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SITE ASSESSMENT REPORT
FOR
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
TDD: S05-9905-013
PAN: 9Y1301SIXX

October 29, 1999

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1. Introduction

The United States Environmental Protection Agency (U.S. EPA) tasked the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START) to perform a site assessment at the South Central Terminal site located in Pana, Christian County, Illinois. START was requested under Technical Direction Document (TDD) S05-9905-013 to obtain and review background information; develop a health and safety plan; conduct a site visit; document site conditions with written and visual documentation; conduct sampling activities; perform air monitoring; make recommendations to U.S. EPA based on site assessment data collected; determine site characteristics; and determine pollutant dispersal pathways. All site activities were coordinated under the authority of the U.S. EPA On-Scene Coordinators (OSCs) Kevin Turner and Peter Guria. START members Paul Atkociunas, Tracey Fitzgerald, and Neil Derkowski assisted with site assessment activities. U.S. EPA Environmental Response Team (ERT), the U.S. EPA Global Positioning System (GPS) map team, and the Response, Engineering, and Analytical Contract (REAC) contractor, Lockheed Martin, Inc., also assisted in the site assessment. Their activities and findings are summarized in this report.

2. Site Background

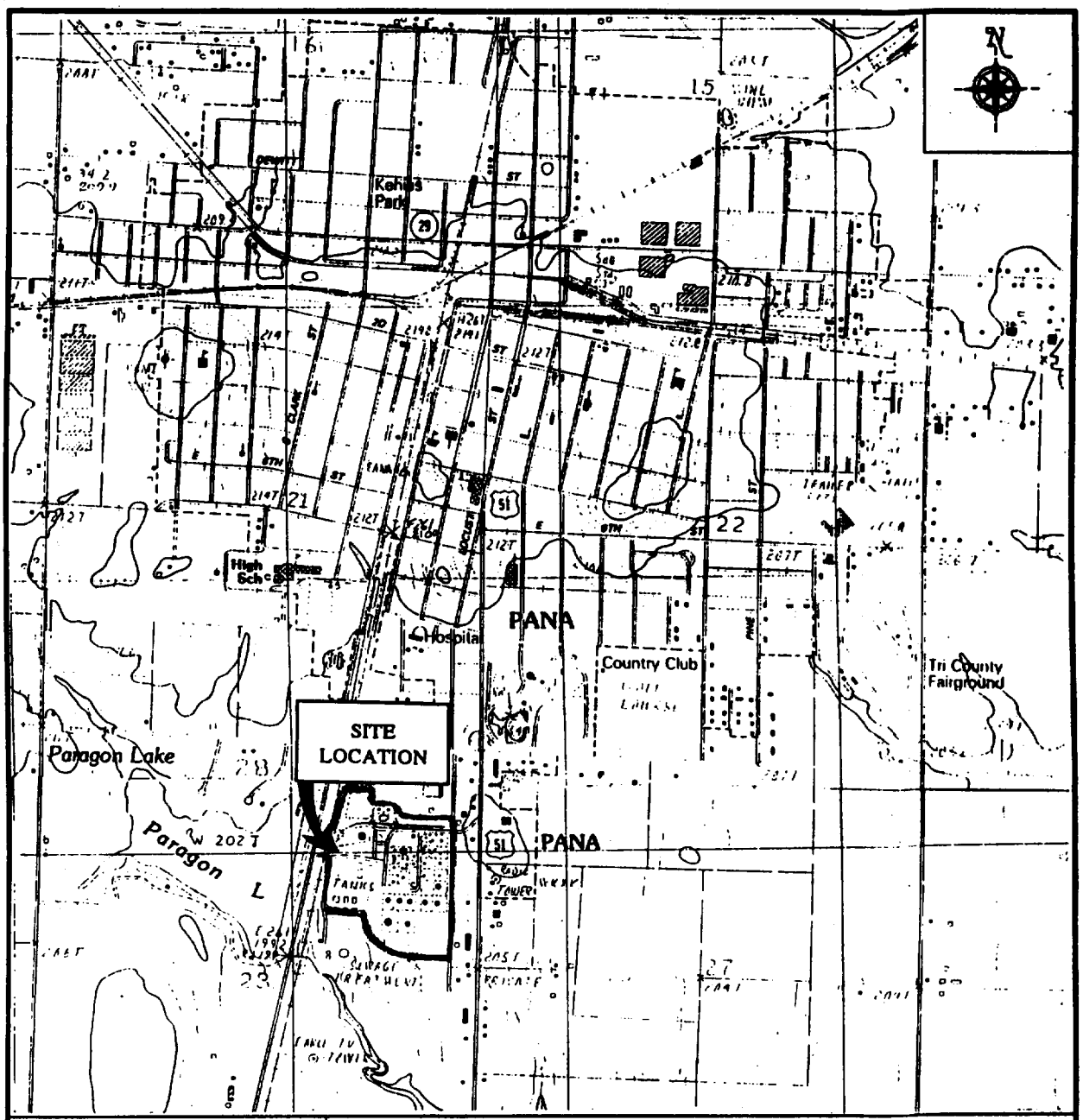
2.1 Site Description

The South Central Terminal (SCT) site is an abandoned petroleum refining facility, terminal, landfill, and asphalt plant located west of Route 51, south of the city of Pana, Christian County, Illinois, latitude 39°22'24.3"N and longitude 89°05'03.6"W (Figure 2-1). The site encompasses approximately 93 acres in an area of mixed land use. The site consists of several buildings, fifty-nine aboveground storage tanks (ASTs), numerous pipelines, several pit sumps, an asphalt plant, several transformers, a refinery, two American Petroleum Institute (API) separators, a landfill and a containment lagoon. A tank and buildings location map, completed by the U.S. EPA GPS team is located in Appendix A. Past inventory of the ASTs included leaded gasoline, gasoline, diesel fuel, crude oil, bean oil, hexane, black oil, #6 fuel oil, #2 boiler fuel, alcohol, and a solution of ammonium sulfate.

The ASTs and pipelines are in various states of disrepair, with several tanks visibly leaking or structurally suspect. The ASTs have capacities ranging from 1,128 gallons to 2.31 million gallons. The ASTs currently contain approximately 1.4 million gallons of various wastes. At the time of the site assessment, the berm areas of tanks 19, 37, 117, and 118 (approximately 1.5-acres in area) were inundated with ammonium sulfate material and storm water. Residents adjacent to the site have complained on numerous occasions of odors from this material.

The buildings on site include an office building, a lead building, a laboratory building, a boiler house, several maintenance buildings, and a pump house. The lead building was used to place tetraethyl lead into gasoline. The site buildings are in varying states of disrepair. Approximately half of the site property is surrounded by a seven-foot high chain-link fence. The remainder of the property consists of farmland south of the fenced area. There is evidence of vandalism on site (i.e., open valves from tanks, discharges of oil and ammonium sulfate).

The site is located approximately 200 feet east of Paragon Lake (aka Peabody Lake) which feeds



Quadrangle Location

ecology and environment, inc.
Superfund Technical Assessment and Response Team
Region 5
501 W. DeYoung Center, Suite 3, Marion, Illinois 62959

TITLE: Site Location Map	FIGURE: 2-1
SITE: South Central Terminal	SCALE: 1:24,000
CITY: Pana STATE: Illinois	TDD: S05-9905-013
SOURCE: U.S.G.S. 7.5 Minute Topographic Series, Pana and Oconee Quadrangles	DATE: 1982/1982
	NOTE: Provisional

Coal Creek. There are several unnamed tributaries of Coal Creek in the vicinity of the site. A ditch is located near the southeast corner of the site and runs in a southeasterly direction to Coal Creek. A second intermittent stream runs along the west side of the county road located west of the refinery. This ditch primarily flows under Highway 51 towards a residential area. Both ditches flow in a southerly direction to Coal Creek. Coal Creek flows into Becks Creek, which in turn flows into Opossum Creek. Opossum Creek flows into the Kaskaskia River which is a tributary of the Mississippi River.

The City of Pana is supplied drinking water through intakes on Lake Pana, located approximately 3 miles east of the site. A residential well is located 350 feet east of the site. The land surface of the site is gently rolling and is part of the Shelbyville moraine. Surface elevations in the area of Pana vary from approximately 635 to 685 feet above mean sea level. The elevation at the site is approximately 680 feet. The Illinois Geologic Survey show the soils in the vicinity of the refinery consist of unconsolidated drift. This soil is primarily pebbly clay interspersed with discontinuous sand seams and some silt. The unconsolidated glacial material is estimated to be approximately 40 to 65 feet thick and overlies bedrock of the Pennsylvanian period. This bedrock consists of mainly non-water-bearing shale with some thin discontinuous beds of sandstone and limestone.

The site is bordered by a residence and furniture manufacturer to the east, Anderson Prairie Trail to the west, small businesses and residences to the north, and the Pana Wastewater Treatment Facility (WWTF) and farm fields to the south. The Anderson Prairie Trail has "Protected " status by the Illinois Department of Natural Resources (IDNR). Within 0.5-mile north of the site are a nursing home, a hospital, and the Pana High School.

2.2 Site History

From approximately 1939 to 1982, the onsite petroleum refinery produced #2 fuel oil, #4 fuel oil, gas fuel, leaded and unleaded gasoline, jet fuel (JP-4), and naphtha. The refinery operated continuously through 1963 when it began to experience difficulty obtaining crude oil. From the mid 1960s through 1982 the refinery was operated intermittently. During the period of active operation the refinery was used exclusively for oil refining and production of petroleum products. Since 1982 the refinery was used as a tank farm for the storage of a variety of products.

