDIATION INDICATED ON THIS FIGURE WAS DEVELOPED BY TGPL BASED ON THE RESULTS OF PRE-REMEDIATION VERIFICATION SAMPLING AND ANALYSIS ACTIVITIES.
- DEPTH OF FINAL EXCAVATION IS MEASURED FROM ORIGINAL GROUND SURFACE OR BELOW GRAVEL SURFACE (IF PRESENT).
- PRE-REMEDIATION VERIFICATION ANALYTICAL DATA SHOWN ON THIS FIGURE WERE COLLECTED PRIOR TO THE IMPLEMENTATION OF THE WORK PLAN. ALL SITE CHARACTERIZATION AND PRE-REMEDIATION SAMPLE RESULTS ARE REPORTED IN PARTS PER MILLION (ppm). PLEASE NOTE THE FOLLOWING REGARDING PRE-REMEDIATION VERIFICATION SAMPLE INFORMATION DISPLAYED ON THIS FIGURE:
 - SAMPLE NODE USED TO IDENTIFY A SPECIFIC DISCRETE SAMPLE LOCATION;
 - SAMPLE LOCATION COORDINATES ("X" AND "Y") GIVEN IN THE STATE PLAN COORDINATE SYSTEM;
 - SAMPLE DEPTH REFERS TO THE DISTANCE BELOW THE ORIGINAL GROUND SURFACE; AND
 - PRE-REMEDIATION VERIFICATION SAMPLE ANALYTICAL RESULTS OBTAINED BY RECRA USING A MODIFIED USEPA SW846 METHOD 8081 (REI-111-01-04).



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DATE 3/15/78 BY [Signature]
FILE NUMBER 5134201F

TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY HOUSTON, TEXAS	
COMPRESSOR STATION 224 CHAUTAUQUA COUNTY, NEW YORK	
COMPRESSOR BUILDING REMEDIATION AREA	
BBL	BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE
2-1

X: (XREF)
L: (LAYER)
P: STD-PCP/BL
2/04/98 SYR-54-JER
51342002/RECORD/51342001.DWG

Auxiliary Building

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Auxiliary Building

2.4.2 Auxiliary Building Area

The Auxiliary Building Area is centrally located on station property northeast of the Compressor Building (Figure 1-1). The results of prior site characterization sampling in this area indicated the presence of PCBs at detectable levels of 63 and 500 ppm at a single sample location (node). As a result, and in accordance with the Work Plan, this single discrete area was further delineated during pre-remediation sampling by collecting surface and subsurface soil samples adjacent to this area. Based on the results of additional pre-remediation sampling, the estimated extent of excavation presented in the Work Plan was verified; subsequently, final excavation plans were prepared for this area by TGPL and provided to the NYSDEC.

2.4.2.1 Pre-Remediation Sampling

Pre-remediation sampling activities included the collection and analysis of three samples (excluding duplicates) from three discrete sample locations to verify the preliminary excavation limits. All three samples indicated PCB levels below the characterization goal of 12.5 ppm PCBs. Based on these results, and the results from previous site characterization sampling, one discrete area required remediation. Table 2-2 provides a summary of the results of pre-remediation delineation sampling in this area. The results and locations of initial site characterization and pre-remediation sampling are shown on Figure 2-2.

2.4.2.2 Remediation

Remediation in the Auxiliary Building Area consisted of excavating soils to the extent determined based on the results of site characterization and pre-remediation sampling and analysis. In addition, concrete foundations and sidewalks were considered the north and south, respectively, horizontal limits of excavation. In this single discrete area, excavation was performed by mechanical means. The excavation area and depth are shown on Figure 2-2.

The overall depth of excavation -- excluding gravel layer -- in the Auxiliary Building Area was approximately 12 inches below original ground surface. The total in-place volume of soil and gravel excavated from this area is estimated to be approximately 2.3 cy, all of which was disposed as TSCA materials at the CWM facility in Model City, New York. Following excavation in this area, the excavated area was backfilled with gravel and the surface was restored with a crushed stone surface cover.

TABLE 2-2

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXASFINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK
AUXILIARY BUILDING - SAMPLING AND ANALYSIS RESULTS

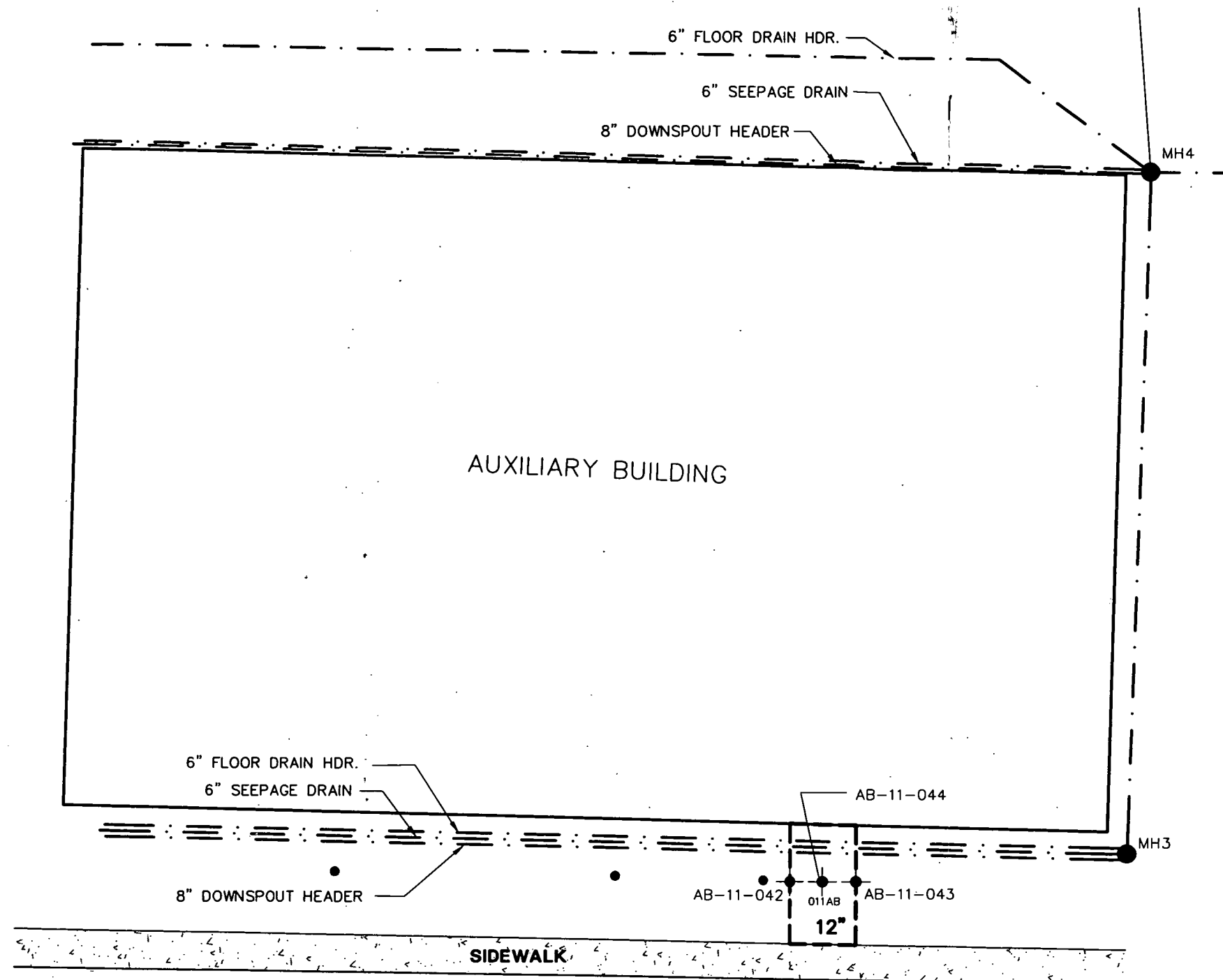
Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-AB-DS11-042-01	AB-11-042	0 to 12	06/04/97	ND(2.2)	
224-AB-DS11-043-01	AB-11-043	0 to 12	06/04/97	4.0	
224-AB-DS11-044-01	AB-11-044	12 to 24	06/04/97	ND(2.2)	

Notes:

ppm = parts per million = milligrams per kilogram (mg/kg).

ND (2.2) = PCBs Not Detected (method detection limit is shown in parentheses).

1. Data validation was performed by Tennessee Gas Pipeline Company (TGPL) in accordance with the NYSDEC-approved QAPP (BBL, May 1995 and TGPL, February 1996), "USEPA SW-846, Test Methods for the Evaluation of Solid Waste" and USEPA Region II Standard Operating Procedures SW-846 Method 8080A/8000A, SOP HW-23 (April 1995).
2. Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
 - Database ID is utilized by TGPL for their database and internal tracking purposes;
 - Location ID (Node) identifies a specific discrete sample location;
 - Sample depth refers to the distance below the original ground surface or below gravel surface cover (if present);
 - Sample date refers to the date that the sample was collected in the field; and
 - REI Method Results obtained using a modified USEPA SW-846 Method 8081 (i.e., REI-111-01-04 Method by RECRA Environmental, Inc. [RECRA]).
3. The sample results presented in this table represent only samples collected by BBL prior to remediation (i.e., no site characterization samples).



PRE-REMEDIATION VERIFICATION SAMPLES				
SAMPLE NODE	LOCATION		SAMPLE DEPTH (inches)	PCB (ppm)
	"X"	"Y"		
AB-11-042	846073.1560	751017.9640	0-12	NON-DETECT
AB-11-043	846078.1560	751017.9640	0-12	4.0
AB-11-044	846075.6560	751017.9640	12-24	NON-DETECT

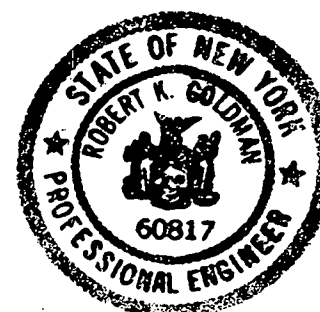
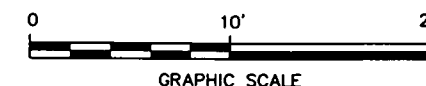
SITE CHARACTERIZATION SAMPLES		
SAMPLE NODE	SAMPLE DEPTH (inches)	PCB (ppm)
011AB	0-6	500.0
	6-12	63.0
	12-24	NON-DETECT

LEGEND:

- SITE CHARACTERIZATION SAMPLE (RESULTS < 25ppm)
- 011AB SITE CHARACTERIZATION SAMPLE (RESULTS ≥ 25ppm)
- + AB-11-042 PRE-REMEDIATION VERIFICATION SAMPLE LOCATION AND NODE
- [] APPROXIMATE EXTENT OF EXCAVATION (SUBJECT TO TSCA DISPOSAL)
- 12" DEPTH OF FINAL EXCAVATION [MEASURED FROM BELOW ORIGINAL GROUND SURFACE OR BOTTOM OF GRAVEL SURFACE COVER (IF PRESENT)]
- MH3 DRAINLINE APPURTENANCE SUBJECT TO GROUTING
- DRAINLINE SUBJECT TO CLOSURE/ABANDONMENT VIA FILLING WITH GROUT (ALSO SEE FIGURE 3-1)

GENERAL NOTES:

- THIS FIGURE HAS BEEN PREPARED BASED ON A TGPL BASE MAP (TGPL CADD FILE NUMBER FIG2-3V, 3/97).
- SAMPLE NODE IDs AND ANALYTICAL RESULTS ARE NOT SHOWN FOR SITE CHARACTERIZATION SAMPLES WITH PCB LEVELS BELOW THE ACTION LEVEL (25 ppm).
- SIDEWALKS, FOUNDATIONS, AND PAVED AREAS MAY SERVE AS HORIZONTAL LIMITS OF REMEDIATION.
- ALL LOCATIONS, DIMENSIONS, AND SITE FEATURES ARE APPROXIMATE.
- THE EXTENT OF REMEDIATION INDICATED ON THIS FIGURE WAS DEVELOPED BY TGPL BASED ON THE RESULTS OF PRE-REMEDIATION VERIFICATION SAMPLING AND ANALYSIS ACTIVITIES.
- DEPTH OF FINAL EXCAVATION IS MEASURED FROM ORIGINAL GROUND SURFACE OR BELOW GRAVEL SURFACE (IF PRESENT).
- PRE-REMEDIATION VERIFICATION ANALYTICAL DATA SHOWN ON THIS FIGURE WERE COLLECTED PRIOR TO THE IMPLEMENTATION OF THE WORK PLAN. ALL SITE CHARACTERIZATION AND PRE-REMEDIATION SAMPLE RESULTS ARE REPORTED IN PARTS PER MILLION (ppm). PLEASE NOTE THE FOLLOWING REGARDING PRE-REMEDIATION VERIFICATION SAMPLE INFORMATION DISPLAYED ON THIS FIGURE:
 - SAMPLE NODE USED TO IDENTIFY A SPECIFIC DISCRETE SAMPLE LOCATION;
 - SAMPLE LOCATION COORDINATES ("X" AND "Y") GIVEN IN THE STATE PLAN COORDINATE SYSTEM;
 - SAMPLE DEPTH REFERS TO THE DISTANCE BELOW THE ORIGINAL GROUND SURFACE; AND
 - PRE-REMEDIATION VERIFICATION SAMPLE ANALYTICAL RESULTS OBTAINED BY RECRA USING A MODIFIED USEPA SW846 METHOD 8081 (RE-111-01-04).



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TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK

AUXILIARY BUILDING
REMEDIATION AREA

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-2

X: (XREF)
L: (LAYER)
P: STD-PCP/BL
2/04/98 SYR-54-JER
51342002/RECORD/51342003.DWG

Air Receiver Tank Area

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

2.4.3 Air Receiver Tank Area

The ART Area is centrally located on station property immediately west of the Auxiliary Building (Figure 1-1). The results of prior characterization sampling in this area indicated the presence of PCBs at detectable levels ranging up to 9,700 ppm. As a result, and in accordance with the Work Plan, the ART Area was further characterized and delineated during pre-remediation sampling by collecting and analyzing surface and subsurface soil samples. Based on the results of initial site characterization and pre-remediation sampling, the estimated extent of excavation was modified; subsequently, final excavation plans were prepared for this area by TGPL and provided to the NYSDEC.

2.4.3.1 Pre-Remediation Sampling

Pre-remediation sampling activities included the collection and analysis of 38 samples (excluding duplicates) from 31 discrete locations to further delineate the estimated extent of excavation presented in the Work Plan. Of the 38 pre-remediation delineation samples, 13 samples indicated PCB levels above the characterization goal of 12.5 ppm. Based on these results, the horizontal and vertical extent of excavation presented in the Work Plan were modified. At one particular sample location (sample node AR-11-010, 24- to 36-inch interval), the initial 12-inch sample interval result indicated a PCB level of 16 ppm (between the characterization goal [12.5 ppm] and the action level [25 ppm]). Based on this result, an additional 6-inch interval sample from 24 to 30 inches below ground surface was collected from this location (AR-11-010), analyzed, and subsequently compared to the 25 ppm action level (applicable to 6-inch samples). Since the analytical result of this 6-inch sample at AR-11-010 indicated a PCB level of 5.9 ppm (below the 25 ppm action level) the horizontal limit of excavation in this area was verified. Table 2-3 provides a summary of the results of pre-remediation delineation sampling in this area. The results and locations of initial site characterization and pre-remediation sampling are shown on Figure 2-3.

Additional sampling and analysis performed due to the discovery of discolored soil during remediation is discussed below.

2.4.3.2 Remediation

Remediation in the ART Area consisted of excavating soils in the identified areas to the extent determined through site characterization and pre-remediation sampling and analysis. In addition, sidewalks and concrete ART footings served as horizontal limits of excavation and, therefore, were not subject to excavation. In the course of excavating the 4- and 5-foot excavation areas located north and south of the ART foundations, respectively, areas of discolored soil were observed. The NYSDEC was contacted regarding the discolored soil, and that agency requested the collection and analysis of additional samples from these two areas, as discussed below.

Discolored soil was detected on the west excavation sidewall in the 4-foot excavation located northeast of the ART bottles. Subsequently, a 6-inch sidewall sample was collected and analyzed from the discolored soil area indicating a PCB level of 900 ppm at sample node AR-11-041 (Figure 2-3). As a result and following approval by the NYSDEC, the discolored soil was excavated. Following the excavation of approximately 2.5 feet of additional material from the west sidewall and 1-foot of additional depth in a discrete area (i.e., the visible extent of discolored soil), an additional sidewall sample was collected and analyzed. The analytical result of the second 6-inch sidewall sample analyzed indicated levels below the 25 ppm action level (sample node AR-11-042; ND(1.0)¹ ppm PCBs); therefore, the extent of additional sidewall excavation was determined. In total, an additional 2.5 feet of lateral

¹ ND(1.0) = PCBs were not detected above the associated limit shown in parentheses (in ppm)

excavation along the west sidewall and an additional foot of excavation at depth was performed in the area (60-inch excavation) shown on Figure 2-3.

In the 5-foot excavation south of the ART bottles, a total of four consecutive 6-inch samples were collected and analyzed iteratively to further characterize the discolored soil area. These samples were collected at the bottom of the excavation (5 feet below original ground surface) near prior sample location (node) AR-11-013. The analytical results from all four samples indicated PCB levels above the action level (ranging from 30 to 1,600 ppm). Additional excavation was performed to an overall depth of 6 feet below ground surface. At this depth, further excavation was discontinued due to safety concerns related to undermining the concrete tank foundation. Because residual PCBs in exceedance of the action level would remain, with NYSDEC's approval, a low-permeability cap (as described below) was constructed in this 6-foot excavation.

The low-permeability cap was installed in the 6-foot excavation south of the ART bottles as shown on Figure 2-3. The low-permeability cap consisted of the following components (from bottom to top): geotextile fabric layer (at the base of the 6-foot excavation); approximately 5.25 feet of general backfill (with an approximate 1-foot radius of gravel around a drip bottle exposed during excavation); 60-mil high density polyethylene (HDPE) geomembrane liner; 4 inches of additional general backfill; and a crushed stone surface cover. Operations and Maintenance (O&M) activities and requirements associated with the low-permeability cap are presented in the O&M Plan provided as Attachment 3.

Based on a review of the final analytical data sheets during preparation of this document, it appears that a sample exceeding the 25 ppm action level at depth was inadvertently omitted from the final ART excavation drawings submitted to the NYSDEC and as a result was not excavated. The omitted sample was located at sample node AR-11-019 (24- to 36-inch depth interval) and indicated a PCB level of 140 ppm. It appears that the final excavation drawing did not include the 24- to 36-inch depth interval result (140 ppm PCBs) and mistakenly reported the 36- to 48-inch depth interval result (sample identification 224-AR-DS11-019-03; ND(1.0) ppm PCBs) as 24 to 30 inches; therefore, incorrectly defining the vertical extent of excavation as 24 inches. As a result, excavation in this area was only performed to an overall depth of 24 inches (see Figure 2-3). Based on this discovery, TGPL contacted the NYSDEC on January 23, 1998 to discuss potential options for addressing this isolated exceedence. Due to TGPL's desire to avoid potential restrictions on pipe maintenance in this area and NYSDEC's request to remove the soil, TGPL has proposed to remove and dispose the soil from the approximate 24- to 36-inch depth interval (as measured from below the gravel surface cover). The approximate horizontal extent was determined based on nearby analytical data and will be established in the field using measurements from physical features (e.g., sidewalks, ART footings, etc.). The approximate extent of additional excavation is shown on Figure 2-3. Following performance of the additional excavation (anticipated spring/summer 1998), a summary letter will be prepared and submitted to the NYSDEC for inclusion as an addendum to this document.

Excavation in the ART Area was performed by both mechanical and manual means. Manual excavation was performed in areas that were considered operationally sensitive (i.e., near buried utilities, piping, tank foundations, etc.). Concrete foundations, retaining walls, and sidewalks were considered horizontal limits of remediation and not subject to excavation. The excavation areas, depths, and approximate extent of low-permeability cap are shown on Figure 2-3.

The overall depth of excavation -- excluding gravel layer (if present) -- in the ART Area ranged from 12 to 72 inches below the original ground surface. The total in-place volume of soil and gravel excavated from this area during 1997 is estimated to be approximately 101.2 cy, all of which was subject to TSCA disposal at the CWM disposal facility in Model City, New York. Following excavation of the specified areas, the excavations were

backfilled and the surface was restored with a gravel cover, or backfilled, fertilized, seeded, and mulched, as appropriate, to restore the vegetative cover.

TABLE 2-3

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK

AIR RECEIVER TANK - SAMPLING AND ANALYSIS RESULTS

Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-AR-DS11-002-01	AR-11-002	0 to 12	06/04/97	26	
224-AR-DS11-002-02	AR-11-002	12 to 24	06/04/97	1.1	
224-AR-DS11-004-01	AR-11-004	12 to 24	06/04/97	2.8	
224-AR-DS11-006-01	AR-11-006	0 to 12	06/04/97	ND(2.3)	
224-AR-DS11-040-01FD	AR-11-006	0 to 12	06/04/97	1.1	FIELD DUPLICATE
224-AR-DS11-007-01	AR-11-007	0 to 12	06/04/97	24 J	
224-AR-DS11-007-02	AR-11-007	0 to 6	07/30/97	130	
224-AR-DS11-008-01	AR-11-008	12 to 24	06/04/97	ND(2.2)	
224-AR-DS11-009-01	AR-11-009	12 to 24	06/04/97	ND(2.2)	
224-AR-DS11-010-01	AR-11-010	24 to 36	06/09/97	16	
224-AR-DS11-010-02	AR-11-010	24 to 30	07/30/97	5.9	
224-AR-DS11-011-01	AR-11-011	12 to 24	06/09/97	2.2	
224-AR-DS11-012-01	AR-11-012	24 to 36	06/09/97	8.4	
224-AR-DS11-013-01	AR-11-013	48 to 60	06/09/97	1,400	
224-AR-DS11-013-02	AR-11-013	60 to 72	06/09/97	46 J	
224-AR-DS11-013-04	AR-11-013	60 to 66	08/05/97	600	
224-AR-DS11-013-05	AR-11-013	66 to 72	08/05/97	30	
224-AR-DS11-013-06	AR-11-013	72 to 78	08/07/97	1,600	
224-AR-DS11-013-07	AR-11-013	78 to 84	08/07/97	1,600	
224-AR-DS11-013-FD	AR-11-013	78 to 84	08/07/97	1,400	FIELD DUPLICATE
224-AR-DS11-014-01	AR-11-014	24 to 36	06/09/97	140	
224-AR-DS11-015-01	AR-11-015	24 to 36	06/09/97	ND(1.2)	
224-AR-DS11-042-01FD	AR-11-015	24 to 36	06/09/97	1.2	FIELD DUPLICATE
224-AR-DS11-016-01	AR-11-016	12 to 24	06/04/97	ND(1.1)	
224-AR-DS11-019-01	AR-11-019	12 to 24	06/04/97	29	
224-AR-DS11-019-02	AR-11-019	24 to 36	07/21/97	140	
224-AR-DS11-019-03	AR-11-019	36 to 48	07/21/97	ND(1.0)	
224-AR-DS11-020-01	AR-11-020	12 to 24	06/04/97	74	
224-AR-DS11-021-01	AR-11-021	12 to 24	06/04/97	ND(2.3)	
224-AR-DS11-022-01	AR-11-022	12 to 24	06/04/97	ND(2.1)	
224-AR-DS11-023-01	AR-11-023	24 to 36	06/09/97	280	
224-AR-DS11-024-01	AR-11-024	24 to 36	06/09/97	ND(1.1)	
224-AR-DS11-025-01	AR-11-025	24 to 36	06/09/97	ND(1.0)	
224-AR-DS11-028-01	AR-11-028	24 to 36	06/09/97	98	
224-AR-DS11-029-01	AR-11-029	24 to 36	06/09/97	ND(1.0)	
224-AR-DS11-030-01	AR-11-030	24 to 36	06/09/97	440	
224-AR-DS11-031-01	AR-11-031	24 to 36	06/09/97	ND(1.1)	
224-AR-DS11-032-01	AR-11-032	48 to 60	06/09/97	3.0	
224-AR-DS11-032-04	AR-11-032	48 to 54	07/30/97	ND(1.0)	
224-AR-DS11-035-01	AR-11-035	0 to 12	06/04/97	4.1	
224-AR-DS11-036-01	AR-11-036	0 to 12	06/04/97	ND(2.3)	

TABLE 2-3

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK

AIR RECEIVER TANK - SAMPLING AND ANALYSIS RESULTS

Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-AR-DS11-037-01	AR-11-037	0 to 12	06/04/97	ND(2.0)	
224-AR-DS11-038-01	AR-11-038	0 to 12	06/04/97	ND(2.2)	
224-AR-DS11-039-01	AR-11-039	12 to 24	06/09/97	ND(1.1)	
224-AR-DS11-040-01	AR-11-040	0 to 6	07/30/97	ND(1.0)	
224-AR-DS11-041-01	AR-11-041	36 to 42	08/07/97	900	
224-AR-DS11-042-01	AR-11-042	36 to 42	08/12/97	ND(1.0)	

Notes:

J = The associated value is an estimated quantity.

Field Duplicate = QA/QC sample indicating the precision and accuracy of the analytical method relative to the sample matrix.

ppm = parts per million = milligrams per kilogram (mg/kg).

ND (1.0) = PCBs Not Detected (method detection limit is shown in parentheses).

1. Data validation was performed by Tennessee Gas Pipeline Company (TGPL) in accordance with the NYSDEC-approved QAPP (BBL, May 1995 and TGPL, February 1996), "USEPA SW-846, Test Methods for the Evaluation of Solid Waste" and USEPA Region II Standard Operating Procedures SW-846 Method 8080A/8000A, SOP HW-23 (April 1995).
2. Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
 - Database ID is utilized by TGPL for their database and internal tracking purposes;
 - Location ID (Node) identifies a specific discrete sample location;
 - Sample depth refers to the distance below the original ground surface or below gravel surface cover (if present);
 - Sample date refers to the date that the sample was collected in the field; and
 - REI Method Results obtained using a modified USEPA SW-846 Method 8081 (i.e., REI-111-01-04 Method by RECRA Environmental, Inc. [RECRA]).
3. The sample results presented in this table represent only samples collected by BBL prior to and during remediation (i.e., no site characterization samples).

SITE CHARACTERIZATION SAMPLES		
SAMPLE NODE	SAMPLE DEPTH (inches)	PCB (ppm)
001AT	0-6	34.0
	6-12	1.4
	12-24	84.0
002AT	0-6	270.0
	6-12	1800.0
	12-24	3360.0
	24-36	7000.0
	36-48	2700.0
005AT	0-6	610.0
	6-12	33.0
	6-12	16.6*
	12-24	7.6
	24-36	13.2
006AT	0-6	12.0
	6-12	6.6
	12-24	140.0
007AT	0-6	9.6
	6-12	6.6
	12-24	27.3
	12-24	130.0*
	12-24	400.0
008AT	0-6	19.9
	6-12	9.3
	12-24	150.0
	24-36	68.1
	6-12	212.0
009AT	12-24	15.3
	24-36	1.8
	36-48	3.7
	0-6	28.0
	6-12	NON-DETECT
015AT	6-12	2.7*
	0-6	2620.0
	6-12	790.0
	12-24	230.0
	24-36	4.8
016AT	36-48	NON-DETECT
	0-6	5000.0
	6-12	130.0
	12-24	NON-DETECT
	12-24	NON-DETECT
017AT	24-36	NON-DETECT
	36-48	NON-DETECT
	0-6	3.2
	6-12	2.9
	12-24	170.0
019AT	0-6	58.0
	6-12	76.0
	6-12	66.0*
	12-24	NON-DETECT
	24-36	NON-DETECT
020AT	0-6	8400.0
	6-12	9700.0
	12-24	2300.0
	24-36	760.0
	36-48	1940.0
024AT	0-6	6.3
	6-12	66.0
	6-12	66.0

* DUPLICATE SAMPLE

PRE-REMEDIATION VERIFICATION SAMPLES				
SAMPLE NODE	LOCATION		SAMPLE DEPTH (inches)	PCB (ppm)
	"X"	"Y"		
AR-11-002	845993.9771	751035.0619	0-12	26
			12-24	1.1
AR-11-004	845987.0123	751016.0155	12-24	2.8
AR-11-006	845970.9771	751019.5431	0-12	1.1**
AR-11-007	845966.9771	751023.4053	0-6	130
			0-12	24 J
AR-11-008	845991.0578	751030.0619	12-24	NON-DETECT
AR-11-009	845996.9673	751022.6828	12-24	NON-DETECT
AR-11-010	845979.4771	751019.5044	24-30	5.9
			24-36	16
AR-11-011	845970.9771	751023.3089	12-24	2.2
AR-11-012	845974.9771	751023.2125	24-36	8.4
AR-11-013	845979.4771	751023.1041	48-60	1400
			60-72	46 J
			60-66	600
			66-72	30
			72-78	1600
			78-84	1600
AR-11-014	845984.4771	751022.9836	24-36	140
AR-11-015	845990.9771	751022.8270	24-36	1.2**
AR-11-016	845970.4771	751046.0619	12-24	NON-DETECT
AR-11-019	845993.4771	751038.5795	12-24	29
			24-36	140
			36-48	NON-DETECT
AR-11-020	845974.4771	751046.0619	12-24	74
AR-11-021	845988.4771	751053.5619	12-24	NON-DETECT
AR-11-022	845999.4981	751046.0619	12-24	NON-DETECT
AR-11-023	845988.4316	751041.0619	24-36	280
AR-11-024	845979.4771	751046.0619	24-36	NON-DETECT
AR-11-025	845988.4771	751051.0199	24-36	NON-DETECT
AR-11-028	845988.4771	751048.5619	24-36	98
AR-11-029	845991.0664	751046.0619	24-36	NON-DETECT
AR-11-030	845988.4771	751043.5619	24-36	440
AR-11-031	845985.9771	751046.1075	24-36	NON-DETECT
AR-11-032	845988.4771	751046.0619	48-60	3.0
			48-54	NON-DETECT
AR-11-035	845997.9771	751035.0619	0-12	4.1
AR-11-036	846001.9771	751040.0619	0-12	NON-DETECT
AR-11-037	846006.9771	751035.0619	0-12	NON-DETECT
AR-11-038	846001.9771	751030.0619	0-12	NON-DETECT
AR-11-039	846001.9771	751035.0619	12-24	NON-DETECT
AR-11-040	845961.9828	751023.4053	0-6	NON-DETECT
AR-11-041	845985.9771	751042.0619	36-42	900
AR-11-042	845983.4771	751042.0619	36-42	NON-DETECT

**DUPLICATE SAMPLE RESULT (SEE TABLE 2-3 FOR CLARIFICATION)

GENERAL NOTES:

- THIS FIGURE HAS BEEN PREPARED BASED ON A TGPL BASE MAP (TGPL CADD FILE NUMBER FIG2-2V, 3/97).
- SAMPLE NODE ID# AND ANALYTICAL RESULTS ARE NOT SHOWN FOR SITE CHARACTERIZATION SAMPLES WITH PCB LEVELS BELOW THE ACTION LEVEL (25 ppm).
- SIDEWALKS, FOUNDATIONS, AND PAVED AREAS MAY SERVE AS HORIZONTAL LIMITS OF REMEDIATION.
- ALL LOCATIONS, DIMENSIONS, AND SITE FEATURES ARE APPROXIMATE.
- THE EXTENT OF REMEDIATION INDICATED ON THIS FIGURE WAS DEVELOPED BY TGPL BASED ON THE RESULTS OF PRE-REMEDIATION VERIFICATION SAMPLING AND ANALYSIS ACTIVITIES.
- DEPTH OF FINAL EXCAVATION IS MEASURED FROM ORIGINAL GROUND SURFACE OR BELOW GRAVEL SURFACE (IF PRESENT).
- PRE-REMEDIATION VERIFICATION ANALYTICAL DATA SHOWN ON THIS FIGURE WERE COLLECTED PRIOR TO THE IMPLEMENTATION OF THE WORK PLAN (WITH THE EXCEPTION OF SEVERAL SAMPLES IN THE 6- AND 5-FOOT EXCAVATION AREAS). ALL SITE CHARACTERIZATION AND PRE-REMEDIATION SAMPLE RESULTS ARE REPORTED IN PARTS PER MILLION (PPM). PLEASE NOTE THE FOLLOWING REGARDING PRE-REMEDIATION VERIFICATION SAMPLE INFORMATION DISPLAYED ON THIS FIGURE:
 - SAMPLE NODE USED TO IDENTIFY A SPECIFIC DISCRETE SAMPLE LOCATION;
 - SAMPLE LOCATION COORDINATES ("X" AND "Y") GIVEN IN THE STATE PLAN COORDINATE SYSTEM;
 - SAMPLE DEPTH REFERS TO THE DISTANCE BELOW THE ORIGINAL GROUND SURFACE;
 - PRE-REMEDIATION VERIFICATION SAMPLE ANALYTICAL RESULTS OBTAINED BY RECRA USING A MODIFIED USEPA SW846 METHOD 8081 (REI-111-01-04); AND
 - "J"= THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- THE LOW PERMEABILITY CAP CONSISTS OF THE FOLLOWING COMPONENTS (FROM BOTTOM TO TOP): GEOTEXTILE FABRIC LAYER (AT THE BASE OF THE 6-FOOT EXCAVATION); APPROXIMATELY 5.25 FEET OF GENERAL BACKFILL (WITH AN APPROXIMATE 1-FOOT RADIUS OF BANK RUN GRAVEL AROUND DRIP BOTTLE); 60-MIL HDPE GEOMEMBRANE LINER; 4 INCHES OF ADDITIONAL GENERAL BACKFILL; AND A CRUSHED STONE SURFACE COVER.
- APPROXIMATE AREA OF PROPOSED EXCAVATION AT 24"-36" DEPTH INTERVAL (BENEATH GRAVEL SURFACE COVER) TO ADDRESS SAMPLE AR-11-019 (24"-36"). SUBSEQUENTLY, AN ADDENDUM TO THE FINAL DOCUMENTATION REPORT WILL BE PREPARED TO SUMMARIZE THE ADDITIONAL REMEDIATION ACTIVITIES (INCLUDING A REVISED FIGURE).

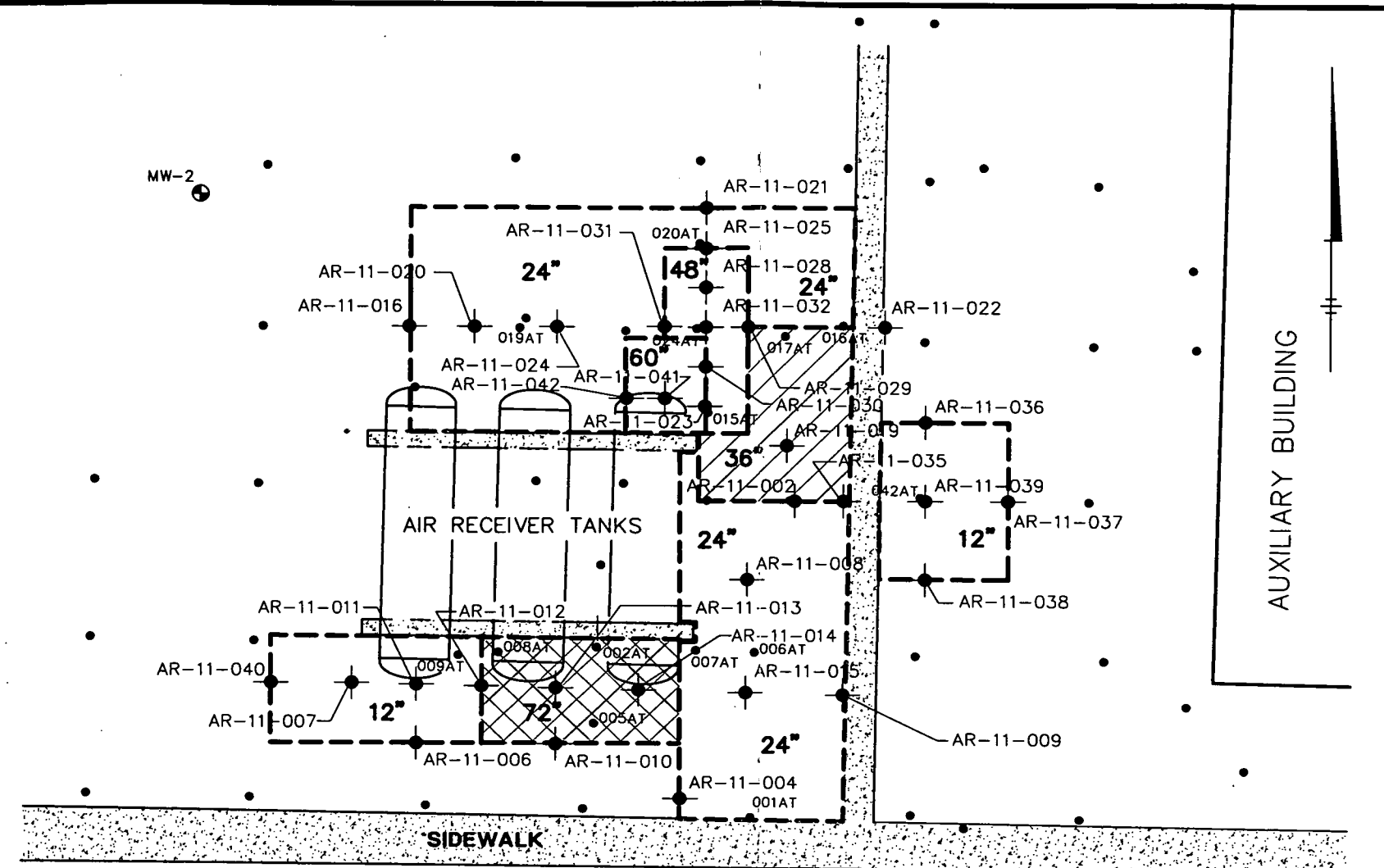
RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.

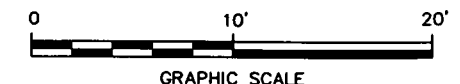
BLASLAND, BOUCK & LEE, INC.

DATE 3/13/98 BY *[Signature]*

FILE NUMBER 5134202F



- LEGEND:**
- MW-2 GROUNDWATER MONITORING WELL
 - 009AT SITE CHARACTERIZATION SAMPLE (RESULTS < 25ppm)
 - AR-11-00 SITE CHARACTERIZATION SAMPLE (RESULTS ≥ 25ppm)
 - AR-11-00 PRE-REMEDIATION VERIFICATION SAMPLE LOCATION AND NODE
 - APPROXIMATE EXTENT OF EXCAVATION (SUBJECT TO TSCA DISPOSAL)
 - APPROXIMATE EXTENT OF LOW-PERMEABILITY CAP (SEE NOTE 8)
 - APPROXIMATE EXTENT OF ADDITIONAL EXCAVATION AND DISPOSAL (SEE NOTE 9)
 - 12" DEPTH OF FINAL EXCAVATION [MEASURED FROM BELOW ORIGINAL GROUND SURFACE OR BOTTOM OF GRAVEL SURFACE COVER (IF PRESENT)]



TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK

AIR RECEIVER TANK
REMEDIATION AREA

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-3



Separator Pond Area

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

2.4.4 Separator Pond Area

The Separator Pond Area is located northeast of the main operational facilities at the station (Figure 1-1). The results of prior characterization sampling in this area indicated the presence of PCBs at detectable levels ranging up to 2,480 ppm. As a result, and in accordance with the Work Plan, the pond area was further characterized and delineated during pre-remediation sampling by collecting surface and subsurface soil/sediment samples. Based on the results of initial site characterization and pre-remediation sampling, the estimated extent of excavation was modified; subsequently, final excavation plans were prepared for this area by TGPL and provided to the NYSDEC.

2.4.4.1 Pre-Remediation Sampling

Pre-remediation sampling activities included the collection and analysis of 69 samples (excluding duplicates) from 54 discrete locations to further define the extent of excavation presented in the Work Plan. As discussed above, the sampling protocols were modified to allow the collection of 12-inch depth interval samples; analytical results from these samples were then compared to the characterization goal of 12.5 ppm PCBs to delineate the limits of remediation. Nearly all samples collected from the top 12 inches (i.e., surface) of soil/sediment were collected using a 12-inch interval approach and compared to the 12.5 ppm PCB characterization goal. However, all subsurface samples (greater than 12 inches below ground surface) were collected in 6-inch depth intervals and the results were subsequently compared to the action level of 25 ppm PCBs to define the extent of remediation. The analytical results of this modified sampling approach are summarized below.

Of the 69 total samples that were analyzed, 24 were collected from a 12-inch sampling interval and 45 were collected from a 6-inch sampling interval. Of the 24 samples collected using the 12-inch depth interval approach, seven samples indicated PCB levels above the characterization goal of 12.5 ppm. Further, of these seven samples exhibiting PCBs in exceedance of the characterization goal, three locations were resampled in either the 0- to 6-inch or 6- to 12-inch intervals due to relatively low PCB levels (i.e., greater than 12.5 ppm and less than 25 ppm) and the results were compared to the 25 ppm PCB action level. Of the 45 samples collected from a 6-inch interval, five samples indicated PCB levels above the 25 ppm PCB action level.

Based on the results of initial site characterization and pre-remediation surface and subsurface sampling, the extent of excavation presented in the Work Plan was revised and excavation plans were prepared. Table 2-4 provides a summary of the pre-remediation sample results for this area. The results and locations of initial site characterization and pre-remediation sampling are shown on Figure 2-4.

2.4.4.2 Remediation

Prior to commencing excavation activities in the pond area, several site preparation activities were performed, including the following:

- Construction of a stabilized access road to facilitate loading of trucks;
- Installation of a temporary stream crossing consisting of a 12-inch culvert and rock near the pond outfall (to allow excavation on the east side of pond);
- Clearing of trees on the east side of pond;

-
- Location and plugging of a section of the 4-inch drainline from the water treatment building (Drainline C) downgradient of Drainage Ditch B. Drainline C was excavated in the vicinity of Drainage Ditch B and an outfall was installed to direct the flow of water into Drainage Ditch B and around the Separator Pond (Figure 1-1);
 - Pumping of water from the Separator Pond into frac tanks for subsequent treatment, and lowering of the Oxidation Pond by 4 to 5 inches via pumping to the diversion ditch (through erosion control materials); and
 - Setup of the remediation zone area and erosion controls.

After the above site preparation activities were performed and the extent of excavation was established and verified, soils and sediments were excavated by mechanical means. The excavation areas outside the pond were excavated and backfilled, followed by the excavation of pond sediments. A portion of the excavated soil material from outside the pond was placed into the pond and mixed with the "wet" sediment to reduce the water content of the "wet" sediment. During the mixing of this material within the pond, additional material was excavated below the vertical extent of excavation delineated following pre-remediation sampling. The excavation depths noted on Figure 2-4 within the limits of the pond should be considered minimum depths because this area was overexcavated to "hardpan surface" (up to approximately 3 feet below original grade) due to sloughing of wet material. The mixed material was subsequently staged for loading at the north end of the pond.

The liquid collected during pond drawdown was containerized in frac tanks on site. As discussed in the Work Plan, the containerized liquid was subsequently treated using a dual carbon column system (preceded by a filter) prior to discharging the treated water to grade in a field north of the Auxiliary Building. Further details regarding on-site liquid treatment and analytical results from sampling the treated water are provided in Section 2.6.

The depth of excavation in the Separator Pond Area ranged from 12 to 24 inches below the original ground surface (with the exception of the pond area below the ordinary high water mark, which was excavated to hard subgrade encountered approximately 3 feet below original grade in the center of the pond). The estimated total in-place volume of soil and sediment excavated from this area is approximately 912 cy, all of which was subject to TSCA disposal at the CWM disposal facility in Model City, New York. Following excavation, areas outside of the pond were backfilled, fertilized, seeded, and mulched to restore the vegetative cover. The pond area was backfilled with approximately 12 inches of general backfill materials, allowed to refill with water, and has been allowed to naturally revegetate. Monitoring activities associated with this natural revegetation of the pond area are discussed in the O&M Plan provided as Attachment 3.

TABLE 2-4

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK

SEPARATOR POND - SAMPLING AND ANALYSIS RESULTS

Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-ST-DS11-104-01	ST-11-104	0 to 12	06/05/97	1.7	
224-ST-DS11-105-01	ST-11-105	0 to 12	06/05/97	ND(1.1)	
224-ST-DS11-112-01	ST-11-112	0 to 12	06/05/97	30	
224-ST-DS11-112-02	ST-11-112	12 to 18	07/21/97	ND(1.0)	
224-ST-DS11-112-03	ST-11-112	18 to 24	07/21/97	1.3	
224-ST-DS11-113-01	ST-11-113	0 to 12	06/05/97	2.4	
224-ST-DS11-114-01	ST-11-114	0 to 12	06/05/97	17	
224-ST-DS11-114-02	ST-11-114	0 to 6	07/30/97	21	
224-ST-DS11-119-01	ST-11-119	0 to 12	06/05/97	ND(2.2)	
224-ST-DS11-120-01	ST-11-120	0 to 12	06/05/97	3.6	
224-ST-DS11-121-01	ST-11-121	0 to 12	06/05/97	2.2	
224-ST-DS11-122-01	ST-11-122	0 to 12	06/05/97	30	FIELD DUPLICATE
224-ST-DS11-165-01-FD	ST-11-122	0 to 12	06/05/97	ND(2.6)	
224-ST-DS11-122-02	ST-11-122	12 to 18	07/21/97	59	
224-ST-DS11-122-03	ST-11-122	18 to 24	07/21/97	10	
224-ST-DS11-123-01	ST-11-123	0 to 12	06/05/97	2.6 J	
224-ST-DS11-124-01	ST-11-124	0 to 12	06/05/97	9.4	
224-ST-DS11-125-01	ST-11-125	0 to 12	06/05/97	ND(2.7)	
224-ST-DS11-126-01	ST-11-126	0 to 12	06/05/97	ND(3.1)	
224-ST-DS11-127-01	ST-11-127	0 to 12	06/05/97	ND(2.2)	
224-ST-DS11-128-01	ST-11-128	0 to 12	06/05/97	ND(2.8)	
224-ST-DS11-129-01	ST-11-129	0 to 12	06/05/97	320	FIELD DUPLICATE
224-ST-DS11-129-02	ST-11-129	12 to 18	07/21/97	8.2	
224-ST-DS11-129-FD	ST-11-129	12 to 18	07/21/97	8.5	
224-ST-DS11-129-03	ST-11-129	18 to 24	07/21/97	1.9	
224-ST-DS11-130-01	ST-11-130	0 to 12	06/05/97	1,000	
224-ST-DS11-130-02	ST-11-130	12 to 18	07/21/97	2.9	
224-ST-DS11-130-03	ST-11-130	18 to 24	07/21/97	2.3	
224-ST-DS11-131-01	ST-11-131	0 to 12	06/05/97	15	
224-ST-DS11-131-02	ST-11-131	6 to 12	07/30/97	53	
224-ST-DS11-132-01	ST-11-132	0 to 12	06/05/97	1.2	
224-ST-DS11-133-01	ST-11-133	0 to 12	06/05/97	ND(2.0)	
224-ST-DS11-134-01	ST-11-134	0 to 12	06/05/97	1.7	
224-ST-DS11-136-01	ST-11-136	12 to 18	06/11/97	ND(2.2)	
224-ST-DS11-138-01	ST-11-138	12 to 18	06/11/97	18	
224-ST-DS11-139-01	ST-11-139	12 to 18	06/11/97	12	
224-ST-DS11-140-01	ST-11-140	12 to 18	06/11/97	ND(2.8)	
224-ST-DS11-141-01	ST-11-141	24 to 30	06/11/97	2.4	

TABLE 2-4.

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK
SEPARATOR POND - SAMPLING AND ANALYSIS RESULTS

Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-ST-DS11-142-01	ST-11-142	12 to 18	06/10/97	15	
224-ST-DS11-143-01	ST-11-143	12 to 18	06/11/97	4.8	
224-ST-DS11-144-01	ST-11-144	12 to 18	06/11/97	ND(2.2)	
224-ST-DS11-145-01	ST-11-145	12 to 18	06/11/97	1.4	
224-ST-DS11-146-01	ST-11-146	12 to 18	06/11/97	ND(2.1)	
224-ST-DS11-147-01	ST-11-147	12 to 18	06/10/97	59	
224-ST-DS11-147-02	ST-11-147	18 to 24	06/10/97	3.2	
224-ST-DS11-147-03	ST-11-147	24 to 30	06/10/97	1.3	
224-ST-DS11-148-01	ST-11-148	12 to 18	06/10/97	ND(1.0 J)	
224-ST-DS11-149-01	ST-11-149	12 to 18	06/10/97	60	
224-ST-DS11-149-02	ST-11-149	18 to 24	06/10/97	ND(1.2)	
224-ST-DS11-149-03	ST-11-149	24 to 30	06/10/97	1.4	
224-ST-DS11-150-01	ST-11-150	12 to 18	06/10/97	1.9	
224-ST-DS11-168-01FD	ST-11-150	12 to 18	06/10/97	2.1	FIELD DUPLICATE
224-ST-DS11-151-01	ST-11-151	12 to 18	06/10/97	ND(1.0)	
224-ST-DS11-152-01	ST-11-152	12 to 18	06/10/97	ND(1.0)	
224-ST-DS11-154-01	ST-11-154	12 to 18	06/10/97	9.8	
224-ST-DS11-155-01	ST-11-155	12 to 18	06/10/97	ND(1.0)	
224-ST-DS11-156-01	ST-11-156	12 to 18	06/10/97	1.1	
224-ST-DS11-157-01	ST-11-157	12 to 18	06/11/97	ND(3.3)	
224-ST-DS11-158-01	ST-11-158	12 to 18	06/11/97	5.8	
224-ST-DS11-159-01	ST-11-159	12 to 18	06/11/97	ND(2.2)	
224-ST-DS11-160-01	ST-11-160	12 to 18	06/11/97	ND(2.1)	
224-ST-DS11-161-01	ST-11-161	24 to 30	06/11/97	2.6	
224-ST-DS11-162-01	ST-11-162	24 to 30	06/11/97	ND(2.1)	
224-ST-DS11-163-01	ST-11-163	12 to 18	06/11/97	ND(2.6)	
224-ST-DS11-164-01	ST-11-164	0 to 12	07/21/97	24	
224-ST-DS11-164-02	ST-11-164	6 to 12	07/30/97	28	
224-ST-DS11-165-01	ST-11-165	0 to 12	07/21/97	1.1 J	
224-ST-DS11-166-01	ST-11-166	0 to 12	07/21/97	ND(1.0)	
224-ST-DS11-170-01	ST-11-170	0 to 6	07/30/97	ND(1.0)	

TABLE 2-4

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK
SEPARATOR POND - SAMPLING AND ANALYSIS RESULTS

Database ID	Location ID (Node)	Sample Depth (in.)	Sample Date	REI Method Results (ppm)	Comments
224-ST-DS11-171-01	ST-11-171	6 to 12	07/30/97	ND(1.0)	
224-ST-DS11-172-01	ST-11-172	6 to 12	07/30/97	6.5	
224-ST-DS11-173-01	ST-11-173	18 to 24	07/30/97	ND(1.0)	
224-ST-DS11-173-FD	ST-11-173	18 to 24	07/30/97	ND(1.0)	FIELD DUPLICATE

Notes:

J = The associated value is an estimated quantity.

Field Duplicate = QA/QC sample indicating the precision and accuracy of the analytical method relative to the sample matrix.

ppm = parts per million = milligrams per kilogram (mg/kg).

ND (1.0) = PCBs Not Detected (method detection limit is shown in parentheses).