Wastes generated at the site include process wastewater from cooling and cleaning refining equipment, brine from the removal of minerals from crude oil, clay and sand from process filters,

sludge removed storage tanks, and sanitary wastewater.

At one time I.M. Emulsions of Centralia, Illinois operated the asphalt plant on site. The duration of this operation has not been determined. The asphalt plant used byproducts from the refining operation.

The refinery operated two API oil/water separators for the purpose of removing light petroleum fractions from storm water runoff and process wastewater. The west API separator discharged treated water into the unnamed tributary located west of the site. The east API separator discharged treated water into the unnamed tributary on the east side of the refinery.

A series of three holding ponds located on the south side of the site were used for water retention prior to off site discharge. An area north of the former holding ponds was used as a municipal landfill and a landfill for site generated waste. Wastes included of concrete, metal scrap, bottles, plastic, and wood. Records do not indicate when the landfill operated.

During refinery operations, oil and sludge were taken and burned in an area north of the former holding ponds. Recently, a large area west of tank 119, and an area adjacent to the berm area of tank 34 were used to stage foundry sand. At the time of the assessment, the foundry sand was removed, however, residual material exists.

In 1992, South Central Terminal Company, then the owner of the site, allowed Archer Daniels Midland Company (ADM) to store liquid ammonium sulfate material in on site tanks. During the summer of 1992 a leak of more than 200,000 gallons of the material occurred. The release migrated offsite via the unnamed tributary to Coal Creek. The material caused a fish kill that extended to the confluence of Opossum Creek and the Kaskaskia River. According to the Illinois Department of Conservation, approximately 20.45 stream miles were affected and approximately 156,000 fish died as a result of poisoning from the spill. Tanks 19, 32, 37, 117, 118, and 119, that have contained ADM material, have a combined capacity of 6.93 million gallons. At the time of the site assessment, the berm areas of the five southern ADM tanks, exceeding 1.5-acres, were inundated with ammonium sulfate and water. Bodine Environmental Services, contracted by ADM, sampled material in several tanks and dike areas on site on June 7, 1999. Analytical results indicate that the sample collected from the bottom of tank 116 contained 40,400 milligrams per liter (mg/L) of ammonia and 80 mg/L of total sulfide/sulfite. The sample collected from the bottom of tank 119 contained 69,780 mg/L of ammonia and 80 mg/L of total sulfide/sulfite. The sample collected from the bottom of tank 32 contained 47,500 mg/L of ammonia and 80 mg/L of total sulfide/sulfite.

In April 1995, Philip Environmental Services, located in Centralia, Illinois, sampled monitoring wells located on site. Analytical results indicate that the sample collected from monitoring well 8 (MW-08) contained 1,118 micrograms per liter (μg/L) of benzene.

According to site records, the site has changed owners at least six times. The Pana Refining Company, Inc., was incorporated on May 18, 1939 and began operations later that year. The facility operated continuously until 1963 when it began experiencing difficulties with obtaining crude oil. Ownership of the refinery was transferred to Toro Petroleum between 1966 and 1971. Past owners of the facility include FS Services (Growmark), Placid Refining, Bi-Petro, and South Central Terminal Company. In April 1998, South Central Terminal Company allegedly sold the site to Larry Edwards, who operates G & G Enterprises, Inc., and Adam Lime, Inc.

The Illinois Environmental Protection Agency (Illinois EPA) filed a complaint regarding surface water violations at the site on August 2, 1981. On October 22, 1986, a second enforcement referral was drafted for water and land violations. An Enforcement Notice Letter was issued to South Central Terminal for additional violations. The SCT facility was placed on the State Remedial Action Priorities List (SRAPL) by Illinois EPA on September 23, 1988. The Illinois EPA issued a Consent Order (No. 94-CH-0123) on August 9, 1994.

On December 9, 11, and 17, 1998, Illinois EPA discovered numerous water, land, and air pollution violations at SCT. Water pollution violations resulted from additional ADM ammonium sulfate material brought to the site by Edwards. The ammonium sulfate material was released into the secondary containment structure surrounding tanks 19, 37, 117, 118, and 119. Some of the material subsequently flowed outside the fenced perimeter and flowed south towards the Pana WWTF where it entered Coal Creek. Other violations include discolored liquid found in the impoundment area, improperly disposed chemicals, foundry sand stored on site, and hundreds of buckets of rat poison. Air pollution violations included the demolition of site buildings and the presence of asbestos containing material (ACM).

Illinois EPA referred these violations to the Illinois Attorney General on December 14, 1998, for a Section 43(a) action. On December 21, 1998, the State of Illinois and Larry Edwards entered into an agreed preliminary injunction order (No. 98-CH-20) that required Edwards to clean wastes, to discontinue to accept wastes on site, to notify Illinois EPA of site actions, and to ensure the structural integrity of storage structures on the site. Illinois EPA continued to document numerous violations of the injunction order. On May 3, 1999, Illinois EPA representatives documented the release of product

from a tank on the west side of the facility (tank 310). On June 16, 1999, Illinois EPA representatives documented that a 3-inch pipe on the south side of the site was broken. Immediately prior to the break was a valve that had been partially opened which allowed ammonium sulfate material to be released off site. Illinois EPA representatives closed the valve. On June 16, 1999, Illinois EPA representatives documented the release of product from tank 314 into the surface impoundment. On June 23, 1999, Illinois EPA imposed a seal order barring Mr. Edwards from the site.

3. Site Activities

3.1 Site Assessment Activities

On June 24, 1999, OSC Turner, START member Atkociunas, ERT member Andre Zownir, REAC member Michael Metz, Illinois EPA representatives David Jansen and Richard Johnson, and Joseph Stepping with the Christian County Solid Waste District (CCSWD) conducted a site reconnaissance to determine strategies for site assessment activities. ERT Zownir and REAC Metz assessed condition of tanks and discussed strategies for accessing tanks. OSC Turner, Illinois EPA representatives, and START Atkociunas discussed areas of historic releases and discussed sampling locations and the hazards associated with the site. Joseph Stepping informed OSC Turner that he detected ammonium sulfate material in the southeast corner of the site and that their office has received residential complaints of odors.

The site assessment occurred July 12 through 17, 1999. Present during the site assessment were U.S. EPA OSCs Peter Guria and Kevin Turner, Illinois EPA representatives David Jansen and Richard Johnson, ERT's Andre Zownir, and START members Paul Atkociunas, Tracey Fitzgerald, and Neil Derkowski. Also present on site were REAC members Michael Metz, Salvador Fama, Albert Lupiano, Christopher Pereira, William Weeks, and Jeffrey Bradstreet. The U.S. EPA GPS team members Anthony Moore, Brian Torreano, Terrence Patterson, and Nicole Tehrany mapped site features from July 13 through 15, 1999. Photodocumentation can be located in Appendix C.

The site assessment and sampling was conducted by three groups:

1. START members Atkociunas and Fitzgerald performed soil, water, and product sampling; documented containers of waste; documented releases of wastes, performed hazard categorization (hazcat) activities of contents of miscellaneous containers and transformers; and documented site conditions. START coordinated sampling efforts with REAC and ERT.
2. REAC located on-site tanks; collected samples of tank material; determined the level of material in the tanks; determined if differing layers of material existed in tanks; sampled tank

material; sampled suspected ACM; and shipped samples to the REAC laboratory for hazcat, laboratory analysis and archiving. REAC members in Edison, New Jersey performed hazcat on samples and ERT Zownir selected analytical sampling parameters based on hazcat results. ERT member Andre Zownir coordinated REAC activities with START and OSCs Turner and Guria. START Derkowski documented REAC activities and provided technical assistance.

3. U.S. EPA GPS team mapped site features and sampling locations. The team used a series of historical aerial photographs to map former tank locations.

On July 12, 1999, U.S. EPA , START, and REAC arrived on-site and discuss site activities. A health and safety meeting was held to discuss the site's safety issues prior to the commencement of work. OSC Turner coordinated site activities with the Illinois EPA, the CCSWD, and Pana city officials.

Items of concern for the site assessment included the following:

- identify and number ASTs;
- sample contents and determine amount of material in ASTs;
- determine contents in refinery area;
- sample and hazcat transformers/reactor oil;
- locate surface contaminated soils resulting from past spills/housekeeping including foundry sand piles, landfill area, oil, tar, ammonium sulfate material;
- identify ACM on pipes, tanks, and in buildings of site property;
- catalog/inventory miscellaneous containers of waste;
- determine off-site releases of waste and migration pathways; and
- determine surface water contamination.

3.2 START Activities

On July 12, 1999, START members Atkociunas and Fitzgerald inventoried miscellaneous containers in the northwest building and identified areas of soil and water sampling. Soil, water, and product sampling was completed between July 13 to 15, 1999 by START members Atkociunas and Fitzgerald. Sample locations are found in Appendix B (completed by the U.S. EPA GPS team), and a summary of sample dates and sampling parameters is located in Table 3-1. After sampling, sample jars were labeled, and placed in coolers with ice. After daily sampling events were completed, chains of custodies were completed, sample containers were placed in coolers, and coolers were sealed with

Table 3-1

SAMPLE SUMMARY
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Matrix	Sample ID	Date Sampled	Analyses
Soil	SS-01	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-02	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-03	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-04	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-05	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-06	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-07	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH; NH_3
	SS-08	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-09	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-10	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-11	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-12	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-13	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-14	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-15	7/13/99	NH_3
	SS-16	7/14/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-17	7/14/99	Total & TCLP VOCs, RCRA metals, SVOCS; pH; TPH
	SS-18	7/15/99	NH_3
Water	WS-01	7/14/99	Total VOCs, RCRA metals, SVOCs; pH
	WS-02	7/14/99	Total VOCs, RCRA metals, SVOCs; pH
	WS-03	7/14/99	Total VOCs, RCRA metals, SVOCs; pH
	WS-04	7/14/99	Total VOCs, RCRA metals, SVOCs; pH; TPH
	WS-05	7/14/99	Total VOCs, RCRA metals, SVOCs; pH
	WS-06	7/14/99	Total VOCs, RCRA metals, SVOCs; pH
	WS-07	7/15/99	Total VOCs, RCRA metals, SVOCs; pH; NH_3

Table 3-1 (cont.)