1. Data validation was performed by Tennessee Gas Pipeline Company (TGPL) in accordance with the NYSDEC-approved QAPP (BBL, May 1995 and TGPL, February 1996), "USEPA SW-846, Test Methods for the Evaluation of Solid Waste" and USEPA Region II Standard Operating Procedures SW-846 Method 8080A/8000A, SOP HW-23 (April 1995).

2. Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:

- Database ID is utilized by TGPL for their database and internal tracking purposes;
- Location ID (Node) identifies a specific discrete sample location;
- Sample depth refers to the distance below the original ground surface or below gravel surface cover (if present);
- Sample date refers to the date that the sample was collected in the field; and
- REI Method Results obtained using a modified USEPA SW-846 Method 8081 (i.e., REI-111-01-04 Method by RECRA Environmental, Inc. [RECRA]).

3. The sample results presented in this table represent only samples collected by BBL prior to and during remediation (i.e., no site characterization samples).

PRE-REMEDIATION VERIFICATION SAMPLES				
SAMPLE NODE	LOCATION		SAMPLE DEPTH (inches)	PCB (ppm)
	"X"	"Y"		
ST-11-104	846353.1016	751559.4558	0-12	1.7
ST-11-105	846383.1016	751565.4558	0-12	NON-DETECT
ST-11-112	846430.1016	751393.4558	0-12	30
			12-18	NON-DETECT
			18-24	1.3
ST-11-113	846414.1016	751369.4558	0-12	2.4
ST-11-114	846384.1016	751364.4558	0-6	21
			0-12	17
ST-11-119	846321.0604	751484.4476	0-12	NON-DETECT
ST-11-120	846330.1016	751509.4558	0-12	3.6
ST-11-121	846353.1016	751525.4558	0-12	2.2
ST-11-122	846369.1016	751549.4558	0-12	30
			12-18	59
			18-24	10
			0-12	2.6 J
ST-11-123	846394.1016	751544.4558	0-12	9.4
ST-11-124	846417.1954	751524.4558	0-12	NON-DETECT
ST-11-125	846434.1016	751499.4558	0-12	NON-DETECT
ST-11-126	846435.1016	751469.4558	0-12	NON-DETECT
ST-11-127	846413.1016	751449.4558	0-12	NON-DETECT
ST-11-128	846407.0436	751414.2884	0-12	NON-DETECT
ST-11-129	846414.1016	751393.4558	0-12	320
			12-18	8.5**
			18-24	1.9
			0-12	1000
ST-11-130	846392.1016	751377.4558	12-18	2.9
			18-24	2.3
ST-11-131	846370.1016	751386.4558	6-12	53
			0-12	15
ST-11-132	846360.1807	751414.4921	0-12	1.2
ST-11-133	846352.1016	751432.4558	0-12	NON-DETECT
ST-11-134	846337.1016	751458.4558	0-12	1.7
ST-11-136	846330.1016	751479.4558	12-18	NON-DETECT
ST-11-138	846355.1016	751434.4558	12-18	18
ST-11-139	846356.1016	751464.4558	12-18	12
ST-11-140	846355.1888	751494.4266	12-18	NON-DETECT
ST-11-141	846382.1016	751389.4558	24-30	2.4

PRE-REMEDIATION VERIFICATION SAMPLES				
SAMPLE NODE	LOCATION		SAMPLE DEPTH (inches)	PCB (ppm)
	"X"	"Y"		
ST-11-142	846382.1016	751419.4558	12-18	15
ST-11-143	846382.1314	751449.4558	12-18	4.8
ST-11-144	846382.1016	751479.4558	12-18	NON-DETECT
ST-11-145	846382.1016	751509.4558	12-18	1.4
ST-11-146	846382.1016	751539.4558	12-18	NON-DETECT
ST-11-147	846407.0436	751404.4112	12-18	59
			18-24	3.2
			24-30	1.3
ST-11-148	846407.1016	751434.4558	12-18	NON-DETECT J
ST-11-149	846407.1016	751461.4558	12-18	60
			18-24	NON-DETECT
			24-30	1.4
			12-18	2.1**
ST-11-150	846407.1016	751494.4558	12-18	NON-DETECT
ST-11-151	846407.1016	751524.4558	12-18	NON-DETECT
ST-11-152	846434.1016	751479.4558	12-18	NON-DETECT
ST-11-154	846392.1016	751396.4558	12-18	9.8
ST-11-155	846376.1016	751400.4558	12-18	NON-DETECT
ST-11-156	846387.1016	751429.4558	12-18	1.1
ST-11-157	846377.1016	751439.4558	12-18	NON-DETECT
ST-11-158	846365.1016	751429.4558	12-18	5.8
ST-11-159	846358.1016	751482.4558	12-18	NON-DETECT
ST-11-160	846372.1016	751502.4558	12-18	NON-DETECT
ST-11-161	846376.8173	751429.4558	24-30	2.6
ST-11-162	846367.1083	751492.0846	24-30	NON-DETECT
ST-11-163	846357.1016	751524.4558	12-18	NON-DETECT
ST-11-164	846432.1348	751414.8007	6-12	28
			0-12	24
ST-11-165	846442.0098	751394.4980	0-12	1.1 J
ST-11-166	846432.1016	751374.4558	0-12	NON-DETECT
ST-11-170	846382.1016	751354.4558	0-6	NON-DETECT
ST-11-171	846362.1016	751382.6575	6-12	NON-DETECT
ST-11-172	846442.1016	751424.4558	6-12	6.5
ST-11-173	846407.1016	751479.4558	18-24	NON-DETECT

** DUPLICATE SAMPLE RESULT (SEE TABLE 2-4 FOR CLARIFICATION)

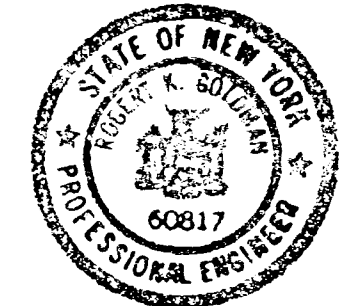
SITE CHARACTERIZATION SAMPLES		
SAMPLE NODE	SAMPLE DEPTH (inches)	PCB (ppm)
004POA	0-6	110.0
	6-12	310.0
	12-24	28.0
011POA	0-6	NON-DETECT *
	6-12	31.0
	12-24	7.4
013POA	0-6	NON-DETECT
	6-12	13.0
	12-24	29.0
014POA	0-6	NON-DETECT
	6-12	30.0
	12-24	29.0 *
015POA	0-6	2400.0
	6-12	360.0
	12-24	NON-DETECT
016POA	0-6	2480.0
	6-12	920.0
	12-24	6.4
	24-48	NON-DETECT
021POA	0-6	190.0
	6-12	34.0
	12-24	350.0 *
022POA	0-6	230.0 *
	6-12	28.0
	12-24	41.0
024POA	0-6	20.0
	6-12	280.0
025POA	0-6	2.0
	6-12	93.0
	12-24	NON-DETECT
SS-1	0-12	84.0 *
SS-2	0-12	119.0
	12-16	13.0
SS-3	0-12	118.0
	12-16	11.0
SS-4	0-12	115.0
	12-16	320.0 *
SS-5	0-12	66.0
	12-16	64.0
	12-16	0.059

* DUPLICATE SAMPLE

- LEGEND
- OR OR SITE CHARACTERIZATION SAMPLE (RESULTS < 25ppm)
 - 011POA OR SS-2 SITE CHARACTERIZATION SAMPLE (RESULTS ≥ 25ppm)
 - ST-11-166 PRE-REMEDIATION VERIFICATION SAMPLE LOCATION AND NODE
 - TREE LINE (PRIOR TO REMEDIATION)
 - EDGE OF WATER/DRAINAGE DITCH
 - APPROXIMATE LIMITS OF POND
 - ELEVATION CONTOUR (PRIOR TO REMEDIATION)
 - APPROXIMATE EXTENT OF EXCAVATION (SUBJECT TO TSCA DISPOSAL)
 - 12" MINIMUM DEPTH OF FINAL EXCAVATION (MEASURED FROM BELOW ORIGINAL GROUND SURFACE) (SEE NOTE 8)
 - DRAINLINE SUBJECT TO GROUTING
 - DRAINLINE OUTFALL

GENERAL NOTES:

- THIS FIGURE HAS BEEN PREPARED BASED ON FIELD SKETCHES (PROVIDED BY TGPL) AND A TGPL BASE MAP (TGPL CADD FILE NUMBER FIG2-4V, 3/97)
- SAMPLE NODE IDS AND ANALYTICAL RESULTS ARE NOT SHOWN FOR SITE CHARACTERIZATION SAMPLES WITH PCB LEVELS BELOW THE ACTION LEVEL (25 ppm).
- SIDEWALKS, FOUNDATIONS, AND PAVED AREAS MAY SERVE AS HORIZONTAL LIMITS OF REMEDIATION.
- ALL LOCATIONS, DIMENSIONS, AND SITE FEATURES ARE APPROXIMATE.
- THE EXTENT OF REMEDIATION INDICATED ON THIS FIGURE WAS DEVELOPED BY TGPL BASED ON THE RESULTS OF PRE-REMEDIATION VERIFICATION SAMPLING AND ANALYSIS ACTIVITIES.
- DEPTH OF FINAL EXCAVATION IS MEASURED FROM ORIGINAL GROUND SURFACE OR BELOW GRAVEL SURFACE (IF PRESENT).
- PRE-REMEDIATION VERIFICATION ANALYTICAL DATA SHOWN ON THIS FIGURE WERE COLLECTED PRIOR TO THE IMPLEMENTATION OF THE WORK PLAN. ALL SITE CHARACTERIZATION AND PRE-REMEDIATION SAMPLE RESULTS ARE REPORTED IN PARTS PER MILLION (ppm). PLEASE NOTE THE FOLLOWING REGARDING PRE-REMEDIATION VERIFICATION SAMPLE INFORMATION DISPLAYED ON THIS FIGURE.
 - SAMPLE NODE USED TO IDENTIFY A SPECIFIC DISCRETE SAMPLE LOCATION;
 - SAMPLE LOCATION COORDINATES ("X" AND "Y") GIVEN IN THE STATE PLAN COORDINATE SYSTEM;
 - SAMPLE DEPTH REFERS TO THE DISTANCE BELOW THE ORIGINAL GROUND SURFACE;
 - PRE-REMEDIATION VERIFICATION SAMPLE ANALYTICAL RESULTS OBTAINED BY RECRA USING A MODIFIED USEPA SW846 METHOD 8081 (REI-111-01-04); AND
 - "J"=THE ASSOCIATED VALUE (OR DETECTION LIMIT FOR NON-DETECT SAMPLE RESULTS) IS AN ESTIMATED QUANTITY.
- OVEREXCAVATION TO HARDPAN SURFACE (UP TO APPROXIMATELY 3 FEET BELOW ORIGINAL GRADE) WITHIN POND LIMITS WAS PERFORMED DUE TO SLOUGHING OF WET MATERIAL.



RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLAISLAND, BOUCK & LEE, INC.
DATE: 3/13/98 BY: [Signature]
FILE NUMBER 5134210E

TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK
SEPARATOR POND
REMEDATION AREA

IBIBIL BLAISLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-4

Tributary of French Creek Areas

BLASLAND, BOUCKS & LEE, INC.
engineers & scientists

2.4.5 Tributary of French Creek Drainage Areas

The tributary of French Creek drainage areas subject to remediation (identified as drainage area "A" and "B") are located downgradient of the Separator Pond along an unnamed tributary to French Creek (Figure 1-1). The results of site characterization sampling in these two discrete areas indicated the presence of PCBs at detectable levels ranging up to 24 ppm, which is below the site action level of 25 ppm PCBs. However, as noted in the March 1997 ROD, NYSDEC requested that erodible areas with residual PCBs in sediment below the 25 ppm action level be addressed by installing erosion control measures. As a result, a limited section, or corridor, of soil/sediment was excavated and disposed. The limits of remediation in Areas "A" and "B" were established based on physical measurements from site features in the field.

Following excavation in these two areas, the section of stream channel subject to remediation was restored with geotextile and rip rap to reduce the erosion potential. The restoration presented in the Work Plan for Areas "A" and "B" was modified with NYSDEC's approval due to conditions encountered in the field. As shown on the cross-section on Figures 2-5 and 2-6, a key anchoring the geotextile along the top of the bank was not required due to the shallow side slopes in these two areas. No additional pre-remediation samples were collected from this area. Therefore, the extent of excavation and restoration in these two discrete areas was identified based on the results of initial site characterization sampling and analysis and discussions with the NYSDEC. Excavation and restoration plans were prepared and included in the Work Plan and Contract Drawings. Remediation activities in drainage areas "A" and "B" are summarized below.

Drainage Area "A"

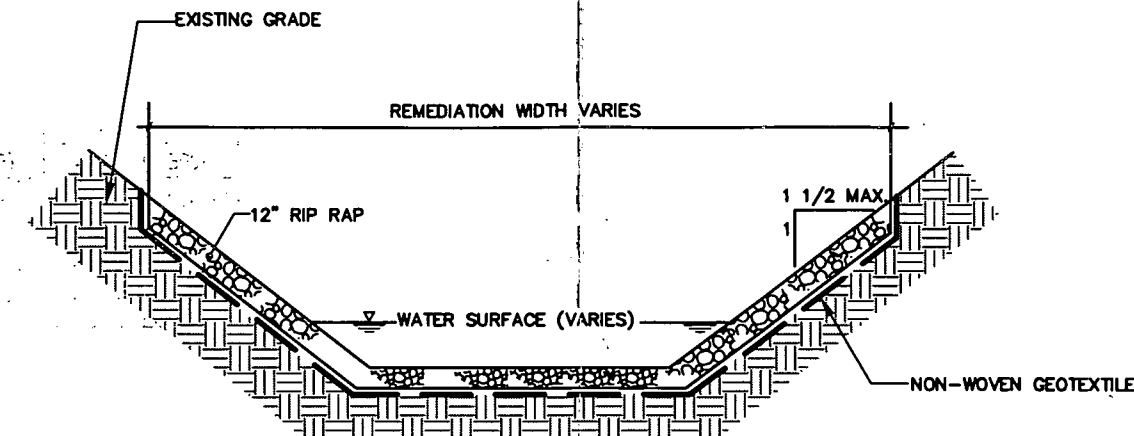
Drainage Area "A" is located approximately 150 feet downgradient of the Separator Pond. Prior to commencing excavation activities in this area, tree clearing was performed and a stabilized access road was constructed to allow access to the remediation area. Following these site preparation activities, a temporary dam was installed to pond a small area of water upstream of the remediation area. Pounded water was then pumped and discharged downstream of the remediation area to allow excavation of stream soils/sediments under "dry" conditions. With the pump-around in place and the extent of remediation established, soils/sediment were excavated by mechanical means to an overall depth of approximately 12 inches (as specified in the Work Plan). The excavation area and depth are shown on Figure 2-5. The total in-place volume of soil and sediment excavated from this area is estimated to be approximately 60 cy, which was subject to TSCA disposal at the CWM disposal facility in Model City, New York. Following excavation, the area was restored with permanent erosion control measures consisting of a non-woven geotextile fabric layer (along the base of the 12-inch excavation) and an approximate 12-inch layer of rip rap (as shown in a typical cross-section presented on Figure 2-5). Inspection activities associated with the permanent erosion control measures are discussed in the O&M Plan (Attachment 3). After restoration was completed, the temporary dam and pump-around were dismantled and flow returned to the restored channel.

Drainage Area "B"

Drainage Area "B" is located approximately 500 feet downstream of Drainage Area "A" at the confluence of a drainage ditch and the unnamed tributary to French Creek (immediately upstream of the culvert). Similar to above, a temporary dam was installed and water was pumped and discharged downstream of the remediation area to allow excavation of stream soils/sediments under "dry" conditions. With the pump-around in place and the extent of remediation established, soils/sediment were excavated by mechanical means to an overall depth of approximately 12 inches (as specified in the Work Plan). The excavation area and depth are shown on Figure 2-6. The total in-place volume of soil and sediment excavated from this area is estimated to be approximately 14 cy, which was subject to TSCA disposal at the CWM disposal facility in Model City, New York. As above, the area was restored

with permanent erosion control measures consisting of a non-woven geotextile fabric layer and rip rap. A typical cross-section of the restored stream channel permanent erosion controls is presented on Figure 2-6. Inspection activities associated with the permanent erosion control measures are provided in the O&M Plan (Attachment 3). After restoration was completed, the temporary dam and pump-around were dismantled and flow returned to the restored channel.

TRIBUTARY OF FRENCH CREEK PCB RESULTS FOR SEDIMENT SAMPLES			
SAMPLE NODE	SAMPLE NUMBER	SAMPLING DEPTH (FT)	TOTAL PCB LEVEL (ppm)
022TRAO	A426EE	0-0.5	17.0
	B246EE	0.5-1	0.7
023TRAO	A427EE	0-0.5	14.0
	B248EE	0.5-1	24.0
	B250EE	0.5-1	6.7*



TRIBUTARY RESTORATION DETAIL

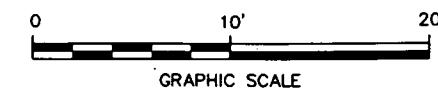
NOT TO SCALE

LEGEND:

- 029TRAO SITE CHARACTERIZATION PCB SAMPLE
- APPROXIMATE EXTENT OF EXCAVATION
(SUBJECT TO TSCA DISPOSAL)
- 12" DEPTH OF FINAL EXCAVATION (MEASURED FROM BELOW
ORIGINAL GROUND SURFACE)
- DRAINAGE DITCH

GENERAL NOTES:

- THIS FIGURE HAS BEEN PREPARED BASED ON DRAWING NO. TB-C224-FIG.3-6 BY TENNESSEE GAS PIPELINE CO.
- ALL LOCATIONS, DIMENSIONS AND SITE FEATURES ARE APPROXIMATE.
- FOR AREAS WHERE REMEDIATION EXTENDS BEYOND THE TOP OF BANKS, THE AREA BEYOND TOP OF BANK WAS RESTORED WITH GENERAL BACKFILL, TOPSOIL, AND VEGETATION.



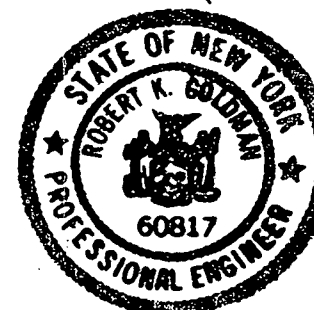
TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK

TRIBUTARY OF FRENCH CREEK
DRAINAGE AREA "A"
REMEDIATION AREA

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-5

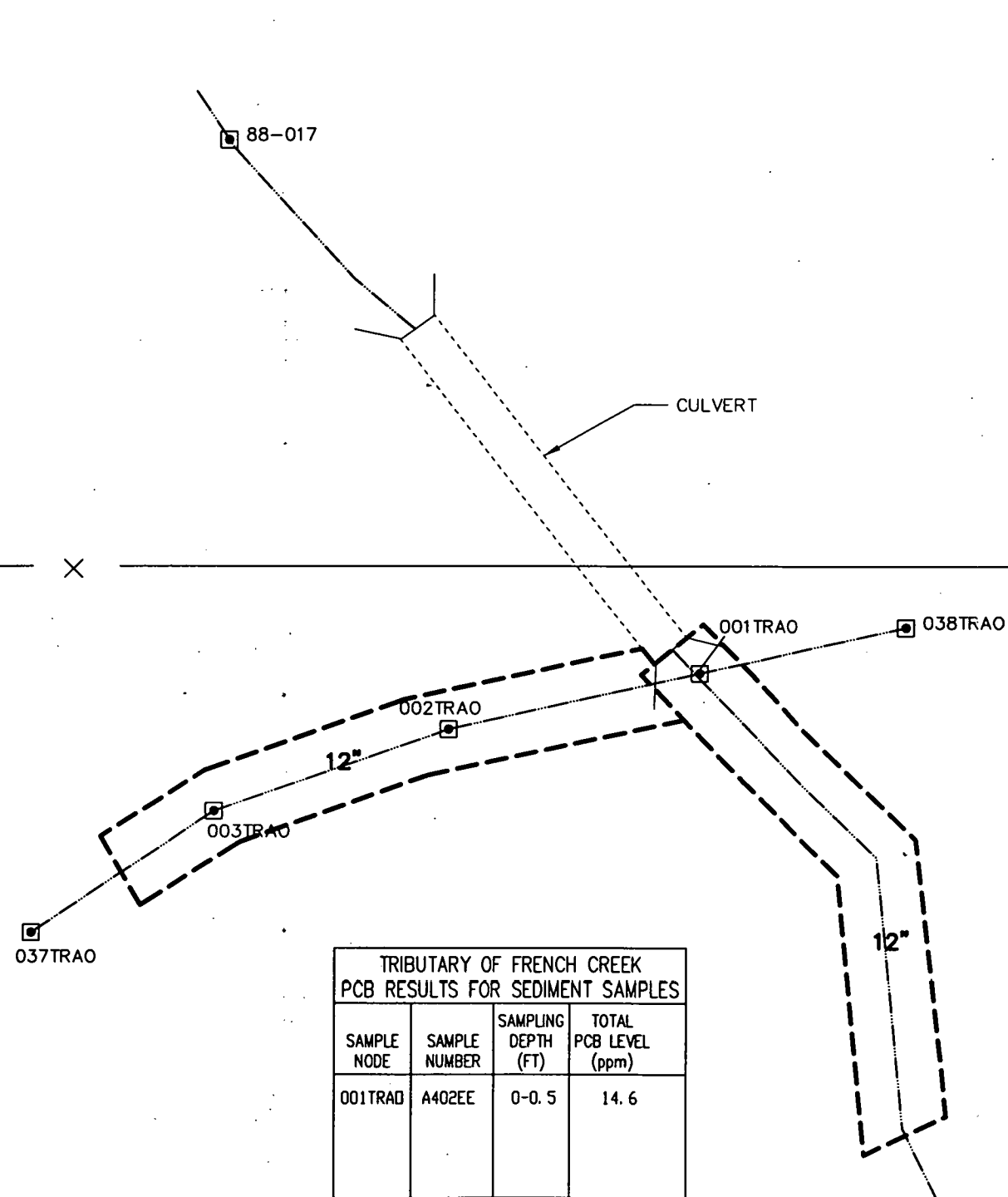
X: (XREF)
L: (LAYER)
P: STD-PCP/BL
1/9/98 SYR-54-JER RLP
51342002/RECORD/51342004.DWG



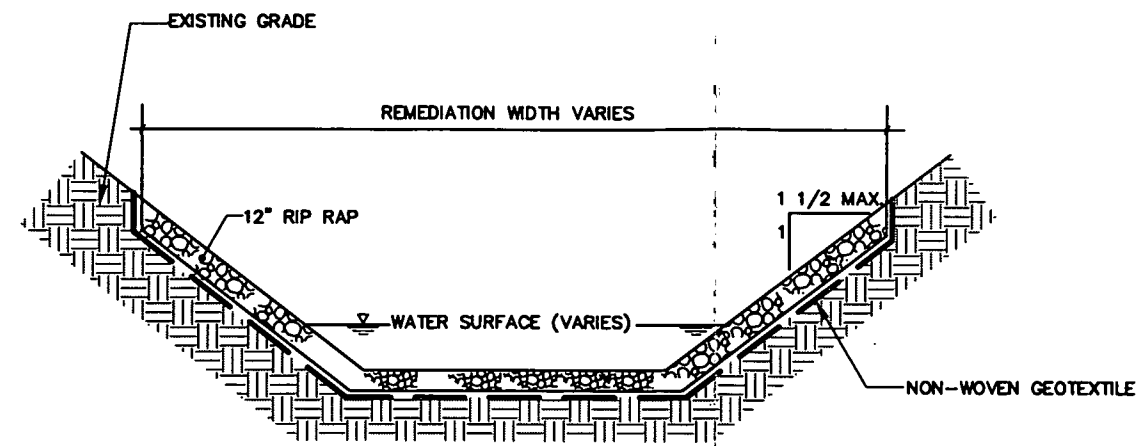
RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

DATE 3/13/98 BY [Signature]

FILE NUMBER 5134204E



TRIBUTARY OF FRENCH CREEK PCB RESULTS FOR SEDIMENT SAMPLES			
SAMPLE NODE	SAMPLE NUMBER	SAMPLING DEPTH (FT)	TOTAL PCB LEVEL (ppm)
001TRA0	A402EE	0-0.5	14.6



TRIBUTARY RESTORATION DETAIL

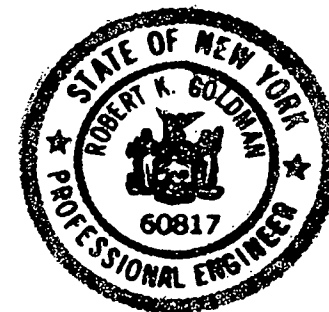
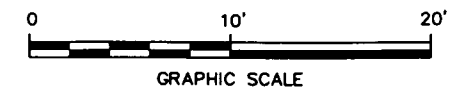
NOT TO SCALE

LEGEND:

- 038TRA0 SITE CHARACTERIZATION PCB SAMPLE
- APPROXIMATE EXTENT OF EXCAVATION (SUBJECT TO TSCA DISPOSAL)
- 12" DEPTH OF FINAL EXCAVATION (MEASURED FROM BELOW ORIGINAL GROUND SURFACE)
- DRAINAGE DITCH
- EXISTING FENCE

GENERAL NOTES:

1. THIS FIGURE HAS BEEN PREPARED BASED ON DRAWING NO. TB-C224-FIG.3-7 BY TENNESSEE GAS PIPELINE CO.
2. ALL LOCATIONS, DIMENSIONS AND SITE FEATURES ARE APPROXIMATE.
3. FOR AREAS WHERE REMEDIATION EXTENDS BEYOND THE TOP OF BANKS, THE AREA BEYOND TOP OF BANK WAS RESTORED WITH GENERAL BACKFILL, TOPSOIL, AND VEGETATION.



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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

DATE 3/13/98 BY [Signature]

FILE NUMBER 5134205E

TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK
**TRIBUTARY OF FRENCH CREEK
DRAINAGE AREA "B"
REMEDIATION AREA**

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists **FIGURE 2-6**

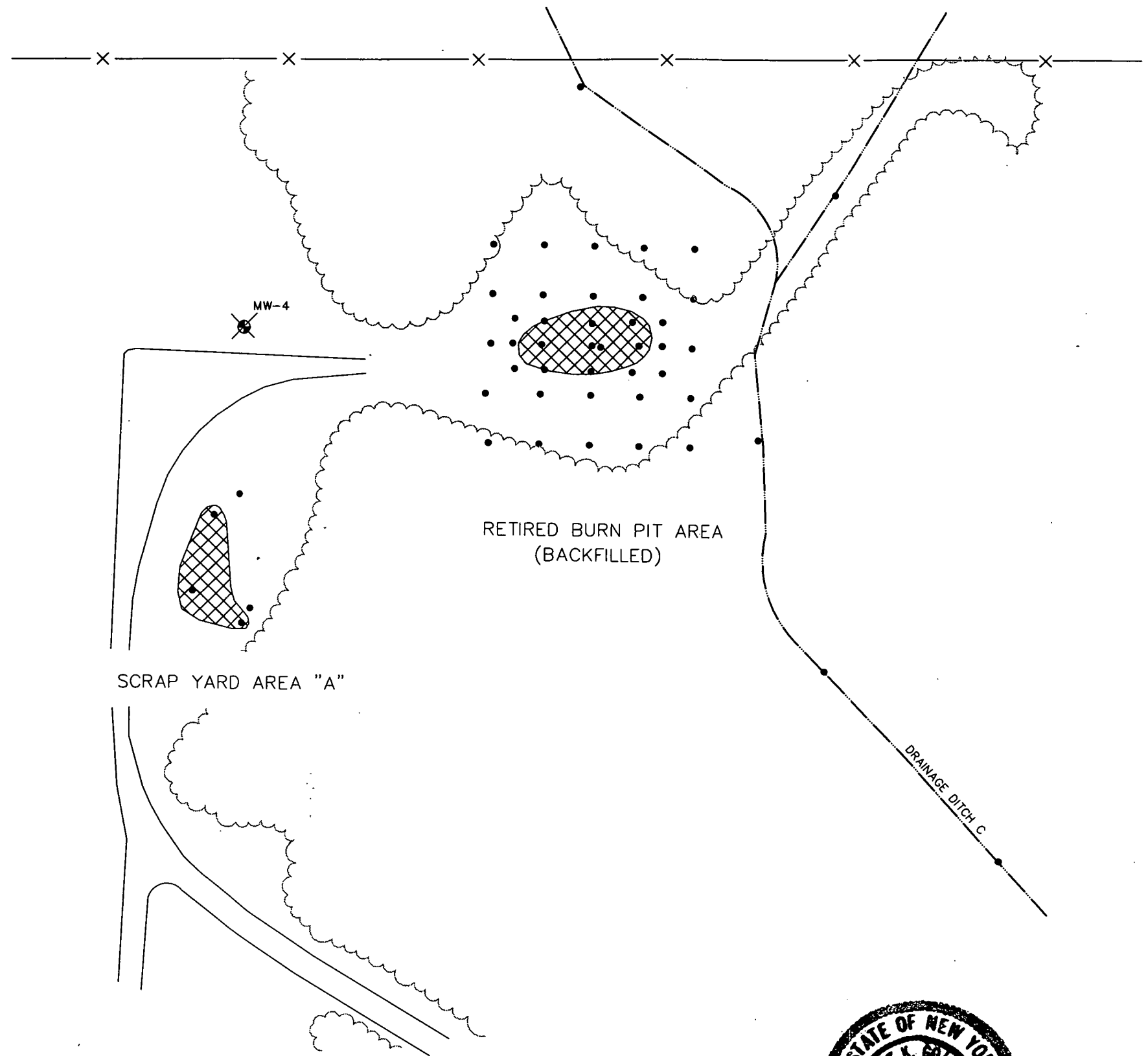
Retired Burn Pit and Scrap Yard Areas

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

**Retired Burn Pit and
Scrap Yard Areas**

2.4.6 Retired Burn Pit and Scrap Yard Areas

The Retired Burn Pit and Scrap Yard areas are located within the perimeter fenceline northwest of the main operational facilities at the station (Figure 1-1). As indicated in the Work Plan, the results of prior site characterization sampling in these areas indicated the presence of PCBs (at levels below the action level) and other constituents at detectable levels. For the Retired Burn Pit Area, slightly elevated levels of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans and, for the Scrap Yard Area, slightly elevated levels of certain SVOCs were identified during prior site characterization sampling. Based on the results of this sampling, final remediation plans showing the two discrete soil cover areas were prepared and included in the Work Plan. The soil cover consists of 6 inches of general backfill and 6 inches of topsoil for an overall thickness of 12 inches. The soil cover areas were established in the field by measuring from physical features such as monitoring well MW-4 and the access road. Following placement of soil cover materials, the area was fertilized, seeded, and mulched to establish a vegetative cover. The total surface area of both soil covers is estimated to be approximately 285 square yards. Figure 2-7 presents the approximate limits of the soil covers in the Retired Burn Pit and Scrap Yard areas.

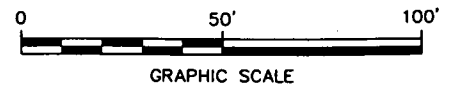


LEGEND:

- SAMPLE LOCATION
- MW-4 ABANDONED GROUNDWATER MONITORING WELL
- [Cross-hatched box] AREA CAPPED WITH 12 INCHES OF SOIL
- DRAINAGE DITCH
- X--- EXISTING PERIMETER FENCE
- ~~~~~ TREELINE

GENERAL NOTES:

1. THIS FIGURE HAS BEEN PREPARED BASED ON DRAWING NO. TB-C224-FIG.3-B BY TENNESSEE GAS PIPELINE CO.
2. ALL LOCATIONS, DIMENSIONS AND SITE FEATURES ARE APPROXIMATE.



RECORD DRAWINGS
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DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.
DATE 2/13/98 BY [Signature]
FILE NUMBER 5134211F

TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY HOUSTON, TEXAS	
COMPRESSOR STATION 224 CHAUTAUQUA COUNTY, NEW YORK	
RETIRED BURN PIT AND SCRAP YARD CAPPED AREAS	
BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists	FIGURE 2-7

X: (XREF)
L: (LAYER)
P: STD-POP/BL
3/10/98 SYR-54-JER YCC
51342002/RECORD/51342G06.DWG

2.5 Air Monitoring Results

As discussed in the Work Plan, community air monitoring included real-time monitoring for dust (particulates) and PCBs during remediation activities. Air monitoring for dust and PCBs was conducted on seven days (July 30, 31; August 1, 2, 4, 5, and 6, 1997) during excavation in the ART Area. As discussed below, only PCB samples from the first four days of air monitoring were analyzed. Dust and PCB air monitoring data sheets compiled by Philip during remediation activities on the days noted above and a letter from Philip summarizing monitoring activities are presented as Attachment 4. The results of air monitoring are summarized below.

Real-time dust monitoring was performed using a Sensidyne Laser Dust Monitor (LD-1H) on the days noted above. The dust monitoring results indicate that the dust action level ($150 \mu\text{g}/\text{m}^3$) was not exceeded. It appears that worker breathing zone dust monitoring was inadvertently discontinued along with community air monitoring on August 6, 1997 (further discussed below). However, because a large portion of subsequent work was conducted in "wet" areas including the Separator Pond and French Creek tributary areas and considerable rainfall occurred during the following time period, subsequent dust monitoring results would likely have maintained the trend exhibited on the first seven days (i.e., dust monitoring results below the $150 \mu\text{g}/\text{m}^3$ action level). Dust monitoring data is presented on dust monitoring forms provided in Attachment 4.

As discussed in the Work Plan, perimeter PCB air monitoring was performed during excavation in the ART Area where PCB levels in soil samples were determined to be highest during the remedial investigation. Air monitoring for PCBs was performing utilizing Gilian Gilibrator (model number P/N #800268) sampling equipment at one upwind and two downwind locations -- relative to the work area perimeter -- according to the procedures identified in the Work Plan. Samples were analyzed by Galson Laboratories (located in East Syracuse, New York) for the first four days of sampling (July 30 and 31; August 1 and 2, 1997) according to National Institute for Occupational Safety and Health (NIOSH) Method 5503, to achieve a detection limit of $1 \mu\text{g}/\text{m}^3$. The analytical results from these first four days of sampling indicated that PCBs were not detected above the $1 \mu\text{g}/\text{m}^3$ detection limit.

Subsequently, these dust monitoring and analytical PCB results were discussed with the NYSDEC to evaluate the need for any further community air monitoring. Following approval by the NYSDEC, further community air monitoring (and, inadvertently, worker-breathing zone monitoring) was discontinued on August 6, 1997. The laboratory analytical summary reports and calibration information are provided with Attachment 4.

2.6 Liquid Treatment

Liquid materials were collected and containerized during Separator Pond drawdown, removal of water accumulated in open excavations, and other miscellaneous remediation activities. As discussed in the approved Work Plan, NYSDEC guidance for the treatment and discharge of treated water was provided in an August 31, 1995 letter from the NYSDEC (G. Harris). The discharge goal for PCBs in the treated water was $0.10 \mu\text{g}/\text{l}$ (with a reporting limit on analytical results of $0.065 \mu\text{g}/\text{l}$). During liquid treatment, water was sampled at several locations along the treatment process and analyzed to achieve the necessary reporting limit. A description of the treatment process and discussion of the analytical results from liquid sampling are presented below.

The liquid subject to treatment was containerized on site in large frac tanks prior to treatment using a dual carbon column system (preceded by a filter). Once treated, the treated water was discharged using a sprinkler system to grade in a field north of the Auxiliary Building. The general location used for discharge of treated water is shown on Figure 1-1. During liquid treatment and discharge, seven water samples were collected by R.K. Hite and analyzed for PCBs by RECRA. All seven of the samples indicated detectable levels of PCB above the $0.065 \mu\text{g}/\text{l}$ reporting limit. Of the seven samples, five samples indicated PCB levels in exceedence of the discharge goal of

0.10 ug/l (with a maximum PCB level of 1.3 J² ug/l). It should be noted that by the time the first analytical results were received, approximately 85,646 gallons (i.e., the total volume of water treated and discharged on site) had been discharged. As a result, TGPL discontinued liquid treatment and discharge, and at the request of the NYSDEC, a surficial soil sample (0- to 6-inch depth interval) was collected from the area where the treated water was discharged and analyzed by RECRA for PCBs according to a modified SW-846 Method 8081 (REI-111-01-04). The analytical results from this sample indicated non-detect PCB levels. Analytical result summary sheets for these samples are provided as Attachment 5. In total, approximately 85,646 gallons of liquid were treated and discharged on site.

Due to the water treatment systems limited effectiveness in achieving the PCB discharge goal (0.10 ug/l), the treatment process was modified to allow for batch treatment and sampling prior to discharge, thereby allowing for re-treatment, if necessary. However, due to a treatment system malfunction, TGPL discontinued on-site water treatment on September 10, 1997 before any liquids were treated utilizing the modified treatment process. Instead, the remaining containerized water was transported to the High Acres facility in Fairport, New York for disposal. In total, approximately 22,641 gallons of material were disposed at this facility. In addition, as discussed in Sections 2.8 and 3, liquid removed from select drainline components prior to drainline remediation was disposed as TSCA (hazardous) material at CWM's Model City facility.

2.7 Backfill and Restoration of Excavated Areas

Following excavation, the remediation areas were backfilled with materials (i.e., topsoil, general backfill, and gravel) obtained from off-site sources. Representative samples of off-site soil backfill materials were subject to laboratory analysis for PCBs, HSL metals (including total cyanide), pesticides, volatile organic compounds (VOCs), and semi-VOCs to demonstrate that these constituents were not present at levels of concern. For comparison, the analytical results received were compared to levels specified in the NYSDEC TAGM 95-4046 (Determination of Soil Cleanup Objectives and Cleanup Levels, 1995 [Proposed]). A summary of the backfill sampling results is provided below.

Upon review of the backfill analytical results from the initial backfill sources (i.e., general backfill, topsoil, and gravel), the general backfill and topsoil sources were rejected due to elevated levels of benzo(a)pyrene. In addition, zinc was noted in the gravel sample at a level slightly (63.2 ppm) above the Eastern United States Background Level Guidance (NYSDEC, 1995) for zinc (9 to 50 ppm). Based on the zinc exceedance in the gravel sample, the gravel backfill supplier was contacted and requested to provide a letter certifying the source of the materials as a native source with "no known sources of contaminants or hazardous materials." Analytical result summary sheets for the initial backfill samples, as well as a copy of the letter certifying the gravel are presented as Attachment 6.

New sources for general backfill and topsoil were identified and samples were collected and analyzed for the constituents identified above. Analytical results from samples collected at the secondary sources indicated the general backfill and topsoil samples exceeded NYSDEC TAGM 95-4046 (Proposed) levels for select HSL metals. Specifically, the general backfill sample indicated elevated levels of arsenic (18.8 ppm) and zinc (81.8 ppm) and topsoil for arsenic (21.6 ppm) in exceedance of the Eastern United States Background Level Guidance (*ibid.*) value/range of 3 to 12 ppm for arsenic and 9 to 50 ppm for zinc. Based on these analytical results, the NYSDEC requested a copy of the topsoil analytical results. As further discussed below, the second topsoil source was rejected by the NYSDEC due to the elevated levels of arsenic. The general backfill supplier was contacted and requested to provide a letter certifying the source of the materials as native. Analytical result summary sheets for

² "J" = The associated value is an estimated quantity.

the secondary general backfill and topsoil samples, as well as a copy of the letter certifying the general backfill materials are presented as Attachment 7.

Due to the identification of elevated levels of arsenic in the second topsoil sample, the NYSDEC requested a copy of the laboratory analytical result report. Following the NYSDEC review of the topsoil results, the second topsoil source was rejected by the NYSDEC. As a result, the approved topsoil source, which was located approximately 70 miles from Station 224, being utilized at the ongoing TGPL Compressor Station 229 remediation project in Eden, New York (south of Buffalo) was used as the topsoil source. The analytical results from a sample collected at this topsoil source indicated elevated levels of zinc (95.5 ppm). This level exceeds the level specified in the Eastern United States Background Level Guidance (*ibid.*) for zinc of 9 to 50 ppm. Similar to the zinc exceedance in the gravel sample discussed above, the topsoil backfill supplier was contacted and requested to provide a letter certifying the source of the materials as a source with "no known presence of hazardous material or contamination." Analytical result summary sheets for this topsoil sample, as well as a copy of the letter certifying the material are presented as Attachment 8.

In general, common backfill was placed and compacted in lifts to within approximately 6 inches of the original grade. In areas that were previously vegetated, the final 6 inches were backfilled with topsoil, fertilized, seeded, and mulched to re-establish a vegetative cover. Within the Separator Pond, approximately 12 inches of general backfill was used to restore the area prior to allowing the pond to naturally refill. In areas where there was a gravel surface cover, such as the ART, Compressor Building, and Auxiliary Building areas, the surface was restored with gravel or stone similar to the type previously used in these areas. Additionally, as discussed in Section 2.4.5, two areas along the tributary to French Creek that were subject to remediation were restored utilizing geotextile and rip rap.

2.8 Summary

Remediation activities were performed in six main areas of the site: the Compressor Building, Auxiliary Building, ART Area, Separator Pond, Tributary of French Creek (both areas "A" and "B"), and the Retired Burn Pit and Scrap Yard areas. Within five of these areas (excluding the Retired Burn Pit and Scrap Yard areas), approximately 1,095 in-place cy of soil/sediment were excavated and disposed off site as TSCA materials at the CWM disposal facility in Model City, New York. A summary of the disposal manifests and associated disposal weights is provided in Table 2-5. Additionally, the Retired Burn Pit and Scrap Yard areas were covered with 12 inches of soil and vegetated; the approximate area subject to soil capping is estimated to be approximately 285 square yards.

In addition, Table 2-6 presents disposal volumes for liquid materials containerized and disposed off site during remediation. Approximately 1,250 gallons (est.) of liquid collected and containerized during drainline remediation activities were disposed as TSCA (hazardous) material at the CWM disposal facility in Model City, New York. As discussed in Section 2.6, approximately 22,641 gallons of liquid material, which was not treated and discharged on site due to treatment system performance, were disposed off site as non-hazardous material at the High Acres facility in Fairport, New York. Also, as noted in Section 2.6, approximately 85,646 gallons of liquid were treated on site using a dual carbon column (preceded by a filter) treatment system and discharged onsite.

It should be noted that disposal weights and volumes presented in the summary tables (Tables 2-5 and 2-6) include not only materials generated as part of soil/sediment remediation, but also soil/sediment and debris removed as part of drainline cleaning, temporary erosion control materials, and other miscellaneous solid and/or liquid waste materials generated in conjunction with remediation activities.

Following the completion of remediation activities, wipe sampling was performed on several pieces of equipment utilized at the site which potentially contacted PCB-containing soil, sediment, and/or liquids. This sampling was performed at the discretion of TGPL's on-site representative (R.K. Hite) and was performed on several pieces of equipment including the long-reach excavator, excavator, 4-inch pump, and two frac tanks. The analytical results from these five wipe samples were less than 10 ug/100 cm² and additional equipment cleaning was not necessary. Analytical results from each of the five samples are provided as Attachment 9.

TABLE 2-5

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK

DISPOSAL SUMMARY - SOLID MATERIALS

Manifest Number	Date of Shipment	Amount of Shipment (kg)	Amount of Shipment (tons)
TSCA Materials			
NYB8510832	07/31/97	13,735	15.1
NYB8353917	08/01/97	19,178	21.1
NYB7658154	08/02/97	19,160	21.1
NYB7658145	08/05/97	16,366	18.0
NYB7658163	08/05/97	17,500	19.3
NYB8510076	08/06/97	15,459	17.0
NYB8510085	08/06/97	15,776	17.4
NYB8510094	08/08/97	14,941	16.4
NYB8510103	08/08/97	15,740	17.3
NYB8510112	08/13/97	9,870	10.9
NYB8510121	08/14/97	26,073	28.7
NYB8510139	08/14/97	16,402	18.0
NYB8510148	08/15/97	16,021	17.6
NYB8510769	08/15/97	19,931	21.9
NYB8510787	08/15/97	20,875	23.0
NYB8510805	08/16/97	22,308	24.5
NYB8512812	08/28/97	16,466	18.1
NYB8512623	08/28/97	12,211	13.4
NYB8512605	08/28/97	10,941	12.0
NYB8512587	08/28/97	11,158	12.3
NYB8512569	08/28/97	12,928	14.2
NYB8512542	08/28/97	27,152	29.9
NYB8512533	08/28/97	21,673	23.8
NYB8512515	08/28/97	18,824	20.7
NYB7655346	08/28/97	17,400	19.1
NYB7655326	08/28/97	19,505	21.5
NYB8512479	08/28/97	19,604	21.6
NYB7655301	08/29/97	23,641	26.0
NYB8513118	08/29/97	20,067	22.1
NYB8513109	08/29/97	20,004	22.0
NYB8513082	08/29/97	18,634	20.5
NYB8513064	08/29/97	18,162	20.0
NYB8513046	08/29/97	25,764	28.3
NYB8513739	08/29/97	19,741	21.7
NYB8513721	08/29/97	22,761	25.0
NYB8513694	08/29/97	20,611	22.7
NYB8513703	08/29/97	18,688	20.6
NYB8513685	08/29/97	21,020	23.1
NYB8513676	08/30/97	20,621	22.7
NYB8513667	08/30/97	22,108	24.3
NYB8513658	08/30/97	18,815	20.7
NYB8513028	08/30/97	13,617	15.0
NYB8512326	08/30/97	18,244	20.1
NYB8512299	08/30/97	22,108	24.3

TABLE 2-5
TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK

DISPOSAL SUMMARY - SOLID MATERIALS

Manifest Number	Date of Shipment	Amount of Shipment (kg)	Amount of Shipment (tons)
NYB8512272	08/30/97	18,507	20.4
NYB8512236	08/30/97	17,717	19.5
NYB8512218	09/02/97	21,174	23.3
NYB8512974	09/02/97	20,430	22.5
NYB8512254	09/02/97	28,803	31.7
NYB8510814	09/02/97	27,116	29.8
NYB8510823	09/02/97	22,834	25.1
NYB8353836	09/02/97	24,812	27.3
NYB8353845	09/03/97	21,038	23.1
NYB8353854	09/03/97	18,988	20.9
NYB8353863	09/03/97	21,628	23.8
NYB8353872	09/03/97	15,640	17.2
NYB8353881	09/03/97	18,470	20.3
NYB8353908	09/03/97	18,552	20.4
NYB8353899	09/03/97	21,083	23.2
NYB8513991	09/03/97	17,282	19.0
NYB8513982	09/03/97	19,369	21.3
NYB8513874	09/03/97	20,303	22.3
NYB8513865	09/03/97	18,334	20.2
NYB8513856	09/03/97	17,645	19.4
NYB8513847	09/03/97	17,055	18.8
NYB8513838	09/04/97	18,235	20.1
NYB8513829	09/04/97	20,494	22.5
NYB8513811	09/04/97	22,535	24.8
NYB8513802	09/04/97	16,103	17.7
NYB8513649	09/04/97	20,140	22.2
NYB8510643	09/04/97	19,314	21.2
NYB8513757	09/04/97	20,194	22.2
NYB7939683	09/04/97	20,521	22.6
NYB7939764	09/04/97	23,387	25.7
NYB7939773	09/04/97	20,112	22.1
NYB7939782	09/04/97	21,464	23.6
NYB7939692	09/04/97	21,891	24.1
NYB7939701	09/04/97	20,666	22.7
NYB7939719	09/04/97	26,817	29.5
NYB7939728	09/17/97	4,818	5.3
Totals:		1,535,274	1,688.8

Notes:

1. Disposal quantities include materials excavated as part of remediation, debris removed as part of drainline cleaning, and other materials generated in conjunction with remediation activities.
2. All solid materials were disposed as Toxic Substance Control Act (TSCA) materials at the CWM Chemical Services, Inc. (CWM) Facility in Model City, New York.

TABLE 2-6

TENNESSEE GAS PIPELINE COMPANY - AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS

FINAL DOCUMENTATION REPORT
COMPRESSOR STATION 224 - CHAUTAUQUA COUNTY, NEW YORK

DISPOSAL SUMMARY - LIQUID MATERIALS

Manifest Number	Date of Shipment	Volume of Shipment (gallons)	Weight of Shipment (tons)
TSCA Materials			
NYB7939746	09/06/97	750 est.	1.5
NYB7939791	09/12/97	500 est.	3.0
Totals:		1,250 est.	4.5
Non-TSCA Materials			
5467	09/12/97	5,441	22.6
5459	09/16/97	4,976	20.7
5458	09/16/97	4,569	19.0
5457	09/16/97	4,099	17.0
5456	09/18/97	3,557	14.8
Totals:		22,641	94.0
Overall Liquid Totals:		23,891	98.4

Notes:

1. Disposal quantities include materials excavated as part of remediation, debris removed as part of drainline cleaning, and other materials generated in conjunction with remediation activities.
2. Liquid materials identified as Toxic Substance Control Act (TSCA) materials were disposed at the CWM Chemical Services, Inc. (CWM) Facility in Model City, New York and non-TSCA materials were disposed at the High Acres Landfill in Fairport, New York.

Section 3

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

3. Drainline Remediation

3.1 General

This section provides a summary of the drainline activities performed at Compressor Station 224. The goal of drainline remediation was to mitigate potential migration of PCBs via drainlines. To this end, remediation activities included removal of accumulated sediment and water from appurtenances, and grouting of appropriate drainline segments and related appurtenances as discussed in the Work Plan. The effectiveness of drainline remediation via filling with grout was determined based on field observations by the TGPL Chief Inspector. Additional details regarding the scope of drainline remediation are provided below.

The Work Plan identifies one drainline system to be addressed during the performance of remediation activities (Drainline B), which is discussed below.

3.2 Drainline B

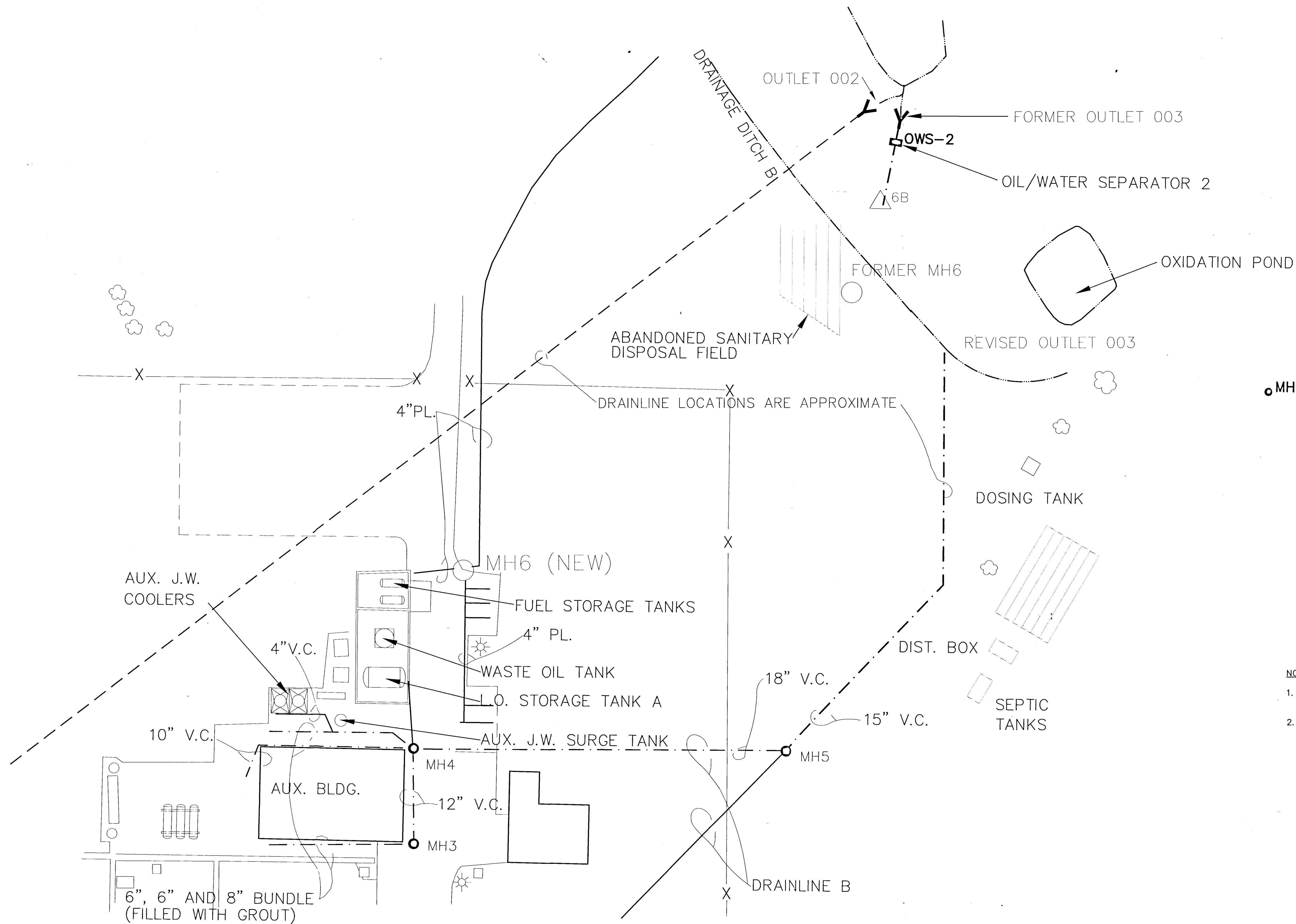
Drainline B consists of the roof, floor, and foundation drains located adjacent to the Compressor and Auxiliary Buildings and the associated piping and appurtenances that convey the water northeast of the main operational facilities at the Station to an outfall near the Separator Pond (Figure 1-1). The section of Drainline B that was subject to drainline remediation via filling with grout is shown on Figure 3-1 and consists of the following: roof, floor, and foundation drains associated with the Auxiliary Building; manholes MH 3, MH 4, and MH 5; an oil/water separator (located near the Separator Pond); and other miscellaneous piping connecting these appurtenances. These drainline segments and appurtenances were identified for remediation due to sampling (summarized in the Work Plan) that indicated PCB levels up to 2,880 ppm (from the oil/water separator).

It should be noted that the segment of drainline extending from manhole MH 5 toward the Separator Pond was severed in 1991 at Drainage Ditch B as shown on Figure 3-1. During that time, liquids and sediment located in the severed section of drainline downgradient of Drainage Ditch B were removed and disposed as TSCA materials. Following the performance of these activities, inflatable plugs were installed at the exposed ends of the drainline.

The Work Plan established a scope of remediation for this drainline system that included in-place abandonment via removal of accumulated water and sediments from the various appurtenances (including manholes) by manual and/or mechanical means (i.e., vacuum truck). Following cleanout of manholes MH 3 through MH 5 and the oil/water separator, non-shrink grout was placed in designated drainlines and appurtenances to abandon the pipes/appurtenances and to prevent potential migration of PCBs. Prior to grouting Drainline B piping/appurtenances, the contractor submitted a substitute cement/bentonite grout material which was forwarded to the NYSDEC (G. Harris) for approval. With NYSDEC's approval, this modified cement/bentonite grout was substituted for expansive hydraulic cement (Type E-1(k)), which was specified in the Contract Documents, due to limited availability of the Type E-1(k) cement. In addition, prior to grouting the drainlines and appurtenances, the section of Drainline B from the Compressor Building (i.e., drainline section between manholes MH 2 and MH 5) was severed just upstream of manhole MH 5. A detailed summary of the drainline remediation activities was provided in a memorandum dated September 18, 1997, presented as Attachment 10.

In total, approximately 1,085 linear feet (based on drawings) of Drainline B drainage piping and select drainline appurtenances were remediated via filling with grout. Approximately 1,250 gallons of liquid material collected during drainline remediation activities were disposed as TSCA (hazardous) materials at the CWM disposal facility in Model City, New York. Sediments removed from the oil/water separator and manholes were disposed as TSCA material with soil from other remediation areas. The O&M Plan provided as Attachment 3 presents the protocols

for potential future excavation of the remediated drainline. A summary of liquid disposal volumes is provided in Table 2-6.



- LEGEND
- DRAINLINE OUTFALL
 - DRAINLINE APPURTENANCE SUBJECT TO GROUTING
 - MH6 MANHOLE
 - V.C. VITRIFIED CLAY
 - PL. PLASTIC
 - EXISTING FENCE
 - EDGE OF WATER/DRAINAGE DITCH
 - DRAINLINES
 - DRAINLINE SUBJECT TO CLOSURE/ABANDONMENT VIA FILLING WITH GROUT

NOTES:

1. THIS FIGURE WAS DERIVED FROM DRAWING TO-C224-FIG. G-2 BY TENNESSEE GAS PIPELINE CO.
2. ALL LOCATIONS, DIMENSIONS, AND SITE FEATURES ARE APPROXIMATE.



TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK

DRAINLINE REMEDIATION

BBBL BLASLAND, BOUCK & LEE, INC.
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FIGURE
3-1



RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.
DATE 3/13/18 BY [Signature]
FILE NUMBER 5134209E

Section 4

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4. Groundwater Monitoring Well Activities

4.1 General

As presented in the Work Plan, one groundwater monitoring well was to be installed and four of the five existing groundwater monitoring wells were to be abandoned in conjunction with soil/sediment and drainline remediation. General information regarding well installation and well abandonment activities is discussed below.

4.2 Well Installation

In accordance with the Work Plan, one groundwater monitoring well (MW-6) was installed during site remediation activities to monitor groundwater for PCBs downgradient of the Separator Pond Area. This monitoring well was completed as a shallow bedrock well and installed at a depth of 22 feet below ground surface (bgs) (with shale encountered at a depth of 9 feet bgs). This well was constructed using 2-inch inside diameter stainless steel screen and riser with the screened interval between 10 and 20 feet bgs. The approximate location of monitoring well MW-6 is identified on Figure 1-1.

The construction materials and installation procedures for groundwater monitoring wells were specified in the Work Plan (including Contract Documents). In general, the procedures for well installation included general site preparation activities, performance of continuous split spoon sampling (for soil classification), installation of the well in general accordance with American Society of Testing and Materials (ASTM) Method D5092-90 (ASTM, 1990), and developing the well. This monitoring well was installed and constructed in conformance with the Work Plan. A monitoring well construction log for MW-6 is provided as Attachment 11.

Additional detail regarding the groundwater monitoring program for the remaining on-site monitoring wells MW-2 and MW-6 is provided in the O&M Plan presented as Attachment 3 to this Final Documentation Report.

4.3 Well Abandonment

In accordance with the Work Plan, four groundwater monitoring wells were abandoned in conjunction with soil/sediment and drainline remediation. These wells (monitoring wells MW-1, MW-3, MW-4, and MW-5) were installed during previous investigations, and ranged in depth from 20 to 25 feet bgs. These wells were constructed of two-inch-diameter stainless steel casing. Monitoring well locations are identified on Figure 1-1.

Well abandonment was performed according to procedures specified in a document entitled *NYSDEC Groundwater Monitoring Well Decommissioning Procedures* (NYSDEC, 1996). This included the removal of existing well guards (if present), followed by pulling the riser and pumping grout simultaneously. The grout mixture consisted of Type I Portland Cement with four percent bentonite.

For each well, monitoring well abandonment reports were prepared and are presented as Attachment 12 to this Report.

Section 5

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5. Quality Assurance/Quality Control

5.1 General

The QA/QC procedures associated with soil/sediment remediation were used to ensure that the analytical data were sufficient to meet the data quality objectives (DQOs) specified in the Quality Assurance Project Plan (QAPP) for TGPL's New York State Compressor Stations (BBL, May 1995 and TGPL, February 1996). The DQOs were established to provide the following: 1) a framework for the control and evaluation of field and laboratory data; and 2) the definitions of acceptable data quality for the various analyses in terms of precision and accuracy. To achieve the designated DQOs, specific procedures for field sampling activities, analytical procedures, data reporting, and data validation were established in the QAPP. The QAPP also outlined procedures to evaluate overall data quality through the analysis of the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters. The remainder of this section presents a summary of the QA/QC-related requirements of the Work Plan. The analytical data review summarized in this section is based on TGPL's data validation summary which is provided as Attachment 13.

5.2 Sample Collection

The Work Plan and the QAPP outlined specific sample collection procedures to ensure that sample results would be representative of the environment from which they were collected.

In compliance with the Work Plan and QAPP, the laboratory analytical samples for this investigation were collected and sent to the laboratory with chain-of-custody (COC) forms. The COC forms provided a record of sample collection and custody from the time of collection until laboratory receipt. Completed prior to the transport of each sample, these forms represent a form of communication between the sampling team and the analytical laboratory, providing important information for the laboratory including project name, sample identification number, sampling date, and required analyses. The original COC forms accompanied the samples shipped to the laboratory, and copies were retained by the sampling team.

Field notebooks were also utilized to record activities performed at the site related to the sampling events and overall remedial activities. This documentation provides a source of information to assist in the reconstruction of field events, and performance of a data review and interpretation.

Sample collection activities were monitored through the collection and analysis of field duplicate and field blank samples. The field duplicate samples consisted of two environmental samples collected from the same location, but were analyzed as two discrete samples. Sample identification for one of the two samples occurred in a manner consistent with the sample numbering system presented in the QAPP. However, the second sample (the "duplicate" sample) was given a non-descriptive sample identification. Analysis of each sample by the laboratory, and comparison of the results by personnel not affiliated with the laboratory, provided a "blind" audit of the performance of sample collection and analysis procedures. A total of eight field duplicate samples were collected, representing a collection frequency of 5.6 percent.

Rinse blank samples were collected to ensure that the sample containers and sampling equipment were not impacting the environmental sample. Rinse blank samples were prepared by pouring de-ionized/distilled water over or through the decontaminated sampling device and collecting the water. The rinse blank water was collected and transferred to lab-supplied sample containers using procedures consistent with the handling of the environmental samples. A total of 12 rinse blank samples were collected, representing a frequency of 8.4 percent.

In summary, the data were within specified QA/QC limits and are sufficient for their intended use. Any necessary qualifiers are noted in the tables of this Final Documentation Report.

5.3 Data Usability

Data completeness is defined as the percentage of sample results that have been determined to be usable during the data review process. This usability calculation does not include any quality control samples collected and analyzed to aid in the evaluation of the data quality. For this investigation, 100 percent of the Aroclor PCB data were determined to be usable.

5.4 Precision

Precision measures the reproducibility of the measurements under controlled conditions. In this evaluation, precision is defined as the relative percent difference (RPD) between duplicate sample results. Field duplicates, laboratory duplicates, and matrix spike/matrix spike duplicates were used for this evaluation. For this investigation, none of the data required qualification for deviations related to analytical precision.

5.5 Accuracy

Accuracy measures the bias in the analytical system. In this evaluation, accuracy was determined from the percent recovery of quality control samples that were spiked with a known concentration of the analyte of interest and from the recovery of surrogate compounds. For this investigation, 2.8 percent of the data were qualified for surrogate recovery deviations and 0.3 percent of the data were qualified due to matrix spike recovery deviations.

5.6 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variation at a sampling point, or an environmental condition. Representativeness is a qualitative parameter. This parameter is achieved by following the procedures for sample collection and analysis that were described in the QAPP and by using procedures that are consistent with USEPA- and NYSDEC-approved methodologies. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the condition of samples before analysis. For this analytical program, 0.7 percent of the data (one sample) were qualified for holding time deviations.

5.7 Completeness

This parameter is defined as the percentage of measurements yielding results that met the prescribed DQOs. The PCB data were 100 percent complete.

5.8 Comparability

Comparability is a qualitative parameter that expresses the confidence with which one data set can be compared with another. Sample data should be comparable with measurement data for similar samples and sample conditions. This goal is achieved through the use of standardized techniques for sample collection and analysis presented in the QAPP. Four samples (2.8 percent of the data) were qualified because they contained greater than 50 percent moisture. This deviation resulted from the use of a soil-based extraction method for samples that were more characteristic of a water. Therefore, the analytical results for these samples may not be comparable to the low moisture soil samples.

5.9 Summary

For pre-remediation samples collected, analyzed, and validated by TGPL, the DQOs have been met (with qualification of select samples as summarized in previous sections) and the data quality is acceptable for the intended use.

Section 6

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6. Post-Remediation Activities

6.1 General

Certain post-remediation activities have been or will be implemented at Compressor Station 224 to provide for the long-term maintenance and management of the remediated site. These activities include the establishment of institutional controls, performance of maintenance activities, groundwater monitoring, and long-term management of sampling and analysis data collected as part of site remediation activities. Additional details regarding these post-remediation activities are provided below.

6.2 Engineering and Institutional Controls

Certain engineering and institutional controls were implemented to supplement the soil/sediment and drainline remediation activities that were performed. As discussed in the O&M Plan, restrictions were placed on future maintenance and/or modification activities in the ART Area. As previously stated, a low-permeability cap was installed at depth in the ART Area due to the presence of PCBs (at depth) at levels exceeding the action level of 25 ppm. By way of this Final Documentation Report, including the O&M Plan (Attachment 3), station personnel have been informed of the presence of these PCBs in the ART Area, and the procedures to be implemented during future work activities in this area.

6.3 Maintenance

Details regarding Compressor Station 224 post-remediation maintenance activities are presented in the O&M Plan, provided as Attachment 3 to this Final Documentation Report.

6.4 Monitoring

Details regarding monitoring at Compressor Station 224 are presented in the O&M Plan provided as Attachment 3 to this Final Documentation Report.

6.5 Data Management

TGPL maintains an electronic database of all sampling and analysis data generated as part of site remediation activities. This database includes sample IDs, media designations, locations, depths, analytical parameters, results, and other sample-specific information. TGPL will maintain this information in accordance with the Order of Consent, as documentation of the remediation of the site.

References

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References

American Society of Testing and Materials (ASTM). Method D5092-90. *Design and Installation of Ground Water Monitoring Wells in Aquifers*. 1990.

Blasland, Bouck & Lee, Inc. (BBL). *Remedial Design Work Plan, Compressor Station 224, Clymer, New York, Tennessee Gas Pipeline Company, an El Paso Company, Houston, Texas*. Revised July 1997.

BBL. *Quality Assurance Project Plan Soil/Drainline Remediation New York State Compressor Stations*. [May 1995, revised by Tennessee Gas Pipeline Company (TGPL) February 1996].

New York State Department of Environmental Conservation (NYSDEC). 95-4046 (Proposed). *Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels*. 1995.

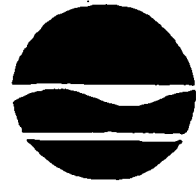
NYSDEC. *Groundwater Monitoring Well Decommissioning Procedures*. October 1996.

Attachments

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Attachment 1
August 13, 1997 Work Plan Approval Letter



John P. Cahill
Commissioner

August 13, 1997

Mr. Edward Schaper
El Paso Energy Corporation
PO Box 2511
Houston, Texas 77252-2511

Dear Mr. Schaper:

RE: Tennessee Gas Pipeline Compressor Station 224, Chautauqua County, Site No. 9-07-014

All comments on the Remedial Design (RD) for the subject site have been adequately addressed and the RD is approved. The approved RD is made up of the following documents:

- ☐ Work Plan, revised July 1997;
- ☐ Letter from Blasland, Bouck and Lee to NYSDEC, dated August 4, 1997;
- ☐ Contract Documents, dated May 1997;
- ☐ Addendum #1 to the Contract Documents, dated July 15, 1997;
- ☐ Contract Drawings, dated May 1997.

Enclosed is the first page of the approved Work Plan, for your reference and insertion into your copy of the RD. If you have any questions, please contact me at 518-457-0315.

Sincerely,

James A. Moras
Project Manager
Bureau of Remedial Action
Division of Environmental Remediation

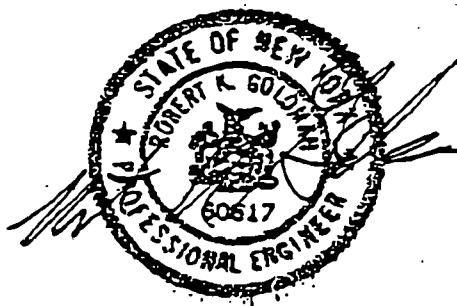
Enclosure

TECHNICAL REPORT

Remedial Design Work Plan

Compressor Station 224
Clymer, New York

Tennessee Gas Pipeline Company
an El Paso Company
Houston, Texas



Revised July 1997

Robert K. Goldman, P.E.
New York State P.E. No. 60817

BBL
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Syracuse, New York, 13214-0066
(315) 446-9120

New York State Department of Environmental Conservation	

☐ Approved	☒ Approved As Noted
☐ Resubmit With Revisions	☐ Disapproved
COMMISSIONER OF ENVIRONMENTAL CONSERVATION	

Designated Representative	
Date	8/13/97

Note: The final, approved Remedial Design is made up of the following documents:

- ☐ Work Plan, revised July 1997;
- ☐ Letter from Blasland, Bouck and Lee to NYSDEC, dated August 4, 1997;
- ☐ Contract Documents, dated May 1997;
- ☐ Addendum #1 to the Contract Documents, dated July 15, 1997;
- ☐ Contract Drawings, dated May 1997;

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Attachment 2

***May 13, 1997 Letter Discussing Modifications to
the Pre-Remediation Verification Sampling Strategy***

May 13, 1997

Mr. James A. Moras
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

Re: Station 224 Pre-remediation Sampling Approach

Dear Jim:

This letter will confirm our discussion today regarding the sampling approach for Station 224. As you know, Tennessee Gas Pipeline (TGPL) has proposed sampling at 12-inch depth intervals based on the depth of remediation expected in the PCB areas of the station. Sampling at 12-inch intervals has been performed at other TGPL sites in New York and TGPL believes it is the most appropriate method for Station 224. Nonetheless, given your concern for the size of the sampling horizon and your preference for a 6-inch sampling interval, we will alter our approach.

TGPL will collect and analyze samples at the 12-inch intervals described in the sampling plan, but we will apply an alternate pre-remediation characterization goal for the purposes of remediation delineation. A characterization goal of 12.5mg/kg will be used to define the limits of excavation. This value is calculated as the worst case PCB level for the 12-inch sampling horizon as compared to the preferred interval of 6 inches (one-half the approved cleanup goal of 25mg/kg to account for twice the preferred interval).

As we discussed, the characterization goal of 12.5 mg/kg will be used as a general goal for samples collected at 12-inch intervals. TGPL reserves the right to review with the NYSDEC any characterization data on an area-specific basis that may be exceptions to the general goal, i.e., where higher levels may be appropriate.

Please also be advised that the QAPP which is applicable to all 1997 work is the Feb. 1996 - Revision #1.

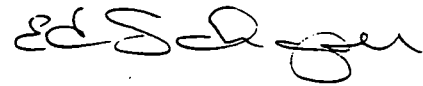
Mr. Moras

-2-

May 13, 1997

Thank you for your consideration of our sampling plans. We appreciate your timely comments and your cooperation on the remediation phase of the project. Please call me if you have any question on the approach.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'Ed Schaper'.

Ed Schaper, CHMM, REP

cc:

J. Greenwalt
N. Cordoba
M. Gravelding
K. Najjar
T. Webster, Harris, Beach & Wilcox
C. Amento
File

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Attachment 3
Operations and Maintenance Plan

ATTACHMENT 3

Operations and Maintenance Plan

Compressor Station 224 (Site No. 9-07-014)
Soil, Sediment, and Drainline Remediation
Clymer, Chautauqua County, New York

Tennessee Gas Pipeline Company (an El Paso Energy Company)
Houston, Texas

March 1998

ATTACHMENT 3 - Operations and Maintenance Plan

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Section 1 - Introduction

Between July and October 1997, Tennessee Gas Pipeline Company (TGPL) conducted remediation activities at Compressor Station 224 located near the town of Clymer, Chautauqua County, New York. In addition, TGPL anticipates performing additional remediation activities in spring/summer 1998 to address an isolated exceedence of the polychlorinated biphenyl (PCBs) action level in the Air Receiver Tank (ART) Area. These remediation activities addressed site-wide soil, sediment, and drainline remediation issues (primarily related to PCBs) and satisfied the requirements of the Order on Consent (#A9-0359-9706, dated August 1, 1997) between TGPL and the New York State Department of Environmental Conservation (NYSDEC). Remediation activities performed at the site during this time were summarized in the *Final Documentation Report* and are also briefly summarized in Section 2 of this Operations and Maintenance (O&M) Plan. As part of post-remediation activities, several components of the remedy require certain operation, maintenance, and/or monitoring activities and are addressed by this O&M Plan. In addition to the various O&M activities that are discussed in the following sections, deed restrictions will be placed on the property.

Section 2 of this O&M Plan provides a summary of remediation activities performed at the site (with an emphasis on areas that require post-remediation O&M activities). Subsequent sections of this document discuss the required post-remediation O&M activities. In addition, a checklist for documenting the performance of these O&M activities is presented as Attachment A to this O&M Plan. The information contained herein supplements existing protocols, procedures, and documentation that are currently utilized by station personnel, including station mapping, maintenance procedures, health and safety requirements, etc. However, given the general nature of this plan, the TGPL Northern Division Environmental Coordinator will be consulted as needed when implementing this plan. In addition, reference should be made to the *Final Documentation Report* for additional detail regarding the extent of remediation activities conducted in each remediation area.

This plan additionally requires documentation of O&M activities. Copies of such documentation will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC. The NYSDEC contacts are:

Mr. Martin Doster
Regional Hazardous Waste Engineer
NYSDEC Region 9
270 Michigan Avenue
Buffalo, New York 14203

Mr. Gerald Rider, Jr., P.E.
Chief, Operations & Maintenance Section
Division of Environmental Remediation
50 Wolf Road, Room 260
Albany, NY 12233-7010

Ms. Christina Dowd
Division of Fish & Wildlife
50 Wolf Road, Room 576
Albany, New York 12233-4756

The specific protocols and areas addressed by this plan include:

- protocols for future excavation of the remediated drainline (Drainline B) or drainline components addressed by the remediation program (Section 3);
- protocols for future excavation in the ART Area (Section 4);

- protocols for future excavation, inspection, and maintenance activities in the Retired Burn Pit and Scrap Yard capped areas (Section 5);
- protocols for inspection of the Separator Pond Area for natural revegetation (Section 6);
- protocols for inspection of the permanent erosion control measures along the on-site portion of the tributary of French Creek downgradient of the Separator Pond, and collection of sediment samples from the tributary of French Creek with analysis for PCBs (Section 7); and
- protocols for sampling and analysis of groundwater monitoring wells MW-2 and MW-6 for PCBs (Section 8).

The remediation activities performed in these areas are discussed in Section 2; implementation of the O&M activities are addressed in subsequent sections, as noted above. In addition, Section 9 summarizes the reporting requirements associated with the O&M activities.

Section 2 - Summary of Remediation Activities

Five primary remediation components were performed at this station between July and October 1997, which include: 1) the excavation and off-site disposal of certain PCB-containing soils and sediments; 2) the closure of various drainlines and related appurtenances; 3) abandonment of several groundwater monitoring wells; 4) installation of one groundwater monitoring well; and 5) installation of two discrete soil caps. In addition, TGPL anticipates performing additional remediation activities in spring/summer 1998 to address an isolated PCB action level exceedence in the ART Area. However, because PCBs currently exist in an area east of the ARTs above the site action level, proper procedures should be followed until the additional remediation is performed (anticipated spring/summer 1998).

Soil/sediment remediation was performed in the following seven areas of the site:

- Compressor Building Area;
- Auxiliary Building Area;
- ART Area;
- Separator Pond Area;
- Tributary of French Creek (on-site) (Areas "A" and "B");
- Retired Burn Pit Area; and
- Scrap Yard Area.

Soil/sediment remediation primarily involved the excavation and off-site disposal of PCB-containing soils and sediments above the specified action level of 25 parts per million (ppm). However, in two areas (Retired Burn Pit and Scrap Yard areas) the remedy selected included isolation of soil with slightly elevated levels of other constituents via the installation of a 12-inch soil cover (further discussed below). In addition, Areas "A" and "B" along the tributary of French Creek were subject to remediation due to concerns regarding potential erosion of PCB-containing soils/sediments, which during prior sampling were determined to be below the 25 ppm action level. For the remaining four soil/sediment remediation areas at the site, the remedy involved the excavation and off-site disposal of soils/sediments exceeding the PCB action level. The estimated volume of PCB-containing soils/sediments removed from the site is estimated to be approximately 1,095 in-place cubic yards (cy). This material was disposed at the CWM Chemical Services, Inc. (CWM) landfill in Model City, New York as Toxic Substance Control Act- (TSCA-) Regulated materials.

Due to subsurface limitations adjacent to a concrete tank foundation in the ART Area, a subgrade low-permeability cap was installed in a portion of the excavation where residual PCBs above the action level remain (further discussed below). Excavation areas were subsequently backfilled, regraded, and restored similar to original conditions. In addition to the soil/sediment remediation activities performed at the site, a portion of one on-site drainline system (Drainline B) was abandoned via the installation of grout. Additionally, remediation activities included the installation of one monitoring well (MW-6) and the abandonment of four of the five existing monitoring wells (MW-1, MW-3, MW-4, and MW-5), leaving two on-site monitoring wells (MW-2 and MW-6) to be monitored as part of post-remediation activities.

Additional information regarding the remediation activities performed in the areas subject to O&M activities is presented below.

Drainline B

Drainline B was addressed as part of remediation activities conducted between July and October 1997. Details regarding the remediation of Drainline B are provided in Section 3 of the *Final Documentation Report* and a brief summary is provided below.

Components of Drainline B consist of the Compressor and Auxiliary Building roof, floor, and foundation drains, drainage piping, an oil/water separator, drainline cleanouts, and manholes MH 3 through MH 5. A single branch of Drainline B continues north from manhole MH 5 to a drainage ditch near the Oxidation Pond (Figure 1). A separate segment of Drainline B containing the oil/water separator, which was previously connected to the main section of Drainline B, is located near the Separator Pond approximately 70 feet north of the current Drainline B outfall. Drainline B remediation activities involved the in-place abandonment of portions of this drainline via filling with non-shrink grout. Sediments and liquids were removed from the manholes and oil/water separator before filling these structures with grout to prevent the potential for migration of PCBs. In total, approximately 1,085 linear feet of drainage piping (generally associated with the Auxiliary Building), manholes MH 3, MH 4, and MH 5, and an oil/water separator were closed via filling with grout. Figure 1 identifies the approximate location of the drainline and appurtenances that were subject to remediation via filling with grout. Protocols for work adjacent to this drainline are discussed in Section 3.

ART Area

The ART Area is centrally located on station property immediately west of the Auxiliary Building (Figure 1). This area was subject to remediation based on the presence of PCBs (greater than 25 ppm) in surface and subsurface soils. Remediation consisted of the delineation and excavation of soils containing PCBs above the action level. Further, a portion of the ART excavation required the installation of a low-permeability cap, which is described below. The total in-place volume of soil and gravel excavated from this area is estimated to be approximately 101.2 cy, all of which was subject to TSCA disposal at the CWM disposal facility in Model City, New York. Additional details regarding the remediation of this area are provided in Section 2.4.3 of the *Final Documentation Report*.

Due to concerns regarding the stability of the excavation adjacent to a concrete tank foundation, it was not possible to excavate additional material in a portion of the ART excavation area south of the ARTs. This area required the installation of a low-permeability cap, as shown on Figure 1. The low-permeability capping system consists of the following components (from bottom to top): geotextile fabric layer (at the base of the 6-foot excavation); approximately 5.25 feet of general backfill (with an approximate 1-foot radius of gravel around a drip bottle exposed during excavation); 60-mil high density polyethylene (HDPE) geomembrane liner; 4 inches of additional general backfill; and a crushed stone surface cover.

In addition, as noted in Section 2.4.3 of the *Final Documentation Report*, an additional remediation area was identified east of the ARTs (adjacent to sample location AR-11-019). TGPL anticipates performing additional excavation in this area during spring/summer 1998. As a result, proper procedures should be followed in this area until remediation is complete.

The protocols for future excavation in the vicinity of the low-permeability cap are presented in Section 4.

Retired Burn Pit and Scrap Yard Areas

The Retired Burn Pit and Scrap Yard areas are located north of the main operational facilities at the Station (Figure 1). Two discrete areas within the Retired Burn Pit and Scrap Yard area were subject to remediation