SAMPLE SUMMARY
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Matrix	Sample ID	Date Sampled	Analyses
Product	PS-01	7/13/99	Total & TCLP VOCs, RCRA metals, SVOCs; pH; TPH
	PS-02	7/14/99	Total & TCLP VOCs, RCRA metals, SVOCs; pH; TPH
	PS-03	7/14/99	Total & TCLP VOCs, RCRA metals, SVOCs; pH; TPH
	PS-04	7/15/99	Total VOCs, RCRA metals, SVOCs; pH; TPH
	PS-05	7/15/99	Total & TCLP VOCs, RCRA metals, SVOCs; pH; TPH

Key:

TCLP =Toxicity characteristic leaching procedure.
VOCs =Volatile organic compounds.
RCRA =Resource, Conservation, and Recovery Act.
SVOCs =Semivolatile organic compounds.
TPH =Total petroleum hydrocarbons.
NH_3 =Ammonia.

chains of custodies enclosed. The coolers were shipped to TriMatrix Laboratories, Inc. located in Grand Rapids, Michigan. Analysis of START samples was conducted under TDD S05-9905-812.

Between July 13 and 15, 1999 START members Atkociunas and Fitzgerald conducted soil sampling activities. Soil samples were grab samples taken from 0 to 6 inches below ground surface using dedicated spoons and placed into appropriate laboratory containers to avoid cross-contamination. Soil sample SS-01 was collected from an area on the northwest corner of the site where two tanks were previously located. The sample was collected in an area of stressed vegetation approximately 40 by 50 feet shaped in an oblong pattern. Soil sample SS-02 was collected from approximately 5 feet south of a valve on tank 90. The valve on tank 90 was closed, however it was leaking a small amount of material and the valve was accessible. The soil sample was saturated with oil leaking from the tank. Soil sample SS-03 was collected north of a concrete pad, from a mound of soil that contained pieces of slag-like material. Soil sample SS-04 was collected from approximately 10 feet west of tank 30. The sample was collected from a layer of hard tar-like material and soil that surrounds the west half of the tank. Soil sample SS-05 was collected from within the secondary containment area where two tanks were previously located. The sample was collected from a vein of oil/tar approximately 20 feet long and 4 feet wide running north to south on the east half of the berm area. Soil sample SS-06 was collected from within the secondary containment area of tank 31. The sample was collected from a patch of tar-like material approximately 30 feet by 30 feet on the west side of the tank; the material appeared to be up to 7 inches thick in some areas. Soil sample SS-07 was collected from within the secondary containment of tank 32. At the time of sampling, tank 32 was leaking ammonium sulfate material. The sample was collected from an area that contained pooled ammonium sulfate material and a hard tar-like material that surrounds the tank. Soil sample SS-08 was collected from the area west of tank 19 where foundry sand was staged. The sample was collected from a low-lying area and was compromised almost exclusively of the foundry waste. Soil sample SS-09 was collected in the vicinity of the former holding ponds. Pieces of slag were detected, and sample SS-09 consisted of pieces of slag intermixed with soil. Soil sample SS-11 was collected from a pile of debris located in the building west of tank 113. The pile is approximately 15 feet by 15 feet and 8 feet high. Soil sample SS-12 was collected from southwest of tank 103. The sample consisted of soil with a slight petroleum sheen and was collected from an area of stressed vegetation. Soil sample SS-13 was collected from an area used to stage foundry sand, and consisted of black, granular material. Soil sample SS-14 was collected from an area west of a valve on tank 109. Sample material consisted of soil with a petroleum odor. Sample

SS-15 was collected from soil/sediment south of the site fence between the site and the Pana WWTW. The sample was collected from an area where prior releases of ammonium sulfate have occurred. The sampling location contained a dark pooled liquid with a fetid odor. Soil sample SS-16 was collected from stained soil located northwest of tank 6, in an area where a tank was previously located. The sample material was dark, black and ash-like. Soil sample SS-17 was collected from an area of stressed vegetation northwest of tank 13. The sample material consisted of a black, granular material that covered the ground. Sample SS-18 was collected outside the fenced area in an area where releases of ammonium sulfate material have occurred.

Between July 14 and 15, 1999, START members Fitzgerald and Atkociunas completed water sampling activities. Water samples were collected with dedicated bailers or laboratory containers and decanted into appropriate laboratory containers, or decanted directly into appropriate laboratory containers to eliminate cross-contamination. Water sample WS-01 was collected from a pit located inside the lead building. Water sample WS-02 was collected from the drainage ditch located north of the lead building. Water sample WS-03 was collected from a pump house located east of the west API separator. The water was dark brown in color, with no noticeable odors present. Water sample WS-04 was collected from a ditch constructed around the west API separator. The sample was collected downstream (west) of a boom placed by Illinois EPA to contain oil in the surface impoundment. At the time of sampling a layer of oil approximately $^1/_4$-inch thick was covering half of the surface impoundment. Water sample WS-05 was collected from a pit sump located south of the boiler house. The pit sump contained a layer of viscous oil above the water collected. Water sample WS-06 was collected from the pit sump located south of the refinery area. Water sample WS-07 was collected from the diked area located west of the secondary containment units for tanks 32 and 31. The water was brown in color and had a fetid odor.

Between July 13 and 15, 1999, START members Atkociunas and Fitzgerald collected product samples. Product sample PS-01 was collected from material released from tank 310. The tar-like material extended over 100 feet south of the tank and was several inches thick in areas. Product sample PS-02 was collected from tar-like material located on a concrete pad west of the asphalt plant. Product sample PS-03 was collected from oil floating on water in the surface impoundment. The oil was approximately $^1/_4$-inch thick and covered half of the surface impoundment. Product sample PS-04 was a composite sample collected from five drums located in the northwest building that contained oil and sludge. Three of the containers did not have tops or lids and the product was exposed. Sample

PS-05 was a composite sample collected from three drums located in the refinery area. The drums were placed under valves in the processing area indicating oil has been drained from vessels into the drums. The drums and the concrete pad were stained with the oil.

Two gasoline pumps are located north of the boiler house. One pump is labeled leaded gasoline, the other is labeled gasoline, indicating the possible presence of two underground storage tanks. The site also contains several cylinders labeled compressed flammable gas.

On July 15, 1999, OSC Turner mobilized Environmental Restoration, L.L.C., as the U.S. EPA Emergency and Rapid Response Services (ERRS) contractor to the site to remove product from tank 32 and the drainage ditch located west of tanks 31 and 32. Tank 32 was found to be leaking through a valve on the west side of the tank and contained approximately 160,000 gallons of product before pumping activities. The material was pumped to tank 115. Illinois EPA has documented that the tank has been leaking since December 1998. Material from the tank migrated outside the secondary containment area. Pumping activities were completed on July 19, 1999.

4. Analytical Results

Samples collected by START were analyzed by TriMatrix Laboratories, Grand Rapids, Michigan, under analytical TDD S05-9905-812. Analytical results of soil samples indicate the presence of elevated concentrations of heavy metals semivolatile organic compounds (SVOCs) and volatile organic compounds (VOCs). Analytical results of soil samples are located in Table 4-1.

Soil sample SS-02 contained 5.68 mg/L of toxicity characteristic leaching procedure (TCLP) lead, which is above the regulatory level of 5.0 mg/L as defined by 40 Code of Federal Regulations (CFR) §261.24. Soil samples SS-02, SS-09, SS-11, SS-12, SS-14, and SS-16 contained total lead concentrations greater than 400 milligrams per kilogram (mg/kg). Analytical results of soil samples indicated elevated concentrations of VOCs in several soil samples. Sample SS-06 contained 6.9 mg/kg of vinyl chloride, and 0.3 mg/L of TCLP benzene. Analytical results of soil samples indicated elevated concentrations of SVOCs in several soil samples. Soil sample SS-06 contained 790 mg/kg of acenaphthylene, 480 mg/kg of benzo(a)anthracene, 280 mg/kg of benzo(a)pyrene, 440 mg/kg of chrysene, 3,400 mg/kg of naphthalene, 1,900 mg/kg of phenanthrene, and 1,200 mg/kg of pyrene. Sample SS-09 contained 49 mg/kg of pyrene. Total petroleum hydrocarbons (TPH) were detected in fourteen of the soil samples, with a maximum of 140,000 mg/kg of diesel range organics detected in sample SS-06 and a maximum of 250 mg/kg of gasoline range organics detected in sample SS-02.

Analytical results of water samples are located in Table 4-2. Heavy metals were detected in all of the water samples. Barium was detected in all seven samples with a maximum concentration of 410 μg/L in sample WS-05. Samples WS-05 and WS-06 contained 650 μg/L and 640 μg/L of lead, respectively. Mercury was detected in all seven water samples with a maximum concentration of 27 μg/L detected in sample WS-02. VOCs were detected in two water samples; sample WS-01 contained 3.8 μg/L of chloromethane. Sample WS-05 contained 1.8 μg/L of chloromethane, 1.8 μg/L of ethylbenzene, and 3.4 μg/L of xylene. Semivolatile organic compounds detected in sample WS-05 included 570 μg/L of chrysene, 640 μg/L of fluoranthene, and 1,300 μg/L of pyrene. Sample WS-04

Table 4-1

SOIL SAMPLING RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Parameter	Sample Designation																	
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Total Volatile Organic Compounds (mg/kg)																		
Chloromethane	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	6.9	ND	ND	ND	ND	ND	ND	0.16	ND	NA	ND	ND	NA
Acetone	ND	ND	ND	6.5	0.20	ND	2.3	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
1,1-Dichloroethane	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Trans-1,2-dichloroethene	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Chloroform	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Methyl ethyl ketone	ND	ND	ND	1.2	ND	ND	0.78	ND	ND	ND	ND	ND	0.70	ND	NA	ND	ND	NA
Benzene	ND	ND	ND	ND	0.11	18	ND	1.0	ND	ND	ND	ND	1.2	ND	NA	ND	ND	NA
Tetrachloroethene	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Toluene	ND	ND	ND	ND	0.18	40	0.14	3.4	0.071	ND	0.13	ND	1.9	0.018	NA	ND	0.17	NA
Chlorobenzene	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Ethylbenzene	ND	ND	ND	0.14	0.39	31	0.12	0.61	ND	0.062	ND	ND	0.37	ND	NA	ND	0.15	NA
Styrene	ND	ND	ND	0.13	0.11	ND	ND	ND	ND	ND	0.26	ND	ND	ND	NA	ND	0.32	NA
Xylene (total)	ND	ND	ND	ND	1.4	80	ND	3.0	ND	ND	ND	ND	1.5	ND	NA	ND	0.57	NA

Table 4-1 (cont.)

SOIL SAMPLING RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Parameter	Sample Designation																	
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
TCLP Volatile Organic Compounds (mg/L)																		
Benzene	ND	ND	ND	ND	ND	0.30	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Total Semivolatile Organic Compounds (mg/kg)																		
Acenaphthene	ND	ND	ND	ND	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Acenaphthylene	ND	ND	ND	ND	ND	790	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Anthracene	ND	ND	ND	ND	ND	500	ND	ND	ND	ND	0.94	ND	ND	ND	NA	ND	ND	NA
Benzo(a)anthracene	ND	ND	ND	ND	ND	480	ND	ND	11	ND	ND	ND	ND	ND	NA	ND	ND	NA
Benzo(a)pyrene	ND	ND	ND	ND	ND	280	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Benzo(b&k)fluoranthene	ND	ND	ND	ND	ND	360	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	130	ND	ND	12	ND	ND	ND	ND	ND	NA	ND	ND	NA
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	47	39	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Chrysene	ND	ND	ND	ND	45	440	ND	ND	9.4	ND	ND	ND	ND	ND	NA	ND	7.1	NA
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	53	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Dibenzofuran	ND	ND	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	0.60	ND	NA	ND	ND	NA
Fluoranthene	ND	ND	ND	ND	ND	600	ND	ND	ND	ND	0.85	ND	ND	ND	NA	ND	ND	NA
Fluorene	ND	ND	ND	ND	ND	620	ND	ND	ND	ND	ND	ND	0.44	ND	NA	ND	ND	NA
Indeno(1,2,3 cd) pyrene	ND	ND	ND	ND	ND	100	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA

Table 4-1 (cont.)

SOIL SAMPLING RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Parameter	Sample Designation																	
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Total Semivolatile Organic Compounds (mg/kg) - cont.																		
2-Methylnaphthalene	ND	ND	ND	ND	ND	1900	ND	ND	ND	ND	ND	ND	1.3	ND	NA	ND	ND	NA
4-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82	ND	NA	ND	ND	NA
Naphthalene	ND	ND	ND	ND	ND	3400	ND	ND	ND	ND	ND	ND	1.3	ND	NA	ND	ND	NA
Phenanthrene	ND	ND	ND	ND	28	1900	ND	ND	ND	5.2	1.9	ND	0.84	ND	NA	ND	ND	NA
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72	ND	NA	ND	ND	NA
Pyrene	ND	ND	ND	ND	110	1200	ND	ND	49	2.8	1.9	ND	ND	ND	NA	ND	ND	NA
TCLP Semivolatile Organic Compounds (mg/L)																		
2-Methylphenol	ND	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
3-& 4-Methylphenol	ND	0.013	ND	0.021	0.24	0.079	0.020	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
Total Petroleum Hydrocarbons (mg/kg)																		
Diesel range organics	310	24000	16000	3200	51000	140000	3500	ND	51000	12000	7400	100	1000	37	NA	240	21000	NA
Gasoline range organics	ND	250	ND	ND	180	130	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
pH (standard units)	6.93	6.44	7.25	7.63	5.84	6.75	5.31	8.51	8.04	7.48	6.91	7.69	9.08	5.21	NA	7.07	6.31	NA
Ammonia (mg/kg)	NA	NA	NA	NA	NA	NA	7930	NA	NA	NA	NA	NA	NA	NA	5450	NA	NA	4560

Table 4-1 (cont.)

SOIL SAMPLING RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Parameter	Sample Designation																	
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Total Metals (mg/kg)																		
Arsenic	24	6.2	12	29	ND	ND	9.8	ND	17	6.9	112	52	11	11	NA	6.9	170	NA
Barium	141	306	68	95	27	56	74	56	111	17	67	266	160	249	NA	28	136	NA
Cadmium	1.4	0.46	2.4	4.6	10	ND	0.8	0.86	6.9	1.7	23	2.8	1.2	1.1	NA	1.9	7.8	NA
Chromium	13	162	30	12	15	ND	8.6	ND	36	5.6	581	16	4.4	49	NA	7.4	51	NA
Lead	32	1590	127	186	183	155	34	18	560	107	1280	631	24	556	NA	15	2670	NA
Mercury	ND	0.19	1.2	ND	ND	ND	ND	ND	0.71	ND	ND	0.34	ND	ND	NA	ND	0.54	NA
Silver	ND	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
TCLP Metals (mg/L)																		
Barium	0.78	2.16	0.99	0.71	1.73	0.94	0.62	1.31	0.89	1.04	1.46	1.86	1.49	1.12	NA	ND	0.65	NA
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	NA	ND	0.016	NA
Chromium	ND	0.11	ND	ND	0.37	ND	ND	ND	ND	ND	0.99	ND	ND	ND	NA	ND	ND	NA
Lead	ND	5.68	ND	ND	0.11	ND	0.21	ND	ND	ND	ND	0.21	ND	0.13	NA	ND	0.15	NA

Key: mg/kg = Milligrams per kilogram.
TCLP = Toxicity characteristic leaching procedure.
mg/L = Milligrams per liter.
ND = Not detected.
NA = Not analyzed.

Source: Tri Matrix Laboratories, Inc. Grand Rapids, Michigan. Conducted under analytical TDD S05-9905-812.

Table 4-2

WATER SAMPLING RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 14 - 15, 1999

Parameter	Sample Designation						
	WS-01	WS-02	WS-03	WS-04	WS-05	WS-06	WS-07
Total Metals (μg/L)							
Arsenic	ND	130	ND	ND	ND	ND	ND
Barium	57	140	65	72	410	110	120
Lead	ND	ND	ND	80	650	640	75
Mercury	20	27	15	22	13	3.2	17
Selenium	ND	260	ND	ND	ND	ND	ND
Volatile Organic Compounds (μg/L)							
Chloromethane	3.8	ND	ND	ND	1.8	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	33
Ethylbenzene	ND	ND	ND	ND	1.8	ND	ND
Xylene	ND	ND	ND	ND	3.4	ND	ND
Semivolatile Organic Compounds (μg/L)							
Benzo(a)anthracene	ND	ND	ND	ND	340	ND	ND
Bis(2-ethylhexyl)-phthalate	ND	ND	ND	ND	420	ND	ND
Chysene	ND	ND	ND	ND	570	ND	ND
Fluoranthene	ND	ND	ND	ND	640	ND	ND
4-Methylphenol	ND	ND	ND	ND	ND	ND	46
Pyrene	ND	ND	ND	ND	1,300	ND	ND
Total Petroleum Hydrocarbons (μg/L)							
Diesel range organics	NA	NA	NA	9500	NA	NA	NA
Gasoline range organics	NA	NA	NA	ND	NA	NA	NA
pH (standard units)	7.8	NA	7.25	NA	7.14	7.32	7.19
Ammonia (mg/L)	NA	NA	NA	NA	NA	NA	566

Key: μg/L = Micrograms per liter.
mg/L = Milligrams per liter.
ND = Not detected.
NA = Not analyzed.

Source: TriMatrix Laboratories, Inc. Grand Rapids, Michigan. Conducted under analytical TDD S05-9905-812.

contained 9,500 μg/L of diesel range organics. Sample WS-07 contained 566 mg/L of ammonia.

Analytical results of product samples are located in Table 4-3. Sample PS-05 contained 25 mg/L of TCLP tetrachloroethene, which is above the regulatory level of 5 mg/L as defined by 40 CFR §261.24. Analytical results indicate sample PS-03 contained 602 mg/kg of lead. All five product samples contained TPH, with a maximum of 650,000 mg/kg of diesel range organics detected in sample PS-05 and 630 mg/kg of gasoline range organics in sample PS-05.