based on the presence of slightly elevated levels of other (non-PCB) constituents including polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (Retired Burn Pit) and certain semi-volatile organic compounds (SVOCs) (Scrap Yard Area). Remediation consisted of the delineation and capping of soils with a 12-inch vegetated soil cover in these two areas. Additional details regarding the remediation of this area are provided in Section 2.4.6 of the *Final Documentation Report*. The protocols for future excavation, inspection, and maintenance activities in the vicinity of the capped areas are presented in Section 5.

Separator Pond Area

The Separator Pond Area is located northeast of the main operational facilities at the station (Figure 1). The results of prior characterization and pre-remediation sampling in this area indicated the presence of PCBs at levels above the 25 ppm action level. As a result, and in accordance with the Work Plan, certain pond area soils and sediments were subject to remediation. In total, approximately 912 in-place cy of soil and sediment were excavated from this area, all of which was subject to TSCA disposal at the CWM disposal facility in Model City, New York. Following excavation, areas outside of the pond were backfilled, fertilized, seeded, and mulched to restore the vegetative cover, while the pond area was backfilled with approximately 12-inches of general backfill materials, allowed to refill with water, and allowed to naturally revegetate. Additional details regarding the remediation of this area are provided in Section 2.4.4 of the *Final Documentation Report*.

The protocols for future inspection/monitoring of the Separator Pond Area for natural revegetation are presented in Section 6.

Tributary of French Creek Areas (Areas "A" and "B") - Permanent Erosion Controls

As part of remediation activities along the tributary of French Creek, permanent erosion control measures were installed following excavation and disposal of select soils/sediments in two discrete areas (Areas "A" and "B") downgradient of the Separator Pond (Figure 1). The erosion control measures were installed at the base of the soil/sediment excavation within the stream banks and constructed of non-woven geotextile and approximately 12 inches of rip rap; a cross-section of the permanent erosion control measures is shown on Figures 2-5 and 2-6 of the *Final Documentation Report*. Additional details regarding the soil/sediment excavation and installation of permanent erosion control measures within these two discrete remediation areas are provided in Section 2.4.5 of the *Final Documentation Report*.

The protocols for future inspection and maintenance, if necessary, of the two permanent erosion control measure areas, as well as sediment monitoring requirements downstream of these areas, are presented in Section 7.

Groundwater Monitoring Well Installation and Monitoring

As discussed in Section 4 of the *Final Documentation Report*, one groundwater monitoring well (MW-6) was installed downgradient of the Separator Pond Area and four existing on-site monitoring wells (MW-1 and MW-3 through MW-5) were abandoned (see Figure 1-1 of the *Final Documentation Report*). Monitoring well MW-6 was completed as a shallow bedrock well and installed at a depth of 22 feet below ground surface (bgs). This monitoring well was constructed using 2-inch inside diameter stainless steel screen and riser with the screened interval between 10 and 20 feet bgs. A monitoring well construction log for MW-6 is provided as Attachment 11 of the *Final Documentation Report*. The approximate locations of monitoring wells MW-2 and MW-6 are identified on Figure 1. Monitoring wells MW-2 and MW-6 are the only remaining on-site monitoring wells, which will be monitored as discussed in Section 8.

Section 3 - Drainline B - Work Adjacent to Drainline B

The general guidelines for excavation and disposal of drainline components will include the following procedures.

Prior to performing future excavation activities in the vicinity of Drainline B, Figure 1 (and any other available information) will be reviewed by station personnel to determine if the subject drainline or drainline components may be encountered. In the event that excavation in the immediate vicinity of Drainline B is necessary, the NYSDEC and TGPL Northern Division Environmental Coordinator will be notified prior to excavation (unless there is an emergency). Notification will include the scope, nature, status, and location of the proposed work.

To the extent possible, excavation in the immediate vicinity of Drainline B components will be avoided. However, in the event that excavation is necessary, TGPL personnel will take into account and address any impacts on the remedy. For example, if a section of drainline is removed, the ends of the drainline that remain in place will be inspected to verify that the integrity of the grout remains intact. If necessary, the station personnel will place additional grout (e.g., Sakrete) in the end of the drainline. Additionally, if it becomes necessary to remove a drainline component as part of excavation activities, the drainline component will be removed and will conservatively be disposed off site at a facility permitted in accordance with TSCA and other applicable regulations.

Documentation of the extent of drainline excavation and disposal method will be prepared. Copies of such documentation will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC.

Section 4 - Air Receiver Tank Area - Work Adjacent to Low-Permeability Cap Area

The general guidelines for performing excavation activities in the vicinity of the subsurface low-permeability cap will include the following procedures.

Prior to performing excavation activities in the ART Area, Figure 1 of the O&M Plan, Figure 2-3 of the *Final Documentation Report*, and any other available information will be reviewed by station personnel to determine if the low-permeability cap area south of the ARTs may be encountered. Due to the presence of PCBs above the action level (25 ppm) below the geotextile fabric layer of the cap, future excavation in this area will be performed only after consultation with the NYSDEC and TGPL Northern Division Environmental Coordinator (except in an emergency situation).

To the extent possible, excavation in the immediate vicinity of the low-permeability cap will be avoided. However, in the event that excavation is necessary, TGPL personnel will take into account and address any impacts on the remedy. If excavation is performed in the materials above the geotextile fabric, then the area will be restored to match original conditions (including reinstallation of the HDPE geomembrane liner) to maintain the integrity of the cap. Any soil removed from below the geotextile fabric layer of the low-permeability cap will be disposed off site at a facility permitted in accordance with TSCA and other applicable regulations.

In addition, as noted in Section 2.4.3 of the *Final Documentation Report*, an additional remediation area was identified east of the ARTs (adjacent to sample location AR-11-019). TGPL anticipates performing additional excavation in this area during spring/summer 1998. As a result, proper procedures should be followed in this area until remediation is complete. An addendum to the *Final Documentation Report* will be prepared following performance of the additional remediation activities anticipated in 1998.

Any excavation activities performed in the vicinity of the capped area south of the ARTs, and disposal method for any soils removed will be appropriately documented. Copies of such documentation will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC.

Section 5 - Retired Burn Pit and Scrap Yard Capped Areas

5.1 Work Adjacent to Capped Areas

The general guidelines for performing excavation activities in the vicinity of the two discrete capped areas will include the following procedures.

Due to the presence of low level PCBs and other (non-PCB) constituents below each soil cap, future excavation in this area will be performed only after consultation with the NYSDEC and TGPL Northern Division Environmental Coordinator (except in an emergency situation). To the extent possible, excavation in the immediate vicinity of the capped areas will be avoided. However, in the event that excavation is necessary, TGPL personnel will take into account and address any impacts on the remedy. If excavation in the capped areas is performed, the area will be restored to match original conditions (including the re-establishment of the vegetative cover) to maintain the integrity of the cap. Any soil removed from below the soil capping layer will be disposed off site at a facility permitted to accept such materials.

Any excavation activities performed in the vicinity of the capped area and disposal method for any soils removed from below the soil capping layer will be appropriately documented. Copies of such documentation will be maintained in the station records as an attachment to the *Final Documentation Report* and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC.

5.2 Inspection and Maintenance of Capped Areas

An inspection of the two discrete capped areas will be performed on an annual basis (at a minimum) to confirm the integrity of the soil caps. In addition, maintenance of the capped areas will include seasonal brush cutting to prevent the growth of woody plants, such as trees. Documentation of the performance of the inspection and maintenance activities for the capped areas will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC. In addition, if inspection activities result in the identification of a deficient condition, documentation of any repairs and/or changes will be similarly maintained.

Section 6 - Separator Pond - Monitoring Natural Revegetation

As discussed in Section 2, sediment excavation within the limits of the pond was performed as part of remediation activities. Following excavation, the area was backfilled with 12 inches of general backfill, allowed to refill with water, and allowed to naturally revegetate. The progress of this natural revegetation will be monitored as part of O&M activities for a period of up to two years or until vegetation is re-established. The monitoring/inspection frequency will be quarterly for the first year. Potential modifications may be made to this frequency based on observations during the first year of inspection (with a minimum frequency of annually).

Section 7 - Permanent Erosion Control Areas

7.1 Inspection of Permanent Erosion Control Measures

An inspection of the two permanent erosion control areas along the tributary of French Creek will be performed to confirm the integrity and verify the effectiveness of the geotextile and rip rap stabilization. Documentation of the inspection of the permanent erosion controls will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC. In addition, if inspection activities result in the identification of a deficient condition, documentation of any repairs and/or changes will be similarly maintained.

For permanent erosion controls measures, the monitoring frequency for the first year will be quarterly with potential modification to that frequency for subsequent years based on observations made during the first year of inspection (with a minimum frequency of annually). Unscheduled inspections of the permanent erosion controls will be performed if a storm event occurs which could potentially have impacted this component of the remedy. In addition, if repairs to the permanent erosion control measures become necessary, they will be made immediately if the impacts significantly compromise the function of the restored area (e.g., loss of rip rap, undercutting of the bank) or on an annual basis if the impact does not significantly compromise the function of the restored area (e.g., minimal movement of rip rap).

7.2 Sediment Monitoring and Contingency Measures

Sediment monitoring will be conducted in addition to the specific operational and maintenance activities identified in previous sections. For a period of five years, a sediment sample will be collected and analyzed every other year from a location downgradient of the culvert and permanent erosion control areas (discussed above) as shown on Figure 1. The sediment samples will be collected and analyzed for PCBs following the procedures specified in the *Quality Assurance Project Plan for Soil/Drainline Remediation, New York State Compressor Stations* ("the QAPP"; BBL, May 1995 and TGPL, February 1996). The samples will be analyzed using United States Environmental Protection Agency (USEPA) SW-846 Method 8082 or a modified USEPA SW-846 Method 8081 (i.e., the RECRA Environmental, Inc. REI-111-01-04 Method). Following the fifth year of sampling, the frequency of further sediment sampling will be re-evaluated by TGPL in consultation with the NYSDEC.

For sediment monitoring, the trend in PCB data from sediment sampling and analysis will be determined following a minimum of the first two years of sampling. In the event that the PCB data from the first two years (or subsequent years) shows an increasing trend, TGPL and NYSDEC will discuss the need for further evaluation.

Each sampling event shall be documented including a brief description of activities and sample results. Copies of such documentation will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC.

Section 8 - Groundwater Monitoring and Contingency Measures

Groundwater monitoring will be conducted in addition to the specific operational and maintenance activities identified in the previous sections. For a period of five years, groundwater samples will be collected and analyzed from monitoring wells MW-2 and MW-6 on an annual basis. The groundwater samples will be collected and analyzed for PCBs following the procedures specified in the QAPP (BBL, May 1995 and TGPL, February 1996). In the event the turbidity of the groundwater samples exceeds 50 NTUs, the samples will be subject to both filtered (laboratory-based) and unfiltered analyses. Samples exhibiting turbidity levels less than 50 NTUs will be analyzed unfiltered. The samples will be analyzed using USEPA Method 608 at a reporting limit of 1.0 microgram per liter (ug/L). A groundwater sampling log sheet for recording field parameters during groundwater sampling has been provided as an appendix. Following the fifth year of sampling, the frequency of further groundwater sampling will be re-evaluated by TGPL in consultation with the NYSDEC.

Based on the results of groundwater sampling and analysis, potential contingency measures may be initiated in the event future groundwater monitoring indicates the detection of PCBs in monitoring wells MW-2 or MW-6. If PCBs are found in a groundwater monitoring well, the well will be immediately resampled and analyzed both filtered and unfiltered. The results will subsequently be discussed with the NYSDEC to determine the need for any additional sampling and/or further evaluation.

Each sampling event shall be documented in a letter report including a brief description of activities and sample results. In addition, boring logs and historical analytical data for the monitoring wells included in the monitoring program will be provided with documentation reporting. Copies of such documentation will be maintained in the station records as an attachment to the *Final Documentation Report*, and will be provided to the TGPL Northern Division Environmental Coordinator and the NYSDEC.

Section 9 - Reporting Requirements

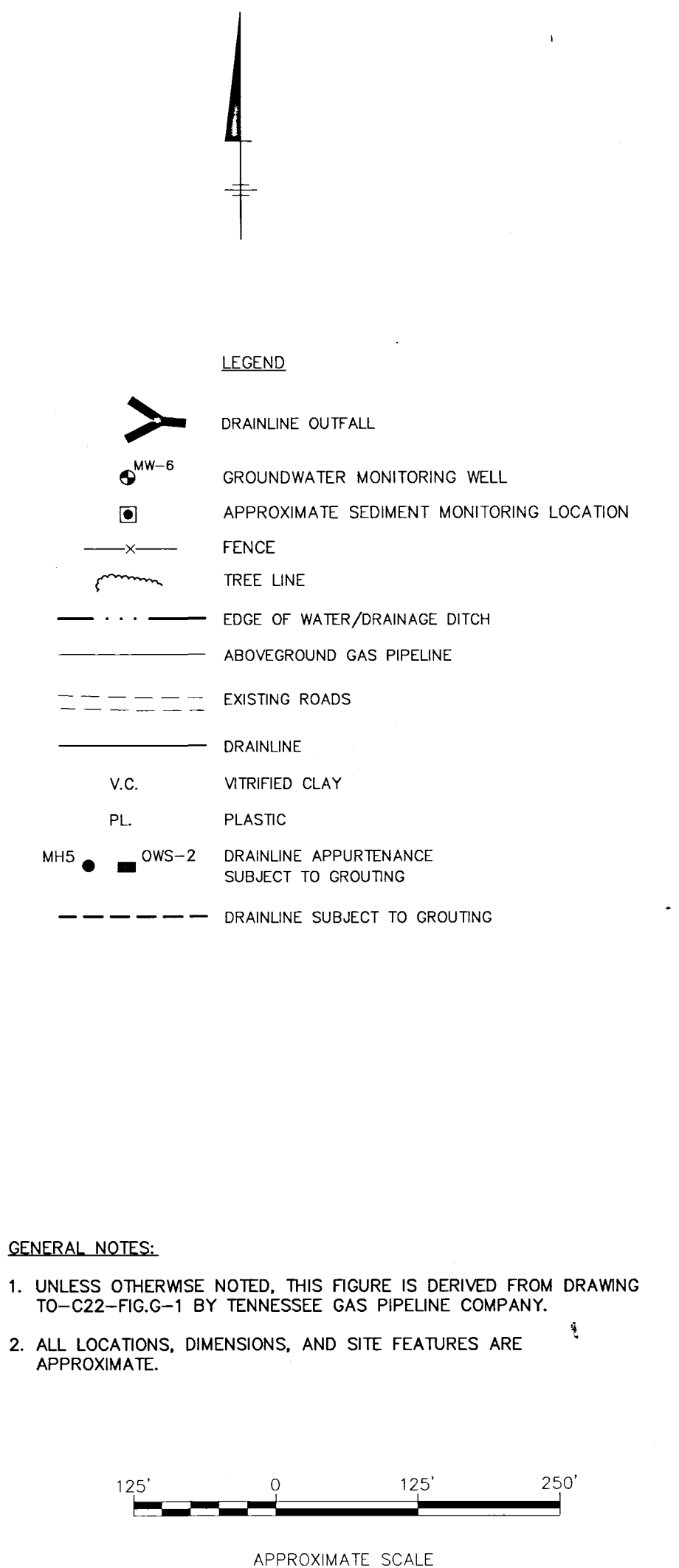
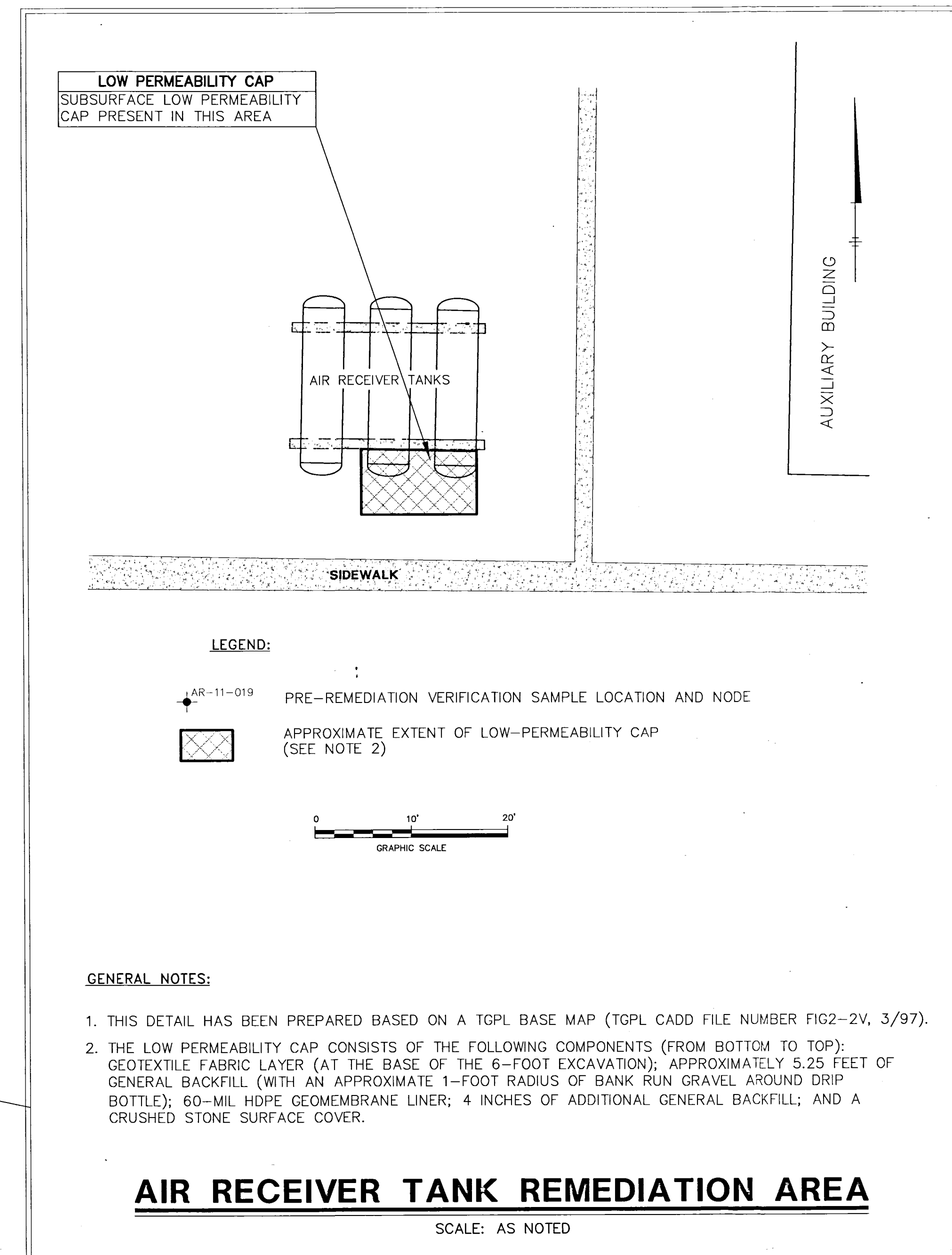
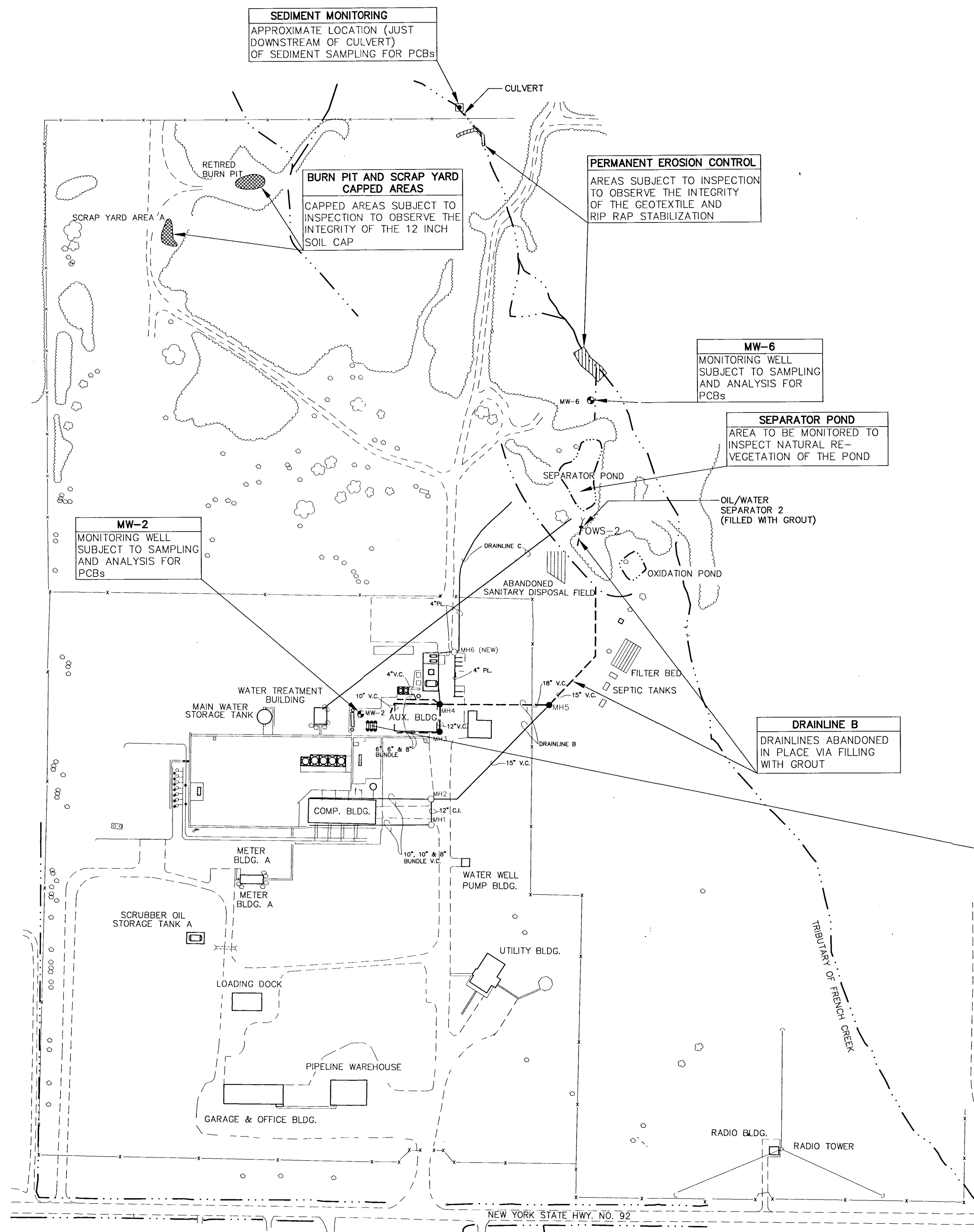
This O&M Plan requires documentation of O&M activities conducted at the site. As previously stated, the documentation generated during implementation of this O&M Plan will be maintained in the station records as an attachment to the *Final Documentation Report*, as well as provided to appropriate TGPL and NYSDEC personnel (NYSDEC contacts are presented in Section 1 of this O&M Plan).

A summary of the O&M documentation required for potential future excavation, inspections, and monitoring for specific areas of the site is presented below.

- **Future Excavation from Drainline B, ART, or Retired Burn Pit and Scrap Yard Capped Areas** - A notification of the appropriate personnel/agencies of proposed excavation in the immediate vicinity of Drainline B, ART low-permeability cap area, or Retired Burn Pit and Scrap Yard soil cover (cap) areas is required prior to excavation (unless there is an emergency); following excavation, documentation of the excavation activities, extent, and disposal method (if required) utilized will also be required.
- **Retired Burn Pit and Scrap Yard Capped Area Inspection** - Inspection of soil cover areas will be performed annually, at a minimum. The inspections and maintenance/repairs (if required) of capped areas will be appropriately documented on the attached O&M activity log form (Attachment A).
- **Separator Pond Inspection¹** - Monitoring the Separator Pond for natural revegetation will be documented on the attached O&M activity log form (Attachment A).
- **Permanent Erosion Control Area Inspection¹** - The inspection of permanent erosion control measures will be documented; in the event repairs are necessary, the repair work will also be summarized.
- **Sediment Monitoring** - A brief description of sediment sampling activities and analytical results is to be prepared following each sediment sampling event. Sediment monitoring activities are to be performed at a frequency of every other year for a period of five years. Following the fifth-year, the frequency of further monitoring is subject to potential modification.
- **Groundwater Monitoring** - A brief description of the groundwater monitoring activities and results will be prepared following each sampling event (annually for first five years, frequency subject to potential modification thereafter).

To assist in preparing O&M documentation, an O&M activity log form (check list) is included as Attachment A. Refer to Section 3 through 8 for additional information regarding inspection/monitoring frequencies and durations.

¹ Permanent Erosion Control and Separator Pond area inspections are to be performed at a frequency of quarterly for the first year with potential modification to that frequency based on observations made during the first year of inspections (with a minimum frequency of annually). Each inspection event is to be documented. The inspection durations are as noted in prior sections.



RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.
DATE 5/13/98 BY [Signature]
FILE NUMBER 5134208F

TENNESSEE GAS PIPELINE COMPANY • AN EL PASO ENERGY COMPANY
HOUSTON, TEXAS
COMPRESSOR STATION 224
CHAUTAUQUA COUNTY, NEW YORK
OPERATIONS AND MAINTENANCE PLAN

IBIBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

ATTACHMENT A

OPERATIONS AND MAINTENANCE PLAN
TENNESSEE GAS PIPELINE COMPANY
COMPRESSOR STATION 224 (SITE NO. 9-07-014)
CHAUTAUQUA COUNTY, NEW YORK

O&M ACTIVITY LOG FORM

Personnel Performing O&M Activity _____

Date: _____

☐ Drainline B Excavation - Provide Description of Activity (include sketch as attachment),

Drainline Component Removed? (Yes/No)

Drainline Component Disposed? (Yes/No) (Attach Manifest)

Repairs Made to Exposed Drainlines? (Yes/No) Describe:

☐ Air Receiver Tank Area Excavation - Provide Description of Activity (include sketch as attachment)

Excavation Below Geotextile Fabric Layer of Low Permeability Cap Performed? (Yes/No)

Excavated Materials Disposed Off-Site? (Yes/No) (Attach Manifest)

Cap Restored to Original Condition? (Yes/No) Describe:

☐ Permanent Erosion Control Area Inspection (Tributary of French Creek Areas "A" and "B") -
Monitor Stabilized Areas for Integrity

Repairs necessary? (Yes/No)

Describe:

☐ Sediment Monitoring - Sediment Sampling Performed? (Yes/No)
(Attach Summary and Analytical Results)

ATTACHMENT A

OPERATIONS AND MAINTENANCE PLAN
TENNESSEE GAS PIPELINE COMPANY
COMPRESSOR STATION 224 (SITE NO. 9-07-014)
CHAUTAUQUA COUNTY, NEW YORK

O&M ACTIVITY LOG FORM

- ☐ Retired Burn Pit or Scrap Yard Cap Excavation - Provide Description of Activity (include sketch as attachment)

Excavation Below 12-inch Soil Cover (Cap) Performed? (Yes/No)
Excavated Materials Disposed Off-Site? (Yes/No) (Attach Manifest)
Cap(s) Restored to Original Condition? (Yes/No)

Describe:

- ☐ Retired Burn Pit and Scrap Yard Cap Inspection and Maintenance - Inspect Cap for Excessive Erosion and Vegetative Establishment.

Brush-Cutting Performed? (Yes/No)
Repairs Necessary to Cap(s)? (Yes/No)

Describe:

- ☐ Separator Pond Inspection - Monitoring Pond for Natural Revegetation for Up to Two Years or Until Vegetation is Established.

Describe:

- ☐ Groundwater Monitoring - Groundwater Sampling Performed? (Yes/No) (Attach Summary Report and Analytical Results)

Notes:

1. Figure 1 shows the general areas subject to Operation and Maintenance activities.
2. See Operations and Maintenance Plan (O&M Plan) text for additional details regarding inspection/monitoring activities, frequency, and duration. Also, see O&M Plan for additional sampling information.

APPENDIX

Tennessee Gas Pipeline Station 224

GROUNDWATER SAMPLING LOG SHEET

PAGE ____ OF ____

SAMPLE
LOCATION
ID

LOCATION
ACTIVITY

START

END

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED DUP ID

WATER LEVEL / WELL DATA

WELL DEPTH

FT

☐ MEASURED
☐ HISTORICAL

☐ TOP OF WELL
☐ TOP OF CASING

PROTECTIVE
CASING STICK-UP
(FROM GROUND)

FT

WELL DIA.

☐ 2 INCH
☐ 4 INCH
☐ 6 INCH

PROTECTIVE
CASING/WELL DIFF.

FT

WELL INTEGRITY:
PROT. CASING SECURE
CONCRETE COLLAR INTACT
WELL LOCKED
OTHER:

YES NO N/A
☐ ☐ ☐
☐ ☐ ☐
☐ ☐ ☐

DEPTH TO
WATER

FT

HISTORICAL
WELL DEPTH

FT

WELL MATERIAL:
☐ PVC ☐
☐ SS

AMBIENT AIR VOA

PPM

WELL MOUTH

PPM

HEIGHT OF
WATER COLUMN

FT

☐ .16 GAL/FT (2 IN)
☐ .65 GAL/FT (4 IN)
☐ 1.5 GAL/FT (6 IN)
☐ GAL/FT (IN)

GAL/VOL

TOTAL GAL PURGED

PURGE DATA

PURGE VOLUME

2 GAL

2 GAL

2 GAL

2 GAL

2 GAL

TEMP, DEG C

PH, UNITS

SPECIFIC CONDUCTIVITY $\mu\text{hos/cm}$

SAMPLE OBSERVATIONS

☐ CLEAR
☐ COLORED
☐ CLOUDY
☐ TURBID
☐ ODOR
☐ OTHER (SEE NOTES)

EQUIPMENT DOCUMENTATION

PURGING SAMPLING

PERISTALTIC PUMP
SUBMERSIBLE PUMP
BAILER
PVC/SILICON TUBING
TEFLON/SILICON TUBING
AIR LIFT
WATERA
IN-LINE FILTER
PRESS/VAC FILTER

EQUIPMENT ID

ISCD #
KICK #
☐ 2" ☐ 1" 2"

DECON FLUIDS USED
☐ LIQUID-NOX
☐ DEIONIZED WATER
☐ HNO₃/D.I. WATER
☐ POTABLE WATER
☐ TSP SOLUTION
☐ NONE

WATER LEVEL EQUIP. USED
☐ ELECTRIC CONO. PROBE
☐ FLOAT ACTIVATED
☐ KICK INTERFACE PROBE
☐ OTHER

NUMBER OF FILTERS USED

ANALYTICAL PARAMETERS

METHCO
NUMBER

FILTERED

PRESERVATION
METHCO

VOLUME
REQUIRED

SAMPLE
COLLECTED

SAMPLE BOTTLE ID NUMBERS

NOTES

SIGNATURE:

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 4
Air Monitoring Information

Mr. Mark Gravelding
 Blasland, Bouck, & Lee, Inc.
 6723 Townpath Road
 Syracuse, NY 13214

Friday, March 6, 1998

via facsimile (315) 449-0017

Dear Mr. Gravelding:

Subject: Real Time Air Monitoring for PCB Contaminated Dust at Station #224 in Clymer, New York.

In response to requests by Mr. Ian Yanagisawa, this letter summarizes the findings of all real-time air monitoring for dust laden with PCBs, aside from the integrated area monitoring for PCBs. All monitoring was performed in accordance with the Site Specific Health and Safety Plan, company policy, and the project's plans and specifications. Results were logged on field forms provided in my January 20, 1998 letter, and the following is a summary of the findings:

Target Compound	Duration of Sampling	Findings
Dusts (PCB contaminated) Action Level: 150 mg/m ³ for community monitoring Action Level: 5.0 mg/m ³ for worker exposure assessment (negative assessment) Dust monitor measuring range is 1 µg/m ³ - 10 mg/m ³	7-30-97 Samples taken in afternoon during initial PCB soil excavation. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. There were no excursions above the action limits.	7-30-97 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 23 to 27 µg/m ³ for community assessments and 37 to 68 µg/m ³ for personal exposure assessments.
	7-31-97 Samples taken during PCB soil remediation at the start of shift from 8:30 am until 10:30 am, and then resumed from 1:30 PM until 5:00 PM. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. There were no excursions above the action limits.	7-31-97 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 22 to 31 µg/m ³ for community assessments and 24 to 32 µg/m ³ for personal exposure assessments.
	8-1-98 Samples taken during PCB soil remediation at the start of shift from 8:30 am until 10:30 am, and then resumed from 1:30 PM until 6:30 PM. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. There were no excursions above the action limits.	8-1-97 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 3 to 22 µg/m ³ for community assessments and 7 to 25 µg/m ³ for personal exposure assessments.

Combining the Strengths of Philip Services Corp., Allwaste and Serv-Tech

Target Compound	Duration of Sampling	Findings
	8-2-98 Samples taken during PCB soil remediation at the start of shift from 7:55 am until 11:00 am, and then resumed from 12:00 PM until 3:20 PM. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. Post instrument calibration/check indicated that the instrument had drifted up, and that actual readings were lower than indicated on the instrument. Calibration or "S" value on the instrument is supposed to be at $\pm 5\%$, and the actual "S" value was at $+17.5\%$. Regardless, there were no excursions above the action limits. 8-4-97 Samples taken during PCB soil remediation at the start of shift from 8:15 am until 12:30 PM, and then resumed from 1:30 PM until 5:05 PM. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. There were no excursions above the action limits. 8-5-97 Samples taken during PCB soil remediation at the start of shift from 8:30 am until 12:45 PM, and then resumed from 2:15 PM until 5:00 PM. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. There were no excursions above the action limits. 8-6-97 Samples taken during PCB soil remediation at the start of shift from 9:00 am until 10:20 am, and then resumed from 1:00 PM until 3:30 PM. Periodic sampling was performed for 15 minutes sustained for community assessment. Worker assessments were performed in the breathing zone and were to performed for 5 minutes sustained. There were no excursions above the action limits. Discontinuation of air monitoring.	8-2-98 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 46 to 68 $\mu\text{g}/\text{m}^3$ for community assessments and 50 to 119 $\mu\text{g}/\text{m}^3$ for personal exposure assessments. 8-4-97 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 4 to 63 $\mu\text{g}/\text{m}^3$ for community assessments and 3 to 63 $\mu\text{g}/\text{m}^3$ for personal exposure assessments. 8-5-97 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 2 to 11 $\mu\text{g}/\text{m}^3$ for community assessments and 4 to 97 $\mu\text{g}/\text{m}^3$ for personal exposure assessments. 8-6-97 Dust was not detected during PCB removal operations above the action limits. Dust levels ranged from 3 to 15 $\mu\text{g}/\text{m}^3$ for community assessments and 3 to 47 $\mu\text{g}/\text{m}^3$ for personal exposure assessments.

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cc: Jerre Munson, Philip Project Manager
Ian Yanagisawa, El Paso Energy - TGP Project Manager

If there are any questions, please contact me by phone at (281) 470-1388.

Sincerely,
Philip Services Corporation

Steven Briggs
Steven Briggs
Regional Health and Safety Officer

\\houston\vol1\project\18172\bb1224.doc

cc: Jerre Munson, Philip Project Manager
Ian Yanagisawa, El Paso Energy - TGP Project Manager

Tuesday, January 20, 1998

Mr. Mark Gravelding
Blasland, Bouck, and Lee, Inc.
6723 Townpath Road
Syracuse, NY 13214

Re: Summary Report of Air Monitoring Results for Clymer, NY PCB Remediation

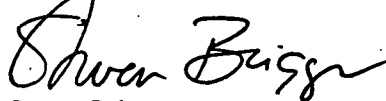
Dear Mr. Gravelding:

During remedial work performed by Philip Services Corporation (Philip) at the Tenneco Energy site located in Clymer, NY in 1997, air monitoring was conducted to verify that employees were not exposed to hazardous chemicals or site contaminants and to ensure compliance with the community air monitoring requirements of the contract documents. This monitoring was conducted via real-time air monitoring strategies using a dust/aerosol monitor and through conventional passive industrial hygiene methods. Specifically, airborne dust limits were set as action limits that incorporated each site's specific contaminants and level (quantification) of contamination.

As a summary of this monitoring, please note that there were no measurable dust levels above set action limits at any time. In effect, all monitoring results indicated that dust levels were normal and not above natural background levels. Attached is documentation verifying this.

If there are any questions regarding this matter, please direct correspondence to Mr. Jerre Munson. I hope that this will assist Tenneco Energy in finding closure to the work completed under the noted contract.

Sincerely,
PHILIP SERVICES CORPORATION



Steven Briggs
Health and Safety Officer

p:\18172\airletr.doc
SB/sb

ATT: site air monitoring logs
analytical results

cc: job file
Jerre Munson

Combining the Strengths of Philip Services Corp., Allwaste and Serv-Tech





LABORATORY ANALYSIS REPORT

Client : Philip Environmental Services Corp.

Site : NS

Date Sampled : 30-JUL-97 - 31-JUL-97

Date Received : 04-AUG-97

Project No.: 18172

Account No.: 13148

Login No. : L38282

Polychlorinated Biphenyls

Sample ID	Lab ID	Air Vol l	Front ug	Back ug	Total ug	ug/m3
VW001	L38282-1	49.3	< 0.05	< 0.05	< 0.05	< 1
DWA001	L38282-2	49.0	< 0.05	< 0.05	< 0.05	< 1
DWB001	L38282-3	56.3	< 0.05	< 0.05	< 0.05	< 1
FB001 BLANK	L38282-4	NA	< 0.05	< 0.05	< 0.05	NA
VW002	L38282-5	62.63	< 0.05	< 0.05	< 0.05	< 1
DWA002	L38282-6	81.02	< 0.05	< 0.05	< 0.05	< 1
DWB002	L38282-7	79.57	< 0.05	< 0.05	< 0.05	< 1
FB002 BLANK	L38282-8	NA	< 0.05	< 0.05	< 0.05	NA

COMMENTS: Results quantified as Arclor 1254.

Level of quantitation: 0.05 ug
Analytical Method : NIOSH 5503; GC/ECD
OSHA PEL (TWA) : 1 mg/m3
Collection Media : Filter & Tube

Submitted by: H Eckerlin
Approved by : PJT
Date : 05-AUG-97
QC by:
NYS DOH # : 11626

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	





Galson

Laboratories

6601 Kirkville Road

P.O. Box 369

E. Syracuse, NY 13057

Tel: (315) 437-7252 888- 577-Labs (5227)

Fax: (315) 437-0571

Request For Industrial Hygiene Analysis

Company Name: PHILIP SERVICES

Sampled By: T. W. EISEN

Project #: 18172

Send Report to: PHILIP SERVICES
3010 GREENS RD.
HOUSTON, TEXAS 77032
ATTN: STEVE BRIGGS

Invoice to: PHILIP SERVICES
3010 GREENS ROAD
HOUSTON, TEXAS 77032
P.O. #: CCSIC

☐ Standard Turn-around Time

OR

☒ Rush! Date and Time needed: 08/01/97 ^{am}
Advance Notification Required. See fee schedule for surcharges.

☒ Fax results to: STEVE BRIGGS

OR

☐ Phone results to: _____

Fax #: (281) 442-1797

Phone #: () - - ext. _____

Samples collected in New York State? ☒ Y ☐ N

If yes, OSHA Compliance? ☐ Y ☒ N

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Required	Method Reference
<u>UW001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC225-16/6631</u>	<u>49.3</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>UW001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC226-39/119</u>	<u>49.3</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC225-16/6631</u>	<u>49.0</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC225-39/119</u>	<u>49.0</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC225-16/6631</u>	<u>56.3</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC226-39/119</u>	<u>56.3</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC225-16/6631</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB001</u> This Space for LAB use only	<u>7/30/97</u>	<u>SKC225-16/119</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>

* For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area): DETECTION LIMIT TO BE 1 µg/m³ FOR ALL ANALYSTS; PRIORITY RESULTS IN µg/m³

Chain of Custody	Print Name	Signature	Date
Relinquished by:	<u>T. W. EISEN</u>	<u>T. W. Eisen</u>	<u>7/31/97</u>
Received by LAB.			



3010 Greens Road, Houston, Texas 77032
(713) 442-1794 - Phone
(713) 442-1797 - Fax

PERSONNEL SAMPLING LOG SHEET

Project Name: TGPL COMPRESSOR STA. 224
CLYMER, NY

Project Number: 18172

Project Description: EXCAVATE PCB CONTAMINATED SOIL - COMMUNITY MONITORING

Site Safety Officer: MIKE VERLINA

Person Performing Sampling: T. W. FISBECK

Background Data

Average Temperature During Monitoring Period: 78°F

Relative Humidity: _____

Average Wind Speed: 15-25 MPH

Any precipitation within last 24 hrs. (Yes/No): NO

Amount: N/A

Pump Calibration Data

Manufacturer of Calibration Unit: CELCHAN

Model #: PNT-8002-8
CALIBRATOR

Serial #: FROM CELL P/N 7800286
S/N 14999-5

Comments

UPGRADE AND DOWNGRADE MONITORING AT PERIMETER

Signature of Person Performing Monitoring: [Signature]

Instructions for use:

Fill out personnel sampling form (front and back) completely. Retain original copy for your files, and make a photocopy to be placed into central files. If you are unable to complete any section of this log, please note why in the comments section. If a section is not applicable, then mark a "n/a" in that spot. This is not a replacement for a chain-of-custody form to be sent to the laboratory providing analysis (only AIHA accredited labs). It is recommended however to place a copy of the chain of custody in your sample log binder, as well as in central files.

CALIBRATION INFORMATION

	Pump Serial Number	Pre-Flow Calibration (LPM)				Post-Flow Calibration (LPM)				Net Average Flow (LPM)
		Test 1	Test 2	Test 3	Average	Test 1	Test 2	Test 3	Average	
UW	SKC#511704	0.1126	0.1126	0.1126	0.1126	0.1025	0.1026	0.1034	0.1025	0.1076
DWB	SKC#511788	0.1042	0.1034	0.1052	0.1044	0.1075	0.1060	0.1057	0.1064	0.1054
DWA	SKC#51120	0.1153	0.1154	0.1154	0.1154	0.1201	0.1202	0.1202	0.1202	0.1178

SAMPLING DATA

Sample ID #	Employee Name	*Employee Number	Start Time	Stop Time	Total Run Time	Flow Rate	Volume (Liters)
UW001	UP&DOWN OF EXCAVATION	N/A	1028	1805	458 min	0.1076	49.3
DWA001	DOWN&DOWN OF EXCAVATION	N/A	1027	1812	465 min	0.1054	49.0
DWB001	"	N/A	1017	1815	478 min	0.1178	56.3
FB001	FIELD BLANK	N/A	N/A	N/A	N/A	N/A	N/A



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: _____

Project Number: 18172Project Name: TCPL COMPRESSOR STATIONLocation: CYMER, NYDate of Monitoring: 7/30/97Submitted By: TWISSBELLSite Safety Coordinator: JACKIE VARNUMWind Speed: 15-25 MPHWind Direction: N-NWPrecipitation Amounts: NONE

Agents Being Monitored:

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A - Worker Exposure(2) B - Community Exposure

(3) _____

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minutes	Low Reading	High Reading	Average Reading	Action Level
—	0621317	2	642	-0.31%	640	—	—	—%	—	—	—	—	—	—	—	—
001-B DW				%				%		1526	1541	15	N/A	N/A	0.0253	0.150
002-B DW				%				%		1545	1600	15	N/A	N/A	0.0277	0.150
001A-A				%				%		1603	1608	5	N/A	N/A	0.0684	5.0
003-B UW				%				%		1620	1635	15	N/A	N/A	0.0234	0.150
004-B DW				%				%		1645	1700	15	N/A	N/A	0.0255	0.150
002-A				%				%		1708	1713	5	N/A	N/A	0.0314	5.0
003-A				%				%		1749	1754	5	N/A	N/A	0.0472	5.0
—						2	649	-1.4%	640	—	—	—	—	—	—	—

Type of activities being monitored: EXCAVATION OF PCB CONTAMINATED SOIL. DW = DOWNWIND; UW = UPWINDAdditional field comments: 'K' = 0.001 mg/m³; 0 = 2 (AS PER LD-1 INSTRUCTIONS MANUAL). 1ST DAY OF WORK; EXCAVATION STARTED AT 1525; ENDED 1800. CALIBRATION, PRE- & POST- WITHIN ± 5%

**Garrison****Laboratories**

6601 Kirkville Road

P.O. Box 369

E. Syracuse, NY 13057

Tel: (315) 437-7252 888-577-Labs (5227)

Fax: (315) 437-0571

Request For Industrial Hygiene Analysis

Company Name:

PHILIP SERVICES

Sampled By:

T. W. EISENBECK

Project #:

18172

Send Report to:

PHILIP SERVICES

Invoice to:

PHILIP SERVICES3010 GREENS RD.3010 GREENS RD.HOUSTON, TEXAS 77032HOUSTON, TEXAS 77032ATTN: STEVE BRIGGS

P.O. #:

66810☐ Standard Turn-around Time

OR

☒ Rush! Date and Time needed: 08 104197 ^{am}

Advance Notification Required. See fee schedule for surcharges.

☒ Fax results to: SAFE DRILLS

OR

☐ Phone results to: _____

Fax #:

(281) 442-1747

Phone #:

() - -

ext.

Samples collected in New York State? ☒ Y ☐ NIf yes, OSHA Compliance? Y ☒ N

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Required	Method Reference
<u>UW002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-16/1631</u>	<u>62.63</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>UW002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-39/119</u>	<u>62.63</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-16/1631</u>	<u>81.02</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-39/119</u>	<u>81.02</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-16/1631</u>	<u>79.57</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-39/119</u>	<u>79.57</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-16/1631</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB002</u> This Space for LAB use only	<u>7/31/97</u>	<u>SKC 225-39/119</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>

* For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area):

DETECTION LIMIT TO BE 1 µg/m³ FOR ALL ANALYSTS; REPORT RESULTS IN µg/m³

Chain of Custody	Print Name	Signature	Date
Relinquished by:	<u>THOMAS M. W. EISENBECK</u>	<u>Thomas M. W. Eisenbeck</u>	<u>8/1/97</u>
Received by LAB:			



3010 Greens Road, Houston, Texas 77032
(713) 442-1794 - Phone
(713) 442-1797 - Fax

PERSONNEL SAMPLING LOG SHEET

Project Name: TRPL COMPRESSOR STN 224
CLYMER, NY

Project Number: 18172

Project Description: EACAPITE PCB CONTAMINATED SOIL - COMMUNITY MONITORING

Site Safety Officer: MIKE VARNUM

Person Performing Sampling: T. WEISBECK

Background Data

Average Temperature During Monitoring Period: ~ 76°F

Relative Humidity: _____

Average Wind Speed: 0-15 MPH

Any precipitation within last 24 hrs. (Yes/No): NO

Amount: N/A

Pump Calibration Data

Manufacturer of Calibration Unit: GIEMAN

Model #: PH# 300963
GIEMAN

Serial #: FLOW CELL PH# 1800256
S/N 14997-5

Comments

COMMUNITY PROTECTION MONITORING - UP & DOWNWIND

Signature of Person Performing Monitoring: [Signature]

Instructions for use:

Fill out personnel sampling form (front and back) completely. Retain original copy for your files, and make a photocopy to be placed into central files. If you are unable to complete any section of this log, please note why in the comments section. If a section is not applicable, then mark a "n/a" in that spot. This is not a replacement for a chain-of-custody form to be sent to the laboratory providing analysis (only AIHA accredited labs). It is recommended however to place a copy of the chain of custody in your sample log binder, as well as in central files.

CALIBRATION INFORMATION

Pump Serial Number	Pre-Flow Calibration (LPM)				Post-Flow Calibration (LPM)				Net Average Flow (LPM)
	Test 1	Test 2	Test 3	Average	Test 1	Test 2	Test 3	Average	
DW1B002 GILMAN HRS13A 24186	0.1197	0.1198	0.1199	0.1198	0.1160	0.1163	0.1166	0.1163	0.1181
UW002 " 24187	0.1144	0.1144	0.1145	0.1145	0.0855	0.0842	0.0814	0.0837	0.0991
DWA002 " 24188	0.1190	0.1190	0.1191	0.1190	0.1190	0.1192	0.1196	0.1193	0.1192

SAMPLING DATA

COMMUNITY MONITORING.

* @ 1711, UPWIND SAMPLE PUMP FOUND FAULTED @ 536 MEN. RESTARTED. RAN FOR 1 MEN, THEN FAULTED AGAIN. RESTARTED 2ND TIME @ 1715, RAN 45 MEN & UNTIL STOPPED @ 1757. TOT. TIME: 632 MEN.

Sample ID #	Employee Name	*Employee Number	Start Time	Stop Time	Total Run Time	Flow Rate	Volume (Liters)
UW002	UPWIND	N/A	0700	1757*	632 MEN	0.0991	62.63
DWA002	DOWNWIND 'A'	N/A	0702	1755	680 "	0.1192	81.02
DW1B002	DOWNWIND 'B'	N/A	0705	1756	674 "	0.1181	79.57
FB002	FIELD BLANK	N/A	N/A	N/A	N/A	N/A	N/A



PHILIP ENVIRONMENTAL SERVICES CORP.
Real-Time Dust Monitoring Data Sheet
(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: _____

Project Number: 18172

Project Name: TGPL COMPRESSOR STA 224

Location: CLYMER, NY

Date of Monitoring: 8/1/97 7/31/97

Submitted By: TIM FISBACK

Site Safety Coordinator: MIKE LARSON

Wind Speed: 0-15 MPH

Wind Direction: N-NW

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A-WORKER EXPOSURE

Agents Being Monitored:

(2) B-COMMUNITY EXPOSURE

(3) _____

Precipitation Amounts: NONE

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Adjustments			Zero Reading	Sensitivity Adjustments			In military time			In mg/m ³			
			Sensitivity Reading	% from "S" Value	"S" Value		Sensitivity Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minutes	Low Reading	High Reading	Average Reading	Action Level
PRE-CAL ZEROING	0621317	2	641	0.16%	640	—	—	—%	—	—	—	—	—	—	—	—
001-B DW				%				%		0825	0840	15	N/A	N/A	0.022	0.150
001-A				%				%		0847	0852	5	N/A	N/A	0.027	5.0
002-B DW				%				%		0857	0912	15	N/A	N/A	0.029	0.150
003-B DW				%				%		0955	1010	15	N/A	N/A	0.024	0.150
002-A				%				%		1014	1019	5	N/A	N/A	0.027	5.0
004-B DW				%				%		1234	1249	15	N/A	N/A	0.024	0.150
003-A	✓			%				%		1256	1301	5	N/A	N/A	0.027	5.0

Type of activities being monitored: EXCAVATION OF PCB CONTAMINATED SOIL. DW = DOWNWIND, UW = UPWIND, HS = HAND EXCAVATION
START EXCAVATION 0830, STOP @ 1030 - BOX FULL. LUNCH 1130 - 1200. HAND EXCAVATE & STOCKPILE SIZE: 1325 - 1500.
BREAK 1500 - 1515. CHANGE OUT ROLLOFF BOX & EXCAVATE 1600 - 1700.

Additional field comments: K = 0.001 mg/m³; ZERO = 2

Project Number: _____

Project Name: _____

Agents Being Monitored:

Location: _____

Date of Monitoring: _____

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Submitted By: _____

Site Safety Coordinator: _____

(2)

Wind Speed: _____

Wind Direction: _____

Precipitation Amounts: _____

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Adjustments		"S" Value	Zero Reading	Sensitivity Adjustments		"S" Value	In military time			in mg/m ³			
			Reading	% from "S" Value			Reading	% from "S" Value		Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
004-AHS	0621317			%				%		1315	1326	5	N/A	N/A	0.024	5.0
005-BPW				%				%		1416	1436	15	N/A	N/A	0.023	0.150
005-AHS				%				%		1439	1444	5	N/A	N/A	0.025	5.0
006-BPW				%				%		1602	1617	15	N/A	N/A	0.031	0.150
006-A				%				%		1623	1628	5	N/A	N/A	0.032	5.0
007-A				%				%		1636	1641	5	N/A	N/A	0.027	5.0
007-BPW				%				%		1645	1700	15	N/A	N/A	0.029	0.150
POST-CAL	✓			%		2	651	1.72%	640							

Type of activities being monitored: _____

Additional field comments: _____



Galson Laboratories

LABORATORY ANALYSIS REPORT

Client : Philip Environmental Services Corp.

Site : NS

Date Sampled : 01-AUG-97

Date Received : 04-AUG-97

Project No.: 18172

Account No.: 13148

Login No. : L38312

Polychlorinated Biphenyls

<u>Sample ID</u>	<u>Lab ID</u>	<u>Air Vol</u> <u>l</u>	<u>Front</u> <u>ug</u>	<u>Back</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>ug/m3</u>
VW003	L38312-1	71.5	< 0.05	< 0.05	< 0.05	< 1
DWA003	L38312-2	73.4	< 0.05	< 0.05	< 0.05	< 1
DWB003	L38312-3	75.4	< 0.05	< 0.05	< 0.05	< 1
FB003 BLANK	L38312-4	NA	< 0.05	< 0.05	< 0.05	NA

COMMENTS: Results quantified as Aroclor 1254.

Level of quantitation: 0.05 ug
Analytical Method : NIOSH 5503; GC/ECD
OSHA PEL (TWA) : 1 mg/m3
Collection Media : Filter & Tube

Submitted by: H Eckerlin
Approved by : PJT
Date : 05-AUG-97
QC by: 
NYS DOH # : 11626

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	



**Garrison****Laboratories**

6601 Kirkville Road

P.O. Box 369

E. Syracuse, NY 13057

Tel: (315) 437-7252 888- 577-Labs (5227)

Fax: (315) 437-0571

Request For Industrial Hygiene Analysis

Company Name:

PHILIP SERVICES

Sampled By:

T.W. FISHER

Project #:

18172

Send Report to:

PHILIP SERVICES

Invoice to:

PHILIP SERVICES3010 GREENS RD.3010 GREENS RD.HOUSTON, TEXAS 77032HOUSTON, TEXAS 77032ATTN: STEVE BRIGGSP.O. #: 66810☐ Standard Turn-around Time

OR

☒ Rush! Date and Time needed: 08 104 197 ^{am}
Advance Notification Required. See fee schedule for surcharges.☒ Fax results to: STEVE BRIGGS

OR

☐ Phone results to: _____Fax #: (281) - 442 1797

Phone #: () - - ext.

Samples collected in New York State? ☒ Y ☐ NIf yes, OSHA Compliance? Y ☒ N

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Required	Method Reference
<u>UW003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-16/6031</u>	<u>71.5</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>UW003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-39/119</u>	<u>71.5</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>PWB003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-16/6031</u>	<u>73.4</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-39/119</u>	<u>73.4</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>PWB003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-16/6031</u>	<u>75.4</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-39/119</u>	<u>75.4</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-16/6031</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB003</u> This Space for LAB use only	<u>8/1/97</u>	<u>SKC 225-39/119</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>

* For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area):

DETECTION LIMIT TO BE 1ug/m³ FORALL ANALYSES; REPORT RESULTS IN ug/m³

Chain of Custody	Print Name	Signature	Date
Relinquished by:	<u>T.W. FISHER</u>	<u>T.W. FISHER</u>	<u>8/1/97</u>
Received by LAB:			

PERSONNEL SAMPLING LOG SHEET

Project Name: TBPL LANDFILL STA 224
Primer, NY

Project Number: 18172

Project Description: EXCAVATE PCB CONTAMINATED SOIL - COMMUNITY MONITORING

Site Safety Officer: MIKE VARNUM

Person Performing Sampling: D. WEISBERG

Background Data

Average Temperature During Monitoring Period: ~ 74°F

Relative Humidity:

Average Wind Speed: 0-25 MPH

Any precipitation within last 24 hrs. (Yes/No): NO

Amount:

Pump Calibration Data

Manufacturer of Calibration Unit: GELTAN

Model #: P/N # 800268
GENERATOR

Serial #: FLOW CELL P/N 800268
SN 14997-5

Comments

COMMUNITY PROTECTION MONITORING, UP & DOWN WIND

Signature of Person Performing Monitoring: *[Signature]*

Instructions for use:

Fill out personnel sampling form (front and back) completely. Retain original copy for your files, and make a photocopy to be placed into central files. If you are unable to complete any section of this log, please note why in the comments section. If a section is not applicable, then mark a "n/a" in that spot. This is not a replacement for a chain-of-custody form to be sent to the laboratory providing analysis (only AIHA accredited labs). It is recommended however to place a copy of the chain of custody in your sample log binder, as well as in central files.

CALIBRATION INFORMATION

8/1/97

Pump Serial Number	Pre-Flow Calibration (LPM)				Post-Flow Calibration (LPM)				Net Average Flow (LPM)
	Test 1	Test 2	Test 3	Average	Test 1	Test 2	Test 3	Average	
UW003 SKC #511704	0.1187	0.1187	0.1187	0.1187	0.1084	0.1100	0.1103	0.1101	0.1144
DWB SKC #511718	0.1146	0.1204	0.1154	0.1168	0.1271	0.1273	0.1271	0.1271	0.1220
DWA SKC #511210	0.1192	0.1192	0.1192	0.1192	0.1174	0.1176	0.1177	0.1175	0.1184

SAMPLING DATA

Sample ID #	Employee Name	*Employee Number	Start Time	Stop Time	Total Run Time	Flow Rate	Volume (Liters)
UW003	UPPER END OF EXCAVATION	N/A	0656	1722	625 MIN.	0.1144	71.5
DWA003	DOWN END OF EXCAVATION	N/A	0659	1720	620 "	0.1184	73.4
DW8003	DOWN END OF EXCAVATION	N/A	0702	1721	618 "	0.1220	75.4
FB003	FIELD BLANK	—	—	—	—	—	—

* Use Social Security Number for non-PIHC employees
 P:\MWD\DOC



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: _____

Project Number: 18172Project Name: TGPA COMPRESSOR STA. 224Location: Clymer, NYDate of Monitoring: 8/1/97Submitted By: T. WASSERCKSite Safety Coordinator: M. VARNUMWind Speed: 0-25 MPHWind Direction: W-NWPrecipitation Amounts: NONE

Agents Being Monitored:

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A - WORKER EXPOSURE(2) B - COMMUNITY EXPOSURE

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
<u>PRE-LAS ZEROING</u>	<u>8621317</u>	<u>2</u>	<u>637</u>	<u>0.47%</u>	<u>640</u>	<u>—</u>	<u>—</u>	<u>—%</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>001-B DW</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>0819</u>	<u>0834</u>	<u>15</u>	<u>N/A</u>	<u>N/A</u>	<u>0.008</u>	<u>0.150</u>
<u>001-A HS</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>0840</u>	<u>0845</u>	<u>5</u>	<u> </u>	<u> </u>	<u>0.007</u>	<u>5.0</u>
<u>002-A</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>0856</u>	<u>0901</u>	<u>5</u>	<u> </u>	<u> </u>	<u>0.011</u>	<u>5.0</u>
<u>002-B DW</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>0913</u>	<u>0928</u>	<u>15</u>	<u> </u>	<u> </u>	<u>0.004</u>	<u>0.150</u>
<u>003-B DW</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>0953</u>	<u>1008</u>	<u>15</u>	<u> </u>	<u> </u>	<u>0.003</u>	<u>0.150</u>
<u>003-A</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>1011</u>	<u>1016</u>	<u>5</u>	<u> </u>	<u> </u>	<u>0.024</u>	<u>5.0</u>
* <u>004-B DW</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓%</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> %</u>	<u> </u>	<u>1021</u>	<u>1032</u>	<u>15</u>	<u>✓</u>	<u>✓</u>	<u>0.003</u>	<u>0.150</u>

Type of activities being monitored: EXCAVATION OF R/B CONTAMINATED SOIL; DW=DOWNWIND, DW=UPWIND, HS=HAND EXCAVATION.START EXCAVATION @ 0800. 1105; CHANGE OUT ROLL OFF BOX; 1130 LOAD UP DOZER. LUNCH 1250-1300. 1300-1345 SET UP WORK AREATO EXCAVATE AROUND UGL'S. START EXCAVATION @ 1349. STOP FOR DAY @ 1630 SECURE SITE AGAINST RAIN.Additional field comments: 'K' = 0.001 ng/m³; 2100 = 2 * = UPWIND BACKGROUND



PHILIP ENVIRONMENTAL SERVICES CORP.
Real-Time Dust Monitoring Data Sheet
(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: 2

Project Number: _____

Project Name: _____

Agents Being Monitored:

Location: _____

Date of Monitoring: _____

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Submitted By: _____

Site Safety Coordinator: _____

(2)

Wind Speed: _____

Wind Direction: _____

Precipitation Amounts: _____

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Adjustments		"S" Value	Zero Reading	Sensitivity Adjustments		"S" Value	In military time			In mg/m ³			
			% from "S" Value	% from "S" Value			% from "S" Value	% from "S" Value		Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
004-A HK		↓	↓	↓ %	↓		↓	↓ %		1045	1050	5	N/A	N/A	0.010	5.0
005-B DW		↓	↓	↓ %	↓		↓	↓ %		1348	1403	15	↓	↓	0.014	0.150
005-A		↓	↓	↓ %	↓		↓	↓ %		1409	1414	5	↓	↓	0.016	5.0
006-B DW		↓	↓	↓ %	↓		↓	↓ %		1445	1500	15	↓	↓	0.012	0.150
006-A		↓	↓	↓ %	↓		↓	↓ %		1504	1509	5	↓	↓	0.025	5.0
007-B DW		↓	↓	↓ %	↓		↓	↓ %		1538	1553	15	↓	↓	0.022	0.150
007-A		↓	↓	↓ %	↓		↓	↓ %		1554	1559	5	↓	↓	0.018	5.0
008-A		↓	↓	↓ %	↓	2	649	7.4 %	640	1620	1625	5	↓	↓	0.013	5.0

Type of activities being monitored: _____

Additional field comments: _____



LABORATORY ANALYSIS REPORT

Client : Philip Environmental Services Corp.

Site : NS

Date Sampled : 02-AUG-97

Date Received : 05-AUG-97

Project No.: 18172

Account No.: 13148

Login No. : L38325

Polychlorinated Biphenyls

<u>Sample ID</u>	<u>Lab ID</u>	<u>Air Vol</u> <u>l</u>	<u>Filter</u> <u>ug</u>	<u>Front</u> <u>ug</u>	<u>Back</u> <u>ug</u>	<u>Total</u> <u>ug</u>	<u>ug/m3</u>
VW004	L38325-1	51.3	< 0.05	< 0.05	< 0.05	< 0.05	< 1
DWA004	L38325-2	53.9	< 0.05	< 0.05	< 0.05	< 0.05	< 1
DWB004	L38325-3	54.1	< 0.05	< 0.05	< 0.05	< 0.05	< 1
FB004 BLANK	L38325-4	NA	< 0.05	< 0.05	< 0.05	< 0.05	< 1

Level of quantitation: 0.05 ug
Analytical Method : NIOSH 5503; GC/ECD
OSHA PEL (TWA) : 1 mg/m3
Collection Media : Filter & Tube

Submitted by: H Eckerlin
Approved by : ggs
Date : 06-AUG-97
QC by: *[Signature]*
NYS DOH # : 11626

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	





Gaison

Laboratories

6601 Kirkville Road

P.O. Box 369

E. Syracuse, NY 13057

Tel: (315) 437-7252 888- 577-Labs (5227)

Fax: (315) 437-0571

Request For Industrial Hygiene Analysis

Company Name:

PHILIP SERVICES

Sampled By:

T. J. FERRER

Project #:

18172

Send Report to:

PHILIP SERVICES

3010 GREENS RD.

HOUSTON, TEXAS 77032

ATTN: STEVE BRIGGS

Invoice to:

PHILIP SERVICES

3010 GREENS RD.