Analytical results of asbestos samples collected by REAC indicated that eight insulation material samples contained asbestos. Samples collected from site buildings, the asphalt plant, the refinery area, and on piping adjacent to tanks 40 and 41 contained ACM. Analytical results of samples collected by REAC are located in Appendix D.

Lockheed Martin Inc., (REAC), compiled hazcat results of samples collected from tanks during site assessment activities, estimated volumes of material in tanks, and sample locations. Analytical results indicate samples collected from tanks 13, 100, 300, 304, and 307 (Note: tank 308 is assumed to contain the same material in tank 307) have flashpoints less than 60°C. Analytical results indicate that tank 13, 100, 300, 304, and 307 contain elevated concentrations of VOCs. Tanks 304 and 307 contained 4,800 mg/L and 4,620 mg/L of benzene, respectively. Toluene was detected in tanks 13, 100, 300, 304, 307 with a maximum concentration of 24,800 mg/L detected in tank 13. Tetrachloroethene was detected in tanks 13, 304, and 307, with a maximum concentration of 2,950 mg/L detected in tank 304.

Polychlorinated biphenyls (PCBs) were detected in tanks 6, 13, 304, 313, 404, and 409, with a maximum concentration of 4.6 mg/kg in tank 404. Ammonia was detected in tanks 113, 115, 116, 117, and 119, with a maximum concentration of 14,400 mg/L detected in tank 113.

Table 4-3

PRODUCT SAMPLE RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Parameter	Sample Designation				
	PS-01	PS-02	PS-03	PS-04	PS-05
Total Metals (mg/kg)					
Barium	13	19	45	11	ND
Cadmium	ND	3.5	0.61	ND	ND
Chromium	ND	19	9.1	ND	ND
Lead	24	54	602	54	ND
TCLP Metals (mg/L)					
Barium	0.59	ND	0.77	NA	ND
Lead	ND	0.13	0.96	NA	ND
Total Volatile Organic Compounds (mg/kg)					
Carbon Disulfide	ND	ND	1.5	ND	ND
Benzene	ND	ND	ND	0.54	ND
Toluene	1.3	ND	ND	3.5	4.0
Tetrachloroethene	ND	ND	ND	ND	1.1
Ethylbenzene	0.78	ND	ND	3.3	10
Styrene	ND	ND	ND	6.6	44
Xylene (total)	3.5	ND	ND	12	57
TCLP Volatile Organic Compounds (mg/L)					
Tetrachloroethene	ND	ND	ND	NA	25

Table 4-3 (cont.)

PRODUCT SAMPLE RESULTS
SOUTH CENTRAL TERMINAL
PANA, CHRISTIAN COUNTY, ILLINOIS
JULY 13 - 15, 1999

Parameter	Sample Designation				
	PS-01	PS-02	PS-03	PS-04	PS-05
Total Semivolatile Organic Compounds (mg/kg)					
Anthracene	ND	ND	ND	43	87
Bis(2-ethylhexyl)-Phthalate	ND	ND	99	42	ND
Chrysene	ND	ND	ND	28	26
Di-n-Butylphthalate	ND	ND	43	ND	ND
Di-n-Octylphthalate	ND	ND	27	ND	ND
Fluorene	ND	ND	ND	ND	61
Fluoranthene	ND	ND	ND	26	ND
2-Methylnaphthalene	72	ND	ND	ND	530
Naphthalene	29	ND	ND	ND	270
Phenanthrene	ND	ND	ND	100	240
Pyrene	ND	ND	ND	57	ND
TCLP Semivolatile Organic Compounds (mg/L)					
3-& 4-Methylphenol	0.007	ND	ND	NA	ND
Total Petroleum Hydrocarbons (mg/kg)					
Diesel range organics	20,000	44,000	260,000	400,000	650,000
Gasoline range organics	ND	ND	ND	ND	630
pH (standard units)	8.60	7.72	7.14	6.37	5.97

Key:
mg/kg = Milligrams per kilogram.
mg/L = Milligrams per liter.
TCLP = Toxicity characteristic leaching procedure.
ND = Not detected.
NA = Not analyzed.

Source: TriMatrix Laboratories, Inc. Grand Rapids, Michigan. Conducted under analytical TDD S05-9905-812.

5. Discussion of Potential Threats

Section 300.415, paragraph (b)(2) of the National Contingency Plan (NCP) lists factors to be considered when determining the appropriateness of a potential removal action at a site. Specifically, the following is a discussion of the applicable conditions which exist at the SCT site.

- **Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants.** The secondary containment areas of tanks 19, 37, 117, 118, 119 contain ammonium sulfate material and water. Bodine Environmental Services sampled the diked material in June 1999. Analytical results of a sample of the dike material of tanks 19 and 37 contained 4,320 mg/L of ammonia and 72 mg/L of total sulfide/sulfite. Analytical results of samples collected from the dike area of tanks 118 and 119 contained 1,370 mg/L of ammonia and 300 mg/L of sulfide/sulfite. If the valve mechanisms of the tank system was tampered with it would cause the release of the material currently stored in the secondary containment. An outcome similar to the fish kill of 1992 could result. Product sample PS-03 collected from oil floating on the surface impoundment contained 602 mg/kg of lead, 1.5 mg/kg of carbon disulfide, and 260,000 mg/kg of diesel range organics. The product floating on the lagoon could be released into a drainage area along the Anderson Prairie Trail if the boom containing the oil was removed or if a heavy rain event occurred. Analytical results of water exiting after the boom at the surface impoundment (WS-04) detected 80 µg/L of lead. This water is discharging into the drainage area along the Anderson Prairie Trail which is used by the public and has "Protected " status by IDNR. Analytical results of PS-01 collected from material released from tank 310 detected 1.3 mg/kg of toluene. Soil sample SS-02 collected adjacent to tank 90 was found to be hazardous due to a TCLP lead concentration of 5.68, which is greater than the regulatory level of 5.0 as defined by the 40 CFR §261.24. Samples collected by REAC were found to contain ACM. The ACM on piping and in site buildings is in friable condition and is exposed to the elements. The site is surrounded by a seven foot high fence, however there is evidence of vandalism on site (i.e. open valves from tanks, discharges of oil and ammonium sulfate). Residents in the area have complained from odors emanating from the site. START documented the presence of white-tail deer (*Odocoileus virginianus*) on site. Within 0.5-mile north of the site are a nursing home, a hospital, and the Pana High School.

- **Actual or potential contamination of drinking water supplies or sensitive ecosystems.** In April 1995, Philip Environmental Services, located in Centralia, Illinois sampled monitoring wells located on site. Analytical results indicate that the sample collected

from monitoring well 8 (MW-08) contained 1,118 μg/L of benzene. A residential well is located approximately 350 feet east of the site. The Anderson Prairie Trail is located west of the site.

- **Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release.** There are fifty-nine ASTs located on site that contain approximately 1.4 million gallons of various wastes. All of the tanks on site show signs of deterioration. Tanks 13, 100, 300, 304, and 307 contained elevated concentrations of VOCs. Analytical results of samples collected from tanks 304 and 307 detected 4,800 mg/L and 4,620 mg/L of benzene, respectively. A composite sample of drums at the refinery area meet the definition of a hazardous waste. Analytical results indicate the samples contain 25 mg/L of tetrachloroethene, which is above the regulatory level of 5 mg/L as defined by the 40 CFR §261.24. Three of the drums do not have bungs and if the drums were overturned the contents would be released onto the concrete floor of the refinery area.

- **High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate.** Soil sample SS-02 meets the definition of a hazardous waste due to a TCLP concentration of lead greater then the regulatory level of 5 mg/L. Samples collected by REAC were found to contain ACM. The ACM was found exposed on piping on site and in site buildings.

- **Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.** Tanks and drums with contents are exposed to the weather and will deteriorate with continued seasonal changes. The seasonal temperature changes and corrosive effects of precipitation may cause tanks containing hazardous materials to be released. Precipitation and seasonal cycles may erode tank and secondary containment structures and lessen their effectiveness. Rain may cause the oil floating on the surface impoundment, which contains elevated concentrations of lead, to be released into the Anderson Prairie Trail. Additional precipitation may cause material currently stored in the secondary containment structures of tanks 19, 37, 117, 118, and 119 to be released into Coal Creek. Radiant energy can cause product released from tank 310 and product adjacent to the asphalt plant to heat and become more mobile, causing further contamination.

- **Threat of fire or explosion.** Analytical results of samples collected by REAC indicate the contents of tanks 13, 100, 300, 304, and 307 have flash points less than 60°C. These tanks contain 9,086 gallons of liquid. The material in the tanks could be ignited by trespassers, vandals, or lightning. There are also several cylinders labeled compressed flammable gas. If a fire occurred on site, the radiant energy could cause the compressed gas to expand and blow up the cylinder.

6. Conclusion

Observations documented during the SCT site assessment indicate that the conditions constitute an imminent and substantial endangerment to public health and welfare. Conditions at the site indicate that wastes are migrating off site and will continue. This conclusion is based upon observations by U.S. EPA, REAC, and START, as well as reports completed by Illinois EPA representatives.