HOUSTON, TEXAS, 77032

P.O. #:

66810

☐ Standard Turn-around Time

OR

☒ Rush! Date and Time needed: 08 104 197 am
Advance Notification Required. See fee schedule for surcharges.

☒ Fax results to: STEVE BRIGGS

OR

☐ Phone results to:

Fax #:

(281)-442-1797

Phone #:

() - - ext

Samples collected in New York State? ☒ Y ☐ N

If yes, OSHA Compliance? Y ☒ N

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Required	Method Reference
<u>UW 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-16/6631</u>	<u>51.3</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>UW 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-39/119</u>	<u>51.3</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-16/6631</u>	<u>53.9</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-39/119</u>	<u>53.9</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-16/6631</u>	<u>54.1</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-39/119</u>	<u>54.1</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-16/6631</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB 004</u> This Space for LAB use only	<u>8/2/97</u>	<u>SKC 225-39/119</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>

* For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area):

DETECTION LIMIT TO BE 1 µg/m³ FOR

ALL ANALYSES; REPORT RESULTS IN µg/m³

Chain of Custody	Print Name	Signature	Date
Relinquished by:	<u>T. J. FERRER</u>	<u>[Signature]</u>	<u>8/2/97</u>
Received by LAB:			



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #. 1Project Number: 18192Project Name: TGA COMPRESSOR STA. 224

Agents Being Monitored:

Location: Clymer, NYDate of Monitoring: 8/2/97

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A = WORKER EXPOSURESubmitted By: TWIGSABEKSite Safety Coordinator: MIKE VARNUM(2) B = COMMUNITY EXPOSUREWind Speed: 10-30 MPHWind Direction: WESTERLYPrecipitation Amounts: NONE DURING MONITORING

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	In military time			In mg/m ³			
										Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
PRE-SAMPLE ZEROING	0621317	2	638	0.31 %	640	—	—	— %	—	—	—	—	—	—	—	—
001-B DW				%				%		0805	0820	15	N/A	N/A	0.061	0.150
001-A				%				%		0822	0827	5			0.066	5.0
* 002-B UW				%				%		0834	0849	15			0.068	0.150
002-A				%				%		0900	0905	5			0.072	5.0
003-A				%				%		0928	0933	5			0.062	5.0
003-B DW				%				%		0941	0956	15			0.068	0.150
004-A				%				%		1006	1011	5	✓	✓	0.119	5.0

Type of activities being monitored: EXCAVATE PCB CONTAMINATED SOIL. DW = DOWNWIND, UW = UPWIND, HS = HAND EXCAVATION. STARTEXCAVATION 0755; FINISH FILLING ROLLOFF BOX ~ 1040. LUNCH 1100-1200. 1200 CHANGE OUT & SWAP ROLLOFF BOXES. BEGIN EXCAVATING@ 1240. BREAK 1400-1415. FINISH EXCAVATION @ 1520. * = UPWIND BACKGROUND READINGS.Additional field comments: ZERO = 2; K = 0.001 mg/m³ POST-RUN CALIBRATION - 17.5% FROM 'S' VALUE; INSTRUMENT WAS READING HIGH.

Project Number: _____

Project Name: _____

Location: _____

Date of Monitoring: 8/2/97

Submitted By: _____

Site Safety Coordinator: _____

Wind Speed: _____

Wind Direction: _____

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Agents Being Monitored:

(2)

(3)

Precipitation Amounts: _____

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	In military time			In mg/m ³			
										Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
* 004-B	062137			%				%		1112	1127	15	N/A	N/A	0.057	0.150
005-B DW				%				%		1242	1257	15			0.046	0.150
005-A HS				%				%		1304	1309	5			0.057	5.0
006-A HS				%				%		1330	1335	5			0.050	5.0
006-B DW				%				%		1343	1358	15			0.061	0.150
007-B DW				%				%		1431	1449	15			0.054	0.150
007-A				%				%		1454	1459	5			0.064	5.0
POST-RUN CAL	✓			%		2	752	17.5 %	640				↓	↓		

Type of activities being monitored: _____

Additional field comments: _____

CALIBRATION INFORMATION

8/2/97

Pump Serial Number	Pre-Flow Calibration (LPM)				Post-Flow Calibration (LPM)				Net Average Flow (LPM)
	Test 1	Test 2	Test 3	Average	Test 1	Test 2	Test 3	Average	
S-0653 DWA004 GILIAN HFS113A S/N 24185	0.0862	0.0863	0.0862	0.0862	0.0853	0.0853	0.0854	0.0853	0.0858
S-0655 DWB004 GILIAN HFS113A S/N 24186	0.0893	0.0893	0.0894	0.0894	0.0833	0.0835	0.0836	0.0835	0.0865
S-0654 UW004 GILIAN HFS113A S/N 24187	0.0897	0.0897	0.0899	0.0897	0.0787	0.0789	0.0790	0.0789	0.0843 *
UW004 SKC # 511704	0.0902	0.0902	0.0920	0.0908	0.0872	0.0873	0.0874	0.0873	0.0891 *

* UPWIND SAMPLE UW004, PUMP FOUND FAILED 491 MEN INTO SAMPLE RUN @ 1455. PUMP RESTARTED 5x BETWEEN 1455-1502; RAN FOR 1 MIN. EACH TIME. PUMP HAS RUN 496 MEN. TOT. PUMP REPLACED W/ SKC # 511704 TO FINISH RUN @ 1510 STOP @ 1656

SAMPLING DATA

Sample ID #	Employee Name	*Employee Number	Start Time	Stop Time	Total Run Time	Flow Rate	Volume (Liters)
UW004	UPWIND OF EXCAVATION	N/A	0654	— SEE BELOW —	—	—	51.3
DWA004	DOWNWIND OF EXCAVATION	N/A	0653	1657	629 MEN	0.0858	54. 53.9
DWB004	DOWNWIND OF EXCAVATION	N/A	0655	1658	625 MEN	0.0865	54.1
FB004	FIELD BLANK	N/A	—	—	—	—	—
UW004	UPWIND OF EXCAVATION	GILIAN # 24187	- SEE NOTES -		496 MEN	0.0843	41.8
		SKC # 511704			107 MEN	0.0891	9.5
							51.3 TOT

* Use Social Security Number for non-PLUC employees

ENCLOSURE

PERSONNEL SAMPLING LOG SHEET

Project Name: TEPL COMPRESSOR STA. 274
CLYMER, NY

Project Number: 18172

Project Description: EXCAVATE PCB CONTAMINATED SOIL - COMMUNITY MONITORING

Site Safety Officer: MIKE VARNUM

Person Performing Sampling: T. WEISBERG

Background Data

Average Temperature During Monitoring Period: ~ 70°F

Relative Humidity: —

Average Wind Speed: 10-30 mph

Any precipitation within last 24 hrs. (Yes/No): YES

Amount: TRACE

Pump Calibration Data

Manufacturer of Calibration Unit: GILFAN

Model #: P/N #800268
CELEBRATOR

Serial #: Flow Cell P/N D80026
S/N 14997-5

Comments

COMMUNITY PROTECTION MONITORING UP & DOWN WIND

Signature of Person Performing Monitoring: _____

Instructions for use:

Fill out personnel sampling form (front and back) completely. Retain original copy for your files, and make a photocopy to be placed into central files. If you are unable to complete any section of this log, please note why in the comments section. If a section is not applicable, then mark a "n/a" in that spot. This is not a replacement for a chain-of-custody form to be sent to the laboratory providing analysis (only AIHA accredited labs). It is recommended however to place a copy of the chain of custody in your sample log binder, as well as in central files.



Laboratories

6601 Kirkville Road
P.O. Box 369
E. Syracuse, NY 13057
Tel: (315) 437-7252 888-577-Labs (5227)
Fax: (315) 437-0571

Request for Industrial Hygiene Analysis

Company Name: PHILIP SERVICES

Sampled By: T. Weisbeck

Project #: 18172

Send Report to: PHILIP SERVICES
3010 GREENS RD.
HOUSTON, TX 77032
ATTN: STEVE BRIGGS

Invoice to: PHILIP SERVICES
3010 GREENS RD.
HOUSTON, TX 77032
P.O. #: 66810

☒ Standard Turn-around Time

OR

☒ Rush! Date and Time needed: 08-105-197 am
Advance Notification Required. See fee schedule for surcharges.

☒ Fax results to: STEVE BRIGGS

OR

☐ Phone results to: _____

Fax #: (281) 442-1797

Phone #: () - - ext. _____

Samples collected in New York State? ☒ Y ☐ N If yes, OSHA Compliance? Y ☒ N

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Required	Method Reference
<u>UN005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-16/6631</u>	<u>53.6</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>UN005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-39/119</u>	<u>53.6</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-16/6631</u>	<u>45.8</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-39/119</u>	<u>45.8</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-16/6631</u>	<u>64.1</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-39/119</u>	<u>64.1</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-16/6631</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB005</u> This Space for LAB use only	<u>8/4/97</u>	<u>SKC225-39/119</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>

* For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area): DETECTION LIMIT TO BE 0.0 µg/m³ FOR
ALL ANALYSTS; REPORT RESULTS IN µg/m³

Chain of Custody	Print Name	Signature	Date
Relinquished by:	<u>T. WEISBECK</u>	<u>T. Weisbeck</u>	<u>8/4/97</u>
Received by LAB:			



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: 5Project Number: 18172Project Name: TGPL COMPRESSOR STATION 224

Agents Being Monitored:

Location: CLYMER, NYDate of Monitoring: 8/4/99

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A = WORKER EXPOSURESubmitted By: T. WESSBECKSite Safety Coordinator: MIKE VARNUM(2) B = COMMUNITY EXPOSUREWind Speed: 0-15 MPHWind Direction: NORTH-NORTHEASTPrecipitation Amounts: 0.1-0.15"
OVERNIGHT.

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minutes	Low Reading	High Reading	Average Reading	Action Level
INITIAL CALIBRATION	0621317	2	635	0.18%	640	—	—	— %	—	—	—	—	—	—	—	—
001-BFWN				%			654	2.9 %	640	0820	0835	15	N/A	N/A	0.023	0.150
001-A HS				%				%		0843	0848	5			0.039	5.0
002-A				%			652	1.9 %	640	0850	0855	5			0.062	5.0
002-B DW				%				%		0912	0927	15			0.029	0.150
003-A HS				%				%		1019	1024	5			0.038	5.0
004-A				%				%		1025	1030	5			0.063	5.0
003-B DW	V			%			654	2.9 %	640	1043	1058	15	✓	✓	0.044	0.150

Type of activities being monitored: EXCAVATE PCB CONTAMINATED SOIL. DW = DOWNWIND; UW = UPWIND; HS = HAND EXCAVATIONHIGH CONTAMINANT LEVEL AREA. START EXCAVATION 0815. 0930-1000 BREAK. LUNCH 1230-1330. START AGAIN @ 1330.1530-1545 BREAK. 1545-1630 - TRAP ROLLOFF BOX & FUEL. 1630 EXCAVATE & STOCKPILE SOIL. STOP FOR DAY @ 1705.Additional field comments: ZERO = 2; K = 0.001 ug/m³ INTERIM CALIBRATION CHECKS RUN ON INSTRUMENT DUE TO PRELIMINARY PROBLEM ON 8/4.



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: 5A

Project Number: _____

Project Name: _____

Agents Being Monitored: _____

Location: _____

Date of Monitoring: 8/4/97

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Submitted By: _____

Site Safety Coordinator: _____

(2)

Wind Speed: _____

Wind Direction: _____

Precipitation Amounts: _____

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	In military time			In mg/m ³			
										Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
005-A HS	0621317			%				%		1112	1117	5	N/A	N/A	0.032	5.0
004-B DW				%				%		1128	1143	15			0.023	0.150
006-A				%				%		1145	1150	5			0.036	5.0
005-B DW		2	645	0.78%	640	—	—	—%	—	—	—	—			—	—
007-A				%		2	642	0.31%	640	1424	1439	15			0.004	0.150
008-A HS				%		2	640	0%	640	1440	1445	5			0.003	5.0
009-A HS	✓			%		2	640	0%	640	1450	1455	5			0.006	5.0
				%		2	640	0%	640	1515	1520	5	✓	✓	0.009	5.0

Type of activities being monitored: _____

Additional field comments: _____

Project Number: _____

Project Name: _____

Location: _____

Date of Monitoring: 8/4/97

Submitted By: _____

Site Safety Coordinator: _____

Wind Speed: _____

Wind Direction: _____

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Agents Being Monitored:

(2)

(3)

Precipitation Amounts: _____

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	In military time			In mg/m ³			
										Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
006 B.20	0621317			%				%		1641	1656	15	N/A	N/A	0.033	0/50
POST-RUN CALIBRATION	↓			%		2	643	0.47%	640							
				%				%								
				%				%								
				%				%								
				%				%								
				%				%								
				%				%								
				%				%								

Type of activities being monitored: _____

Additional field comments: _____

CALIBRATION INFORMATION

Pump Serial Number	Pre-Flow Calibration (LPM)				Post-Flow Calibration (LPM)				Net Average Flow (LPM)
	Test 1	Test 2	Test 3	Average	Test 1	Test 2	Test 3	Average	
UW005 SKC#511704	0.0872	0.0873	0.0874	0.0873	0.0799	0.0799	0.0798	0.0799	0.0836
DWA005* SKC#511210	0.0944	0.0943	0.0943	0.0943	0.0943	0.0947	0.0949	0.0946	0.0946
DWB005 SKC#511778	0.0954	0.0955	0.0974	0.0961	0.1042	0.1038	0.1039	0.1037	0.0999

* PUMP FLOW FAULTED DUE TO LO BATTERY @ 1700. PUMP RESTARTED, NOT ENOUGH CHARGE IN BATTERY TO RUN ANY LONGER. TOT. RUN TIME - 484 MEN

SAMPLING DATA

Sample ID #	Employee Name	*Employee Number	Start Time	Stop Time	Total Run Time	Flow Rate	Volume (Liters)
UW005	UPWIND OF EXCAVATION	N/A	0914	1459	643 MEN	0.0836	53.6
* DWA005	DOWNWIND OF EXCAVATION	N/A	1015	1319	484 MEN	0.0946	45.8
DWB005	DOWNWIND OF EXCAVATION	N/A	1216	1756	642 MEN	0.0999	64.1
FB005	FIELD BLANK	N/A	—	—	—	—	—

* Use Social Security Number for non-PLINC employees

PROJ001.DOC

PERSONNEL SAMPLING LOG SHEET

Project Name: TGPL COMPRESSOR STA. 224
CLYMER, NY

Project Number: 18172

Project Description: EXHAUST P/B CONTAMINATED SOIL - COMMUNITY PROTECTION

Site Safety Officer: MIKE VARNUM

Person Performing Sampling: TWEESBELL

Background Data

Average Temperature During Monitoring Period: ~70°F

Relative Humidity: _____

Average Wind Speed: 0-20 MPH

Any precipitation within last 24 hrs. (Yes/No): YES

Amount: 0.1-0.15"

Pump Calibration Data

Manufacturer of Calibration Unit: GILIAN

Model #: P/N #800268
GILIANATOR

Serial #: FWCCELL P/N 285026
S/N 14997-5

Comments

UP & DOWN WIND COMMUNITY PROTECTION MONITORING

Signature of Person Performing Monitoring: [Signature]

Instructions for use:

Fill out personnel sampling form (front and back) completely. Retain original copy for your files, and make a photocopy to be placed into central files. If you are unable to complete any section of this log, please note why in the comments section. If a section is not applicable, then mark a "n/a" in that spot. This is not a replacement for a chain-of-custody form to be sent to the laboratory providing analysis (only AIHA accredited labs). It is recommended however to place a copy of the chain of custody in your sample log binder, as well as in central files.

**GARRISON****Laboratories**

6601 Kirkville Road

P.O. Box 369

E. Syracuse, NY 13057

Tel: (315) 437-7252 888-577-Labs (5227)

Fax: (315) 437-0571

Request for Industrial Hygiene Analysis

Company Name:

PHILIP SERVICES

Sampled By:

T. WEISBERG

Project #:

18172

Send Report to:

PHILIP SERVICES

Invoice to:

PHILIP SERVICES3010 GREENS RD.3010 GREENS RD.HOUSTON, TX 77032HOUSTON, TX 77032ATTN: STEVE BETTLES

P.O. #:

66810☒ Standard Turn-around Time

OR

☐ Rush! Date and Time needed: 1 / 1 am
Advance Notification Required. See fee schedule for surcharges.☒ Fax results to: STEVE BETTLES

OR

☐ Phone results to: _____

Fax #:

(281)-447-1797

Phone #:

() - - ext.Samples collected in New York State? ☒ Y ☐ NIf yes, OSHA Compliance? Y ☒ N

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Required	Method Reference
<u>UW 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-16/1131</u>	<u>55.9</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>UW 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-30/119</u>	<u>55.9</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-16/1131</u>	<u>59.1</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWA 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-30/119</u>	<u>59.1</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-16/1131</u>	<u>59.7</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>DWB 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-30/119</u>	<u>59.7</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-16/1131</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>
<u>FB 006</u> This Space for LAB use only	<u>8/5/97</u>	<u>SKC 225-30/119</u>	<u>—</u>	<u>PCB's</u>	<u>NIOSH 5503</u>

* For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area): DETECTION LIMIT TO BE 1.0 µg/m³ FOR ALLANALYSES. REPORT PLEASE IN µg/m³

Chain of Custody	Print Name	Signature	Date
Relinquished by:	<u>T. Weisberg</u>	<u>[Signature]</u>	<u>8/5/97</u>
Received by LAB.			

Samples received after 2pm will be considered as next day's business



3010 Greens Road, Houston, Texas 77032
(713) 442-1794 - Phone
(713) 442-1797 - Fax

PERSONNEL SAMPLING LOG SHEET

Project Name: TGPL COMPRESSOR STA. 224
CLYMER, NY

Project Number: 18192

Project Description: ELEVATE PCB CONTAMINATED SOIL - COMMUNITY PROTECTION MONITORING

Site Safety Officer: MIKE VARNUM

Person Performing Sampling: T. WESSBKE

Background Data

Average Temperature During Monitoring Period: ~ 70°F

Relative Humidity: _____ Average Wind Speed: 0-25 mph

Any precipitation within last 24 hrs. (Yes/No): YES Amount: TRACE

Pump Calibration Data

Manufacturer of Calibration Unit: GERMAN Model #: P/N # 800268

Serial #: FLAWLESS P/N 80026
S/N 14997-5

Comments

UP & DR 1 WIND COMMUNITY PROTECTION MONITORING

Signature of Person Performing Monitoring: [Signature]

Instructions for use:

Fill out personnel sampling form (front and back) completely. Retain original copy for your files, and make a photocopy to be placed into central files. If you are unable to complete any section of this log, please note why in the comments section. If a section is not applicable, then mark a "n/a" in that spot. This is not a replacement for a chain-of-custody form to be sent to the laboratory providing analysis (only AIHA accredited labs). It is recommended however to place a copy of the chain of custody in your sample log binder, as well as in central files.

CALIBRATION INFORMATION

8/5/99

Pump Serial Number	Pre-Flow Calibration (LPM)				Post-Flow Calibration (LPM)				Net Average Flow (LPM)
	Test 1	Test 2	Test 3	Average	Test 1	Test 2	Test 3	Average	
IR-1006 ²⁴¹⁸⁸ ~~GORDAN HFS113A 24188~~	0.0859	0.0859	0.0860	0.0859	0.0858	0.0859	0.0859	0.0858	0.0857
IR-1006 ²⁴¹⁸⁶ ~~GORDAN HFS113A 24186~~	0.0874	0.0875	0.0876	0.0875	0.0865	0.0867	0.0868	0.0867	0.0871
CS-1006 SKC # 511704	0.0898	0.0900	0.0902	0.0900	0.0788	0.0788	0.0789	0.0788	0.0844

SAMPLING DATA

Sample ID #	Employee Name	*Employee Number	Start Time	Stop Time	Total Run Time	Flow Rate	Volume (Liters)
IR-1006	UPWIND OF EXCAVATION	N/A	0654	1656	662 min	0.0844	55.9
IR-1006	DOWNWIND OF EXCAVATION	N/A	0655	1657	689 "	0.0859	59.1
IR-1006	DOWNWIND OF EXCAVATION	N/A	0656	1658	685 "	0.0871	59.7
IR-1006	FIELD BLANK	N/A	—	—	—	—	—

* Use Social Security Number for non-PLHC employees

APR 1999



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: 6Project Number: 18142Project Name: TEPA CONCRETE STAIRS

Agents Being Monitored:

Location: CLYMER, NYDate of Monitoring: 8/5/97

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A = WORKER EXPOSURE

Submitted By: T. W. REISBACKSite Safety Coordinator: M. VAENUM

(2) B = COMMUNITY EXPOSURE

Wind Speed: 0-25 mphWind Direction: NORTH-NORTHEASTPrecipitation Amounts: TRACE, 0 NIGHT

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Adjustments			Zero Reading	Sensitivity Adjustments			In military time			In mg/m ³			
			Zero Reading	% from "S" Value	"S" Value		Zero Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
PRE-RUN CALIBRATION CHECK	0621317	2	644	0.63%	640	—	—	—%	—	—	—	—	—	—	—	—
CALIBRATION CHECK		2	638	0.31%	640	—	—	—%	—	—	—	—	—	—	—	—
001-B DW				%		2	643	0.49%	640	0943	0958	15	N/A	N/A	0.002	0.150
001-A				%				%		1019	1024	5			0.034	5.0
002-B DW				%		2	643	0.47%	640	1110	1025	15			0.005	0.150
002-A				%				%		1132	1137	5			0.018	5.0
003-B DW				%		2	645	0.78%	640	1146	1201	15			0.010	0.150
003-A				%				%		1222	1227	5			0.004	5.0

Type of activities being monitored: EXCAVATE PCB CONTAMINATED SOIL. DW = DOWNWIND, UW = UPWIND, HS = HAND EXCAVATION. 0830-0940SHOULDER FILLER BOXES & LOAD CURBING. EXCAVATE 0940-1025. REPAK 1025-1045. START EXCAVATION 1110, BEGIN EXCAVATION IN 5' AREA(HIGH CONC. AREA) @ 1130 TO OBTAIN SAMPLE, STOP @ 1245. LUNCH 1300-1215. START EXCAVATING @ 1430, STOP @ 1700.Additional field comments: ZERO = 2", K = 0.001 mg/m³



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: 01

Project Number: _____

Project Name: _____

Agents Being Monitored:

Location: _____

Date of Monitoring: _____

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Submitted By: _____

Site Safety Coordinator: _____

(2)

Wind Speed: _____

Wind Direction: _____

Precipitation Amounts: _____

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
004-B DW	0621317	2	646	0.94%	640			%		1432	1447	15	N/A	N/A	0.014	0.150
004-A				%				%		1451	1456	5			0.025	5.0
005-B DW				%		2	647	1.09%	640	1513	1528	15			0.003	0.150
005-A				%				%		1533	1539	5			0.022	5.0
006-B DW				%				%		1610	1625	15			0.011	0.150
006-A				%				%		1640	1645	5			0.047	5.0
POST-RUN CAL	✓			%		2	645	0.78%	640				✓	✓		
				%				%								

Type of activities being monitored: * HIGH READING ON 006-A DUE MOSTLY TO DIESEL EXHAUST

Additional field comments: _____



PHILIP ENVIRONMENTAL SERVICES CORP.

Real-Time Dust Monitoring Data Sheet

(for monitoring with the Sensidyne Laser Dust Monitor)

Project Number: 18172Project Name: TBPL COMPRESSOR STA. 224

Agents Being Monitored:

Location: CLYMER, NYDate of Monitoring: 8/6/97

Amend Agent Number to sample number

Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1) A = WORKER EXPOSURESubmitted By: T. WEISBECKSite Safety Coordinator: M. VARNUM(2) B = CONTAMINANT EXPOSUREWind Speed: 0-15 MPHWind Direction: NORTHERLYPrecipitation Amounts: NONE

(3)

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero Reading	Sensitivity Adjustments		"S" Value	Zero Reading	Sensitivity Adjustments		"S" Value	In military time			in mg/m ³			
			Reading	% from "S" Value			Reading	% from "S" Value		Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
PRE-RUN CALIBRATION	0621317	2	639	0.16 %	640	—	—	— %	—	—	—	—	—	—	—	—
001-A HS				%				%		0900	0905	5	N/A	N/A	0.006	5.0
002-A HS				%				%		0914	0919	5			0.008	5.0
003-A HS				%		2	641	0.16 %	640	0930	0935	5			0.003	5.0
001-B DW				%				%		0946	1001	15			0.015	0.150
004-A HS				%		2	647	1.1 %	640	1304	1309	5			0.002	5.0
005-A HS				%				%		1318	1323	5			0.004	5.0
006-A				%				%		1355	1410	5	✓	✓	0.040	5.0

Type of activities being monitored: EXCAVATE PCB CONTAMINATED SOIL. DW = DOWNWIND; U/W = UPWIND; HS = HAND EXCAVATIONSTART EXCAVATION @ 0900 END @ 1020. RESTART EXCAVATION @ 1300. NOTICE FROM NYSDEC TO DESCONTINUE AIR SAMPLING RETURNED @ 1530.Additional field comments: ZERO = 2; K = 0.001 mg/m³



PHILIP ENVIRONMENTAL SERVICES CORP.
Real-Time Dust Monitoring Data Sheet
(for monitoring with the Sensidyne Laser Dust Monitor)

Sample Log #: 76

Project Number: _____

Project Name: _____

Location: _____

Date of Monitoring: 8/6/99

Submitted By: _____

Site Safety Coordinator: _____

Wind Speed: _____

Wind Direction: _____

Amend Agent Number to sample number
Sample XX - 1 for nuisance dust, Sample XX - 2 for lead, (1)

Agents Being Monitored:

(2)

(3)

Precipitation Amounts: _____

Sample #	Sensidyne Serial #	Pre-Field Calibration Data				Post-Field Calibration Data				Sample Duration			Monitoring Results			
		Zero	Sensitivity Adjustments			Zero	Sensitivity Adjustments			In military time			in mg/m ³			
		Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Zero Reading	Sensitivity Reading	% from "S" Value	"S" Value	Start Time	Stop Time	Total Minuets	Low Reading	High Reading	Average Reading	Action Level
002-B DW	0621317			%				%		1401	1416	15	N/A	N/A	0.005	0.150
003-B DW				%				%		1435	1450	15			0.006	0.150
007-A				%				%		1456	1501	5			0.047	5.0
				%				%								
				%				%								
				%				%								
				%				%								
				%				%								
				%				%								
				%				%								

Type of activities being monitored: _____

Additional field comments: _____

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 5
Liquid Treatment Sampling Analytical Results

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000005

Client No.

Lab Name: Recra LabNet

Contract: _____

CARBON UNIT-1

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298401

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50207.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.17	U
11096-82-5----	Aroclor-1260	0.065	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

CARBON UNIT-2

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298402

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50208.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.12	U
11096-82-5----	Aroclor-1260	0.065	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000005

Client No.

T-1287-1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298501

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: 0A50209.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/26/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.63	U
11096-82-5----	Aroclor-1260	0.065	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

T-1696-1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298502

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50210.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/L</u>	<u>Q</u>
12674-11-2----	Aroclor-1016		0.065	U
11104-28-2----	Aroclor-1221		0.065	U
11141-16-5----	Aroclor-1232		0.065	U
53469-21-9----	Aroclor-1242		0.065	U
12672-29-6----	Aroclor-1248		0.065	U
11097-69-1----	Aroclor-1254		0.091	U
11096-82-5----	Aroclor-1260		0.065	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000007

Client No.

T-1696-2

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298503

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50211.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND	UG/L	Q
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.077	U
11096-82-5----	Aroclor-1260	0.065	U

EL PASO ENERGY
METHOD 8080 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000 6

Client No.

T-1442-1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A7301602

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50249.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/28/97 08/29/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/30/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND	UG/L	Q
12674-11-2----	Aroclor-1016	0.065	805
11104-28-2----	Aroclor-1221	0.065	805
11141-16-5----	Aroclor-1232	0.065	805
53469-21-9----	Aroclor-1242	0.065	805
12672-29-6----	Aroclor-1248	0.065	805
11097-69-1----	Aroclor-1254	1.3	2
11096-82-5----	Aroclor-1260	0.065	805

DS

EL PASO ENERGY
METHOD 8080 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000 5

Client No.

T-E1560

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A7301601

Lab File ID: QA50248.TX0

Date Samp/Recv: 08/28/97 08/29/97

Date Extracted: 08/30/97

Date Analyzed: 09/02/97

Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Sample wt/vol: 1000.00 (g/mL) ML

% Moisture: _____ decanted: (Y/N) N

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Concentrated Extract Volume: 10000 (uL)

Injection Volume: 1.00 (uL)

GPC Cleanup: (Y/N) N pH: 7.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

0.065
0.065
0.065
0.065
0.065
0.12
0.065

U
U
U
U
U
N
U

DS
12/15/97

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000004

Client No.

224-WATER-DISCHARGE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7304301

Sample wt/vol: 5.64 (g/mL) G

Lab File ID: QA50328.TX0

% Moisture: 29.0 decanted: (Y/N) N

Date Samp/Recv: 08/29/97 09/03/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/04/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 09/04/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 6
Initial Topsoil, General Backfill, and Gravel Analytical Results
(Including a Certification Letter for Gravel)

EL PASO ENERGY
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

0014

Client No.

T-BACKFILL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260401

Sample wt/vol: 5.22 (g/mL) G

Lab File ID: H4188.RR

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: not dec. 11.3 Heated Purge: Y Date Analyzed: 07/30/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	-----Chloromethane	11		U
74-83-9	-----Bromomethane	11		U
75-01-4	-----Vinyl Chloride	11		U
75-00-3	-----Chloroethane	11		U
75-09-2	-----Methylene Chloride	3		BJ
67-64-1	-----Acetone	11		U
75-15-0	-----Carbon Disulfide	11		U
75-35-4	-----1,1-Dichloroethene	11		U
75-34-3	-----1,1-Dichloroethane	11		U
540-59-0	-----1,2-Dichloroethene (total)	11		U
67-66-3	-----Chloroform	11		U
107-06-2	-----1,2-Dichloroethane	11		U
78-93-3	-----2-Butanone	11		U
71-55-6	-----1,1,1-Trichloroethane	11		U
56-23-5	-----Carbon Tetrachloride	11		U
75-27-4	-----Bromodichloromethane	11		U
78-87-5	-----1,2-Dichloropropane	11		U
10061-01-5	-----cis-1,3-Dichloropropene	11		U
79-01-6	-----Trichloroethene	11		U
124-48-1	-----Dibromochloromethane	11		U
79-00-5	-----1,1,2-Trichloroethane	11		U
71-43-2	-----Benzene	11		U
10061-02-6	-----trans-1,3-Dichloropropene	11		U
75-25-2	-----Bromoform	11		U
108-10-1	-----4-Methyl-2-pentanone	11		U
591-78-6	-----2-Hexanone	11		U
127-18-4	-----Tetrachloroethene	11		U
108-88-3	-----Toluene	11		U
79-34-5	-----1,1,2,2-Tetrachloroethane	11		U
108-90-7	-----Chlorobenzene	11		U
100-41-4	-----Ethyl Benzene	11		U
100-42-5	-----Styrene	11		U
1330-20-7	-----Xylenes (total)	11		U

EL PASO ENERGY
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

0015

Client No.

T-BACKFILL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260401

Sample wt/vol: 5.22 (g/mL) G

Lab File ID: H4188.RR

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: not dec. 11.3

Date Analyzed: 07/30/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q

EL PASO ENERGY
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

0016

Client No.

T-BANKGRAVEL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260402

Sample wt/vol: 5.17 (g/mL) G

Lab File ID: H4189.RR

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: not dec. 13.3 Heated Purge: Y Date Analyzed: 07/30/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	-----Chloromethane		11	U
74-83-9	-----Bromomethane		11	U
75-01-4	-----Vinyl Chloride		11	U
75-00-3	-----Chloroethane		11	U
75-09-2	-----Methylene Chloride		2	BJ
67-64-1	-----Acetone		11	U
75-15-0	-----Carbon Disulfide		11	U
75-35-4	-----1,1-Dichloroethene		11	U
75-34-3	-----1,1-Dichloroethane		11	U
540-59-0	-----1,2-Dichloroethene (total)		11	U
67-66-3	-----Chloroform		11	U
107-06-2	-----1,2-Dichloroethane		11	U
78-93-3	-----2-Butanone		11	U
71-55-6	-----1,1,1-Trichloroethane		11	U
56-23-5	-----Carbon Tetrachloride		11	U
75-27-4	-----Bromodichloromethane		11	U
78-87-5	-----1,2-Dichloropropane		11	U
10061-01-5	-----cis-1,3-Dichloropropene		11	U
79-01-6	-----Trichloroethene		11	U
124-48-1	-----Dibromochloromethane		11	U
79-00-5	-----1,1,2-Trichloroethane		11	U
71-43-2	-----Benzene		11	U
10061-02-6	-----trans-1,3-Dichloropropene		11	U
75-25-2	-----Bromoform		11	U
108-10-1	-----4-Methyl-2-pentanone		11	U
591-78-6	-----2-Hexanone		11	U
127-18-4	-----Tetrachloroethene		11	U
108-88-3	-----Toluene		11	U
79-34-5	-----1,1,2,2-Tetrachloroethane		11	U
108-90-7	-----Chlorobenzene		11	U
100-41-4	-----Ethyl Benzene		11	U
100-42-5	-----Styrene		11	U
1330-20-7	-----Xylenes (total)		11	U

EL PASO ENERGY
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

0017

Client No.

Lab Name: Recra LabNet

Contract: _____

T-BANKGRAVEL

Lab Code: RECNV Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260402

Sample wt/vol: 5.17 (g/mL) G

Lab File ID: H4189.RR

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: not dec. 13.3

Date Analyzed: 07/30/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q

EL PASO ENERGY
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

0018

Client No.

T-TOPSOIL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260403

Sample wt/vol: 5.04 (g/mL) G

Lab File ID: H4190.RR

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: not dec. 14.9 Heated Purge: Y Date Analyzed: 07/30/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	3	BJ
67-64-1	-----Acetone	12	U
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
108-88-3	-----Toluene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethyl Benzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylenes (total)	12	U

EL PASO ENERGY
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

0019

Client No.

T-TOPSOIL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL Lab Sample ID: A7260403

Sample wt/vol: 5.04 (g/mL) G Lab File ID: H4190.RR

Level: (low/med) LOW Date Samp/Recv: 07/24/97 07/29/97

% Moisture: not dec. 14.9 Date Analyzed: 07/30/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

0020

Client No.

T-BACKFILL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260401

Sample wt/vol: 30.73 (g/mL) G

Lab File ID: Y28442.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 11.3 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/KG</u>	Q
108-95-2-----	Phenol	360	U	
111-44-4-----	bis(2-Chloroethyl) ether	360	U	
95-57-8-----	2-Chlorophenol	360	U	
541-73-1-----	1,3-Dichlorobenzene	360	U	
106-46-7-----	1,4-Dichlorobenzene	360	U	
95-50-1-----	1,2-Dichlorobenzene	360	U	
95-48-7-----	2-Methylphenol	360	U	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	360	U	
106-44-5-----	4-Methylphenol	360	U	
621-64-7-----	N-Nitroso-di-n-propylamine	360	U	
67-72-1-----	Hexachloroethane	360	U	
98-95-3-----	Nitrobenzene	360	U	
78-59-1-----	Isophorone	360	U	
88-75-5-----	2-Nitrophenol	360	U	
105-67-9-----	2,4-Dimethylphenol	360	U	
111-91-1-----	bis(2-Chloroethoxy)methane	360	U	
120-83-2-----	2,4-Dichlorophenol	360	U	
120-82-1-----	1,2,4-Trichlorobenzene	360	U	
91-20-3-----	Naphthalene	360	U	
106-47-8-----	4-Chloroaniline	360	U	
87-68-3-----	Hexachlorobutadiene	360	U	
59-50-7-----	4-Chloro-3-methylphenol	360	U	
91-57-6-----	2-Methylnaphthalene	360	U	
77-47-4-----	Hexachlorocyclopentadiene	360	U	
88-06-2-----	2,4,6-Trichlorophenol	360	U	
95-95-4-----	2,4,5-Trichlorophenol	880	U	
91-58-7-----	2-Chloronaphthalene	360	U	
88-74-4-----	2-Nitroaniline	880	U	
131-11-3-----	Dimethylphthalate	360	U	
208-96-8-----	Acenaphthylene	360	U	
606-20-2-----	2,6-Dinitrotoluene	360	U	
99-09-2-----	3-Nitroaniline	880	U	

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

0021

Client No.

T-BACKFILL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260401

Sample wt/vol: 30.73 (g/mL) G

Lab File ID: Y28442.MSO

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 11.3 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	360	U	
51-28-5-----	2,4-Dinitrophenol	880	U	
100-02-7-----	4-Nitrophenol	880	U	
132-64-9-----	Dibenzofuran	360	U	
121-14-2-----	2,4-Dinitrotoluene	360	U	
84-66-2-----	Diethylphthalate	360	U	
7005-72-3-----	4-Chlorophenyl-phenyl ether	360	U	
86-73-7-----	Fluorene	360	U	
100-01-6-----	4-Nitroaniline	880	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	880	U	
86-30-6-----	N-Nitrosodiphenylamine	360	U	
101-55-3-----	4-Bromophenyl-phenylether	360	U	
118-74-1-----	Hexachlorobenzene	360	U	
87-86-5-----	Pentachlorophenol	880	U	
85-01-8-----	Phenanthrene	100	J	
120-12-7-----	Anthracene	12	J	
86-74-8-----	Carbazole	10	J	
84-74-2-----	Di-n-butylphthalate	14	J	
206-44-0-----	Fluoranthene	210	J	
129-00-0-----	Pyrene	150	J	
85-68-7-----	Butylbenzylphthalate	11	J	
91-94-1-----	3,3'-Dichlorobenzidine	360	U	
56-55-3-----	Benzo (a) anthracene	69	J	
218-01-9-----	Chrysene	97	J	
117-81-7-----	bis(2-Ethylhexyl)phthalate	220	BJ	
117-84-0-----	Di-n-octylphthalate	120	J	
205-99-2-----	Benzo (b) fluoranthene	140	J	
207-08-9-----	Benzo (k) fluoranthene	59	J	
50-32-8-----	Benzo (a) pyrene	75	J	
193-39-5-----	Indeno (1,2,3-cd) pyrene	23	J	
53-70-3-----	Dibenz (a, h) anthracene	3	J	
191-24-2-----	Benzo (g, h, i) perylene	19	J	

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

0022

Client No.

T-BACKFILL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260401

Sample wt/vol: 30.73 (g/mL) G

Lab File ID: Y28442.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 11.3 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/04/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN PHENOL	19.60	84	J
2.	UNKNOWN PHENOL	19.87	86	J
3.	UNKNOWN PHENOL	20.12	89	J
4.	UNKNOWN PHENOL	20.27	100	J
5.	UNKNOWN	23.17	510	J
6.	POSSIBLE ALCOHOL	25.27	460	J
7.	POSSIBLE ALCOHOL	25.52	89	J
8.	POSSIBLE ALCOHOL	29.07	390	J
9.	POSSIBLE ALCOHOL	31.07	670	J
10.	UNKNOWN	32.07	160	J
11.	POSSIBLE ALKANE	32.32	380	J
12.	UNKNOWN BENZENE	32.78	300	J
13.	POSSIBLE ALCOHOL	32.88	1000	J
14.	POSSIBLE ALCOHOL	33.05	180	J
15.	POSSIBLE ALKANE	34.08	290	J
16.	SATURATED HYDROCARBON	34.58	810	J
17.	POSSIBLE ALCOHOL	35.77	210	J
18.	UNKNOWN	36.22	86	J
19.	UNKNOWN	36.33	510	J
20.	PAH DERIVATIVE	36.57	340	J

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

0023

Client No.

T-BANKGRAVEL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260402

Sample wt/vol: 30.04 (g/mL) G

Lab File ID: Y28432.MSO

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 13.3 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/KG</u>	Q
108-95-2-----	Phenol		380	U
111-44-4-----	bis(2-Chloroethyl) ether		380	U
95-57-8-----	2-Chlorophenol		380	U
541-73-1-----	1,3-Dichlorobenzene		380	U
106-46-7-----	1,4-Dichlorobenzene		380	U
95-50-1-----	1,2-Dichlorobenzene		380	U
95-48-7-----	2-Methylphenol		380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)		380	U
106-44-5-----	4-Methylphenol		380	U
621-64-7-----	N-Nitroso-di-n-propylamine		380	U
67-72-1-----	Hexachloroethane		380	U
98-95-3-----	Nitrobenzene		380	U
78-59-1-----	Isophorone		380	U
88-75-5-----	2-Nitrophenol		380	U
105-67-9-----	2,4-Dimethylphenol		380	U
111-91-1-----	bis(2-Chloroethoxy)methane		380	U
120-83-2-----	2,4-Dichlorophenol		380	U
120-82-1-----	1,2,4-Trichlorobenzene		380	U
91-20-3-----	Naphthalene		380	U
106-47-8-----	4-Chloroaniline		380	U
87-68-3-----	Hexachlorobutadiene		380	U
59-50-7-----	4-Chloro-3-methylphenol		380	U
91-57-6-----	2-Methylnaphthalene		380	U
77-47-4-----	Hexachlorocyclopentadiene		380	U
88-06-2-----	2,4,6-Trichlorophenol		380	U
95-95-4-----	2,4,5-Trichlorophenol		920	U
91-58-7-----	2-Chloronaphthalene		380	U
88-74-4-----	2-Nitroaniline		920	U
131-11-3-----	Dimethylphthalate		380	U
208-96-8-----	Acenaphthylene		380	U
606-20-2-----	2,6-Dinitrotoluene		380	U
99-09-2-----	3-Nitroaniline		920	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

0024

Client No.

T-BANKGRAVEL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260402

Sample wt/vol: 30.04 (g/mL) G

Lab File ID: Y28432.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 13.3 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	UG/KG	Q
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	920	U
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenyl ether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-methylphenol	920	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	9	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	12	J
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	230	BJ
117-84-0	Di-n-octylphthalate	120	J
205-99-2	Benzo(b)fluoranthene	10	J
207-08-9	Benzo(k)fluoranthene	4	J
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

0025

Client No.

T-BANKGRAVEL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260402

Sample wt/vol: 30.04 (g/mL) G

Lab File ID: Y28432.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 13.3 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 10

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	23.10	170	BJ
2.	UNKNOWN	25.22	240	J
3.	UNKNOWN ALCOHOL	29.03	250	BJ
4.	UNKNOWN	31.05	340	J
5.	UNKNOWN	32.30	140	J
6.	UNKNOWN	32.87	460	J
7.	UNKNOWN	33.03	140	J
8.	UNKNOWN	34.07	79	J
9.	UNKNOWN	34.55	280	J
10.	UNKNOWN	36.30	380	J

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

0026

Client No.

T-TOPSOIL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260403

Sample wt/vol: 30.98 (g/mL) G

Lab File ID: Y28433.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 14.9 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl) ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-n-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy) methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	910	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	910	U
131-11-3-----	Dimethylphthalate	380	U
208-96-8-----	Acenaphthylene	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	910	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

0027

Client No.

T-TOPSOIL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260403

Sample wt/vol: 30.98 (g/mL) G

Lab File ID: Y28433.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 14.9 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	UG/KG	Q
83-32-9	Acenaphthene	18	J
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenyl ether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	170	J
120-12-7	Anthracene	40	J
86-74-8	Carbazole	21	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	280	J
129-00-0	Pyrene	210	J
85-68-7	Butylbenzylphthalate	6	J
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	99	J
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)phthalate	35	BJ
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	130	J
207-08-9	Benzo(k)fluoranthene	60	J
50-32-8	Benzo(a)pyrene	91	J
193-39-5	Indeno(1,2,3-cd)pyrene	32	J
53-70-3	Dibenz(a,h)anthracene	6	J
191-24-2	Benzo(g,h,i)perylene	24	J

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

0028

Client No.

T-TOPSOIL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7260403

Sample wt/vol: 30.98 (g/mL) G

Lab File ID: Y28433.MSO

Level: (low/med) LOW

Date Samp/Recv: 07/24/97 07/29/97

% Moisture: 14.9 decanted: (Y/N) N

Date Extracted: 07/29/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/01/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 11

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	23.13	310	BJ
2.	UNKNOWN	25.25	440	J
3.	UNKNOWN ALCOHOL	29.05	690	BJ
4.	UNKNOWN ALCOHOL	31.03	1200	J
5.	UNKNOWN	32.07	120	J
6.	UNKNOWN	32.32	630	J
7.	UNKNOWN	32.88	2100	J
8.	UNKNOWN	34.07	280	J
9.	LONG CHAIN SAT.HYDROCARBON	34.57	890	J
10.	UNKNOWN	35.77	220	J
11.	UNKNOWN	36.32	720	J

0029

EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

TBACKFILL

Lab Name: RECRA ENVIRONContract: NY7A6708Lab Code: RECNYCase No.: 150SR
224

SAS No.: _____

SDG No.: 224Matrix: (soil/water) SOILLab Sample ID: A7260401Sample wt/vol: 30.7 (g/mL) G

Lab File ID: _____

% Moisture: 11 decanted: (Y/N) NDate Received: 07/29/97Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 07/29/97Concentrated Extract Volume: 5000 (uL)Date Analyzed: 07/31/97Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) YpH: 7.2Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.6	U
72-55-9-----	4,4'-DDE	0.42	J
72-20-8-----	Endrin	3.6	U
33213-65-9-----	Endosulfan II	3.6	U
72-54-8-----	4,4'-DDD	3.6	U
1031-07-8-----	Endosulfan sulfate	3.6	U
50-29-3-----	4,4'-DDT	0.29	JP
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.6	U
7421-93-4-----	Endrin aldehyde	3.6	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	36	U
11104-28-2-----	Aroclor-1221	74	U
11141-16-5-----	Aroclor-1232	36	U
53469-21-9-----	Aroclor-1242	36	U
12672-29-6-----	Aroclor-1248	36	U
11097-69-1-----	Aroclor-1254	36	U
11096-82-5-----	Aroclor-1260	36	U

0030

EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

TBANKGRAVEL

Lab Name: RECRA ENVIRON Contract: NY7A6708

Lab Code: RECNY Case No.: 224 ^{1SDSR} SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL Lab Sample ID: A7260402

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 07/29/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/29/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/31/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.7	U
72-55-9-----	4,4'-DDE	0.32	J
72-20-8-----	Endrin	3.7	U
33213-65-9-----	Endosulfan II	3.7	U
72-54-8-----	4,4'-DDD	3.7	U
1031-07-8-----	Endosulfan sulfate	3.7	U
50-29-3-----	4,4'-DDT	3.7	U
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.7	U
7421-93-4-----	Endrin aldehyde	3.7	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	37	U
11104-28-2-----	Aroclor-1221	76	U
11141-16-5-----	Aroclor-1232	37	U
53469-21-9-----	Aroclor-1242	37	U
12672-29-6-----	Aroclor-1248	37	U
11097-69-1-----	Aroclor-1254	37	U
11096-82-5-----	Aroclor-1260	37	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

0031
EPA SAMPLE NO.

TOPSOIL

Lab Name: RECRA ENVIRON Contract: NY7A6708
 Lab Code: RECNY Case No.: 224 ^{1505e} SAS No.: _____ SDG No.: 227
 Matrix: (soil/water) SOIL Lab Sample ID: A7260403
 Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____
 % Moisture: 15 decanted: (Y/N) N Date Received: 07/29/97
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/29/97
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/31/97
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.34	JP
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	0.34	JP
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	1.4	JP
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.19	JP
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

FILL

Lab Name: RECRA_LABNET_INC. _____ Contract: NY97-109_

Lab Code: RECNY_ Case No.: 150SR SAS No.: _____ SDG No.: 224_

Matrix (soil/water): SOIL_ Lab Sample ID: AD711153

Level (low/med): LOW_ Date Received: 07/29/97

% Solids: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7490	-		P
7440-36-0	Antimony	1.4	B		P
7440-38-2	Arsenic	8.1	-		P
7440-39-3	Barium	65.9	-		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	1.4	-		P
7440-70-2	Calcium	21700	-		P
7440-47-3	Chromium	11.0	-		P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	17.9	-		P
7439-89-6	Iron	16700	-		P
7439-92-1	Lead	24.4	-		P
7439-95-4	Magnesium	3920	-		P
7439-96-5	Manganese	651	-		P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	15.7	-		P
7440-09-7	Potassium	773	B	E	P
7782-49-2	Selenium	0.94	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	441	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	12.5	-		P
7440-66-6	Zinc	81.1	-		P
	Cyanide	0.56	U		C

Color Before: BROWN_ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

LAB SAMPLE ID: A7260401-SG000022

CLIENT SAMPLE ID: T-BACKFILL

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

GRAVEL

Lab Name: RECRA_LABNET_INC. _____ Contract: NY97-109_

Lab Code: RECNY_ Case No.: 150SR SAS No.: _____ SDG No.: 224_

Matrix (soil/water): SOIL_ Lab Sample ID: AD711154

Level (low/med): LOW_ Date Received: 07/29/97

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300	—	—	P
7440-36-0	Antimony	1.3	U	—	P
7440-38-2	Arsenic	9.3	—	—	P
7440-39-3	Barium	79.6	—	—	P
7440-41-7	Beryllium	0.41	B	—	P
7440-43-9	Cadmium	1.6	—	—	P
7440-70-2	Calcium	2280	—	—	P
7440-47-3	Chromium	14.7	—	—	P
7440-48-4	Cobalt	8.9	B	—	P
7440-50-8	Copper	13.2	—	—	P
7439-89-6	Iron	21100	—	—	P
7439-92-1	Lead	17.8	—	—	P
7439-95-4	Magnesium	3050	—	—	P
7439-96-5	Manganese	584	—	—	P
7439-97-6	Mercury	0.12	U	—	CV
7440-02-0	Nickel	17.2	—	—	P
7440-09-7	Potassium	958	B	E	P
7782-49-2	Selenium	0.98	U	—	P
7440-22-4	Silver	0.23	U	—	P
7440-23-5	Sodium	449	B	—	P
7440-28-0	Thallium	1.1	U	—	P
7440-62-2	Vanadium	21.4	—	—	P
7440-66-6	Zinc	63.2	—	—	P
	Cyanide	0.57	U	—	C

Color Before: BROWN_ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

LAB_SAMPLE_ID: A7260402-SG000022

CLIENT_SAMPLE_ID: T-BANKGRAVEL

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SOIL

Lab Name: RECRA_LABNET_INC. _____ Contract: NY97-109_

Lab Code: RECNY_ Case No.: 150SR SAS No.: _____ SDG No.: 224_

Matrix (soil/water): SOIL_ Lab Sample ID: AD711155

Level (low/med): LOW_ Date Received: 07/29/97

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100	—	—	P
7440-36-0	Antimony	1.3	U	—	P
7440-38-2	Arsenic	8.8	—	—	P
7440-39-3	Barium	80.2	—	—	P
7440-41-7	Beryllium	0.24	U	—	P
7440-43-9	Cadmium	1.5	—	—	P
7440-70-2	Calcium	8390	—	—	P
7440-47-3	Chromium	11.1	—	—	P
7440-48-4	Cobalt	6.7	B	—	P
7440-50-8	Copper	13.3	—	—	P
7439-89-6	Iron	19500	—	—	P
7439-92-1	Lead	20.0	—	—	P
7439-95-4	Magnesium	2930	—	—	P
7439-96-5	Manganese	645	—	—	P
7439-97-6	Mercury	0.11	U	—	CV
7440-02-0	Nickel	13.6	—	—	P
7440-09-7	Potassium	777	B	E	P
7782-49-2	Selenium	0.99	U	—	P
7440-22-4	Silver	0.24	U	—	P
7440-23-5	Sodium	408	B	—	P
7440-28-0	Thallium	1.1	U	—	P
7440-62-2	Vanadium	18.1	—	—	P
7440-66-6	Zinc	64.0	—	—	P
	Cyanide	0.58	U	—	C

Color Before: BROWN_ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

LAB SAMPLE ID: A7260403-SG000022

CLIENT SAMPLE ID: T-TOPSOIL

El Paso Energy
Wet Chemistry Analysis

Client Sample No. **0036**

T-BACKFILL

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECONY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix (soil/water): SOIL

Lab Sample ID: A7260401

% Solids: 0.0

Date Samp/Recv: 07/24/97 07/29/97

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Leachable pH	S.U.	7.19				9045	07/30/97

Comments:

El Paso Energy
Wet Chemistry Analysis

0037

Client Sample No.

Lab Name: Recra LabNet

Contract: _____

T-BANKGRAVEL

Lab Code: REONY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix (soil/water): SOIL

Lab Sample ID: A7260402

% Solids: 0.0

Date Samp/Recv: 07/24/97 07/29/97

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Leachable pH	S.U.	6.17				9045	07/30/97

Comments:

El Paso Energy
Wet Chemistry Analysis

0038

Client Sample No.

Lab Name: Recra LabNet

Contract: _____

T-TOPSOIL

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix (soil/water): SOIL

Lab Sample ID: A7260403

% Solids: 0.0

Date Samp/Recv: 07/24/97 07/29/97

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Leachable pH	S.U.	7.04				9045	07/30/97

Comments:

EXCAVATING

GRADING

PHONE 763-5212 or 763-9797

Fax: 716-763-6329

TRI-JAMES SERVICE, INC.

SPECIALTIES - SCREENED TOP SOIL

Corner Rts. 394 & 474 - R.D. 1 - Lakewood, N.Y. 14750

August 8, 1997

Philip Services Corp.
3010 Greens Road
Houston, Texas 77032

Re: Bank gravel Delivered

Gentlemen:

Please be advised that the material referred to as
Bank run gravel is natural bank run material that has
been dug out of the ground.

To our knowledge there are no known sources of contam-
inates or hazardous materials.

This material has been used for the Route 17 expressway
now being built.

Thank you.

Pauline James, Bookkeeper
Tri-James Services, Inc.

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 7

***Secondary Topsoil and General Backfill Analytical Results
(Including Certification Letter for General Backfill)***

EL PASO ENERGY
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000014

Client No.

T-TOPSOIL-5

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7285502

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: G9024.RR

Level: (low/med) LOW

Date Samp/Recv: 08/11/97 08/15/97

% Moisture: not dec. 12.1 Heated Purge: Y

Date Analyzed: 08/18/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	11	U
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	12	
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
108-88-3	-----Toluene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethyl Benzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylenes (total)	11	U

EL PASO ENERGY
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000015

Client No.

T-TOPSOIL-5

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7285502

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: G9024.RR

Level: (low/med) LOW

Date Samp/Recv: 08/11/97 08/15/97

% Moisture: not dec. 12.1

Date Analyzed: 08/18/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

000016

Client No.

T-TOPSOIL-6

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7285503

Sample wt/vol: 30.69 (g/mL) G

Lab File ID: Z30691.RR

Level: (low/med) LOW

Date Samp/Recv: 08/11/97 08/15/97

% Moisture: 13.0 decanted: (Y/N) N

Date Extracted: 08/18/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/21/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
108-95-2	Phenol		370	U
111-44-4	bis(2-Chloroethyl) ether		370	U
95-57-8	2-Chlorophenol		370	U
541-73-1	1,3-Dichlorobenzene		370	U
106-46-7	1,4-Dichlorobenzene		370	U
95-50-1	1,2-Dichlorobenzene		370	U
95-48-7	2-Methylphenol		370	U
108-60-1	2,2'-oxybis(1-Chloropropane)		370	U
106-44-5	4-Methylphenol		370	U
621-64-7	N-Nitroso-di-n-propylamine		370	U
67-72-1	Hexachloroethane		370	U
98-95-3	Nitrobenzene		370	U
78-59-1	Isophorone		370	U
88-75-5	2-Nitrophenol		370	U
105-67-9	2,4-Dimethylphenol		370	U
111-91-1	bis(2-Chloroethoxy)methane		370	U
120-83-2	2,4-Dichlorophenol		370	U
120-82-1	1,2,4-Trichlorobenzene		370	U
91-20-3	Naphthalene		370	U
106-47-8	4-Chloroaniline		370	U
87-68-3	Hexachlorobutadiene		370	U
59-50-7	4-Chloro-3-methylphenol		370	U
91-57-6	2-Methylnaphthalene		370	U
77-47-4	Hexachlorocyclopentadiene		370	U
88-06-2	2,4,6-Trichlorophenol		370	U
95-95-4	2,4,5-Trichlorophenol		900	U
91-58-7	2-Chloronaphthalene		370	U
88-74-4	2-Nitroaniline		900	U
131-11-3	Dimethylphthalate		370	U
208-96-8	Acenaphthylene		370	U
606-20-2	2,6-Dinitrotoluene		370	U
99-09-2	3-Nitroaniline		900	U

000017

EL PASO ENERGY
ASP91-2. - SEMIVOLATILES
ANALYSIS DATA SHEET

Client No.

T-TOPSOIL-6

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNYCase No.: 150SR

SAS No.: _____

SDG No.: 224Matrix: (soil/water) SOILLab Sample ID: A7285503Sample wt/vol: 30.69 (g/mL) GLab File ID: Z30691.RRLevel: (low/med) LOWDate Samp/Recv: 08/11/97 08/15/97% Moisture: 13.0 decanted: (Y/N) NDate Extracted: 08/18/97Concentrated Extract Volume: 500 (uL)Date Analyzed: 08/21/97Injection Volume: 2.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) Y pH: 6.9CONCENTRATION UNITS:
(ug/L or ug/Kg)UG/KG

Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	370	U	
51-28-5	2,4-Dinitrophenol	900	U	
100-02-7	4-Nitrophenol	900	U	
132-64-9	Dibenzofuran	370	U	
121-14-2	2,4-Dinitrotoluene	370	U	
84-66-2	Diethylphthalate	370	U	
7005-72-3	4-Chlorophenyl-phenyl ether	370	U	
86-73-7	Fluorene	370	U	
100-01-6	4-Nitroaniline	900	U	
534-52-1	4,6-Dinitro-2-methylphenol	900	U	
86-30-6	N-Nitrosodiphenylamine	370	U	
101-55-3	4-Bromophenyl-phenylether	370	U	
118-74-1	Hexachlorobenzene	370	U	
87-86-5	Pentachlorophenol	900	U	
85-01-8	Phenanthrene	370	U	
120-12-7	Anthracene	370	U	
86-74-8	Carbazole	370	U	
84-74-2	Di-n-butylphthalate	40	J	
206-44-0	Fluoranthene	370	U	
129-00-0	Pyrene	370	U	
85-68-7	Butylbenzylphthalate	370	U	
91-94-1	3,3'-Dichlorobenzidine	370	U	
56-55-3	Benzo(a)anthracene	370	U	
218-01-9	Chrysene	370	U	
117-81-7	bis(2-Ethylhexyl)phthalate	89	BJ	
117-84-0	Di-n-octylphthalate	370	U	
205-99-2	Benzo(b)fluoranthene	370	U	
207-08-9	Benzo(k)fluoranthene	370	U	
50-32-8	Benzo(a)pyrene	370	U	
193-39-5	Indeno(1,2,3-cd)pyrene	370	U	
53-70-3	Dibenz(a,h)anthracene	370	U	
191-24-2	Benzo(g,h,i)perylene	370	U	

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000018

Client No.

T-TOPSOIL-6

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7285503

Sample wt/vol: 30.69 (g/mL) G

Lab File ID: Z30691.RR

Level: (low/med) LOW

Date Samp/Recv: 08/11/97 08/15/97

% Moisture: 13.0 decanted: (Y/N) N

Date Extracted: 08/18/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/21/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 9

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND.PRODUCT	3.58	740	ABJ
2.	OXYGENATED CMPD	3.85	280	BJ
3.	HEXENE KETONE DER	6.00	350	BJ
4.	UNKNOWN ACID	23.23	110	J
5.	UNKNOWN ALKANE	25.40	240	BJ
6.	UNKNOWN ALKANE	29.28	450	J
7.	UNKNOWN ALKANE	31.30	750	J
8.	UNKNOWN ALKANE	32.60	76	J
9.	UNKNOWN ALKANE	33.18	410	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000019
EPA SAMPLE NO.

TTOPSOIL4

Lab Name: RECRA ENVIRON Contract: NY7A6708

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL Lab Sample ID: A7285501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 08/15/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/18/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SOIL-7

Lab Name: RECRA_LABNET_INC. _____ Contract: NY97-109 _____

Lab Code: RECNY_ Case No.: 150SR SAS No.: _____ SDG No.: 224_

Matrix (soil/water): SOIL_ Lab Sample ID: AD712066

Level (low/med): LOW_ Date Received: 08/15/97

% Solids: 87.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100	-		P
7440-36-0	Antimony	2.6	B	N	P
7440-38-2	Arsenic	21.8	-	*	P
7440-39-3	Barium	74.1	-	E	P
7440-41-7	Beryllium	0.46	B		P
7440-43-9	Cadmium	0.35	B		P
7440-70-2	Calcium	6820	-	*	P
7440-47-3	Chromium	12.0	-	E	P
7440-48-4	Cobalt	10.4	B		P
7440-50-8	Copper	22.4	-		P
7439-89-6	Iron	20200	-		P
7439-92-1	Lead	20.2	-		P
7439-95-4	Magnesium	2960	-		P
7439-96-5	Manganese	835	-		P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	17.7	-		P
7440-09-7	Potassium	1030	B	E	P
7782-49-2	Selenium	1.7	-	*	P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	442	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	22.3	-		P
7440-66-6	Zinc	64.3	-		P
	Cyanide	0.73	-		C

Color Before: BROWN_ Clarity Before: _____ Texture: FINE_

Color After: YELLOW_ Clarity After: CLEAR_ Artifacts: _____

Comments:

LAB SAMPLE ID: A7285504-SG000022

CLIENT SAMPLE ID: T-TOPSOIL-7

REDIGESTION NUMBER: AD712202

EL PASO ENERGY
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

00007

Client No.

T-BACKFILL-6

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275103

Sample wt/vol: 5.07 (g/mL) G

Lab File ID: G8875.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: not dec. 15.8 Heated Purge: Y Date Analyzed: 08/08/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

UG/KG

Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	10	BJ
67-64-1-----	Acetone	12	U
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
108-88-3-----	Toluene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethyl Benzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylenes (total)	12	U

EL PASO ENERGY
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000008
Client No.

T-BACKFILL-6

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275103

Sample wt/vol: 5.07 (g/mL) G

Lab File ID: G8875.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: not dec. 15.8

Date Analyzed: 08/08/97

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

000009

Client No.

T-BACKFILL-5

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275102

Sample wt/vol: 30.05 (g/mL) G

Lab File ID: Z30574.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: 17.9 decanted: (Y/N) N

Date Extracted: 08/08/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/12/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.

COMPOUND

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	970	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	970	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	970	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

000010

Client No.

T-BACKFILL-5

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275102

Sample wt/vol: 30.05 (g/mL) G

Lab File ID: Z30574.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: 17.9 decanted: (Y/N) N

Date Extracted: 08/08/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/12/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.

COMPOUND

UG/KG

Q

83-32-9-----	Acenaphthene	400	U
51-28-5-----	2,4-Dinitrophenol	970	U
100-02-7-----	4-Nitrophenol	970	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenyl ether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	970	U
534-52-1-----	4,6-Dinitro-2-methylphenol	970	U
86-30-6-----	N-Nitrosodiphenylamine	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	970	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	400	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	240	J
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000011

Client No.

T-BACKFILL-5

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275102

Sample wt/vol: 30.05 (g/mL) G

Lab File ID: Z30574.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: 17.9 decanted: (Y/N) N

Date Extracted: 08/08/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/12/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 18

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN PENTENE DER	3.16	130	J
2.	SUSPECTED ALDOL COND.PRODUCT	4.11	2700	AJ
3.	OXYGENATED CMPD	4.33	320	J
4.	CYCLOHEXEN-1-OL ISOMER	5.06	82	BJ
5.	CYCLOHEXENE-1-ONE ISOMER	5.96	110	BJ
6.	HEXENE DER	6.40	180	BJ
7.	UNKNOWN	9.88	130	BJ
8.	UNKNOWN ACID	16.81	90	J
9. 57-10-3	HEXADECANOIC ACID	23.73	380	JN
10.	UNKNOWN PAH DER	25.48	88	J
11.	UNKNOWN ACID	25.88	490	J
12.	UNKNOWN	25.96	420	J
13.	UNKNOWN	26.30	97	J
14.	UNKNOWN ALKANE	27.60	110	J
15.	UNKNOWN	28.46	85	J
16.	UNKNOWN ALKANE	29.76	710	BJ
17.	UNKNOWN ALKANE	31.80	120	J
18.	UNKNOWN ALKANE	35.46	200	J

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

000012

Client No.

T-BACKFILL-5RE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275102RE

Sample wt/vol: 30.24 (g/mL) G

Lab File ID: Z30641.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: 17.9 decanted: (Y/N) N

Date Extracted: 08/13/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/15/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

UG/KG

Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy) methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	970	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	970	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	970	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
ANALYSIS DATA SHEET

000013

Client No.

T-BACKFILL-5RE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275102RE

Sample wt/vol: 30.24 (g/mL) G

Lab File ID: Z30641.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: 17.9 decanted: (Y/N) N

Date Extracted: 08/13/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/15/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

UG/KG

Q

83-32-9-----	Acenaphthene	400	U
51-28-5-----	2,4-Dinitrophenol	970	U
100-02-7-----	4-Nitrophenol	970	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenyl ether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	970	U
534-52-1-----	4,6-Dinitro-2-methylphenol	970	U
86-30-6-----	N-Nitrosodiphenylamine	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	970	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	400	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	400	U
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U

EL PASO ENERGY
ASP91-2 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000014

Client No.

T-BACKFILL-5RE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275102RE

Sample wt/vol: 30.24 (g/mL) G

Lab File ID: Z30641.RR

Level: (low/med) LOW

Date Samp/Recv: 08/07/97 08/07/97

% Moisture: 17.9 decanted: (Y/N) N

Date Extracted: 08/13/97

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 08/15/97

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 6

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND. PRODUCT	3.98	160	ABJ
2.	OXYGENATED CMPD	4.25	340	BJ
3. 57-10-3	HEXADECANOIC ACID	23.70	500	BJN
4.	UNKNOWN ACID	25.85	290	BJ
5.	UNKNOWN ALCOHOL	29.71	500	BJ
6.	UNKNOWN ALKANE	35.46	130	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000015
EPA SAMPLE NO.

BACKFILL4

Lab Name: RECRA ENVIRON Contract: NY7A6708

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL Lab Sample ID: A7275101

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 08/07/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/08/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/15/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

00016

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACKFILL4RE

Lab Name: RECRA ENVIRON Contract: NY7A6708

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL Lab Sample ID: A7275101RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 08/07/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/18/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 4.5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

000018

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

FILL-7

Lab Name: RECRA_LABNET_INC. _____ Contract: NY97-109 _____

Lab Code: RECNY _____ Case No.: 6708 _____ SAS No.: _____ SDG No.: 224 _____

Matrix (soil/water): SOIL _____ Lab Sample ID: AD711712

Level (low/med): LOW _____ Date Received: 08/07/97

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14000	—	—	P
7440-36-0	Antimony	2.6	U	N	P
7440-38-2	Arsenic	18.8	—	—	P
7440-39-3	Barium	77.8	—	—	P
7440-41-7	Beryllium	0.63	B	—	P
7440-43-9	Cadmium	0.24	U	—	P
7440-70-2	Calcium	510	B	E	P
7440-47-3	Chromium	16.4	—	—	P
7440-48-4	Cobalt	10.7	B	—	P
7440-50-8	Copper	17.9	—	—	P
7439-89-6	Iron	27800	—	—	P
7439-92-1	Lead	15.6	—	—	P
7439-95-4	Magnesium	3070	—	—	P
7439-96-5	Manganese	880	—	—	P
7439-97-6	Mercury	0.12	U	—	CV
7440-02-0	Nickel	22.5	—	—	P
7440-09-7	Potassium	1090	B	—	P
7782-49-2	Selenium	2.0	—	—	P
7440-22-4	Silver	0.24	U	N	P
7440-23-5	Sodium	518	B	—	P
7440-28-0	Thallium	1.0	U	—	P
7440-62-2	Vanadium	24.4	—	—	P
7440-66-6	Zinc	81.8	—	—	P
	Cyanide	0.53	U	—	C

Color Before: BROWN _____ Clarity Before: _____ Texture: COARSE

Color After: COLORLESS _____ Clarity After: CLEAR _____ Artifacts: _____

Comments:

LAB SAMPLE ID: A7275104-SG000022 _____

CLIENT SAMPLE ID: T-BACKFILL-7 _____

REDIGESTION NUMBER: AD711802 _____

Hoover Sand & Gravel Co., Inc.
P.O. Box 237
Wattsburg, PA 16442
February 26, 1998

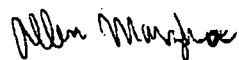
Philips Service Corporation
3010 Greens Road
Houston, Texas 77032

RE: Tenneco Remediation
Clymer, New York

Gentlemen:

The cover material supplied by Hoover Sand & Gravel for your project in Clymer, New York is natural undisturbed overburdened removed from our gravel deposits at our Wattsburg, Pennsylvania facility. If you have any questions or I can be of any further assistance, feel free to contact me at (814) 739-9477.

Sincerely,



Project Manager

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 8
Compressor Station 229 Topsoil Analytical Results
(Including Certification Letter)

Date: 08/20/97
Time: 14:17:51

EL PASO ENERGY
ANALYTICAL RESULTS/CHRONOLOGY

Repts: A80565
Page: 1

SDG: 22910P		Client Sample ID: TOP501L					
		Job Number & Lab Sample ID: A97-2/82 A7278201					
		Sample Date: 08/11/97					
		TCLP Date/HT Met:					
		Extraction Date/HT Met: 08/12/97 16:00 YES					
		Analysis Date/HT Met: 08/14/97 17:09 YES					
		Dilution Factor: 1.0					
Analyte	(UG/KG)	RL	Result				
ASP91-2 - SEMIVOLATILES							
Phenol		330	360 U				
bis(2-Chloroethyl) ether		330	360 U				
2-Chlorophenol		330	360 U				
1,3-Dichlorobenzene		330	360 U				
1,4-Dichlorobenzene		330	360 U				
1,2-Dichlorobenzene		330	360 U				
2-Methylphenol		330	360 U				
2,2'-oxybis(1-Chloropropane)		330	360 U				
4-Methylphenol		330	360 U				
N-Nitroso-di-n-propylamine		330	360 U				
Hexachloroethane		330	360 U				
Nitrobenzene		330	360 U				
Isophorone		330	360 U				
2-Nitrophenol		330	360 U				
2,4-Dimethylphenol		330	360 U				
bis(2-Chloroethoxy)methane		330	360 U				
2,4-Dichlorophenol		330	360 U				
1,2,4-Trichlorobenzene		330	360 U				
Naphthalene		330	360 U				
4-Chloroaniline		330	360 U				
Hexachlorobutadiene		330	360 U				
4-Chloro-3-methylphenol		330	360 U				
2-Methylnaphthalene		330	360 U				
Hexachlorocyclopentadiene		330	360 U				
2,4,6-Trichlorophenol		330	360 U				
2,4,5-Trichlorophenol		800	870 U				
2-Chloronaphthalene		330	360 U				
2-Nitroaniline		800	870 U				
Dimethylphthalate		330	360 U				
Acenaphthylene		330	360 U				
2,6-Dinitrotoluene		330	360 U				
3-Nitroaniline		800	870 U				
Acenaphthene		330	360 U				
2,4-Dinitrophenol		800	870 U				
4-Nitrophenol		800	870 U				
Dibenzofuran		330	360 U				
2,4-Dinitrotoluene		330	360 U				
Diethylphthalate		330	360 U				
4-Chlorophenyl-phenyl ether		330	360 U				

* Indicates Result is Outside QC Limits
NA = Not Applicable

Recre LabNet

003/012

Date: 08/20/97
Time: 14:18:40EL PASO ENERGY
ANALYTICAL RESULTS/CHRONOLOGYRept: AH0565
Pages: 2

SOG: 22910P		Client Sample ID: TOPSOIL					
Job Number & Lab Sample ID: A97-2782 A7278201		Sample Date: 08/11/97					
TCLP Date/HT Met:		Extraction Date/HT Met: 08/12/97 16:00 YES					
Analysis Date/HT Met: 08/14/97 17:09 YES		Dilution Factor: 1.0					
Analyte	(UG/KG)	RL	Result				
ASPP1-2 - SEMIVOLATILES							
Fluorene	330	360	U				
4-Nitroaniline	800	870	U				
4,6-Dinitro-2-methylphenol	800	870	U				
N-Nitrosodiphenylamine	330	360	U				
4-Bromophenyl-phenylether	330	360	U				
Hexachlorobenzene	330	360	U				
Pentachlorophenol	800	870	U				
Phenanthrene	330	46	J	✓			
Anthracene	330	350	U				
Carbazole	330	360	U				
Di-n-butylphthalate	330	360	U				
Fluoranthene	330	95	J	✓			
Pyrene	330	90	J	✓			
Butylbenzylphthalate	330	360	U				
3,3'-Dichlorobenzidine	330	360	U				
Benzo(a)anthracene	330	38	J	✓			
Chrysene	330	49	J	✓			
bis(2-Ethylhexyl)phthalate	330	360	U				
Di-n-octylphthalate	330	360	U				
Benzo(b)fluoranthene	330	360	U				
Benzo(k)fluoranthene	330	360	U				
Benzo(a)pyrene	330	360	U				
Indeno(1,2,3-cd)pyrene	330	360	U				
Oibenzo(a,h)anthracene	330	360	U				
Benzo(g,h,i)perylene	330	360	U				
INTERNAL STANDARDS							
1,4-Dichlorobenzene-D4	50-200	77					
Naphthalene-D8	50-200	74					
Acenaphthene-D10	50-200	75					
Phenanthrene-D10	50-200	79					
Chrysene-D12	50-200	64					
Perylene-D12	50-200	83					
SURROGATES							
Nitrobenzene-d5	23-120	88					
2-Fluorobiphenyl	30-115	88					
Terphenyl-d14	18-137	88					
Phenol-d5	24-103	87					
2-Fluorophenol	25-121	72					
2,4,6-Tribromophenol	19-122	85					

* Indicates Result is Outside QC Limits
NA = Not Applicable

Regra LabNet

08/20/97 15:03

004/012

Date: 08/20/97
Time: 14:18:09EL PASO ENERGY
ANALYTICAL RESULTS/CHRONOLOGYRept: AN0565
Page: 3

SDG: 22910P		Client Sample ID: TOPSOIL					
		Job Number & Lab Sample ID: A97-2762 A7270201					
		Sample Date: 08/11/97					
		TCLP Date/HT Met: -					
		Extraction Date/HT Met: 08/12/97 16:00 YES					
		Analysis Date/HT Met: 08/14/97 17:09 YES					
		Dilution Factor: 1.0					
Analyte	(UG/KG)	RL	Result				
ASP91-2 - SEMIVOLATILES							
2-Chlorophenol-d4		20-130	83				
1,2-Dichlorobenzene-d4		20-130	78				

		TCLP Date/HT Met: -					
		Extraction Date/HT Met: -					
		Analysis Date/HT Met: 08/16/97 16:02 YES					
		Dilution Factor: 1.0					
Analyte	(UG/KG)	RL	Result				
ASP91-1 - VOLATILES							
Chloromethane		10	11 U				
Bromomethane		10	11 U				
Vinyl Chloride		10	11 U				
Chloroethane		10	11 U				
Methylene Chloride		10	4 U	←	✓		
Acetone		10	11 U				
Carbon Disulfide		10	11 U				
1,1-Dichloroethene		10	11 U				
1,1-Dichloroethane		10	11 U				
1,2-Dichloroethene (total)		10	11 U				
Chloroform		10	11 U				
1,2-Dichloroethane		10	11 U				
2-Butanone		10	11 U				
1,1,1-Trichloroethane		10	11 U				
Carbon Tetrachloride		10	11 U				
Bromodichloromethane		10	11 U				
1,2-Dichloropropane		10	11 U				
cis-1,3-Dichloropropene		10	11 U				
Trichloroethene		10	3 U	←	✓		
Dibromochloromethane		10	11 U				
1,1,2-Trichloroethane		10	11 U				
Benzene		10	11 U				
trans-1,3-Dichloropropene		10	11 U				
Bromoform		10	11 U				
4-Methyl-2-pentanone		10	11 U				
2-Hexanone		10	11 U				

* Indicates Result is Outside of Limits
NA = Not Applicable

Recre LabNet

08/20/97 15:03

005/012

Date: 08/20/97
Time: 14:18:16

EL PASO ENERGY
ANALYTICAL RESULTS/CHRONOLOGY

Rept: AN0565
Page: 4

SDG: 22910P		Client Sample ID: IOP501L					
		Job Number & Lab Sample ID: A97-2782 A7278201					
		Sample Date: 08/11/97					
		TCLP Date/HT Met: -					
		Extraction Date/HT Met: -					
		Analysis Date/HT Met: 08/16/97 16:02 YES					
		Dilution Factor: 1.0					
Analyte	(UG/KG)	RL	Result				
ASP01-1 - VOLATILES							
Tetrachloroethene	10	11	U				
Toluene	10	11	U				
1,1,2,2-Tetrachloroethane	10	11	U				
Chlorobenzene	10	11	U				
Ethyl Benzene	10	11	U				
Styrene	10	11	U				
Xylenes (total)	10	11	U				
INTERNAL STANDARDS							
Bromochloromethane	50-200	103					
1,4-Difluorobenzene	50-200	90					
Chlorobenzene-05	50-200	75					
SURROGATES							
Toluene-d8	84-138	108					
4-Bromofluorobenzene-d4	59-113	90					
1,2-Dichloroethane-d4	70-121	98					

6

08/20/97 15:04

* Indicates Result is Outside QC Limits
NA = Not Applicable

Recre LabNet

ID PESTICIDE ORGANICS ANALYSIS DATA SHEET

TOPSOIL

Lab Name: RACRA ENVIRON Contract: NY7A6708 SDG No.: 229TCE
 Lab Code: RECNY Case No.: 151SR SAS No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: A7278201
 Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____
 % Moisture: 0 decanted: (Y/N) N Date Received: 08/11/97
 Extraction: (Sep/Cont/Scrs) SONC Date Extracted: 08/14/97
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/20/97
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	0.21	JP ✓
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	0.98	JP ✓
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	3.2	U
60-57-1	Dieldrin	29	U
72-55-9	4,4'-DDE	3.2	U
72-20-8	Endrin	3.2	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	3.2	U
1031-07-8	Endosulfan sulfate	54	U
50-29-3	4,4'-DDT	0.88	U
72-43-5	Methoxychlor	3.2	U
53494-70-5	Endrin ketone	3.2	U
7421-93-4	Endrin aldehyde	5.0	U
5103-71-9	alpha-Chlordane	3.7	U
5103-74-2	gamma-Chlordane	170	U
8001-35-2	Toxaphene	32	U
12674-11-2	Aroclor-1016	65	U
11104-28-2	Aroclor-1221	32	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	32	U
12672-29-6	Aroclor-1248	32	U
11097-69-1	Aroclor-1254	32	U
11096-82-5	Aroclor-1260	32	U

3/90

FORM I PEST

95%

P.22

AUG-21-1997 05:38

Date: 08/20/97
Time: 16:37:06

EL PASO ENERGY
ANALYTICAL RESULTS

Rept: AN0353
Page: 1

Client Sample ID: TOPSOIL Job Number & Lab Sample ID: A97-2782 A7278201 Sample Date: 08/11/97							
Analyte	UNITS OF MEASURE	RL	Result				
TOTAL BSL METALS PLUS TOTAL CYANIDE	MG/KG	60.0	8890				
Aluminum	MG/KG	12.0	0.88 U				
Antimony	MG/KG	2.0	11.6				
Arsenic	MG/KG	40.0	85.6				
Barium	MG/KG	1.0	0.44				
Beryllium	MG/KG	1.0	0.15 U				
Cadmium	MG/KG	1000	6150				
Calcium	MG/KG	2.0	10.4				
Chromium (total)	MG/KG	10	7.5				
Cobalt	MG/KG	5.0	25.7				
Copper	MG/KG	20.0	18800				
Iron	MG/KG	0.63	25.7				
Lead	MG/KG	1000	3390				
Magnesium	MG/KG	3.0	1060				
Manganese	MG/KG	0.10	0.11 "				
Mercury	MG/KG	8.0	16.2				
Nickel	MG/KG	1000	443				
Potassium	MG/KG	1.0	2.3				
Selenium	MG/KG	2.0	0.96 U				
Silver	MG/KG	100	617				
Sodium	MG/KG	2.0	0.79 U				
Thallium	MG/KG	10	15.8				
Vanadium	MG/KG	4.0	95.0				
Zinc	MG/KG	8	1.0 U				
Cyanide							

9-50 NYS BACKGROUND

OBTAIN LETTER
FROM SOURCE

08/20/97 16:47
TOTAL P.00

* Indicates Result is Outside QC Limits
NA = Not Applicable

P.O. BOX 400 COLLINGS NEW YORK 14034 TEL (716) 532-327

RICHARDSON & TAYLOR HIGHWAY ROAD

Gernatt
DAN *Gernatt* PRODUCTS, INC.
Gravel

September 5, 1997

Mr. Jeffrey Gage
O.H.M. Remediation Services Corp.
N.Y. Division
10 Ward Road
North Tonawanda, NY 14120

Re: Tennessee Gas Pipeline, STN.229
Eden, NY - Project 1037738
Topsoil - Certification

Dear Mr. Gage:

Topsoil supplied from our NYSDOT approved Source #5-8G1 (NYSDEC Source # 9043-30-0062) are native Wisconsin glacial aggregate that have been used extensively in the Western, NY area for all types of construction, including remediation projects since 1955.

This is to certify that this deposit has no known presence of hazardous material or contamination.

Sincerely,

William Schmitz
William Schmitz
Quality Control Manager

WS:kg

Tapsen

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 9
Equipment Wipe Sampling Analytical Results

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000008

Client No.

224-LREXCAVATOR

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318703

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51119.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/06/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/WIP

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	0.50	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.50	U
11096-82-5----	Aroclor-1260	0.50	U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000007

Client No.

224-PUMP

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318702

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: OA51120.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/06/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	0.50	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	1.3	
11096-82-5----	Aroclor-1260	0.50	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

224-TRUCKHOE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318701

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51121.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/06/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.

COMPOUND

12674-11-2---Aroclor-1016
11104-28-2---Aroclor-1221
11141-16-5---Aroclor-1232
53469-21-9---Aroclor-1242
12672-29-6---Aroclor-1248
11097-69-1---Aroclor-1254
11096-82-5---Aroclor-1260

0.50
0.50
0.50
0.50
0.50
2.4
0.50

U
U
U
U
U
U
U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000010

Client No.

V-FRAC3-WP1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318705

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51117.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/09/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/WIP</u>	Q
12674-11-2----	Aroclor-1016	0.50	U	
11104-28-2----	Aroclor-1221	0.50	U	
11141-16-5----	Aroclor-1232	0.50	U	
53469-21-9----	Aroclor-1242	0.50	U	
12672-29-6----	Aroclor-1248	0.50	U	
11097-69-1----	Aroclor-1254	2.1		
11096-82-5----	Aroclor-1260	0.50	U	

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000009

Client No.

V-FRAC4-WP1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318704

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51118.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/09/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	0.50	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.91	
11096-82-5----	Aroclor-1260	0.50	U

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Attachment 10
Drainline Grouting Summary

I N T E R

O F F I C E

MEMO

To: Nelson Cordoba
From: Rich Hite
Subject: Drainline Grouting Summary
Station 224 PCB Remediation Project
CO No. Y189150
Date: September 18, 1997

Philip Service Corporation (PSC) commenced the drainline grouting procedure on 9/6/97. PSC subcontracted with Amherst Construction of Buffalo, NY for the pumping equipment and the pump operator. Dewitt Concrete of Jamestown, NY supplied the approved grout material. The grout material used was the same sand/cement/bentonite mix used at Station 241. The bentonite was added to the redimix truck onsite. Chemical Waste Management provided vacuum truck service by direct contract with El Paso.

PSC personnel entered MH03 (southeast corner of the auxiliary building) to clean sediment from the bottom of the manhole. The proper confined space entry procedures were implemented. The vacuum truck was used to remove the liquids from the manhole.

Once the manhole was clean, PSC rigged up the concrete pumping unit and commenced grouting the drainlines on the south side of the auxiliary building. (65 pump strokes of the concrete pumping unit are equal to 1 cubic yard of material.)

- 8-inch Roof Drain – 66 pump strokes, 100 %
- 6-inch French Drain – 37 pump strokes, 100 %
- 6-inch Floor Drain – 28 pump strokes, 80 % - pumping discontinued when grout material entered the Auxiliary Building basement through the floor drains.

Next, PSC moved to MH04 on the north side of the Auxiliary Building. The same cleaning procedure was implemented prior to grouting. Once the manhole was clean, PSC rigged up the concrete pumping unit and began grouting the drainlines. The vacuum truck was moved to MH05. The manhole was cleaned out. The vacuum truck remained at the manhole to recover any liquids generated during the grouting of the drainline between MH04 and MH05.

- 8-inch Roof Drain – 6 pump strokes, 10 % - Bad tile in MH04. Could not get a good seal with fitting. Grout material was flowing into MH04.
- 6-inch French Drain – 6 pump strokes, 17 % - Bad tile in MH04. Could not get a good seal with fitting. Grout material flowing into MH04.
- 6-inch Floor Drain – 22 pump strokes, 63 % - Pressure forced fitting from the tile in MH04. Could not re-insert. Grout material flowing into MH04.
- 10-inch Cross Drain between MH03 and MH04 – 42 pump strokes, 100 %
- 15-inch Drain to MH05 – 230 pump strokes, 40 % - Backpressure forced grout material out of fitting into MH04.

Upon completing the drainline grouting at MH04, PSC directed the redimix truck to direct load MH04 and MH03 with grout material. Each manhole consumed approximately 2 cubic yards of material.

PSC moved the grouting operation to MH05. The vacuum truck was moved to an access point where the 15-inch drainline to the Station Pond intersects the diversion ditch above the pond. Earlier in the day, PSC exposed the drainline at this point. The drainline had previously been severed just south of the diversion ditch and an inflatable plug had been installed. PSC removed the plug.

PSC rigged up and commenced grouting the 15-inch drainline to the Station Pond. After 40 pumps, grout began flowing into the manhole. A tight seal could not be maintained. The drain tile at the bottom of the manhole was damaged. PSC discontinued pumping. PSC directed the redimix truck to direct load the manhole with grout. Approximately 6 cubic yards of grout was used to fill the manhole. PSC estimated that 2 cubic yards of the grout migrated upstream in the 15-inch drainline from the Compressor Building. Grouting operations were suspended for the day. Approximately 18 cubic yards of grout was used this day - 10 cubic yards for the drainlines and 8 cubic yards for the manholes. Approximately 350 gallons of liquid waste were removed from the drainline system during cleaning operations. PSC rescheduled grouting for 9/11/97.

On 9/11/97, PSC excavated an access hole to the 15-inch drainline to the Station Pond at a point approximately 25 feet downstream of the MH05. PSC severed the drainline and rigged up to pump grout. After 295 pump strokes the line pressured up and the drain tile cracked at the connection point. Pumping was discontinued.

PSC excavated a second access point approximately 125 feet downstream and severed the line. After 130 pump strokes the drainline pressured up. PSC discontinued pumping. Approximately 1 cubic yard of additional grout was placed in the drainline upstream of the excavation via tremie pipe.

Nelson Cordoba
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PSC moved the grouting operation to the access point at the diversion ditch. Using a tremie pipe, PSC placed approximately 1 cubic yard of grout in the upstream portion of the drainline and approximately ½ cubic yard in the drainline downstream of the diversion ditch. The total volume of grout used this day was approximately 9 cubic yards.

On 9/12/97, PSC cleaned out the oil/water separator. Approximately 500 gallons of liquid material was removed from the oil/water separator.

On 9/17/97, PSC used a Dewitt redimix truck with a 40-ft. conveyor belt to direct load the oil/water separator with 6 cubic yards of grout material.

cc: L. Ramirez (El Paso)
E. Schaper (El Paso)
I. Yanagisawa (El Paso)
Mark Gravelding (BBL)
file

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Attachment 11
Monitoring Well MW-6 Well Construction Log

Date Start/Finish: 08/18/97 / 08/19/97 Drilling Company: SJB Services, Inc. Driller's Name: Chris Ackly Drilling Method: HSA/Air Core/Roller-bit Bit Size: 2 5/16" in. Auger Size: 4.25 in. Rig Type: CME 85 Spoon Size: 2 in.	Borehole Depth: 22.0 ft. Geologist: Scott A. Powlin	Well No: MW-8 Client: Tennessee Gas Station 224 Location: Clymer, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
										GROUND SURFACE	Well cap
		S-1	2 2 5 8	7	1.3	-				Topsoil Light brown fine SAND, some orange mottling, dry, hard, plant matter.	Concrete surface seal
		S-2	8 11 8 7	19	1.0	-				Gray SILT, damp, firm.	6" Galvanized steel protective outer casing 3.7' bgs to 9.0' bgs
5		S-3	6 10 9 5	19	1.0	-				Gray SILTSTONE, highly weathered, damp.	Type I Portland cement/4% bentonite grout 0.0' to 5.0' bgs
		S-4	5 100 NA NA	NA	1.0	-					2-inch diameter stainless steel well casing 3.5' bgs to 10.0' bgs
		S-5	NA	NA	NA	-				Augered continuously from 8.0 to 9.0 feet below ground surface due to difficult split-spoon sampling.	Hydrated bentonite seal 5.0' to 8.0' bgs
10										Core Run #1 (9' to 15' bgs): black to dark gray SHALE/SILTSTONE, wet.	#1 Merie sand pack 8.0' to 22.5' bgs
		S-6	NA	NA	2.8	-					2-inch diameter, 0.010" slotted, stainless steel well screen 10.0' to 20.0' bgs
5											

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Remarks:

NA=Not applicable. - =Not available.
 bgs=Below ground surface.

Saturated Zones

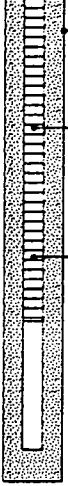
Date / Time	Elevation	Depth

Client:
Tennessee Gas Station 224

Location:
Clymer, NY

Well No: MW-8

Total Depth = 22.0 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
10		S-7		NA	NA	1.5	-			Core Run #2 (15' to 20' bgs): black to dark gray SHALE/SILTSTONE, wet.	 #1 Mono sand pack 3.0' to 22.5' bgs 2-inch diameter, 0.010" slotted, stainless steel well screen 10.0' to 20.0' bgs Stainless steel sump 20.0' to 22.0' bgs
20		S-8		NA	NA	NA	-			Roller-bit from 20' to 22.5' bgs due to adverse coring conditions.	
22										Bottom of borehole/corehole 22.5' bgs.	

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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

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Attachment 12
Well Abandonment Logs

WELL DECOMMISSIONING RECORD

BBL

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Site Name: TENNESSEE GAS PIPELINE CROSSING STA 220

Well I.D.: MW-01

Site Location: CLYMER, ALA

Driller: CHRIS ACKLY

Drilling Co.: STJ SERVICES, INC

Inspector: RICH HITE

Date: 8/20/97

DECOMMISSIONING DATA

(Fill in all that apply)

OVERDRILLING

Interval Drilled
Drilling Method(s)
Borehole Dia. (in.)
Temporary Casing Installed? (y/n)
Depth temporary casing installed
Casing type/dia. (in.)
Method of installing

CASING PULLING

Method employed
Casing retrieved (feet)
Casing type/dia. (in.)

Electric wire line pump
Grout
55/2"

CASING PERFORATING

Equipment used
Number of perforations/foot
Size of perforations
Interval perforated

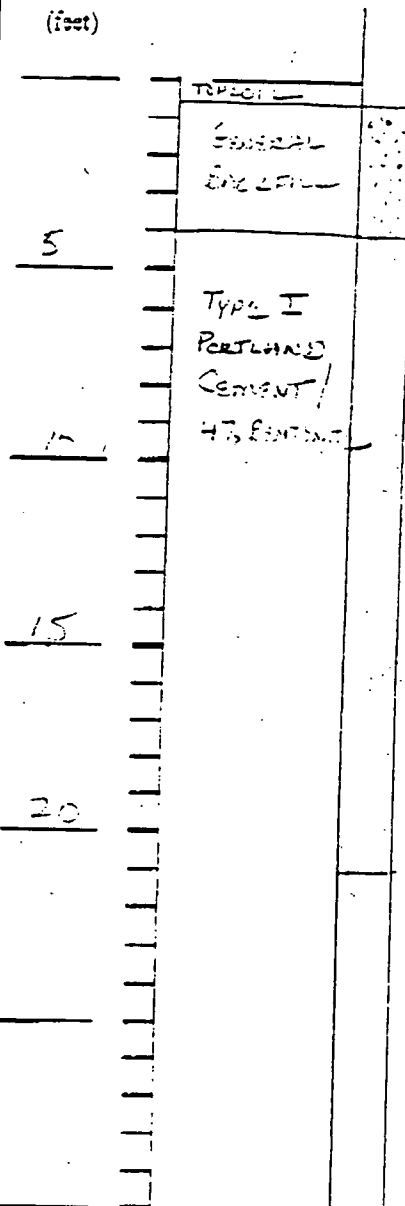
GROUTING

Interval grouted (FBS)
of batches prepared
For each batch record:
Quantity of water used (gal.)
Quantity of cement used (lbs.)
Cement type
Quantity of bentonite used (lbs.)
Quantity of calcium chloride used (lbs.)
Volume of grout prepared (gal.)
Volume of grout used (gal.)

2
90
Type I
2
20
15

WELL SCHEMATIC*

Depth
(feet)



COMMENTS:

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.

WELL DECOMMISSIONING RECORD

BBL

BLASLAND, BUCK & LEE, INC.
ENGINEERS & SCIENTISTS

Site Name: <u>Tennessee Gas Pipeline Compression Sta 224</u>	Well I.D.: <u>1043-03</u>
Site Location: <u>Clymer, NY</u>	Driller: <u>CHRIS ACKLY</u>
Drilling Co.: <u>CEE SERVICES, Inc.</u>	Inspector: <u>ALICE HINE</u>
Date: <u>8/20/97</u>	

DECOMMISSIONING DATA

(Fill in all that apply)

OVERDRILLING

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING

Method employed	<u>PULL RISER WHILE PUMPING GROUT</u>
Casing retrieved (feet)	<u>20.5</u>
Casing type/dia. (in.)	<u>5.5/2"</u>

CASING PERFORATING

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLs)	<u>10-20</u>
# of batches prepared	<u>1</u>
For each batch record:	
Quantity of water used (gal.)	<u>8</u>
Quantity of cement used (lbs.)	<u>94</u>
Cement type	<u>TYPE I</u>
Quantity of bentonite used (lbs.)	<u>2</u>
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	<u>~20</u>
Volume of grout used (gal.)	<u>~15</u>

WELL SCHEMATIC*

Depth
(feet)

	<u>TOP SOIL</u>	
	<u>GENERAL BACKFILL</u>	
<u>5</u>		
<u>10</u>	<u>TYPE I PORTLAND CEMENT / HYDRA-GRUNT</u>	
<u>15</u>		
<u>20</u>		

COMMENTS:

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.

WELL DECOMMISSIONING RECORD

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Site Name: <u>Tennessee Gas Company Compressor Station 224</u>	Well I.D.: <u>MW-4</u>
Site Location: <u>Clymer, NY</u>	Driller: <u>Chris Ackly</u>
Drilling Co.: <u>SJB Services, Inc.</u>	Inspector: <u>Scott Pown (BBL)</u>
Date: <u>8/19/97</u>	

DECOMMISSIONING DATA

(Fill in all that apply)

OVERDRILLING

Interval Drilled
Drilling Method(s)
Borehole Dia. (in.)
Temporary Casing Installed? (y/n)
Depth temporary casing installed
Casing type/dia. (in.)
Method of installing

CASING PULLING

Method employed
Casing retrieved (feet)
Casing type/dia. (in.)

Pull riser while grouting well.
22.9
55 1/2"

CASING PERFORATING

Equipment used
Number of perforations/foot
Size of perforations
Interval perforated

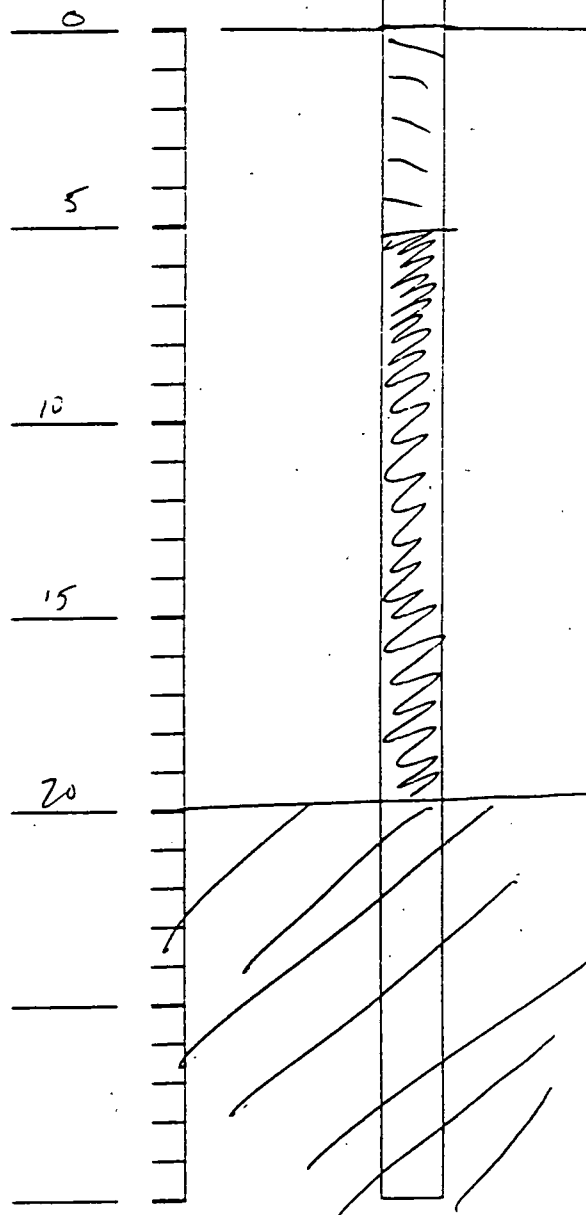
GROUTING

Interval grouted (FBLs)
of batches prepared
For each batch record:
Quantity of water used (gal.)
Quantity of cement used (lbs.)
Cement type
Quantity of bentonite used (lbs.)
Quantity of calcium chloride used (lbs.)
Volume of grout prepared (gal.)
Volume of grout used (gal.)

<u>5-20</u>
<u>1</u>
<u>8</u>
<u>94</u>
<u>Type I</u>
<u>4</u>
<u>-</u>
<u>~20</u>
<u>~15</u>

WELL SCHEMATIC*

Depth
(feet)



COMMENTS:

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.

WELL DECOMMISSIONING RECORD

BBL
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Site Name: Tennessee Gas Company Compressor Station #224

Well I.D.: MW-5

Site Location: Clymer, NY

Driller: Chris Ackly

Drilling Co.: SJB Services, INC.

Inspector: Scott A. Pawlin (BBL)

Date: 8/19/97

DECOMMISSIONING DATA

(Fill in all that apply)

OVERDRILLING

Interval Drilled
Drilling Method(s)
Borehole Dia. (in.)
Temporary Casing Installed? (y/n)
Depth temporary casing installed
Casing type/dia. (in.)
Method of installing

CASING PULLING

Method employed
Casing retrieved (feet)
Casing type/dia. (in.)

Pull cased hole grouting well.
23.1
5.5" / 2"

CASING PERFORATING

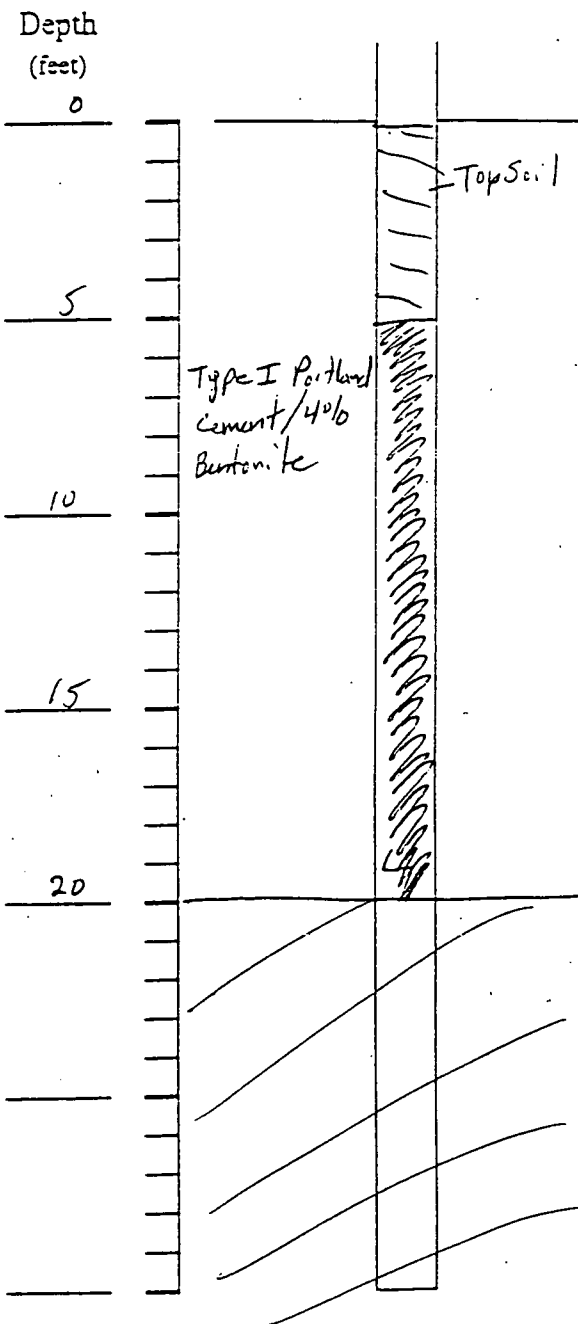
Equipment used
Number of perforations/foot
Size of perforations
Interval perforated

GROUTING

Interval grouted (FBLS)
of batches prepared
For each batch record:
Quantity of water used (gal.)
Quantity of cement used (lbs.)
Cement type
Quantity of bentonite used (lbs.)
Quantity of calcium chloride used (lbs.)
Volume of grout prepared (gal.)
Volume of grout used (gal.)

5-20
1
8
94
Type I
4
-
~20
~15

WELL SCHEMATIC*



COMMENTS:

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.

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Attachment 13
Pre-Remediation Verification Sample Analytical Data Review

Station 224 Data Review

1.0 INTRODUCTION

This analytical data review applies to samples collected by Blasland, Bouck, and Lee of Syracuse, New York from Tennessee Gas Pipeline Compressor Station 224, Clymer, New York. Analytical results were provided for 139 soil, 19 water, and 5 wipe samples that were analyzed for Aroclor PCBs. The 139 soil samples included 8 sample designated as field duplicates. An additional 8 soil matrix spike - matrix spike duplicate pairs were analyzed. Twelve of the water samples were equipment (rinsate) blanks. Table I contains the field samples and paragraph 3.10 lists the matrix spike - matrix spike duplicate sample results. The samples were analyzed by RECRA LabNet of Amherst, New York.

Aroclor PCB analyses were performed using the analytical methods specified in the "Quality Assurance Project Plan for Soil/Drainline Remediation, New York Compressor Stations", (QAPP), February 1996.

Evaluation of the analytical data was performed using the applicable criteria in the QAPP, "USEPA SW-846, Test Method for the Evaluation of Solid Waste", USEPA Region II Standard Operating Procedures SW846 Method 8080A/8000A, SOP HW-23, April 1995, and good professional judgement. The laboratory Form I (Analysis Data Sheets) with qualifiers, as required, for the field samples are attached to this report.

All laboratory results were either accepted (unqualified), qualified, or rejected as unusable. Accepted (unqualified) results are valid with respect to the specified procedures and may be used without limitations. Qualified results are usable with the indicated limitations. Rejected results are unusable. Resampling and/or reanalysis is necessary to verify the presence, absence, and/or concentration of the rejected analyte. Rejected results should not be used for any purpose.

Qualified and rejected results are annotated with the following qualifiers (codes):

- U - The analyte was analyzed for, but not detected above the associated numerical value.
- J - The associated numerical value is an estimated quantity.
- R - The data is rejected (unusable). The presence or absence of the analyte cannot be determined from the existing data. Resampling and/or reanalysis is necessary to verify the presence, absence, and/or concentration of the rejected analyte.
- UJ - The analyte was analyzed for, but not detected above the associated numerical value. The associated numerical value is an estimated quantity.

N - Indicates presumptive evidence of a compound.

JN - Indicates presumptive evidence of a compound and the associated numerical value is an estimated quantity.

2.0 OVERALL DATA ASSESSMENT

The laboratory generally performed the analyses in accordance with the analytical method requirements. The results for the re-extraction and re-analysis of one soil field sample and the re-spiking, re-extraction, and re-analysis of one matrix spike - matrix spike duplicate pair were rejected due to exceeding the project holding time requirements. The data for the other samples are useable for qualitative and quantitative purposes with the indicated limitations (qualifiers). No data qualify issues other than those discussed in this report were identified during the data review.

3.0 PARAMETER EVALUATION

3.1 General

The parameters that were evaluated during this data review included:

- Holding Times and Preservation
- Calibration
- Blanks
- Surrogate Compounds
- Matrix Spike - Matrix Spike Duplicates
- Field Duplicates
- Target Compound Identification
- Target Compound Quantitation and Quantitation Limits
- System Performance

3.2 Chain-of-Custody

No chain-of-custody irregularities were noted. The special instructions on the chain-of-custody forms directed that several soil samples be extracted and the extracts stored for possible future analysis.

No data qualifications or rejections were required due to chain-of-custody issues.

Copies of the chain-of-custody forms are attached to this report.

3.3 Holding Time and Preservation

The Aroclor PCB holding times for the soil samples for this project are:

Sample collection to extraction - 14 days
Sample extraction to analysis - 40 days

Sample 224-AR-DS11-013-02RE was re-extracted 28 days after collection. These results are rejected due to exceeding the holding time requirements and the results for the initial extraction and analysis are accepted for this project.

Samples 224-AR-DS11-013-02-MS and 224-AR-DS11-013-02-MSD were re-spiked with Aroclor 1254 and re-extracted 28 days after collection. These results are rejected due to exceeding the holding time requirements and the results for the initial spiking, extraction, and analysis are accepted for this project.

Sample 224-ST-DS11-148-01 was extracted within the project holding time limits; however, the extract was analyzed 44 days after extraction. The Aroclor PCB results are qualified as estimated due to exceeding the extraction to analysis holding time requirement.

The following wipe samples were received by the laboratory at 20 °C:

224-TRUCKHOE
224-UMP
224-LREXCAVATOR
V-FRAC3-WP1
V-FRAC4-WP1

Due to the thermal stability of Aroclor PCBs, no data qualification is required.

No other data qualification or rejection is required for holding time or preservation deviations.

3.4 Initial Calibration

The initial calibrations were performed at five (5) levels for the Aroclor PCBs and surrogate compounds for each gas chromatograph used for sample analysis. Aroclor PCB quantitation was performed using 3-5 peaks for each Aroclor PCB. The relative standard deviation (RSD) was less than 20% for the initial calibration.

None of the sample results required qualification or rejection due to initial calibration issues.

3.5 Calibration Verification

Calibration verification was performed at the correct frequency and concentration for the Aroclor PCB and surrogate compounds.

The following calibration verification samples had a percent difference (%D) from the initial calibration that exceeded the project control limits:

A7D0000433-8 (Aroclor 1260) on 6/18/97 at 20:14 had %D of -26.3. The Aroclor 1260 results for 224-ST-DS11-147-01 and 224-ST-DS11-149-01 will be qualified as estimated, UJ.

A7D0000622-8 (Aroclor 1260) on 8/14/97 at 09:58 had a %D of +45.7. No data qualification is required since Aroclor 1260 was not detected in the associated samples and the %D was greater than the upper control limit.

A7D0000640-6 (Aroclor 1248) on 8/28/97 at 11:45 had a %D of -24. The Aroclor 1248 results for T-1287-1, T-1696-1, T-1696-2, Carbon-1, and Carbon-2 will be qualified as estimated, UJ.

No other data qualification or rejection is required for calibration verification sample deviations.

3.6 Surrogate Compound Recovery

3.6.1 Soil Samples - Decachlorobiphenyl (DCBP) was used as the surrogate compound for the soil samples. The percent recovery (%R) project control limits are 60-130.

The following soil samples had 0% surrogate recovery due to the extraction dilution required to perform the analysis:

224-AR-DS11-007-02
224-AR-DS11-013-01
224-AR-DS11-013-01-MS
224-AR-DS11-013-01-MSD
224-AR-DS11-013-04
224-AR-DS11-013-06
224-AR-DS11-013-07
224-AR-DS11-013-FD
224-AR-DS11-023-01
224-AR-DS11-030-01
224-AR-DS11-041-01
224-ST-DS11-129-01
224-ST-DS11-130-01
224-ST-DS11-147-01

None of these Aroclor PCB results require qualification or rejection since the lack of surrogate recovery was due to dilution of the sample extract.

3.6.2 Water Sample - Decachlorobiphenyl (DCBP) and tetrachloro-m-xylene (TCMX) were used as the surrogate compounds for water samples. The laboratory's historical percent recovery control limits are:

<u>Surrogate Compound</u>	<u>Percent Recovery</u> (%R)
Decachlorobiphenyl	36 - 144
Tetrachloro-m-xylene	36 - 132

The following water samples had surrogate recovery less than the laboratory's historical control limit:

<u>Sample ID</u>	<u>DCBP</u> (%R)	<u>TCMX</u> (%R)
224-ST-DB11-166-01-RS	18	36
224-ST-DB11-167-01-RS	23	70
224-ST-DS11-201-RS	33	82
T-1442-1	34	44

The Aroclor PCB results for these samples will be qualified as estimated, UJ and J, due to surrogate recovery that is less than the control limit.

The following laboratory water quality control samples had surrogate recovery less than the laboratory's historical control limits:

<u>Laboratory ID</u>	<u>DCBP</u> (%R)	<u>TCMX</u> (%R)
A7B0461802	26	64
A7B0461803	32	76
A7B0472801	31	74
A7B0472802	28	70
A7B0716901	27	57
A7B0725501	30	54
A7B0725502	29	46

These samples will not be qualified since they are laboratory quality control samples. These results will be considered in the evaluation of the field samples associated with these laboratory control samples.

3.6.3 Wipe Samples - Decachlorobiphenyl (DCBP) was used as the surrogate compound for the wipe samples. The percent recovery (%R) project control limit are 60-

130. All wipe sample surrogate recoveries were within the project control limits. No wipe sample data qualification or rejection was required for surrogate recovery issues.

No other data qualification or rejection is required due to surrogate recovery deviations.

3.7 Method Blank

The appropriate number of soil, water, and wipe sample method blanks were analyzed with these samples. Aroclor PCBs were not detected in any of the method blanks.

No data qualification or rejection is required for method blank contamination.

3.8 Equipment Blanks

Twelve equipment (rinsate) blanks were analyzed with these samples. Aroclor PCBs were not detected in any of the equipment blanks.

No data qualification or rejection is required due to equipment blank contamination.

3.9 Matrix Spike Blank - Matrix Spike Blank Duplicate

The appropriate number of matrix spike blank - matrix spike blank duplicate samples were analyzed with these samples.

No data qualification or rejection is required due to matrix spike blank - matrix spike blank duplicate sample deviations

3.10 Matrix Spike - Matrix Spike Duplicate

Eight soil matrix spike (MS) - matrix spike duplicate (MSD) pairs were analyzed with these samples. The project control limits for the percent recovery for the Aroclor 1254 spike is 70-130 and the control limit for the relative percent difference (RPD) for the pair is 40. The following results were obtain for the analysis of these samples:

<u>Sample ID</u>	<u>MS</u> (%R)	<u>MSD</u> (%R)	<u>RPD</u> (%)
224-AR-DS11-007-01	430	109	119
224-AR-DS11-013-01	0	0	0
224-AR-DS11-013-02	291	418	36
224-AR-DS11-013-01RE	158	208	27
224-CB-DS11-065-01	93	110	17
224-ST-DS11-123-01	165	116	35
224-ST-DS11-129-03	92	92	0
224-ST-DS11-151-01	109	108	0

<u>Sample ID</u>	<u>MS</u> (%R)	<u>MSD</u> (%R)	<u>RPD</u> (%)
224-ST-DS11-170-01	101	101	0

Matrix spike - matrix spike duplicate samples are normally analyzed to evaluate the accuracy and precision of the analytical process. Soil homogeneity will also affect the results.

The Aroclor 1254 spike could not be determined in 224-AR-DS11-013-01 MS and MSD due to high concentration of Aroclor 1248 in these samples. 224-AR-DS11-013-01 MS had 1600 mg/kg and 224-AR-DS11-013-01 MSD had 1900 mg/kg. The RPD for Aroclor 1248 results was 17%.

The results for the respiking and re-extraction of 224-AR-DS11-013-02 are rejected since they were performed outside the project holding time. The results for the initial spiking and analysis will be accepted.

The Aroclor 1254 results for 224-AR-DS11-007-01 exceeded the linear calibration range and was not diluted and re-analyzed. The Aroclor 1254 results will be qualified as estimated, J.

The Aroclor 1254 results for the following samples will be qualified as estimated due to Aroclor 1254 spike recovery outside the project control limits:

224-AR-DS11-007-01
224-AR-DS11-013-02
224-ST-DS11-123-01

A review of the analytical data indicates that qualification of the other field samples in the sample delivery group associated with these samples is not required.

3.11 Field Duplicate

Eight field duplicate samples were collected and submitted for analysis. Blind duplicate samples are normally collected and analyzed to evaluate the over all precision of the sampling and analytical processes. These samples can also provide an indication of the soil non-homogeneity. The relative percent difference (RPD) control limits for this project is 40. The results for the analysis are:

<u>Sample ID</u>	<u>Results</u> (mg/kg)	<u>Duplicate ID</u>	<u>Results</u> (mg/kg)	<u>RPD</u> (%)
224-ST-DS11-129-02	8.2	224-ST-DS11-129-FD	8.5	4
224-ST-DS11-173-01	U ¹	224-ST-DS11-173-FD	U	NC ²

<u>Sample ID</u>	<u>Results</u> (mg/kg)	<u>Duplicate ID</u>	<u>Results</u> (mg/kg)	<u>RPD</u> (%)
224-AR-DS11-006-01	U	224-AR-DS11-040-01-FD	1.1	NC
224-CB-DS11-063-01	1.1	224-CB-DS11-067-01-FD	U	NC
224-AR-DS11-013-07	1600	224-AR-DS11-013-FD	1400	13
224-AR-DS11-015-01	U	224-AR-DS11-042-01-FD	1.2	NC
224-AR-DS11-A50-01	1.9	224-ST-DS11-168-01-FD	2.1	10
224-ST-DS11-122-01	30	224-ST-DS11-165-01-FD	U	NC

¹U - The analyte was not detected.

²NC - The relative percent difference was not calculated since target analytes were not detected in one or more of the samples in the pair.

There is not requirement to qualify sample results based on sample - field duplicate results. It is not possible to determine if the difference for the pair, 224-ST-DS11-122-01 / 224-ST-DS11-165-01-FD, is due to sample homogeneity issues or sampling and/or analytical issues.

None of the field sample results will be qualified or rejected based on sample - field duplicate results.

3.12 System Performance

The chromatographic baselines were stable during the analyses and no negative peaks were noted. None of the data required qualification or rejection due to chromatographic system performance issues.

3.13 Target Analyte Identification and Quantitation

The target analytes were limited to Aroclor PCBs. The Aroclor PCB identifications are acceptable with respect to the supporting data. The chromatographic retention times for the surrogates and Aroclor PCBs were stable. There were no false negative results.

Any Aroclor PCB results less than the project reporting limit were reported as "not detected" at the reporting limit. The results and reporting limits were corrected for dry weight and dilution factors. Wipe sample results were reported as ug/wipe and were not corrected for the number of square centimeters per wipe. The sample quantitation limits are appropriate based on the sample size, calibration standards, dilution factors, and dry weight.

The Aroclor PCB results for the following samples were qualified as estimated, UJ and J, due to moisture content greater than 50% and less than 90%:

Station 224 Data Review
Revision 1

<u>Sample ID</u>	<u>% Moisture</u>
224-ST-DS11-123-01	54.2
224-ST-DS11-123-01-MS	54.2
224-ST-DS11-123-01-MSD	54.2
224-ST-DS11-165-01	62.6

The Aroclor 1254 results for water sample, T-E1560, are qualified as tentatively identified with an estimated concentration, JN, due to an incomplete Aroclor 1254 chromatographic pattern. Second column chromatographic confirmation was not performed to confirm the Aroclor identification.