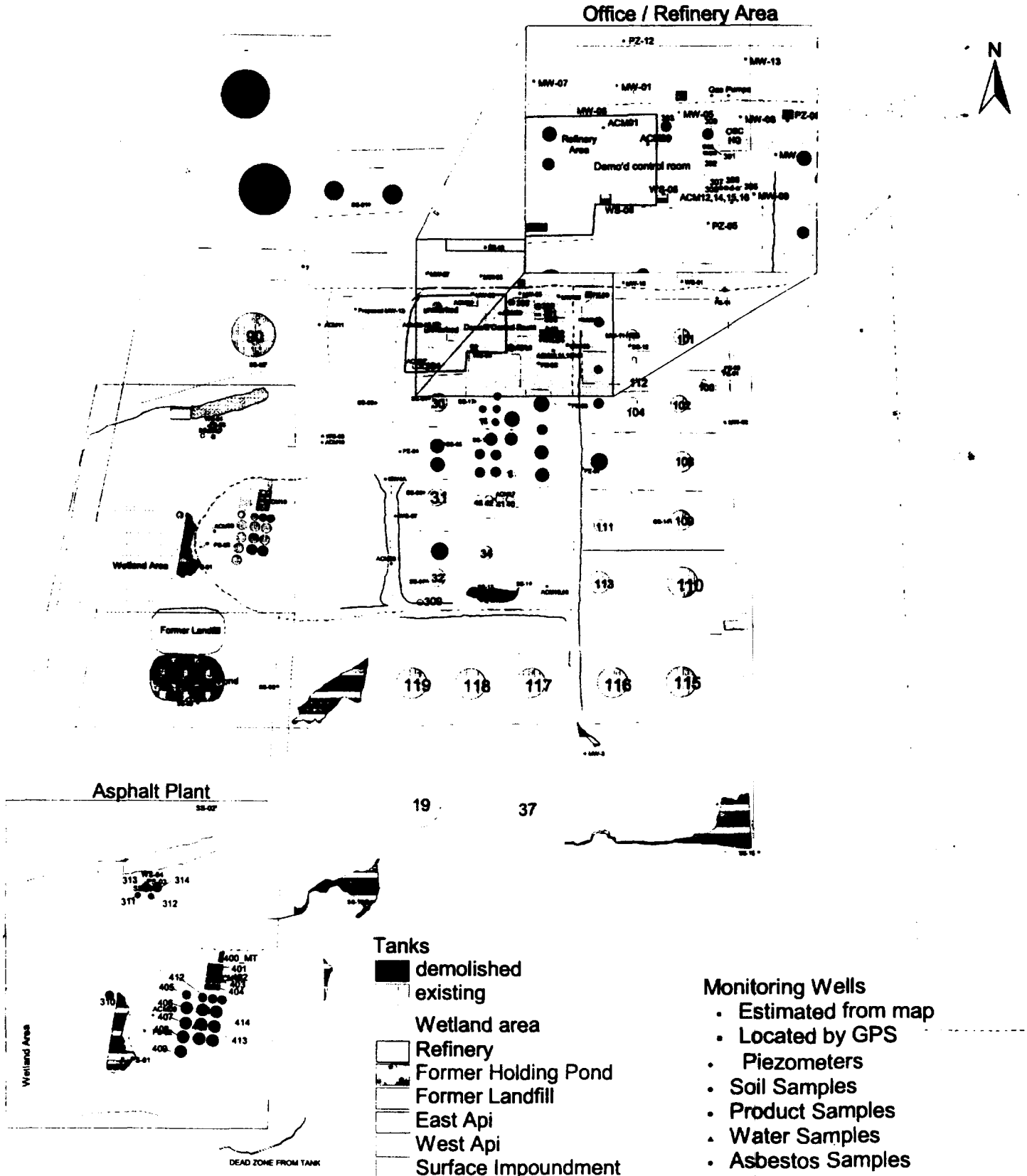
ACM is present in insulation in buildings and piping on site. Product floating on the surface impoundment contains elevated concentrations of lead. Analytical results indicate that surface soils meet the definition of a hazardous waste as defined by 40 CFR §261.24. The secondary containment structure of five tanks contain approximately 1.5 acres of ammonium sulfate material and water. Residents adjacent to the site have complained on numerous occasions of odors emanating from the site. Within 0.5 mile of the site are a hospital, a high school, and a nursing home. These populations are sensitive to contamination from the site.

Based upon the threat posed by materials on site, several removal and stabilization activities are recommended. Tank contents should be removed and disposed of off site, and the tanks should be demolished to allow an extent of contamination study of subsurface soils to be completed. Both underground and aboveground pipes should be pumped and removed. ACM on site should be removed and disposed. The elevated concentration of lead in product floating on the surface impoundment would indicate that sediments of the surface impoundment are also contaminated.

Appendix A

Tank and Building Locations Map

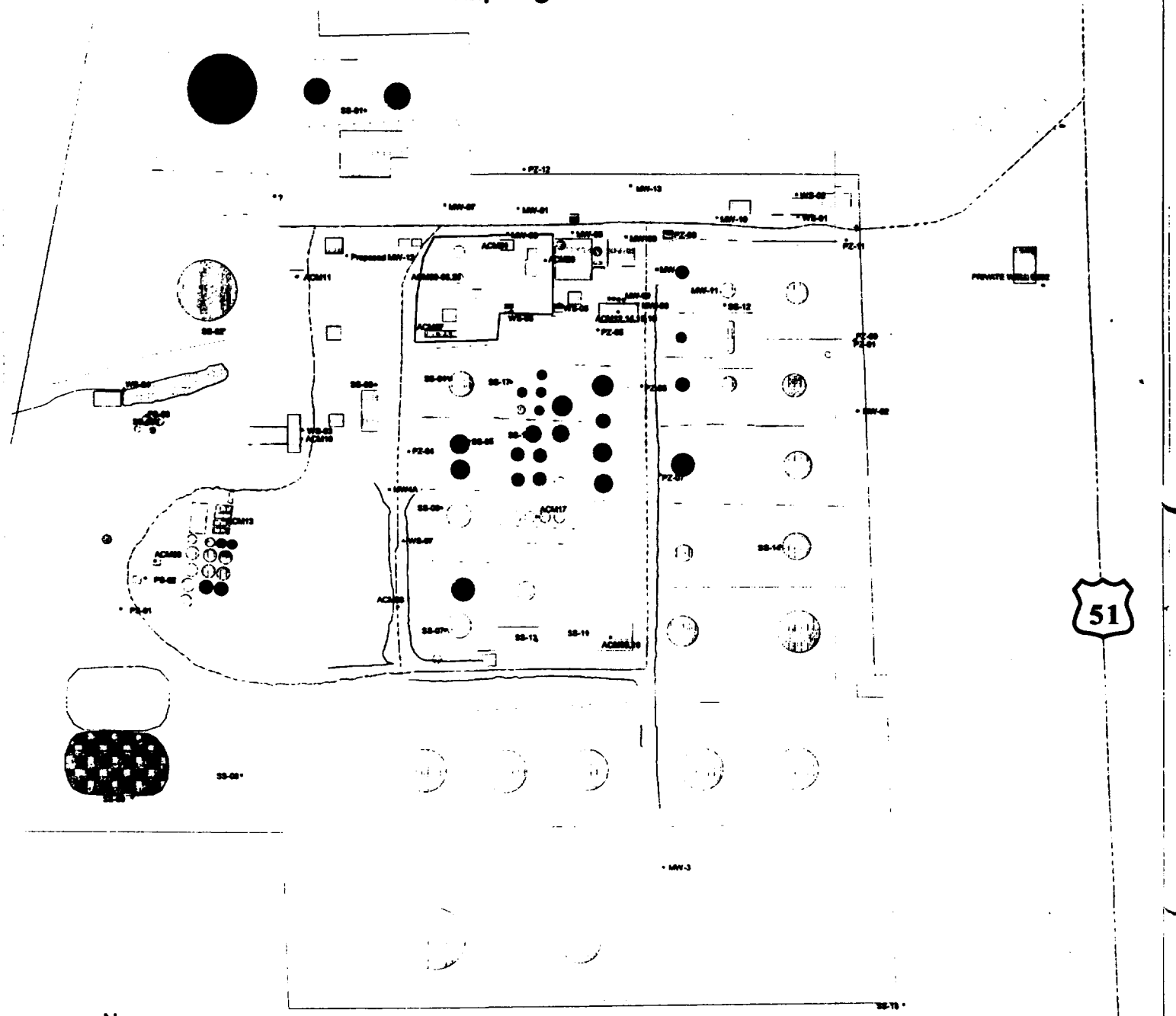
South Central Terminal
Tank and Building Locations



Appendix B

Sample Location Map

South Central Terminal
Sampling Locations Pana, IL



N

200 0 200 400 Fee

Tanks
- demolished
- existing

Wetland area
Refinery
Former Holding Pond
Former Landfill
East Api
West Api
Surface Impoundment
Dikes
Buildings
Pit Sumps
Dead Vegetation/Foundry Sand
Fenceline (approx)

Monitoring Wells
- Estimated from map
- Located by GPS
- Piezometers
- Soil Samples
- Product Samples
- Water Samples
- Asbestos Samples
- Main Gate