None of the other sample results requires qualification or rejection due to target compound identification or quantitation issues.

Table I
Sample Summary

Table I
Sample Summary

<u>Sample ID</u>	<u>Lab ID</u>	<u>Matrix</u>	<u>Sample Date</u>
224-AB-DS11-042-01	A7197330	SOIL	6/4/97
224-AB-DS11-043-01	A7197331	SOIL	6/4/97
224-AB-DS11-044-01	A7197332	SOIL	6/4/97
224-AR-DS11-002-01	A7197335	SOIL	6/4/97
224-AR-DS11-002-02	A7197336	SOIL	6/4/97
224-AR-DS11-004-01	A7197338	SOIL	6/4/97
224-AR-DS11-006-01	A7197339	SOIL	6/4/97
224-AR-DS11-007-01	A7197340	SOIL	6/4/97
224-AR-DS11-007-02	A7263801	SOIL	7/30/97
224-AR-DS11-008-01	A7197341	SOIL	6/4/97
224-AR-DS11-009-01	A7197342	SOIL	6/4/97
224-AR-DS11-010-01	A7204002	SOIL	6/9/97
224-AR-DS11-010-02	A7263802	SOIL	7/30/97
224-AR-DS11-011-01	A7204003	SOIL	6/9/97
224-AR-DS11-012-01	A7204005	SOIL	6/9/97
224-AR-DS11-013-01	A7204006	SOIL	6/9/97
224-AR-DS11-013-02	A7204007	SOIL	6/9/97
224-AR-DS11-013-02	A7204007RE	SOIL	6/9/97
224-AR-DS11-013-04	A7270801	SOIL	8/5/97
224-AR-DS11-013-05	A7270802	SOIL	8/5/97
224-AR-DS11-013-06	A7275001	SOIL	8/7/97
224-AR-DS11-013-07	A7275002	SOIL	8/7/97
224-AR-DS11-013-FD	A7275002FD	SOIL	8/7/97
224-AR-DS11-014-01	A7204008	SOIL	6/9/97
224-AR-DS11-015-01	A7204009	SOIL	6/9/97
224-AR-DS11-016-01	A7197343	SOIL	6/4/97
224-AR-DS11-019-01	A7197347	SOIL	6/4/97
224-AR-DS11-019-02	A7253303	SOIL	7/21/97
224-AR-DS11-019-03	A7253304	SOIL	7/21/97
224-AR-DS11-020-01	A7197348	SOIL	6/4/97
224-AR-DS11-021-01	A7197349	SOIL	6/4/97
224-AR-DS11-022-01	A7197350	SOIL	6/4/97
224-AR-DS11-023-01	A7204012	SOIL	6/9/97
224-AR-DS11-024-01	A7204013	SOIL	6/9/97
224-AR-DS11-025-01	A7204015	SOIL	6/9/97
224-AR-DS11-028-01	A7204018	SOIL	6/9/97
224-AR-DS11-029-01	A7204019	SOIL	6/9/97
224-AR-DS11-030-01	A7204020	SOIL	6/9/97

Table I (Cont)
Sample Summary

<u>Sample ID</u>	<u>Lab ID</u>	<u>Matrix</u>	<u>Sample Date</u>
224-AR-DS11-031-01	A7204021	SOIL	6/9/97
224-AR-DS11-032-01	A7204022	SOIL	6/9/97
224-AR-DS11-032-04	A7263812	SOIL	7/30/97
224-AR-DS11-035-01	A7197353	SOIL	6/4/97
224-AR-DS11-036-01	A7197354	SOIL	6/4/97
224-AR-DS11-037-01	A7197355	SOIL	6/4/97
224-AR-DS11-038-01	A7197356	SOIL	6/4/97
224-AR-DS11-039-01	A7204030	SOIL	6/9/97
224-AR-DS11-040-01	A7263803	SOIL	7/30/97
224-AR-DS11-040-01-FD	A7197357	SOIL	6/4/97
224-AR-DS11-041-01	A7275003	SOIL	8/7/97
224-AR-DS11-042-01	A7279901	SOIL	8/12/97
224-AR-DS11-042-01-FD	A7204025	SOIL	6/9/97
224-CB-DS11-063-01	A7197304	SOIL	6/4/97
224-CB-DS11-064-01	A7197305	SOIL	6/4/97
224-CB-DS11-065-01	A7197306	SOIL	6/4/97
224-CB-DS11-066-01	A7197307	SOIL	6/4/97
224-CB-DS11-067-01-FD	A7197310	SOIL	6/4/97
224-CB-DS11-071-01	A7197313	SOIL	6/4/97
224-CB-DS11-072-01	A7197314	SOIL	6/4/97
224-CB-DS11-073-01	A7197315	SOIL	6/4/97
224-CB-DS11-074-01	A7197316	SOIL	6/4/97
224-CB-DS11-079-01	A7197322	SOIL	6/4/97
224-CB-DS11-080-01	A7197323	SOIL	6/4/97
224-CB-DS11-081-01	A7197324	SOIL	6/4/97
224-CB-DS11-082-01	A7197325	SOIL	6/4/97
224-CB-DS11-082-02	A7197326	SOIL	6/4/97
224-ST-DS11-104-01	A7199504	SOIL	6/5/97
224-ST-DS11-105-01	A7199505	SOIL	6/5/97
224-ST-DS11-112-01	A7199512	SOIL	6/5/97
224-ST-DS11-112-02	A7253310	SOIL	7/21/97
224-ST-DS11-112-03	A7253308	SOIL	7/21/97
224-ST-DS11-113-01	A7199513	SOIL	6/5/97
224-ST-DS11-114-01	A7199514	SOIL	6/5/97
224-ST-DS11-114-02	A7263804	SOIL	7/30/97
224-ST-DS11-119-01	A7199519	SOIL	6/5/97
224-ST-DS11-120-01	A7199520	SOIL	6/5/97

Table I (Cont)
Sample Summary

<u>Sample ID</u>	<u>Lab ID</u>	<u>Matrix</u>	<u>Sample Date</u>
224-ST-DS11-121-01	A7199523	SOIL	6/5/97
224-ST-DS11-122-01	A7199526	SOIL	6/5/97
224-ST-DS11-122-02	A7253305	SOIL	7/21/97
224-ST-DS11-122-03	A7253306	SOIL	7/21/97
224-ST-DS11-123-01	A7199527	SOIL	6/5/97
224-ST-DS11-124-01	A7200001	SOIL	6/5/97
224-ST-DS11-125-01	A7200002	SOIL	6/5/97
224-ST-DS11-126-01	A7200003	SOIL	6/5/97
224-ST-DS11-127-01	A7200004	SOIL	6/5/97
224-ST-DS11-128-01	A7200005	SOIL	6/5/97
224-ST-DS11-129-01	A7200006	SOIL	6/5/97
224-ST-DS11-129-02	A7253311	SOIL	7/21/97
224-ST-DS11-129-03	A7253312	SOIL	7/21/97
224-ST-DS11-129-FD	A7253317	SOIL	7/21/97
224-ST-DS11-130-01	A7200007	SOIL	6/5/97
224-ST-DS11-130-02	A7253318	SOIL	7/21/97
224-ST-DS11-130-03	A7253319	SOIL	7/21/97
224-ST-DS11-131-01	A7200008	SOIL	6/5/97
224-ST-DS11-131-02	A7263805	SOIL	7/30/97
224-ST-DS11-132-01	A7200009	SOIL	6/5/97
224-ST-DS11-133-01	A7200010	SOIL	6/5/97
224-ST-DS11-134-01	A7200011	SOIL	6/5/97
224-ST-DS11-136-01	A7208625	SOIL	6/11/97
224-ST-DS11-138-01	A7208601	SOIL	6/11/97
224-ST-DS11-139-01	A7208604	SOIL	6/11/97
224-ST-DS11-140-01	A7208607	SOIL	6/11/97
224-ST-DS11-141-01	A7208619	SOIL	6/11/97
224-ST-DS11-142-01	A7205827	SOIL	6/10/97
224-ST-DS11-143-01	A7208609	SOIL	6/11/97
224-ST-DS11-144-01	A7208612	SOIL	6/11/97
224-ST-DS11-145-01	A7208629	SOIL	6/11/97
224-ST-DS11-146-01	A7208632	SOIL	6/11/97
224-ST-DS11-147-01	A7205801	SOIL	6/10/97
224-ST-DS11-147-02	A7205802	SOIL	6/10/97
224-ST-DS11-147-03	A7205803	SOIL	6/10/97
224-ST-DS11-148-01	A7205804	SOIL	6/10/97
224-ST-DS11-149-01	A7205807	SOIL	6/10/97

Table I (Cont)
Sample Summary

<u>Sample ID</u>	<u>Lab ID</u>	<u>Matrix</u>	<u>Sample Date</u>
224-ST-DS11-149-02	A7205808	SOIL	6/10/97
224-ST-DS11-149-03	A7205809	SOIL	6/10/97
224-ST-DS11-150-01	A7205810	SOIL	6/10/97
224-ST-DS11-151-01	A7205815	SOIL	6/10/97
224-ST-DS11-152-01	A7205818	SOIL	6/10/97
224-ST-DS11-154-01	A7205824	SOIL	6/10/97
224-ST-DS11-155-01	A7205825	SOIL	6/10/97
224-ST-DS11-156-01	A7205826	SOIL	6/10/97
224-ST-DS11-157-01	A7208635	SOIL	6/11/97
224-ST-DS11-158-01	A7208636	SOIL	6/11/97
224-ST-DS11-159-01	A7208637	SOIL	6/11/97
224-ST-DS11-160-01	A7208638	SOIL	6/11/97
224-ST-DS11-161-01	A7208614	SOIL	6/11/97
224-ST-DS11-162-01	A7208639	SOIL	6/11/97
224-ST-DS11-163-01	A7208642	SOIL	6/11/97
224-ST-DS11-164-01	A7253322	SOIL	7/21/97
224-ST-DS11-164-02	A7263806	SOIL	7/30/97
224-ST-DS11-165-01	A7253325	SOIL	7/21/97
224-ST-DS11-165-01-FD	A7200013	SOIL	6/5/97
224-ST-DS11-166-01	A7253327	SOIL	7/21/97
224-ST-DS11-168-01-FD	A7205813	SOIL	6/10/97
224-ST-DS11-168-01-FD	A7205813	SOIL	6/10/97
224-ST-DS11-170-01	A7263807	SOIL	7/30/97
224-ST-DS11-170-02	A7263807	SOIL	7/30/97
224-ST-DS11-171-01	A7263808	SOIL	7/30/97
224-ST-DS11-172-01	A7263809	SOIL	7/30/97
224-ST-DS11-173-01	A7263810	SOIL	7/30/97
224-ST-DS11-173FD	A7263810FD	SOIL	7/30/97
224-WATER-DISCHARGE	A7304301	SOIL	8/29/97
224-AR-DS11-041-01-RS	A7197327	WATER	6/4/97
224-AR-DS11-044-01-RS	A7204028	WATER	6/9/97
224-AR-DS11-045-01-RS	A7204029	WATER	6/9/97
224-CB-DS11-075-01-RS	A7197318	WATER	6/4/97
224-ST-DB11-166-01-RS	A7200014	WATER	6/5/97
224-ST-DB11-167-01-RS	A7200015	WATER	6/5/97
224-ST-DB11-169-01-RS	A7205814	WATER	6/10/97
224-ST-DS11-171-01-RS	A7208646	WATER	6/11/97
224-ST-DS11-172-01-RS	A7208647	WATER	6/11/97

Table I (Cont)
Sample Summary

<u>Sample ID</u>	<u>Lab ID</u>	<u>Matrix</u>	<u>Sample Date</u>
224-ST-DS11-200-RS	A7253335	WATER	7/21/97
224-ST-DS11-201-RS	A7253336	WATER	7/21/97
224-ST-DS11-202-RS	A7263811	WATER	7/30/97
Carbon Unit-1	A7298401	WATER	8/27/97
Carbon Unit-2	A7298402	WATER	8/27/97
T-1287-1	A7298501	WATER	8/26/97
T-1442-1	A7301602	WATER	8/28/97
T-1696-1	A7298502	WATER	8/27/97
T-1696-2	A7298503	WATER	8/27/97
T-E1560	A7301601	WATER	8/28/97
224-LREXCAVATOR	A7318703	WIPE	9/6/97
224-PUMP	A7318702	WIPE	9/6/97
224-TRUCKHOE	A7318701	WIPE	9/6/97
V-FRAC3-WP1	A7318705	WIPE	9/9/97
V-FRAC4-WP1	A7318704	WIPE	9/9/97

Form I

Compressor Building

Analytical Data Sheets
(Form I Reports)

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00024

Client No.

224-CB-DS11-063-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197304

Sample wt/vol: 5.37 (g/mL) G

Lab File ID: PA20174.TX0

% Moisture: 18.0 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.1

U

2.3

U

1.1

U

1.1

U

1.1

U

1.1

U

1.1

U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00028

Client No.

224-CB-DS11-067-01FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197310

Sample wt/vol: 5.93 (g/mL) G

Lab File ID: PA20180.TX0

% Moisture: 18.6 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00025

Client No.

224-CB-DS11-064-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197305

Sample wt/vol: 5.24 (g/mL) G

Lab File ID: PA20175.TX0

% Moisture: 17.9 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.3	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.2	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000026

Client No.

224-CB-DS11-065-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197306

Sample wt/vol: 5.53 (g/mL) G

Lab File ID: PA20176.TX0

% Moisture: 16.4 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00027

Client No.

224-CB-DS11-066-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197307

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: PA20179.TX0

% Moisture: 19.0 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.2	U
11104-28-2----	Aroclor-1221		2.3	U
11141-16-5----	Aroclor-1232		1.2	U
53469-21-9----	Aroclor-1242		1.2	U
12672-29-6----	Aroclor-1248		1.2	U
11097-69-1----	Aroclor-1254		1.2	U
11096-82-5----	Aroclor-1260		1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00029

Client No.

224-CB-DS11-071-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197313

Sample wt/vol: 5.86 (g/mL) G

Lab File ID: PA20181.TX0

% Moisture: 18.4 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date-Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		2.1	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00030

Client No.

224-CB-DS11-072-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197314

Sample wt/vol: 5.97 (g/mL) G

Lab File ID: PA20184.TX0

% Moisture: 16.2 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00031

Client No.

224-CB-DS11-073-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197315

Sample wt/vol: 5.82 (g/mL) G

Lab File ID: PA20185.TX0

% Moisture: 19.1 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.1	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00032

Client No.

224-CB-DS11-074-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197316

Sample wt/vol: 5.15 (g/mL) G

Lab File ID: PA20186.TX0

% Moisture: 17.1 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG Q
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.3	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.2	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00034

Client No.

224-CB-DS11-079-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197322

Sample wt/vol: 5.71 (g/mL) G

Lab File ID: PA20187.TX0

% Moisture: 16.8 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00035

Client No.

224-CB-DS11-080-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197323

Sample wt/vol: 5.73 (g/mL) G

Lab File ID: PA20188.TX0

% Moisture: 16.9 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.0
2.1
1.0
1.0
1.0
1.0
1.0
1.0

U
U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00036

Client No.

224-CB-DS11-081-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197324

Sample wt/vol: 5.43 (g/mL) G

Lab File ID: PA20189.TX0

% Moisture: 16.3 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.1
2.2
1.1
1.1
1.1
2.7
1.1

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00037

Client No.

224-CB-DS11-082-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197325

Sample wt/vol: 5.44 (g/mL) G

Lab File ID: PA20190.TX0

% Moisture: 17.4 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.2	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00038

Client No.

224-CB-DS11-082-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197326

Sample wt/vol: 5.75 (g/mL) G

Lab File ID: PA20191.TX0

% Moisture: 18.5 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016	1.1		U
11104-28-2----	Aroclor-1221	2.1		U
11141-16-5----	Aroclor-1232	1.1		U
53469-21-9----	Aroclor-1242	1.1		U
12672-29-6----	Aroclor-1248	1.1		U
11097-69-1----	Aroclor-1254	1.1		U
11096-82-5----	Aroclor-1260	1.1		U

Auxiliary Building

Analytical Data Sheets
(Form I Reports)

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00006

Client No.

224-AB-DS11-042-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197330

Sample wt/vol: 5.01 (g/mL) G

Lab File ID: PA20192.TX0

% Moisture: 11.2 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.2	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00007

Client No.

224-AB-DS11-043-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197331

Sample wt/vol: 5.35 (g/mL) G

Lab File ID: PA20193.TX0

% Moisture: 16.5 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.2	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		4.0	
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00008

Client No.

224-AB-DS11-044-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197332

Sample wt/vol: 5.32 (g/mL) G

Lab File ID: PA20196.TX0

% Moisture: 15.2 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) MG/KG

Q

12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

Air Receiver Tank

Analytical Data Sheets
(Form I Reports)

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 5

Client No.

224-AR-DS11-002-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197335

Sample wt/vol: 5.60 (g/mL) G

Lab File ID: PA23251.TX0

% Moisture: 16.6 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		2.1	U
11104-28-2----	Aroclor-1221		2.1	U
11141-16-5----	Aroclor-1232		2.1	U
53469-21-9----	Aroclor-1242		2.1	U
12672-29-6----	Aroclor-1248		2.1	U
11097-69-1----	Aroclor-1254		26	
11096-82-5----	Aroclor-1260		2.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005
Client No.

224-AR-DS11-002-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 157SR SAS~No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197336

Sample wt/vol: 5.39 (g/mL) G

Lab File ID: PA25059.TX0

% Moisture: 17.1 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 ^{06/05/97} ~~07/11/97~~

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97 ^{demo} ~~7/21/97~~

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/14/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	1.1	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00009

Client No.

224-AR-DS11-004-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS-No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197338

Sample wt/vol: 5.31 (g/mL) G

Lab File ID: PA20197.TX0

% Moisture: 19.5 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.3	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	2.8	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00010 Client No.

224-AR-DS11-006-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197339

Sample wt/vol: 5.06 (g/mL) G

Lab File ID: PA20198.TX0

% Moisture: 14.2 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.3	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.2	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00022

Client No.

224-AR-DS11-040-01FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197357

Sample wt/vol: 5.81 (g/mL) G

Lab File ID: PA20216.TX0

% Moisture: 13.6 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00011

Client No.

224-AR-DS11-007-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197340

Sample wt/vol: 5.34 (g/mL) G

Lab File ID: PA20199.TX0

% Moisture: 18.3 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.

COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.1
2.3
1.1
1.1
1.1
24
1.1

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0000 5

Client No.

224-AR-DS11-007-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263801

Sample wt/vol: 5.21 (g/mL) G

Lab File ID: QA47214.TX0

% Moisture: 8.0 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.4 U
1.4 U
1.4 U
1.4 U
1.4 U
130
1.4 U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00012

Client No.

224-AR-DS11-008-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

S/S No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197341

Sample wt/vol: 5.23 (g/mL) G

Lab File ID: PA20202.TX0

% Moisture: 13.0 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG Q

CAS NO.	COMPOUND	MG/KG	Q
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00013

Client No.

224-AR-DS11-009-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197342

Sample wt/vol: 5.48 (g/mL) G

Lab File ID: PA20203.TX0

% Moisture: 18.6 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.2	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0005

Client No.

224-AR-DS11-010-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204002

Sample wt/vol: 5.43 (g/mL) G

Lab File ID: LB51309.TX0

% Moisture: 19.6 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/12/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	6.3	
11097-69-1----	Aroclor-1254	10	
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

Client No.

224-AR-DS11-010-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263802

Sample wt/vol: 5.23 (g/mL) G

Lab File ID: QA47215.TX0

% Moisture: 17.6 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.7	
11097-69-1----	Aroclor-1254	4.2	
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0006

Client No.

224-AR-DS11-011-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

CAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204003

Sample wt/vol: 5.16 (g/mL) G

Lab File ID: PA21111.TX0

% Moisture: 18.4 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.2	U
11104-28-2----	Aroclor-1221		1.2	U
11141-16-5----	Aroclor-1232		1.2	U
53469-21-9----	Aroclor-1242		1.2	U
12672-29-6----	Aroclor-1248		1.2	U
11097-69-1----	Aroclor-1254		2.2	
11096-82-5----	Aroclor-1260		1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0007

Client No.

224-AR-DS11-012-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204005

Sample wt/vol: 5.84 (g/mL) G

Lab File ID: PA21126.TX0

% Moisture: 20.3 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----	Aroclor-1016	2.1	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	2.1	U
53469-21-9----	Aroclor-1242	2.1	U
12672-29-6----	Aroclor-1248	2.1	U
11097-69-1----	Aroclor-1254	8.4	
11096-82-5----	Aroclor-1260	2.1	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0008

Client No.

224-AR-DS11-013-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204006

Sample wt/vol: 5.79 (g/mL) G

Lab File ID: LB51306.TX0

% Moisture: 20.0 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/12/97

Injection Volume: 1.00 (uL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	5.4	U
11104-28-2----	Aroclor-1221	5.4	U
11141-16-5----	Aroclor-1232	5.4	U
53469-21-9----	Aroclor-1242	5.4	U
12672-29-6----	Aroclor-1248	1400	
11097-69-1----	Aroclor-1254	5.4	U
11096-82-5----	Aroclor-1260	5.4	U

25

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 6

Client No.

224-AR-DS11-013-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204007

Sample wt/vol: 5.33 (g/mL) G

Lab File ID: PA23252.TX0

% Moisture: 18.0 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 1000000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		2.3	U
11104-28-2----	Aroclor-1221		2.3	U
11141-16-5----	Aroclor-1232		2.3	U
53469-21-9----	Aroclor-1242		2.3	U
12672-29-6----	Aroclor-1248		34	J
11097-69-1----	Aroclor-1254		12	J
11096-82-5----	Aroclor-1260		2.3	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 7

Client No.

224-AR-DS11-013-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204007RE

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: QA45139.TX0

% Moisture: 18.0 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/30/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/07/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/09/97

Injection Volume: 1.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.0	U U U U U ↓
11104-28-2----	Aroclor-1221		1.0	
11141-16-5----	Aroclor-1232		1.0	
53469-21-9----	Aroclor-1242		1.0	
12672-29-6----	Aroclor-1248		67	
11097-69-1----	Aroclor-1254		27	U ↓
11096-82-5----	Aroclor-1260		1.0	

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-AR-DS11-013-04

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7270801

Sample wt/vol: 5.08 (g/mL) G

Lab File ID: LA53095.TX0

% Moisture: 11.6 decanted: (Y/N) N

Date Samp/Recv: 08/05/97 08/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/06/97

Injection Volume: 1.00 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	11	U
11104-28-2----	Aroclor-1221	11	U
11141-16-5----	Aroclor-1232	11	U
53469-21-9----	Aroclor-1242	11	U
12672-29-6----	Aroclor-1248	11	U
11097-69-1----	Aroclor-1254	600	U
11096-82-5----	Aroclor-1260	11	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-AR-DS11-013-05

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7270802

Sample wt/vol: 5.24 (g/mL) G

Lab File ID: LA53091.TX0

% Moisture: 11.4 decanted: (Y/N) N

Date Samp/Recv: 08/05/97 08/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/06/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	30	
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-AR-DS11-013-06

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275001

Sample wt/vol: 5.36 (g/mL) G

Lab File ID: PA26282.TX0

% Moisture: 12.7 decanted: (Y/N) N

Date Samp/Recv: 08/07/97 08/07/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/08/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	110	U
11104-28-2----	Aroclor-1221	110	U
11141-16-5----	Aroclor-1232	110	U
53469-21-9----	Aroclor-1242	110	U
12672-29-6----	Aroclor-1248	110	U
11097-69-1----	Aroclor-1254	1600	U
11096-82-5----	Aroclor-1260	110	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-AR-DS11-013-07

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275002

Sample wt/vol: 5.09 (g/mL) G

Lab File ID: PA26283.TX0

% Moisture: 11.3 decanted: (Y/N) N

Date Samp/Recv: 08/07/97 08/07/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/08/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		110	U
11104-28-2----	Aroclor-1221		110	U
11141-16-5----	Aroclor-1232		110	U
53469-21-9----	Aroclor-1242		110	U
12672-29-6----	Aroclor-1248		110	U
11097-69-1----	Aroclor-1254		1600	U
11096-82-5----	Aroclor-1260		110	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000007

Client No.

224-AR-DS11-013-FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275002FD

Sample wt/vol: 5.19 (g/mL) G

Lab File ID: PA26284.TX0

% Moisture: 11.3 decanted: (Y/N) N

Date Samp/Recv: 08/07/97 08/07/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/08/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		110	U
11104-28-2----	Aroclor-1221		110	U
11141-16-5----	Aroclor-1232		110	U
53469-21-9----	Aroclor-1242		110	U
12672-29-6----	Aroclor-1248		110	U
11097-69-1----	Aroclor-1254		1400	
11096-82-5----	Aroclor-1260		110	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0009

Client No.

224-AR-DS11-014-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204008

Sample wt/vol: 5.44 (g/mL) G

Lab File ID: PA21123.TX0

% Moisture: 18.2 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

5.6
5.6
5.6
5.6
5.6
140
5.6

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0010

Client No.

224-AR-DS11-015-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204009

Sample wt/vol: 5.28 (g/mL) G

Lab File ID: PA21114.TX0

% Moisture: 21.5 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	1.2	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.2	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0018

Client No.

224-AR-DS11-042-01FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204025

Sample wt/vol: 5.15 (g/mL) G

Lab File ID: PA21117.TX0

% Moisture: 19.5 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

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EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 8
Client No.

224-AR-DS11-016-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197343

Sample wt/vol: 5.29 (g/mL) G

Lab File ID: PA23234.TX0

% Moisture: 13.7 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		1.1	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00014

Client No.

224-AR-DS11-019-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197347

Sample wt/vol: 5.28 (g/mL) G

Lab File ID: PA20204.TX0

% Moisture: 13.1 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.2	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		29	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-AR-DS11-019-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253303

Sample wt/vol: 5.14 (g/mL) G

Lab File ID: QA46310.TX0

% Moisture: 15.7 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		140	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-AR-DS11-019-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253304

Sample wt/vol: 5.54 (g/mL) G

Lab File ID: QA47101.TX0

% Moisture: 17.3 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/25/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000015

Client No.

224-AR-DS11-020-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197348

Sample wt/vol: 5.33 (g/mL) G

Lab File ID: PA20205.TX0

% Moisture: 9.5 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/07/97

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

2.1
4.1
2.1
2.1
2.1
74
2.1

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EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00016

Client No.

224-AR-DS11-021-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197349

Sample wt/vol: 5.02 (g/mL) G

Lab File ID: PA20210.TX0

% Moisture: 14.5 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.3	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.2	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00017

Client No.

224-AR-DS11-022-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 1503A

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197350

Sample wt/vol: 5.29 (g/mL) G

Lab File ID: PA20211.TX0

% Moisture: 11.7 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.1	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

AS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 9

Client No.

224-AR-DS11-023-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204012

Sample wt/vol: 5.42 (g/mL) G

Lab File ID: PA23255.TX0

% Moisture: 19.3 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		23	U
11104-28-2----	Aroclor-1221		23	U
11141-16-5----	Aroclor-1232		23	U
53469-21-9----	Aroclor-1242		23	U
12672-29-6----	Aroclor-1248		23	U
11097-69-1----	Aroclor-1254		280	U
11096-82-5----	Aroclor-1260		23	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0011

Client No.

224-AR-DS11-024-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204013

Sample wt/vol: 5.21 (g/mL) G

Lab File ID: PA21129.TX0

% Moisture: 13.6 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.

COMPOUND

12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	1.1	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 10

Client No.

224-AR-DS11-025-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204015

Sample wt/vol: 5.68 (g/mL) G

Lab File ID: PA23235.TX0

% Moisture: 14.7 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0012

Client No.

224-AR-DS11-028-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204018

Sample wt/vol: 5.51 (g/mL) G

Lab File ID: PA21130.TX0

% Moisture: 13.0 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	2.1	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	2.1	U
53469-21-9----	Aroclor-1242	2.1	U
12672-29-6----	Aroclor-1248	2.1	U
11097-69-1----	Aroclor-1254	98	
11096-82-5----	Aroclor-1260	2.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0013

Client No.

224-AR-DS11-029-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204019

Sample wt/vol: 5.82 (g/mL) G

Lab File ID: PA21115.TX0

% Moisture: 13.0 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0014

Client No.

224-AR-DS11-030-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204020

Sample wt/vol: 5.61 (g/mL) G

Lab File ID: PA21128.TX0

% Moisture: 15.1 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

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EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0015

Client No.

224-AR-DS11-031-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204021

Sample wt/vol: 5.14 (g/mL) G

Lab File ID: PA21116.TX0

% Moisture: 13.2 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	<u>Q</u>
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		1.1	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		1.1	U
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0016

Client No.

224-AR-DS11-032-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204022

Sample wt/vol: 5.89 (g/mL) G

Lab File ID: PA21118.TX0

% Moisture: 11.3 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.

COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.0
1.0
1.0
1.0
1.0
3.0
1.0

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EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0000-7-

Client No.

224-AR-DS11-032-04

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263812

Sample wt/vol: 5.52 (g/mL) G

Lab File ID: QA47229.TX0

% Moisture: 11.2 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.0
1.0
1.0
1.0
1.0
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1.0

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EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00018

Client No.

224-AR-DS11-035-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197353

Sample wt/vol: 5.15 (g/mL) G

Lab File ID: PA20212.TX0

% Moisture: 13.1 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) MG/KG

Q

12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	4.1	
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00019
Client No.

224-AR-DS11-036-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197354

Sample wt/vol: 5.26 (g/mL) G

Lab File ID: PA20213.TX0

% Moisture: 17.6 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.2	U
11104-28-2----	Aroclor-1221		2.3	U
11141-16-5----	Aroclor-1232		1.2	U
53469-21-9----	Aroclor-1242		1.2	U
12672-29-6----	Aroclor-1248		1.2	U
11097-69-1----	Aroclor-1254		1.2	U
11096-82-5----	Aroclor-1260		1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00020

Client No.

224-AR-DS11-037-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197355

Sample wt/vol: 5.61 (g/mL) G

Lab File ID: PA20214.TX0

% Moisture: 10.2 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.0
2.0
1.0
1.0
1.0
1.0
1.0

U
U
U
U
U
U
U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

G0021

Client No.

224-AR-DS11-038-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7197356

Sample wt/vol: 5.28 (g/mL) G

Lab File ID: PA20215.TX0

% Moisture: 14.0 decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/05/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

85

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0017

Client No.

224-AR-DS11-039-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7204030

Sample wt/vol: 5.27 (g/mL) G

Lab File ID: PA21119.TX0

% Moisture: 12.1 decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/10/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	1.1	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0000 8

Client No.

224-AR-DS11-040-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263803

Sample wt/vol: 5.57 (g/mL) G

Lab File ID: QA47216.TX0

% Moisture: 14.7 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000008

Client No:

224-AR-DS11-041-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7275003

Sample wt/vol: 5.82 (g/mL) G

Lab File ID: PA26269.TX0

% Moisture: 9.5 decanted: (Y/N) N

Date Samp/Recv: 08/07/97 08/07/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/08/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/09/97

Injection Volume: 1.00 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	95	U
11104-28-2----	Aroclor-1221	95	U
11141-16-5----	Aroclor-1232	95	U
53469-21-9----	Aroclor-1242	95	U
12672-29-6----	Aroclor-1248	760	
11097-69-1----	Aroclor-1254	140	
11096-82-5----	Aroclor-1260	95	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0005

Client No.

224-AR-DS11-042-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7279901

Sample wt/vol: 5.43 (g/mL) G

Lab File ID: QA48247.TX0

% Moisture: 12.8 decanted: (Y/N) N

Date Samp/Recv: 08/12/97 08/13/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/14/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	<u>Q</u>
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

Separator Pond

Analytical Data Sheets
(Form I Reports)

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000004

Client No.

224-ST-DS11-104-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199504

Sample wt/vol: 5.31 (g/mL) G

Lab File ID: PA24143.TX0

% Moisture: 15.8 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 07/03/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	1.1	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.7	U
11096-82-5----	Aroclor-1260	1.1	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-ST-DS11-105-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199505

Sample wt/vol: 5.95 (g/mL) G

Lab File ID: PA24144.TX0

% Moisture: 21.0 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 07/03/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.1
1.1
1.1
1.1
1.1
1.1
1.1

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-ST-DS11-112-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199512

Sample wt/vol: 5.36 (g/mL) G

Lab File ID: PA24145.TX0

% Moisture: 45.7 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 07/03/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.7
1.7
1.7
1.7
1.7
30
1.7

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-ST-DS11-112-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253310

Sample wt/vol: 5.12 (g/mL) G

Lab File ID: QA46314.TX0

% Moisture: 17.0 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000007

Client No.

224-ST-DS11-112-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253308

Sample wt/vol: 5.61 (g/mL) G

Lab File ID: QA46313.TX0

% Moisture: 26.0 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.

COMPOUND

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.0
1.0
1.0
1.0
1.0
1.3
1.0

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000007

Client No.

224-ST-DS11-113-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199513

Sample wt/vol: 5.86 (g/mL) G

Lab File ID: PA24146.TX0

% Moisture: 31.6 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 07/02/07

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016	1.2	U	
11104-28-2----	Aroclor-1221	1.2	U	
11141-16-5----	Aroclor-1232	1.2	U	
53469-21-9----	Aroclor-1242	1.2	U	
12672-29-6----	Aroclor-1248	1.2	U	
11097-69-1----	Aroclor-1254	2.4	U	
11096-82-5----	Aroclor-1260	1.2	U	

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000003

Client No.

224-ST-DS11-114-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199514

Sample wt/vol: 5.05 (g/mL) G

Lab File ID: PA24147.TX0

% Moisture: 34.2 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 07/03/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/08/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.5
1.5
1.5
1.5
1.5
17
1.5

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

0000 9

Client No.

224-ST-DS11-114-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263804

Sample wt/vol: 5.04 (g/mL) G

Lab File ID: QA47217.TX0

% Moisture: 20.5 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	21	
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-ST-DS11-119-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199519

Sample wt/vol: 5.80 (g/mL) G

Lab File ID: PA21035.TX0

% Moisture: 23.5 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-ST-DS11-120-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199520

Sample wt/vol: 5.12 (g/mL) G

Lab File ID: PA21036.TX0

% Moisture: 38.5 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.6	U
11104-28-2----	Aroclor-1221	3.1	U
11141-16-5----	Aroclor-1232	1.6	U
53469-21-9----	Aroclor-1242	1.6	U
12672-29-6----	Aroclor-1248	1.6	U
11097-69-1----	Aroclor-1254	3.6	
11096-82-5----	Aroclor-1260	1.6	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000007

Client No.

224-ST-DS11-121-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199523

Sample wt/vol: 5.48 (g/mL) G

Lab File ID: PA21037.TX0

% Moisture: 27.5 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.5	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	2.2	
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000008

Client No.

224-ST-DS11-122-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199526

Sample wt/vol: 5.28 (g/mL) G

Lab File ID: PA21038.TX0

% Moisture: 33.5 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.4	U
11104-28-2----	Aroclor-1221	2.8	U
11141-16-5----	Aroclor-1232	1.4	U
53469-21-9----	Aroclor-1242	1.4	U
12672-29-6----	Aroclor-1248	1.4	U
11097-69-1----	Aroclor-1254	30	
11096-82-5----	Aroclor-1260	1.4	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000018

Client No.

224-ST-DS11-165-01-F

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200013

Sample wt/vol: 5.08 (g/mL) G

Lab File ID: PA20303.TX0

% Moisture: 25.2 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2---Aroclor-1016
11104-28-2---Aroclor-1221
11141-16-5---Aroclor-1232
53469-21-9---Aroclor-1242
12672-29-6---Aroclor-1248
11097-69-1---Aroclor-1254
11096-82-5---Aroclor-1260

1.3
2.6
1.3
1.3
1.3
1.3
1.3

U
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D
D
D
D

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000008

Client No.

224-ST-DS11-122-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253305

Sample wt/vol: 5.87 (g/mL) G

Lab File ID: QA46311.TX0

% Moisture: 43.9 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	52	
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	6.6	

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000009

Client No.

224-ST-DS11-122-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253306

Sample wt/vol: 5.73 (g/mL) G

Lab File ID: QA46312.TX0

% Moisture: 27.5 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	<u>Q</u>
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		8.8	
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.3	

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000009

Client No.

224-ST-DS11-123-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7199527

Sample wt/vol: 5.82 (g/mL) G

Lab File ID: PA21039.TX0

% Moisture: 54.2 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>MG/KG</u>	Q
12674-11-2----	Aroclor-1016	1.9	1
11104-28-2----	Aroclor-1221	3.8	2
11141-16-5----	Aroclor-1232	1.9	3
53469-21-9----	Aroclor-1242	1.9	4
12672-29-6----	Aroclor-1248	1.9	5
11097-69-1----	Aroclor-1254	2.6	6
11096-82-5----	Aroclor-1260	1.9	7

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000007

Client No.

224-ST-DS11-124-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200001

Sample wt/vol: 5.14 (g/mL) G

Lab File ID: PA21042.TX0

% Moisture: 35.1 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.5	U
11104-28-2----	Aroclor-1221	3.0	U
11141-16-5----	Aroclor-1232	1.5	U
53469-21-9----	Aroclor-1242	1.5	U
12672-29-6----	Aroclor-1248	1.5	U
11097-69-1----	Aroclor-1254	9.4	U
11096-82-5----	Aroclor-1260	1.5	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000008

Client No.

224-ST-DS11-125-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200002

Sample wt/vol: 5.53 (g/mL) G

Lab File ID: PA20293.TX0

% Moisture: 33.8 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.4
2.7
1.4
1.4
1.4
1.4
1.4

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000009

Client No.

224-ST-DS11-126-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200003

Sample wt/vol: 5.30 (g/mL) G

Lab File ID: PA20294.TX0

% Moisture: 38.6 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.5	U
11104-28-2----	Aroclor-1221		3.1	U
11141-16-5----	Aroclor-1232		1.5	U
53469-21-9----	Aroclor-1242		1.5	U
12672-29-6----	Aroclor-1248		1.5	U
11097-69-1----	Aroclor-1254		1.5	U
11096-82-5----	Aroclor-1260		1.5	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000010

Client No.

224-ST-DS11-127-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200004

Sample wt/vol: 5.79 (g/mL) G

Lab File ID: PA20295.TX0

% Moisture: 23.1 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.1
2.2
1.1
1.1
1.1
1.1
1.1
1.1

U
U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000011

Client No.

224-ST-DS11-128-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200005

Sample wt/vol: 5.28 (g/mL) G

Lab File ID: PA20296.TX0

% Moisture: 33.3 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.4
2.8
1.4
1.4
1.4
1.4
1.4

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000012

Client No.

224-ST-DS11-129-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200006

Sample wt/vol: 5.96 (g/mL) G

Lab File ID: PA21010.TX0

% Moisture: 34.8 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	13	U
11104-28-2----	Aroclor-1221	26	U
11141-16-5----	Aroclor-1232	13	U
53469-21-9----	Aroclor-1242	13	U
12672-29-6----	Aroclor-1248	13	U
11097-69-1----	Aroclor-1254	320	U
11096-82-5----	Aroclor-1260	13	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000010

Client No.

224-ST-DS11-129-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253311

Sample wt/vol: 5.24 (g/mL) G

Lab File ID: QA46315.TX0

% Moisture: 16.5 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	8.2	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000012

Client No.

224-ST-DS11-129-FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253317

Sample wt/vol: 5.77 (g/mL) G

Lab File ID: QA46321.TX0

% Moisture: 15.7 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		8.5	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000011

Client No.

224-ST-DS11-129-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253312

Sample wt/vol: 5.41 (g/mL) G

Lab File ID: QA46332.TX0

% Moisture: 15.6 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.9	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000013

Client No.

224-ST-DS11-130-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200007

Sample wt/vol: 5.23 (g/mL) G

Lab File ID: PA21011.TX0

% Moisture: 34.0 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----	Aroclor-1016	140	U
11104-28-2----	Aroclor-1221	290	U
11141-16-5----	Aroclor-1232	140	U
11141-16-5----	Aroclor-1232	140	U
53469-21-9----	Aroclor-1242	140	U
12672-29-6----	Aroclor-1248	140	U
11097-69-1----	Aroclor-1254	1000	U
11096-82-5----	Aroclor-1260	140	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000013

Client No.

224-ST-DS11-130-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253318

Sample wt/vol: 5.22 (g/mL) G

Lab File ID: QA46333.TX0

% Moisture: 25.5 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		2.9	U
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000014

Client No.

224-ST-DS11-130-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253319

Sample wt/vol: 5.89 (g/mL) G

Lab File ID: QA46323.TX0

% Moisture: 18.5 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		2.3	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000014

Client No.

224-ST-DS11-131-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200008

Sample wt/vol: 5.57 (g/mL) G

Lab File ID: PA20299.TX0

% Moisture: 33.8 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.4	U
11104-28-2----	Aroclor-1221	2.7	U
11141-16-5----	Aroclor-1232	1.4	U
53469-21-9----	Aroclor-1242	1.4	U
12672-29-6----	Aroclor-1248	1.4	U
11097-69-1----	Aroclor-1254	15	
11096-82-5----	Aroclor-1260	1.4	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000010

Client No.

224-ST-DS11-131-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263805

Sample wt/vol: 5.14 (g/mL) G

Lab File ID: QA47218.TX0

% Moisture: 27.8 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		26	
11097-69-1----	Aroclor-1254		27	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000015

Client No.

224-ST-DS11-132-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200009

Sample wt/vol: 5.92 (g/mL) G

Lab File ID: PA20300.TX0

% Moisture: 30.3 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	2.4	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.2	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000016

Client No.

224-ST-DS11-133-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200010

Sample wt/vol: 5.99 (g/mL) G

Lab File ID: PA20301.TX0

% Moisture: 16.3 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	MG/KG	Q
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000017

Client No.

224-ST-DS11-134-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7200011

Sample wt/vol: 5.33 (g/mL) G

Lab File ID: PA20302.TX0

% Moisture: 26.2 decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/06/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/10/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.3
2.5
1.3
1.3
1.3
1.7
1.3

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00006

Client No.

224-ST-DS11-136-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208625

Sample wt/vol: 5.38 (g/mL) G

Lab File ID: PA21267.TX0

% Moisture: 17.2 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.1
2.2
1.1
1.1
1.1
1.1
1.1

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00007

Client No.

224-ST-DS11-138-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208601

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: PA21258.TX0

% Moisture: 45.9 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.8	U
11104-28-2----	Aroclor-1221		3.6	U
11141-16-5----	Aroclor-1232		1.8	U
53469-21-9----	Aroclor-1242		1.8	U
12672-29-6----	Aroclor-1248		1.8	U
11097-69-1----	Aroclor-1254		18	
11096-82-5----	Aroclor-1260		1.8	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00008

Client No.

224-ST-DS11-139-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208604

Sample wt/vol: 5.66 (g/mL) G

Lab File ID: PA21259.TX0

% Moisture: 28.8 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.2
2.5
1.2
1.2
1.2
12
1.2

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00009

Client No.

224-ST-DS11-140-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208607

Sample wt/vol: 5.02 (g/mL) G

Lab File ID: PA21260.TX0

% Moisture: 29.7 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000(uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00(uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.4	U
11104-28-2----	Aroclor-1221		2.8	U
11141-16-5----	Aroclor-1232		1.4	U
53469-21-9----	Aroclor-1242		1.4	U
12672-29-6----	Aroclor-1248		1.4	U
11097-69-1----	Aroclor-1254		1.4	U
11096-82-5----	Aroclor-1260		1.4	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00010

Client No.

224-ST-DS11-141-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208619

Sample wt/vol: 5.11 (g/mL) G

Lab File ID: PA21266.TX0

% Moisture: 7.0 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	2.4	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000005

Client No.

224-ST-DS11-142-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205827

Sample wt/vol: 5.63 (g/mL) G

Lab File ID: LB52023.TX0

% Moisture: 22.5 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		15	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00011

Client No.

224-ST-DS11-143-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208609

Sample wt/vol: 5.01 (g/mL) G

Lab File ID: PA21261.TX0

% Moisture: 28.9 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000(uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00(uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.4	U
11104-28-2----	Aroclor-1221	2.8	U
11141-16-5----	Aroclor-1232	1.4	U
53469-21-9----	Aroclor-1242	1.4	U
12672-29-6----	Aroclor-1248	1.4	U
11097-69-1----	Aroclor-1254	4.8	U
11096-82-5----	Aroclor-1260	1.4	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00012

Client No.

224-ST-DS11-144-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208612

Sample wt/vol: 5.25 (g/mL) G

Lab File ID: PA21264.TX0

% Moisture: 11.5 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000(uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00(uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>MG/KG</u>	Q
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00013

Client No.

224-ST-DS11-145-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208629

Sample wt/vol: 5.07 (g/mL) G

Lab File ID: PA21268.TX0

% Moisture: 24.6 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.3	U
11104-28-2----	Aroclor-1221	2.6	U
11141-16-5----	Aroclor-1232	1.3	U
53469-21-9----	Aroclor-1242	1.3	U
12672-29-6----	Aroclor-1248	1.3	U
11097-69-1----	Aroclor-1254	1.4	U
11096-82-5----	Aroclor-1260	1.3	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000014

Client No.

224-ST-DS11-146-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208632

Sample wt/vol: 5.01 (g/mL) G

Lab File ID: PA21269.TX0

% Moisture: 7.1 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000(uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00(uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-ST-DS11-147-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205801

Sample wt/vol: 5.97 (g/mL) G

Lab File ID: LB52195.TX0

% Moisture: 23.9 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/18/97

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.

COMPOUND

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.1
1.1
1.1
1.1
1.1
59
1.1

U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 11

Client No.

224-ST-DS11-147-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205802

Sample wt/vol: 5.35 (g/mL) G

Lab File ID: PA23236.TX0

% Moisture: 25.2 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.2	U
11104-28-2----	Aroclor-1221		1.2	U
11141-16-5----	Aroclor-1232		1.2	U
53469-21-9----	Aroclor-1242		1.2	U
12672-29-6----	Aroclor-1248		1.2	U
11097-69-1----	Aroclor-1254		3.2	
11096-82-5----	Aroclor-1260		1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 12

Client No.

224-ST-DS11-147-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205803

Sample wt/vol: 5.61 (g/mL) G

Lab File ID: PA23237.TX0

% Moisture: 22.4 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.1
1.1
1.1
1.1
1.1
1.3
1.1

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000006

Client No.

224-ST-DS11-148-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205804

Sample wt/vol: 5.05 (g/mL) G

Lab File ID: QA47097.TX0

% Moisture: 26.2 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/25/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016	1.0		U UJ
11104-28-2----	Aroclor-1221	1.0		U UJ
11141-16-5----	Aroclor-1232	1.0		U UJ
53469-21-9----	Aroclor-1242	1.0		U UJ
12672-29-6----	Aroclor-1248	1.0		U UJ
11097-69-1----	Aroclor-1254	1.0		U UJ
11096-82-5----	Aroclor-1260	1.0		U UJ

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000007

Client No.

224-ST-DS11-149-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL Lab Sample ID: A7205807

Sample wt/vol: 5.46 (g/mL) G Lab File ID: LB52199.TX0

% Moisture: 32.9 decanted: (Y/N) N Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL) Date Analyzed: 06/19/97

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		60	DS
11096-82-5----	Aroclor-1260		1.0	DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 13

Client No.

224-ST-DS11-149-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205808

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: PA23238.TX0

% Moisture: 23.3 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.2	U
11104-28-2----	Aroclor-1221		1.2	U
11141-16-5----	Aroclor-1232		1.2	U
53469-21-9----	Aroclor-1242		1.2	U
12672-29-6----	Aroclor-1248		1.2	U
11097-69-1----	Aroclor-1254		1.2	U
11096-82-5----	Aroclor-1260		1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000 14

Client No.

224-ST-DS11-149-03

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205809

Sample wt/vol: 5.35 (g/mL) G

Lab File ID: PA23239.TX0

% Moisture: 21.5 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG
12674-11-2----	Aroclor-1016	1.2	U
11104-28-2----	Aroclor-1221	1.2	U
11141-16-5----	Aroclor-1232	1.2	U
53469-21-9----	Aroclor-1242	1.2	U
12672-29-6----	Aroclor-1248	1.2	U
11097-69-1----	Aroclor-1254	1.4	U
11096-82-5----	Aroclor-1260	1.2	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000008

Client No.

224-ST-DS11-150-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205810

Sample wt/vol: 5.72 (g/mL) G

Lab File ID: LB52014.TX0

% Moisture: 17.8 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.9	U
11096-82-5----	Aroclor-1260	1.0	U

BS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000013

Client No.

224-ST-DS11-168-01FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205813

Sample wt/vol: 5.80 (g/mL) G

Lab File ID: LB52015.TX0

% Moisture: 16.8 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	MG/KG Q
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	2.1	
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00009

Client No.

224-ST-DS11-151-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205815

Sample wt/vol: 5.17 (g/mL) G

Lab File ID: LB52016.TX0

% Moisture: 22.2 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND	MG/KG	Q
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000010

Client No.

224-ST-DS11-152-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205818

Sample wt/vol: 5.40 (g/mL) G

Lab File ID: LB52019.TX0

% Moisture: 15.2 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.0
1.0
1.0
1.0
1.0
1.0
1.0

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U
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U
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U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00011

Client No.

224-ST-DS11-154-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205824

Sample wt/vol: 5.27 (g/mL) G

Lab File ID: LB52020.TX0

% Moisture: 27.6 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	9.8	
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000012

Client No.

224-ST-DS11-155-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205825

Sample wt/vol: 5.34 (g/mL) G

Lab File ID: LB52021.TX0

% Moisture: 14.2 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.0
1.0
1.0
1.0
1.0
1.0
1.0

U
U
U
U
U
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U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00013

Client No.

224-ST-DS11-156-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7205826

Sample wt/vol: 5.82 (g/mL) G

Lab File ID: LB52022.TX0

% Moisture: 14.3 decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/11/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/13/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.1	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00015

Client No.

224-ST-DS11-157-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208635

Sample wt/vol: 5.02 (g/mL) G

Lab File ID: PA21270.TX0

% Moisture: 39.2 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000(uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00(uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.6	U
11104-28-2----	Aroclor-1221		3.3	U
11141-16-5----	Aroclor-1232		1.6	U
53469-21-9----	Aroclor-1242		1.6	U
12672-29-6----	Aroclor-1248		1.6	U
11097-69-1----	Aroclor-1254		1.6	U
11096-82-5----	Aroclor-1260		1.6	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000016

Client No.

224-ST-DS11-158-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208636

Sample wt/vol: 5.72 (g/mL) G

Lab File ID: PA21271.TX0

% Moisture: 22.8 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	<u>Q</u>
12674-11-2----	Aroclor-1016		1.1	U
11104-28-2----	Aroclor-1221		2.3	U
11141-16-5----	Aroclor-1232		1.1	U
53469-21-9----	Aroclor-1242		1.1	U
12672-29-6----	Aroclor-1248		1.1	U
11097-69-1----	Aroclor-1254		5.8	
11096-82-5----	Aroclor-1260		1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00017

Client No.

224-ST-DS11-159-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208637

Sample wt/vol: 5.44 (g/mL) G

Lab File ID: PA21272.TX0

% Moisture: 15.1 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.2	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00018

Client No.

224-ST-DS11-160-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNV

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208638

Sample wt/vol: 5.47 (g/mL) G

Lab File ID: PA22227.TX0

% Moisture: 13.9 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 1000000 (uL)

Date Analyzed: 06/21/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.1	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	1.1	U
53469-21-9----	Aroclor-1242	1.1	U
12672-29-6----	Aroclor-1248	1.1	U
11097-69-1----	Aroclor-1254	1.1	U
11096-82-5----	Aroclor-1260	1.1	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00019

Client No.

224-ST-DS11-161-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208614

Sample wt/vol: 5.20 (g/mL) G

Lab File ID: PA21265.TX0

% Moisture: 14.1 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.1
2.2
1.1
1.1
1.1
1.1
2.6
1.1

U
U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00020

Client No.

224-ST-DS11-162-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208639

Sample wt/vol: 5.70 (g/mL) G

Lab File ID: PA21276.TX0

% Moisture: 16.4 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	2.1	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

00021

Client No.

224-ST-DS11-163-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7208642

Sample wt/vol: 5.22 (g/mL) G

Lab File ID: PA21277.TX0

% Moisture: 25.6 decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 06/13/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.3	U
11104-28-2----	Aroclor-1221	2.6	U
11141-16-5----	Aroclor-1232	1.3	U
53469-21-9----	Aroclor-1242	1.3	U
12672-29-6----	Aroclor-1248	1.3	U
11097-69-1----	Aroclor-1254	1.3	U
11096-82-5----	Aroclor-1260	1.3	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000015

Client No.

224-ST-DS11-164-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253322

Sample wt/vol: 5.75 (g/mL) G

Lab File ID: QA46324.TX0

% Moisture: 34.4 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	<u>Q</u>
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		24	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000011

Client No.

224-ST-DS11-164-02

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263806

Sample wt/vol: 5.43 (g/mL) G

Lab File ID: QA47219.TX0

% Moisture: 33.3 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: -

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		28	
11096-82-5----	Aroclor-1260		1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000016

Client No.

224-ST-DS11-165-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNV

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253325

Sample wt/vol: 5.83 (g/mL) G

Lab File ID: QA46325.TX0

% Moisture: 62.6 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>MG/KG</u>	Q
12674-11-2----	Aroclor-1016		1.0	0.5
11104-28-2----	Aroclor-1221		1.0	0.5
11141-16-5----	Aroclor-1232		1.0	0.5
53469-21-9----	Aroclor-1242		1.0	0.5
12672-29-6----	Aroclor-1248		1.0	0.5
11097-69-1----	Aroclor-1254		1.1	0.5
11096-82-5----	Aroclor-1260		1.0	0.5

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000017

Client No.

224-ST-DS11-166-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7253327

Sample wt/vol: 5.62 (g/mL) G

Lab File ID: QA46326.TX0

% Moisture: 40.6 decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/21/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 07/22/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	MG/KG	Q
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000012

Client No.

224-ST-DS11-170-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263807

Sample wt/vol: 5.46 (g/mL) G

Lab File ID: QA47220.TX0

% Moisture: 20.4 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>MG/KG</u>	Q
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	1.0	U
11096-82-5----	Aroclor-1260	1.0	U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000013

Client No.

224-ST-DS11-171-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263808

Sample wt/vol: 5.67 (g/mL) G

Lab File ID: QA47225.TX0

% Moisture: 24.3 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: —

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

MG/KG

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.0
1.0
1.0
1.0
1.0
1.0
1.0

U
U
U
U
U
U
U

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000014

Client No.

224-ST-DS11-172-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263809

Sample wt/vol: 5.19 (g/mL) G

Lab File ID: QA47226.TX0

% Moisture: 40.5 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	1.0	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	1.0	U
53469-21-9----	Aroclor-1242	1.0	U
12672-29-6----	Aroclor-1248	1.0	U
11097-69-1----	Aroclor-1254	6.5	
11096-82-5----	Aroclor-1260	1.0	U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000015

Client No.

224-ST-DS11-173-01

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263810

Sample wt/vol: 5.49 (g/mL) G

Lab File ID: QA47227.TX0

% Moisture: 12.6 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

MG/KG

Q

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

1.0
1.0
1.0
1.0
1.0
1.0
1.0

U
U
U
U
U
U
U

DS

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000016

Client No.

224-ST-DS11-173-FD

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7263810FD

Sample wt/vol: 5.70 (g/mL) G

Lab File ID: QA47228.TX0

% Moisture: 12.6 decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 07/31/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
12674-11-2----	Aroclor-1016		1.0	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		1.0	U
53469-21-9----	Aroclor-1242		1.0	U
12672-29-6----	Aroclor-1248		1.0	U
11097-69-1----	Aroclor-1254		1.0	U
11096-82-5----	Aroclor-1260		1.0	U

85

Rinsate Samples

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000023

Client No.

224-AR-DS11-041-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7197327

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA20125.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/05/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/06/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
12674-11-2----	Aroclor-1016		0.50	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		0.50	U
53469-21-9----	Aroclor-1242		0.50	U
12672-29-6----	Aroclor-1248		0.50	U
11097-69-1----	Aroclor-1254		0.50	U
11096-82-5----	Aroclor-1260		0.50	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

0019

Client No.

224-AR-DS11-044-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7204028

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA21168.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/12/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.50	U
11096-82-5----	Aroclor-1260	0.50	U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

0020

Client No.

224-AR-DS11-045-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7204029

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA21169.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/09/97 06/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/12/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.50	U
11096-82-5----	Aroclor-1260	0.50	U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

00033

Client No.

224-CB-DS11-075-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SA SAS No.: _____ SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7197318

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA20124.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/04/97 06/05/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/05/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/06/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
12674-11-2----	Aroclor-1016		0.50	U
11104-28-2----	Aroclor-1221		1.0	U
11141-16-5----	Aroclor-1232		0.50	U
53469-21-9----	Aroclor-1242		0.50	U
12672-29-6----	Aroclor-1248		0.50	U
11097-69-1----	Aroclor-1254		0.50	U
11096-82-5----	Aroclor-1260		0.50	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000005

Client No.

224-ST-DB11-166-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7200014

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA21170.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/06/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/12/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

0.50
1.0
0.50
0.50
0.50
0.50
0.50

Q

0.5
↓

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

224-ST-DB11-167-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7200015

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA21142.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/05/97 06/06/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/06/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/12/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO. COMPOUND

12674-11-2----Aroclor-1016
11104-28-2----Aroclor-1221
11141-16-5----Aroclor-1232
53469-21-9----Aroclor-1242
12672-29-6----Aroclor-1248
11097-69-1----Aroclor-1254
11096-82-5----Aroclor-1260

0.50
1.0
0.50
0.50
0.50
0.50
0.50

✓
✓
✓
✓
✓
✓
✓

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

00015

Client No.

224-ST-DB11-169-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7205814

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA22095.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/10/97 06/11/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/12/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/18/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

0.50
1.0
0.50
0.50
0.50
0.50
0.50
0.50

U
U
U
U
U
U
U
U

00022

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

Client No.

224-ST-DS11-171-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECN

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7208646

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA21256.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/12/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.50	U
11096-82-5----	Aroclor-1260	0.50	U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

00023

Client No.

224-ST-DS11-172-01RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SA

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7208647

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA21257.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 06/11/97 06/12/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 06/12/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/17/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	1.0	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.50	U
11096-82-5----	Aroclor-1260	0.50	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000018

Client No.

224-ST-DS11-200-RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY Case No.: 150SR SAS No.: _____ SDG No.: 224

Matrix: (soil/water) WATER Lab Sample ID: A7253335

Sample wt/vol: 1000.00 (g/mL) ML Lab File ID: QA47052.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 07/22/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
12674-11-2----	Aroclor-1016		0.50	U
11104-28-2----	Aroclor-1221		0.50	U
11141-16-5----	Aroclor-1232		0.50	U
53469-21-9----	Aroclor-1242		0.50	U
12672-29-6----	Aroclor-1248		0.50	U
11097-69-1----	Aroclor-1254		0.50	U
11096-82-5----	Aroclor-1260		0.50	U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000019

Client No.

224-ST-DS11-201-RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7253336

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA47051.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 07/21/97 07/21/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 07/22/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/24/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
12674-11-2----	Aroclor-1016		0.50	✓
11104-28-2----	Aroclor-1221		0.50	✓
11141-16-5----	Aroclor-1232		0.50	✓
53469-21-9----	Aroclor-1242		0.50	✓
12672-29-6----	Aroclor-1248		0.50	✓
11097-69-1----	Aroclor-1254		0.50	✓
11096-82-5----	Aroclor-1260		0.50	✓

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000017

Client No.

224-ST-DS11-202-RS

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7263811

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: PA26005.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 07/30/97 07/31/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 07/31/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/01/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2----	Aroclor-1016	0.50	U
11104-28-2----	Aroclor-1221	0.50	U
11141-16-5----	Aroclor-1232	0.50	U
53469-21-9----	Aroclor-1242	0.50	U
12672-29-6----	Aroclor-1248	0.50	U
11097-69-1----	Aroclor-1254	0.50	U
11096-82-5----	Aroclor-1260	0.50	U

DS

Water Treatment Samples
(Including a Soil Sample Collected from Treated Water
Discharge Area)

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000005

Client No.

Lab Name: Recra LabNet

Contract: _____

CARBON UNIT-1

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298401

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50207.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
12674-11-2----	Aroclor-1016		0.065	U
11104-28-2----	Aroclor-1221		0.065	U
11141-16-5----	Aroclor-1232		0.065	U
53469-21-9----	Aroclor-1242		0.065	U
12672-29-6----	Aroclor-1248		0.065	U
11097-69-1----	Aroclor-1254		0.17	U
11096-82-5----	Aroclor-1260		0.065	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

CARBON UNIT-2

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298402

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50208.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.12	U
11096-82-5----	Aroclor-1260	0.065	U

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000005

Client No.

T-1287-1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298501

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50209.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/26/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.63	U
11096-82-5----	Aroclor-1260	0.065	U

EL PASO ENERGY
METHOD 8080 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000 6

Client No.

T-1442-1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A7301602

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50249.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/28/97 08/29/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/30/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
12674-11-2----	Aroclor-1016	0.065	0.065	0.05
11104-28-2----	Aroclor-1221	0.065	0.065	0.05
11141-16-5----	Aroclor-1232	0.065	0.065	0.05
53469-21-9----	Aroclor-1242	0.065	0.065	0.05
12672-29-6----	Aroclor-1248	0.065	0.065	0.05
11097-69-1----	Aroclor-1254	1.3	1.3	0.05
11096-82-5----	Aroclor-1260	0.065	0.065	0.05

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

T-1696-1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298502

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: OA50210.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.091	U
11096-82-5----	Aroclor-1260	0.065	U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000007

Client No.

T-1696-2

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: 150SR

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) WATER

Lab Sample ID: A7298503

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50211.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/27/97 08/27/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/28/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/28/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

CAS NO.	COMPOUND	UG/L	Q
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.077	U
11096-82-5----	Aroclor-1260	0.065	U

EL PASO ENERGY
METHOD 8080 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000 5

Client No.

T-E1560

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A7301601

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: QA50248.TX0

% Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 08/28/97 08/29/97

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 08/30/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/02/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND		
12674-11-2----	Aroclor-1016	0.065	U
11104-28-2----	Aroclor-1221	0.065	U
11141-16-5----	Aroclor-1232	0.065	U
53469-21-9----	Aroclor-1242	0.065	U
12672-29-6----	Aroclor-1248	0.065	U
11097-69-1----	Aroclor-1254	0.12	~~U~~ N
11096-82-5----	Aroclor-1260	0.065	U

DS
12/15/97

EL PASO ENERGY
PCB ANALYSIS - REI METHOD
ANALYSIS DATA SHEET

000004

Client No.

224-WATER-DISCHARGE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7304301

Sample wt/vol: 5.64 (g/mL) G

Lab File ID: QA50328.TX0

% Moisture: 29.0 decanted: (Y/N) N

Date Samp/Recv: 08/29/97 09/03/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/04/97

Concentrated Extract Volume: 100000 (uL)

Date Analyzed: 09/04/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/KG

Q

CAS NO.	COMPOUND
12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

1.0
1.0
1.0
1.0
1.0
1.0
1.0

U
U
U
U
U
U
U

Equipment Wipe Samples

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000008

Client No.

224-LREXCAVATOR

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318703

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51119.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/06/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/WIP

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/WIP	Q
12674-11-2----	Aroclor-1016	0.50	U	
11104-28-2----	Aroclor-1221	0.50	U	
11141-16-5----	Aroclor-1232	0.50	U	
53469-21-9----	Aroclor-1242	0.50	U	
12672-29-6----	Aroclor-1248	0.50	U	
11097-69-1----	Aroclor-1254	0.50	U	
11096-82-5----	Aroclor-1260	0.50	U	

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000007

Client No.

224-PUMP

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318702

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51120.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/06/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg)

UG/WIP

Q

12674-11-2----	Aroclor-1016
11104-28-2----	Aroclor-1221
11141-16-5----	Aroclor-1232
53469-21-9----	Aroclor-1242
12672-29-6----	Aroclor-1248
11097-69-1----	Aroclor-1254
11096-82-5----	Aroclor-1260

0.50

U

0.50

U

0.50

U

0.50

U

0.50

U

1.3

0.50

U

DS

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000006

Client No.

224-TRUCKHOE

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318701

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51121.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/06/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/WIP</u>	<u>Q</u>
12674-11-2----	Aroclor-1016	0.50	U	
11104-28-2----	Aroclor-1221	0.50	U	
11141-16-5----	Aroclor-1232	0.50	U	
53469-21-9----	Aroclor-1242	0.50	U	
12672-29-6----	Aroclor-1248	0.50	U	
11097-69-1----	Aroclor-1254	2.4		
11096-82-5----	Aroclor-1260	0.50	U	

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000010

Client No.

V-FRAC3-WP1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318705

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51117.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/09/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/WIP</u>	<u>Q</u>
12674-11-2----	Aroclor-1016	0.50	U	
11104-28-2----	Aroclor-1221	0.50	U	
11141-16-5----	Aroclor-1232	0.50	U	
53469-21-9----	Aroclor-1242	0.50	U	
12672-29-6----	Aroclor-1248	0.50	U	
11097-69-1----	Aroclor-1254	2.1		
11096-82-5----	Aroclor-1260	0.50	U	

85

EL PASO ENERGY
METHOD 8081 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000009

Client No.

V-FRAC4-WP1

Lab Name: Recra LabNet

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 224

Matrix: (soil/water) SOIL

Lab Sample ID: A7318704

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: QA51118.TX0

% Moisture: 0.0 decanted: (Y/N) N

Date Samp/Recv: 09/09/97 09/10/97

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 09/10/97

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/11/97

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/WIP

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/WIP</u>	<u>Q</u>
12674-11-2----	Aroclor-1016	0.50	U	
11104-28-2----	Aroclor-1221	0.50	U	
11141-16-5----	Aroclor-1232	0.50	U	
53469-21-9----	Aroclor-1242	0.50	U	
12672-29-6----	Aroclor-1248	0.50	U	
11097-69-1----	Aroclor-1254	0.91		
11096-82-5----	Aroclor-1260	0.50	U	

Chain-of-Custody Forms

BBLBASING ROCK, ALLE, INC.
engineers & scientists6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 448-9120

ICASC FNA RESULTS TO NELSON Cordoba

Fax#(713) 757-4654

COC #

224-11-060497-1

Hard Copy to Dwight Schaeper + Nelson
Cordoba in Houston, TX @ TGPL

CHAIN OF CUSTODY RECORD

Compressor Building

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS	
513.420		Tennessee Gas Pipeline Station 224		Todd P. Mennell					
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		REMARKS		
CB-11-060	6/4/97	1030		X	224-CB-DS11-060-01		X	* Extract / Hld = E/H	
CB-11-061		1120		X	224-CB-DS11-061-01		X	* E/H	
CB-11-062		1050		X	224-CB-DS11-062-01		X	* E/H	
CB-11-063		1040		X	224-CB-DS11-063-01		X	* Analyze	
CB-11-064		1110		X	224-CB-DS11-064-01		X	* Analyze	
CB-11-065		1100		X	224-CB-DS11-065-01		X	* Analyze	
CB-11-066		1130		X	224-CB-DS11-066-01		X	* Analyze	
CB-11-066		1140		X	224-CB-DS11-066-02		X	* E/H	
CB-11-068		0920		X	224-CB-DS11-068-01		X	* E/H	
-		-		X	224-CB-DS11-067-01FD		X	* Analyze	
CB-11-069		0930		X	224-CB-DS11-069-01		X	* E/H	
CB-11-070		0940		X	224-CB-DS11-070-01		X	* E/H	
CB-11-071		0950		X	224-CB-DS11-071-01		X	* Analyze	
CB-11-072	V	1000		X	224-CB-DS11-072-01		X	* Analyze	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		DATE	TIME	Relinquished by: (Signature)	
Todd P. Mennell		6/4/97	1400						
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		DATE	TIME	Relinquished by: (Signature)	
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:	
				V. Deane		6/5/97	0945	3 Day T.A.T	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 448-9120

COC #

224-11-060497-2

CHAIN OF CUSTODY RECORD

Compressor Building

PROJ. NO.		PROJECT NAME								
513.4201		Tennessee Gas Pipeline Station 224								
SAMPLERS: (Signature) Todd P. Marshall										
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	REMARKS				
CB-11-065	6/4/97	1100		X	224-CB-DS11-065-01MS/MSD	X				X Analyze (MS/MSD)
CB-11-073		1150		X	224-CB-DS11-073-01	X				X Analyze
CB-11-074		1010		X	224-CB-DS11-074-01	X				X Analyze
CB-11-074		1020		X	224-CB-DS11-074-02	X				X Extract / Hld = E/H
-		1025		X	224-CB-DB11-075-01RS	X				X Analyze (Equipment Rinse Blank)
CB-11-076		0800		X	224-CB-DS11-076-01	X				X E/H
CB-11-077		0850		X	224-CB-DS11-077-01	X				X E/H
CB-11-078		0836		X	224-CB-DS11-078-01	X				X E/H
CB-11-079		0810		X	224-CB-DS11-079-01	X				X Analyze
CB-11-080		0840		X	224-CB-DS11-080-01	X				X Analyze
CB-11-081		0820		X	224-CB-DS11-081-01	X				X Analyze
CB-11-082		0900		X	224-CB-DS11-082-01	X				X Analyze
CB-11-082		0910		X	224-CB-DS11-082-02	X				X Analyze
-	✓	-		X	224-AR-DB11-041-01RS	X				X Analyze (Equipment Rinse Blank)
Relinquished by: (Signature) Todd P. Marshall		DATE 6/4/97	TIME 1900	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature) J. Brown		DATE 6/5/97	TIME 0945	Remarks: 3 Day T.A.T.		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

**6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120**

COC# 224-11-060497-3

CHAIN OF CUSTODY RECORD

Aux. Building + Air Receiver

PROJ. NO.		PROJECT NAME	
SAMPLERS: (Signature)			
STA. NO.	DATE	TIME	STATION LOCATION
AB-11-040	6/4/97	1200	224-AB-DS11-040-01
AB-11-041		1210	224-AB-DS11-041-01
AB-11-042		1220	224-AB-DS11-042-01
AB-11-043		1230	224-AB-DS11-043-01
AB-11-044		1240	224-AB-DS11-044-01
AB-11-044		1250	224-AB-DS11-044-02
AR-11-001		1300	224-AR-DS11-001-01
AR-11-002		1310	224-AR-DS11-002-01
AR-11-002		1320	224-AR-DS11-002-02
AR-11-003		1330	224-AR-DS11-003-01
AR-11-004		1340	224-AR-DS11-004-01
AR-11-006		1350	224-AR-DS11-006-01
AR-11-007		1400	224-AR-DS11-007-01
AR-11-008	6/4/97	1410	224-AR-DS11-008-01

REMARKS
 Extract / Hold = E/H
 E/H
 Analyze
 Analyze
 Analyze
 E/H
 E/H
 E/H
 E/H
 Analyze
 Analyze
 Analyze
 Analyze

PROJECT NAME
 Tennessee Gas Pipeline Station 224
 SAMPLERS: (Signature)
 Todd P. Merrill

STA. NO. DATE TIME STATION LOCATION
 AB-11-040 6/4/97 1200 224-AB-DS11-040-01
 AB-11-041 1210 224-AB-DS11-041-01
 AB-11-042 1220 224-AB-DS11-042-01
 AB-11-043 1230 224-AB-DS11-043-01
 AB-11-044 1240 224-AB-DS11-044-01
 AB-11-044 1250 224-AB-DS11-044-02
 AR-11-001 1300 224-AR-DS11-001-01
 AR-11-002 1310 224-AR-DS11-002-01
 AR-11-002 1320 224-AR-DS11-002-02
 AR-11-003 1330 224-AR-DS11-003-01
 AR-11-004 1340 224-AR-DS11-004-01
 AR-11-006 1350 224-AR-DS11-006-01
 AR-11-007 1400 224-AR-DS11-007-01
 AR-11-008 6/4/97 1410 224-AR-DS11-008-01

Relinquished by: (Signature)
 Todd P. Merrill
 DATE 6/4/97 TIME 1400
 Received by: (Signature)
 Relinquished by: (Signature)
 DATE TIME
 Received for Laboratory by: (Signature)
 DATE 6/5/97 TIME 0945
 Remarks: 3 Day T.A.T

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

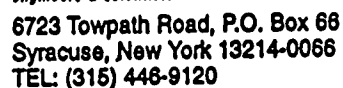


CHAIN OF CUSTODY RECORD

Air Receiver Tanks

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		REMARKS	
513.4201		Tennessee Gas Pipeline Station 224		Todd P. Marshall			
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		
AR-11-009	6/4/97	1420		X	224-AR-DS11-009-01	X	Analyze
AR-11-016		1430		X	224-AR-DS11-016-01	X	Extract / Hold = E/H
AR-11-017		1440		X	224-AR-DS11-017-01	X	E/H
AR-11-018		1450		X	224-AR-DS11-018-01	X	E/H
AR-11-018		1500		X	224-AR-DS11-018-02	X	E/H
AR-11-019		1510		X	224-AR-DS11-019-01	X	Analyze
AR-11-020		1520		X	224-AR-DS11-020-01	X	Analyze
AR-11-021		1530		X	224-AR-DS11-021-01	X	Analyze
AR-11-022		1540		X	224-AR-DS11-022-01	X	Analyze
AR-11-033		1550		X	224-AR-DS11-033-01	X	E/H
AR-11-034		1600		X	224-AR-DS11-034-01	X	E/H
AR-11-035		1610		X	224-AR-DS11-035-01	X	Analyze
AR-11-036		1620		X	224-AR-DS11-036-01	X	Analyze
AR-11-037	V	1630		X	224-AR-DS11-037-01	X	Analyze
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)	
Todd P. Marshall		6/4/97	1900				
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)	
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME
				V. Breaux		6/5/97	0945
				Remarks: 3 Day T.A.T			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



COC # 224-11-060497-5

CHAIN OF CUSTODY RECORD

Air Receiver Tanks

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*Tax RESULTS To Nelson Cordoba @ tax-(112) 15 4657

BBL
BASANO, BLOK & LEE, INC.
engineers & scientists

6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

Send Hard Copy to Dwight Schaefer and
Nelson Cordoba of TGPL, Houston, Tx

COC#

224-11-060597-1

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME																			
SB-4201		Teatro Station 224																			
SAMPLERS: (Signature)				Todd P. Merrill																	
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Number of Containers	PCB's	Method	REF-III-01-04	REMARKS											
ST-4-101	6/5/97	1020		X	224-ST-DS11-101-01	X															X Extract / Hold = E/H
ST-11-102		1030		X	224-ST-DS11-102-01	X															X E/H
ST-11-102		1030		X	224-ST-DS11-102-01MSMSD	X															X E/H (MS/MSD)
ST-11-103		1040		X	224-ST-DS11-103-01	X															X E/H
ST-11-104		1050		X	224-ST-DS11-104-01	X															X E/H
ST-11-105		1100		X	224-ST-DS11-105-01	X															X E/H
ST-11-106		1110		X	224-ST-DS11-106-01	X															X E/H
ST-11-107		1120		X	224-ST-DS11-107-01	X															X E/H
ST-11-108		1130		X	224-ST-DS11-108-01	X															X E/H
ST-11-109		1140		X	224-ST-DS11-109-01	X															X E/H
ST-11-110		1150		X	224-ST-DS11-110-01	X															X E/H
ST-11-111		1200		X	224-ST-DS11-111-01	X															X E/H
ST-11-112		1210		X	224-ST-DS11-112-01	X															X E/H
ST-11-113	V	1220		X	224-ST-DS11-113-01	X															X E/H
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)							
Todd P. Merrill		6/5/97		1900																	
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)							
Relinquished by: (Signature)		DATE		TIME		Received for Laboratory by: (Signature)		DATE		TIME		Remarks:									
						D. J. Cordoba		6/6/97		0930		3 Day T.A.T									

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

000020

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engineers & scientists6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

COC# 224-11-060597-2

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME													
513.4201		Tennessee Gas Pipeline Station 224													
SAMPLERS: (Signature)				Todd P. Merrill											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION					REMARKS					
ST-11-114	6/5/97	1230		X	224-ST-DS11-114-01					X				X	Extract / Hold = E/H
ST-11-115		1240		X	224-ST-DS11-115-01					X				X	E/H
ST-11-116		1250		X	224-ST-DS11-116-01					X				X	E/H
ST-11-117		1300		X	224-ST-DS11-117-01					X				X	E/H
ST-11-118		1310		X	224-ST-DS11-118-01					X				X	E/H
ST-11-119		1320		X	224-ST-DS11-119-01					X				X	Analyze
ST-11-120		1330		X	224-ST-DS11-120-01					X				X	Analyze
ST-11-120		1340		X	224-ST-DS11-120-02					X				X	E/H
ST-11-120		1350		X	224-ST-DS11-120-03					X				X	E/H
ST-11-121		1400		X	224-ST-DS11-121-01					X				X	Analyze
ST-11-121		1410		X	224-ST- ~~SDH~~ DS11-121-02					X				X	E/H
ST-11-121		1420		X	224-ST-DS11-121-03					X				X	E/H
ST-11-122		1430		X	224-ST-DS11-122-01					X				X	Analyze
ST-11-123	✓	1440		X	224-ST-DS11-123-01					X				X	Analyze
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)		
Todd P. Merrill			6/5/97	1900											
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)		
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			DATE	TIME	Remarks:					
								6/6/97	0930	Colder = 2°C					

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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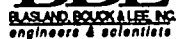
Coc # 224-11-060597-3

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME																						
513.42A		Tennessee Gas Pipeline Station 224																						
SAMPLERS: (Signature)				Todd P. Marshall																				
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										REMARKS									
ST-11-124	6/5/97	1450		X	224-ST-DS11-124-01										* Analyze									
ST-11-125		1500		X	224-ST-DS11-125-01										* Analyze									
ST-11-126		1510		X	224-ST-DS11-126-01										* Analyze									
ST-11-127		1520		X	224-ST-DS11-127-01										* Analyze									
ST-11-128		1530		X	224-ST-DS11-128-01										* Analyze									
ST-11-129		1540		X	224-ST-DS11-129-01										* Analyze									
ST-11-130		1550		X	224-ST-DS11-130-01										* Analyze									
ST-11-131		1600		X	224-ST-DS11-131-01										* Analyze									
ST-11-132		1610		X	224-ST-DS11-132-01										* Analyze									
ST-11-133		1620		X	224-ST-DS11-133-01										* Analyze									
ST-11-134		1630		X	224-ST-DS11-134-01										* Analyze									
ST-11-123		1440		X	224-ST-DS11-123-01MSMSD										* Analyze (MS/MSD)									
-		-		X	224-ST-DS11-164-01-FD										* E/H									
-	V	-		X	224-ST-DS11-165-01-FD										* Analyze									
Relinquished by: (Signature)				DATE	TIME	Received by: (Signature)				Relinquished by: (Signature)				DATE	TIME	Relinquished by: (Signature)								
Todd P. Marshall				6/5/97	1900																			
Relinquished by: (Signature)				DATE	TIME	Received by: (Signature)				Relinquished by: (Signature)				DATE	TIME	Relinquished by: (Signature)								
Relinquished by: (Signature)				DATE	TIME	Received by: (Signature)				DATE	TIME	Remarks:												
										6/6/97	0930	Coker-wic												

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

000032



CHAIN OF CUSTODY RECORD

COC # 224-11-060597-4

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

000033

* Please Fax Results to Nelson Cordoba Fax# (313) 757-4654

COC# 224-11-060997-1

0033

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engineers & scientists

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Syracuse, New York 13214-0066
TEL: (315) 446-9120

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in Houston, Tx @ TGPL

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME																			
513.42.01		Tennessee Gas Pipeline Station 224																			
SAMPLERS: (Signature)				Todd P. Merrill																	
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	PCBS	Method	REI-III-01-04												REMARKS	
AR-11-005	6/9/97	1350		X	224-AR-DS11-005-01		X													X Extract / Hold = E/H	
AR-11-010		1400		X	224-AR-DS11-010-01		X													X Analyze	
AR-11-011		1420		X	224-AR-DS11-011-01		X													X Analyze	
AR-11-011		1435		X	224-AR-DS11-011-02		X													X E/H	
AR-11-012		1450		X	224-AR-DS11-012-01		Y													X Analyze	
AR-11-013		1200		X	224-AR-DS11-013-01		Y													X Analyze	
AR-11-013		1200		X	224-AR-DS11-013-01 MS/MSD		Y													X Analyze (MS/MSD)	
AR-11-013		1210		X	224-AR-DS11-013-02		Y													X E/H	
AR-11-013		1210		X	224-AR-DS11-013-02 MS/MSD		X													X E/H (MS/MSD)	
AR-11-014		1830		X	224-AR-DS11-014-01		Y													X Analyze	
AR-11-015		1230		X	224-AR-DS11-015-01		Y													X Analyze	
AR-11-015		1240		X	224-AR-DS11-015-02		Y													X E/H	
AR-11-015		1250		X	224-AR-DS11-015-03		Y													X E/H	
AR-11-023	✓	1520		X	224-AR-DS11-023-01		X													X E/H	
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)							
Todd P. Merrill		6/9/97		1930																	
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)							
Relinquished by: (Signature)		DATE		TIME		Received for Laboratory by: (Signature)		DATE		TIME		Remarks:									
						B. Brown		6/10/97		0930 (Corder = 42)		3 Day T.A.T									

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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TEL: (315) 446-9120

Coc[#]: 224-11-060997-2.

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION NO.		DATE	TIME	COMP.	GRAB	STATION LOCATION		REMARKS	
513.4201		Tennessee Gas Pipeline Station 224		Todd P. Merrill											
AR-V-024		6/9/97		1620		X		224-AR-DS11-024-01		X		* Analyze			
AR-V-024				1640		X		224-AR-DS11-024-02		X		* Extract/Hold = E/H			
AR-V-025				1700		X		224-AR-DS11-025-01		X		* E/H			
AR-V-026				1720		X		224-AR-DS11-026-01		X		* E/H			
AR-V-027				1550		X		224-AR-DS11-027-01		X		* E/H			
AR-V-028				1740		X		224-AR-DS11-028-01		X		* Analyze			
AR-V-029				1800		X		224-AR-DS11-029-01		X		* Analyze			
AR-V-030				1530		X		224-AR-DS11-030-01		X		* Analyze			
AR-V-031				1540		X		224-AR-DS11-031-01		X		* Analyze			
AR-V-032				1130		X		224-AR-DS11-032-01		X		* Analyze			
AR-V-032				1140		X		224-AR-DS11-032-02		X		* E/H			
AR-V-032				1150		X		224-AR-DS11-032-03		X		* E/H			
-				-		X		224-AR-DS11-042-01 FD		X		* Analyze			
-				-		X		224-AR-DS11-043-01 FD		X		* E/H			
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)	
Todd P. Merrill		6/9/97		1930											
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)	
Relinquished by: (Signature)		DATE		TIME		Received for Laboratory by: (Signature)		DATE		TIME		Remarks:			
						D. Brown		6/10/97		0930		Cooler 3 Day T.A.T.			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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COC# 224-11-060997-3

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS		
513.4201		Tennessee Gas Pipeline Station 224		Todd P. Meindl						
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	REMARKS				
AR-11-013	6/9/97	1220		X	224-AR-DS11-013-03	* Extract / Hold				
-	↓	1810		X	224-AR-DB11-044-01RS	* Analyze				
-	↓	1820		X	224-AR-DB11-045-01RS	* Analyze				
AR-11-039	↓			X	224-AR-DS11-039-01	* Analyze				
↓	↓			X	224-AR-DS11-039-02	* Extract / Hold				
↓	↓			X	224-AR-DS11-039-03	* Extract / Hold				
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Todd P. Meindl		6/9/97	1930							
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:		
				P. Brown		6/10/97	0930	Cooler = 42		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

• Please Fax Results to Nelson Cordoba Fax#

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in Houston, Tx. @ TGPL

COC# 224-11-061097-1

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS		
513.42.01		Tennessee Gas Pipeline Station 224								
STA. NO.	DATE	TIME	COMP.	GRAB						
ST-11-147	6/16/97	1200		X	224-ST-DS11-147-01	X			* Analyze	
↓		1210		X	224-ST-DS11-147-02	X			* Extract / Hold = E/H	
↓		1220		X	224-ST-DS11-147-03	X			* E/H	
ST-11-148		1240		X	224-ST-DS11-148-01	X			* E/H	
↓		1250		X	224-ST-DS11-148-02	X			* E/H	
↓		1300		X	224-ST-DS11-148-03	X			* E/H	
ST-11-149		1320		X	224-ST-DS11-149-01	X			* Analyze	
↓		1330		X	224-ST-DS11-149-02	X			* E/H	
↓		1340		X	224-ST-DS11-149-03	X			* E/H	
ST-11-150		1400		X	224-ST-DS11-150-01	X			* Analyze	
↓		1410		X	224-ST-DS11-150-02	X			* E/H	
↓		1420		X	224-ST-DS11-150-03	X			* E/H	
ST-11-160		—		X	224-ST-DS11-168-01FD	X			* Analyze	
↓	1720			X	224-ST-DS11-169-01RS	X			* Analyze (Equipment Rinse Blank)	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Tedd C. Munn		6/16/97	1930							
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:		
				D. Schaeper		6/11/97	0930	3 Day T.A.T.		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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Syracuse, New York 13214-0066
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COC# 224-11-061097-2

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION NO.		DATE		TIME		COMP.		GRAB		STATION LOCATION		REMARKS			
513.42.01		Tennessee Gas Pipeline Station 224		Todd P. Merrill																	
ST-11-151		6/10/97		1440		X		224-ST-DS11-151-01		X								* Analyze			
↓				1450		X		224-ST-DS11-151-02		X								* Extract / Hold = E/H			
↓				1500		X		224-ST-DS11-151-03		X								* E/H			
ST-11-152				1520		X		224-ST-DS11-152-01		X								* Analyze			
↓				1530		X		224-ST-DS11-152-02		X								* Extract / Hold			
↓				1540		X		224-ST-DS11-152-03		X								* E/H			
ST-11-153				1600		X		224-ST-DS11-153-01		X								* E/H			
↓				1610		X		224-ST-DS11-153-02		X								* E/H			
↓				1620		X		224-ST-DS11-153-03		X								* E/H			
ST-11-154				1640		X		224-ST-DS11-154-01		X								* Analyze			
ST-11-155				1650		X		224-ST-DS11-155-01		X								* Analyze			
ST-11-156				1730		X		224-ST-DS11-156-01		X								* Analyze			
ST-11-157				1440		X		224-ST-DS11-151-01 MS/MSD		X								* Analyze (MS/MSD)			
↓																					
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)	
Todd P. Merrill		6/10/97		1930																	
Relinquished by: (Signature)		DATE		TIME		Received by: (Signature)		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)		DATE		TIME		Relinquished by: (Signature)	
Relinquished by: (Signature)		DATE		TIME		Received for Laboratory by: (Signature)		DATE		TIME		Remarks:									
						V. Green		6/11/97		0930		3 Day T.A.T									

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

100030



CHAIN OF CUSTODY RECORD

106031

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

COCst 224-11-061197-1

CHAIN OF CUSTODY RECORD

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



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COC# 224-11-061197-2

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME												
513.42.01		Tennessee Gas Pipeline Station 224												
SAMPLERS: (Signature)				Todd P. Merrill										
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION					REMARKS				
ST-11-161	4/11/97	0800		X	224-ST-DS11-161-01					X				* Analyze
↓		0810		X	224-ST-DS11-161-02					X				* Extract / Hold = E/H
↓		0820		X	224-ST-DS11-161-03					X				* E/H
ST-11-137		0840		X	224-ST-DS11-137-01					X				* E/H
↓		0850		X	224-ST-DS11-137-02					X				* E/H
ST-11-141		0910		X	224-ST-DS11-141-01					X				* Analyze
↓		0920		X	224-ST-DS11-141-02					X				* E/H
↓		0930		X	224-ST-DS11-141-03					X				* E/H
↓		0940		X	224-ST-DS11-141-04					X				* E/H
ST-11-135		1000		X	224-ST-DS11-135-01					X				* E/H
↓		1010		X	224-ST-DS11-135-02					X				* E/H
ST-11-136		1020		X	224-ST-DS11-136-01					X				* Analyze
↓		1030		X	224-ST-DS11-136-02					X				* E/H
↓	✓	1040		X	224-ST-DS11-136-03					X				* E/H
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)	
Todd P. Merrill			4/11/97	1930	R. D. O'Brien			R. D. O'Brien			6/12/97	9:15		
Relinquished by: (Signature)			DATE	TIME	Received by: (Signature)			Relinquished by: (Signature)			DATE	TIME	Relinquished by: (Signature)	
Relinquished by: (Signature)			DATE	TIME	Received for Laboratory by: (Signature)			DATE	TIME	Remarks:				
					J. Brown			6/12/97	0915	3 Day T.A.T				

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



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COC # 224-11-061197-3

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		REMARKS															
51342.01		Tennessee Gas Pipeline Station 224																	
SAMPLERS: (Signature)				REMARKS															
STA. NO.				DATE	TIME	COMP.	GRAB	STATION LOCATION											
ST-11-144				6/11/97	1446		X	224-ST-DS11-144-03				X					X	Extract / Hold	
ST-11-145					1506		X	224-ST-DS11-145-01				X					X	Analyze	
↓					1516		X	224-ST-DS11-145-02				X					X	E/H	
↓					1520		X	224-ST-DS11-145-03				X					X	E/H	
ST-11-146					1540		X	224-ST-DS11-146-01				X					X	Analyze	
↓					1550		X	224-ST-DS11-146-02				X					X	E/H	
↓					1600		X	224-ST-DS11-146-03				X					X	E/H	
ST-11-157					1630		X	224-ST-DS11-157-01				X					X	Analyze	
ST-11-158					1640		X	224-ST-DS11-158-01				X					X	Analyze	
ST-11-159					1700		X	224-ST-DS11-159-01				X					X	Analyze	
ST-11-160					1710		X	224-ST-DS11-160-01				X					X	Analyze	
ST-11-162					1740		X	224-ST-DS11-162-01				X					X	Analyze	
↓					1750		X	224-ST-DS11-162-02				X					X	E/H	
↓					1800		X	224-ST-DS11-162-03				X					X	E/H	
Relinquished by: (Signature)				DATE	TIME	Received by: (Signature)				Relinquished by: (Signature)				DATE	TIME	Relinquished by: (Signature)			
Todd P. Merrill				6/11/97	1830	Richard J. Preece				Richard J. Preece				6/12/97	9:15				
Relinquished by: (Signature)				DATE	TIME	Received by: (Signature)				Relinquished by: (Signature)				DATE	TIME	Relinquished by: (Signature)			
Relinquished by: (Signature)				DATE	TIME	Received for Laboratory by: (Signature)				DATE	TIME	Remarks:							
						J. B. Sullivan				6/12/97	0915	3 Day T.A.T.							

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



COC # 224-11-061197-4

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS		
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION					
513.42.01	Tennessee Gas Pipeline Station 224		Todd P. Merrill							
6/11/97	1820		X	224-ST-DS11-163-01	X			* Analyze		
↓	1830		X	224-ST-DS11-163-02	X			* Extract / Hold = E/H		
↓	1840		X	224-ST-DS11-163-03	X			* E/H		
-	-		X	224-ST-DS11-170-01 FD	X			* E/H		
-	1900		X	224-ST-DB11-171-01 RS	X			* ~~E/H~~ Analyze (Equipment Rinse Blank)		
-	1920		X	224-ST-DB11-172-01 RS	X			* E/H (Equipment Rinse Blank)		
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Todd P. Merrill		6/11/97	1830	Paul D. Breau		Paul D. Breau		6/12/97	9:15	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:		
				Paul D. Breau		6/12/97	09:15	3 Day T.A.T.		

Distribution: Original Accompanies Shipment: Copy to Coordinator Field Files

6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 448-9120

24 Hour T.A.T

COC[#] 224-11-072197-1

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS		
513.42.01		Tennessee Gas Pipeline Station 224		Todd P. Menard						
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	PCBs	Method	PCET-111-01-84	REMARKS	
	7/21/97	0820		X	224-AR-DS11-002-03	X			Extract / Hold	
		0815		X	224-AR-DS11-002-04	X			Extract / Hold	
		0830		X	224-AR-DS11-019-02	X			Analyze	
		0845		X	224-AR-DS11-019-03	X			Extract / Hold	
		0930		X	224-ST-DS11-122-02	X			Analyze	
		0945		X	224-ST-DS11-122-03	X			Analyze	
		1000		X	224-ST-DS11-122-04	X			Extract / Hold	
		1015		X	224-ST-DS11-112-02	X			Analyze	
		1030		X	224-ST-DS11-112-03	X			Analyze	
		1045		X	224-ST-DS11-112-04	X			Extract / Hold	
		1100		X	224-ST-DS11-129-02	X			Analyze	
		1115		X	224-ST-DS11-129-03	X			Analyze	
		1115		X	224-ST-DS11-129-03MSMSD	X			Analyze *MS/MSD	
		1130		X	224-ST-DS11-129-04	X			Extract / Hold	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Todd P. Menard		7/21/97	1710	Mark D. Williams						
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:		
								24 Hour T.A.T		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files 40C

810709

BBL
BAS AND BUCKLEY INC.
engineers & scientists

6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

24 Hour T.A.T

COC # 224-11-072197-2

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS		
513.424		Tennessee Gas Pipeline Station 224		Todd P. Menard						
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION					
1214	12/19/97	1145		X	224-ST-DS11-129-05	X			Extract / Hold	
1216	12/19/97	1200		X	224-ST-DS11-129-06	X			Extract / Hold	
1215	12/19/97	1215		X	224-ST-DS11-129-07	X			Extract / Hold	
				X	224-ST-DS11-129-FD	X			Analyze	
1230	12/19/97	1230		X	224-ST-DS11-130-02	X			Analyze	
1245	12/19/97	1245		X	224-ST-DS11-130-03	X			Analyze	
1300	12/19/97	1300		X	224-ST-DS11-130-04	X			Extract / Hold	
1315	12/19/97	1315		X	224-ST-DS11-130-05	X			Extract / Hold	
1345	12/19/97	1345		X	224-ST-DS11-164-01	X			Extract / Hold Analyze	
1400	12/19/97	1400		X	224-ST-DS11-164-02	X			Extract / Hold	
				X	224-ST-DS11-164-FD	X			Extract / Hold	
1415	12/19/97	1415		X	224-ST-DS11-165-01	X			Analyze	
1430	12/19/97	1430		X	224-ST-DS11-165-02	X			Extract / Hold	
				X	224-ST-DS11-165-02MS/MSD	X			Extract / Hold MS/MSD	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Todd P. Menard		12/21/97	1710	Mark D. Williams						
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE	TIME	Remarks:		
								24 Hour T.A.T.		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

4°C

000019



6723 Towpath Road, P.O. Box 66
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TEL: (315) 446-9120

24 Hour T.A.T

COC# 224-11-0721-97-3

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLERS: (Signature)		STATION LOCATION		REMARKS		
STA. NO.	DATE	TIME	COMP.	GRAB						
	7/21/97	1445	X		224-ST-DS11-166-01	X		Analyze		
		1500	X		224-ST-DS11-166-02	X		Extract / Hold		
		1510	X		224-ST-DS11-167-01	X		Extract / Hold		
		1520	X		224-ST-DS11-167-02	X		Extract / Hold		
		1530	X		224-ST-DS11-168-01	X		Extract / Hold		
		1540	X		224-ST-DS11-168-02	X		Extract / Hold		
		1550	X		224-ST-DS11-169-01	X		Extract / Hold		
		1600	X		224-ST-DS11-169-02	X		Extract / Hold		
		1610	X		224-ST-DS11-200-RS	X		Analyze Rinse Blank		
		1620	X		224-ST-DS11-201-RS	X		Extract / Hold Rinse Blank		
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Todd P. Merrill		7/21/97	1710	Mark Williams						
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)		Relinquished by: (Signature)		DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)		DATE	TIME	Received for Laboratory by: (Signature)		DATE		TIME		Remarks:
										24 Hour T.A.T

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

462

000020

RECRA LABNET, a division of Recra Environmental, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO 513.42		SITE NAME TEMPERATURE LOGS ST 207		NO. OF CON. TAINERS	REMARKS											
SAMPLERS (SIGNATURE): <i>Triff</i>																
STATION NO	DATE	TIME	COMP.	GRAB	STATION LOCATION											
	7/29/97	1120		✓	224-AR-DSI-007-02	1	X									
		1145		✓	224-AR-DSI-010-02	1	X									
		1200		✓	224-AR-DSI-040-01	1	X									
		205		✓	224-ST-DSI-114-02	1	X									
		1320		✓	224-ST-DSI-131-02	1	X									
		1310		✓	224-ST-DSI-164-02	1	X									
		1230			224-ST-DSI-170-01	1	X									ms/MSD
		1240			224-ST-DSI-171-01	1	X									
		1300			224-ST-DSI-172-01	1	X									
		1310			224-ST-DSI-173-01	1	X									
		1311			224-ST-DSI-173-FD	1	X									
		1300			224-ST-DSI-202-RS	1	X									
		1420			224-AR-DSI-032-04	1	X									
	7/30/97	1440			224-AR-DSI-032-05	1										EXTRACT + HOLD
RELINQUISHED BY (SIGNATURE): <i>Triff</i>		DATE/TIME 7/30/97 1720		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME		RECEIVED BY (SIGNATURE):		DATE/TIME		RECEIVED BY (SIGNATURE):		000031
RELINQUISHED BY (SIGNATURE):		DATE/TIME		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME		RECEIVED BY (SIGNATURE):		DATE/TIME		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):		DATE/TIME		RECEIVED FOR LABORATORY BY (SIGNATURE): <i>Triff</i>		DATE/TIME 7/30/97 0940		REMARKS FAN RESULTS TO NELSON CORROSA 24 HOUR TEMPERATURES								

Distribution: Original accompanies shipment copy to coordinator field files

COOL-3-C

Loc# 224-11-080597-1

CHAIN OF CUSTODY RECORD

[illegible]

ST0500

COC* 224-11-080797-1

CHAIN OF CUSTODY RECORD

006077

Cooler @ 4.05

CHAIN OF CUSTODY RECORD

[illegible]



**BLASLAND & BOUCK
ENGINEERS, P.C.**

[illegible]

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000151

NO.
OF
CON-
TAINERS

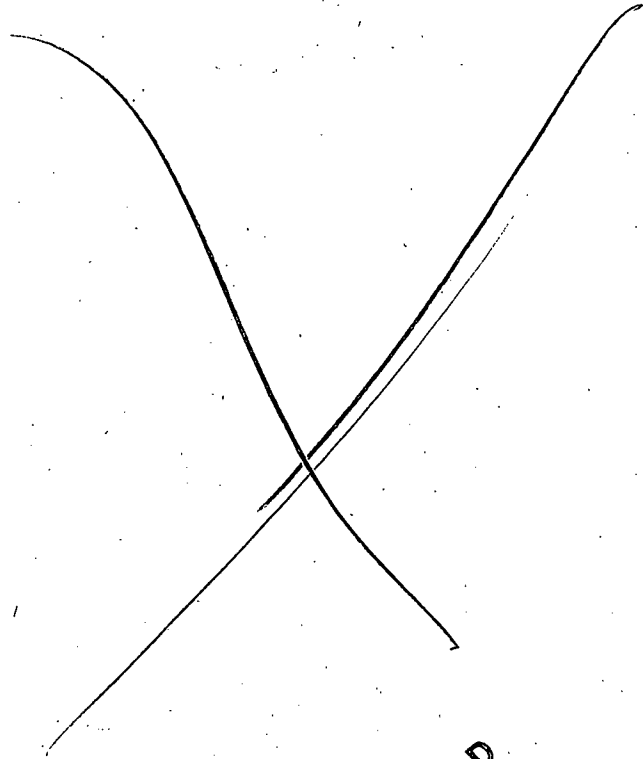
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000012

CHAIN OF CUSTODY RECORD

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