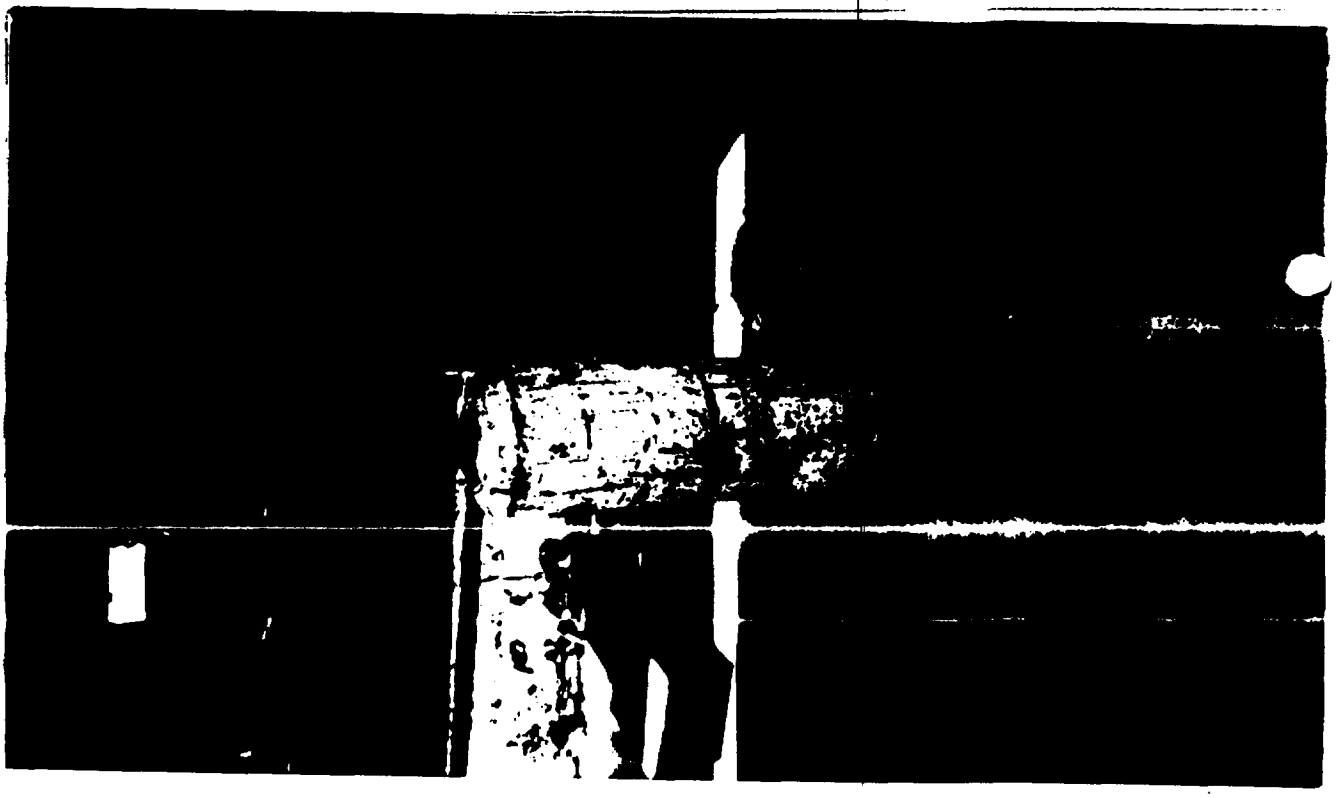
Roads
West Api Ditch
Stream
Ammonium Sulfate

Project Location: d:\gis\projects\fields\pana\panabasemap.apr
Printed 7/22/99
Data prepared by Brian Torreano and Terrance Patterson

Appendix C

Photodocumentation

Site:	South Central Terminal	**Date:**	July 12, 1999	**Time:**	1445
Location:	Pana, Illinois	**Direction:**	West	**Photographer:**	P. Atkociunas
Subject:	Cylinders located outside of northwest building.				

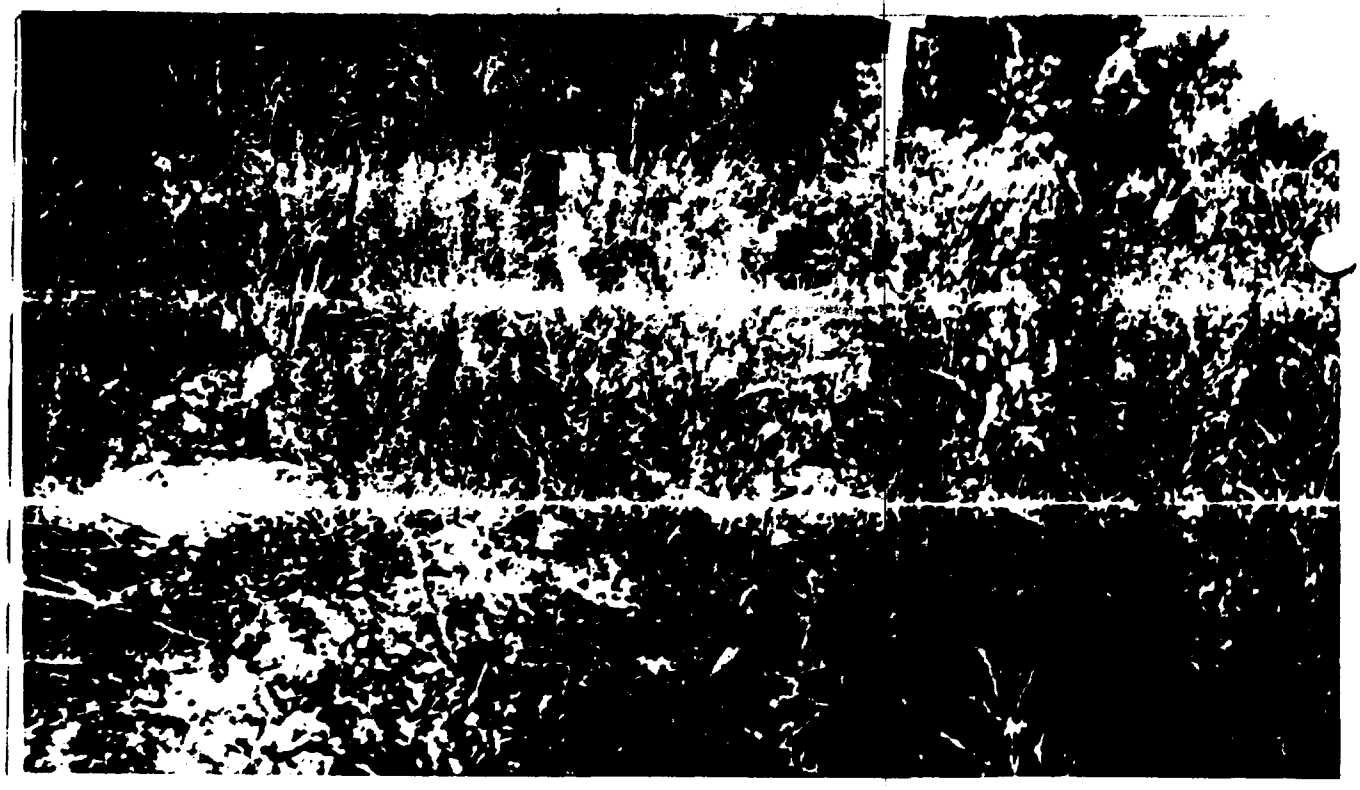


Site:	South Central Terminal	**Date:**	July 12, 1999	**Time:**	1500
Location:	Pana, Illinois	**Direction:**	West	**Photographer:**	P. Atkociunas
Subject:	Cylinders located inside northwest building; left cylinder labeled compressed flammable gas.				

Site:	South Central Terminal	**Date:**	July 12, 1999	**Time:**	1545
Location:	Pana, Illinois	**Direction:**	Northeast	**Photographer:**	P. Atkociunas
Subject:	Three transformers located on west side of site (REAC sample T-2).				

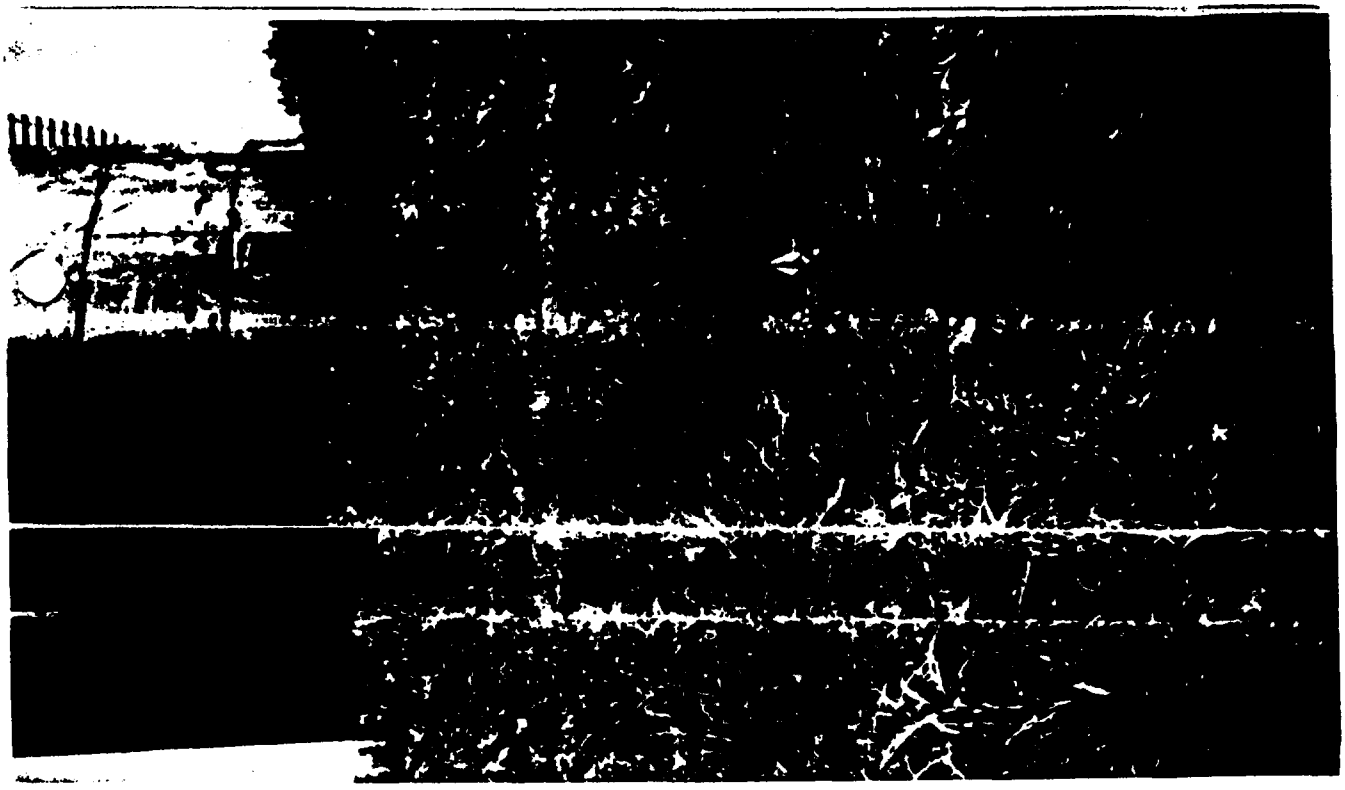
Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0830
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	P. Atkociunas
Subject:	Sample SS-01 collected at flag, in an area approximately 40feet by 50 feet with stressed vegetation.				

Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0900
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	P. Atkociunas
Subject:	Sample SS-02 collected at flag south of tank 90; note valve is closed however it is accessible.				



Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0930
Location:	Pana, Illinois	**Direction:**	Northwest	**Photographer:**	P. Atkociunas
Subject:	Sample SS-03 collected at flag, approximately 10 feet south of concrete pad				

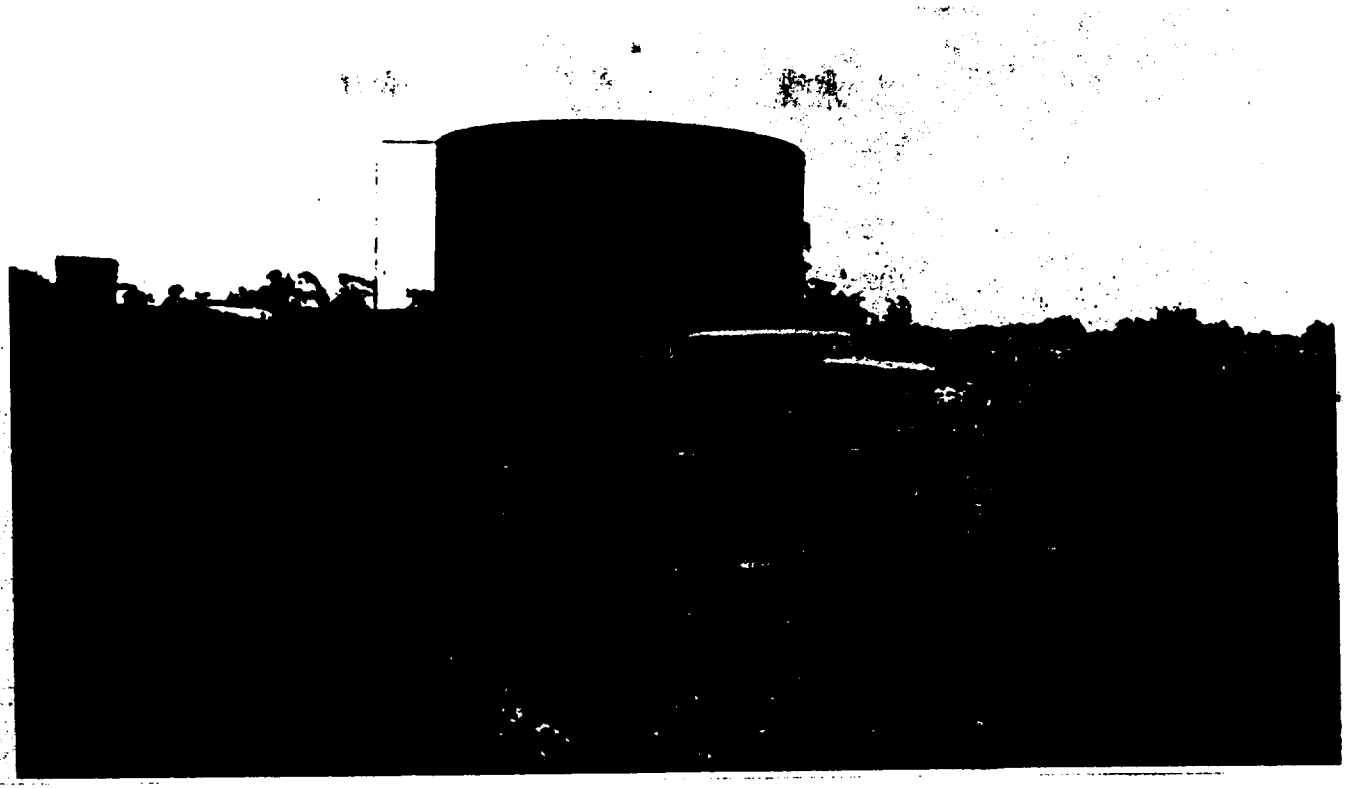
Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0945
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample SS-04 collected at flag; note tar-like material surrounds the west side of tank 30.				



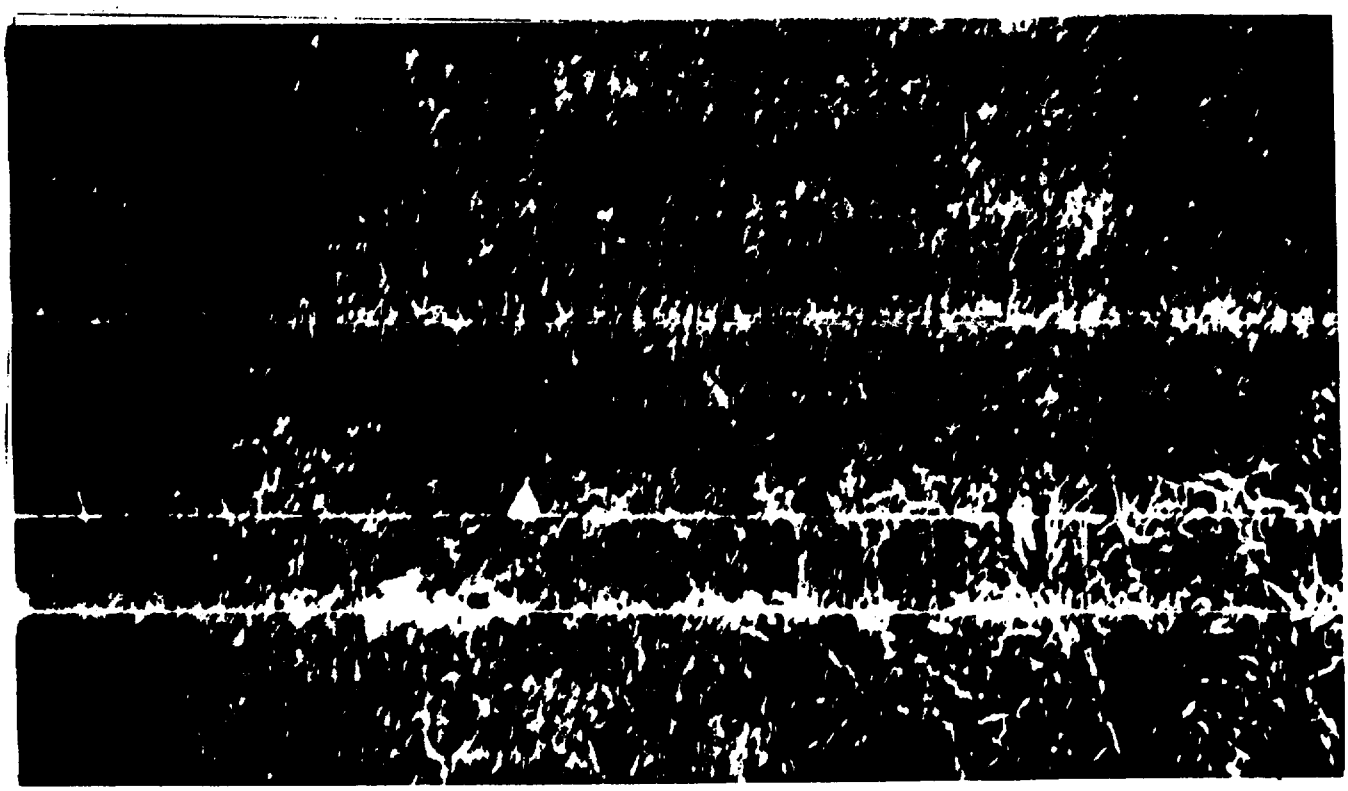
Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1000
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	P. Atkociunas
Subject:	Sample SS-05 collected at flag; tank 30 in background.				

Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0900
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	P. Atkociunas
Subject:	Sample SS-02 collected at flag south of tank 90; note valve is closed however it is accessible.				

Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0930
Location:	Pana, Illinois	**Direction:**	Northwest	**Photographer:**	P. Atkociunas
Subject:	Sample SS-03 collected at flag, approximately 10 feet south of concrete pad				



Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1015
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample SS-06 collected west of tank 30, note small amount of free liquid.				

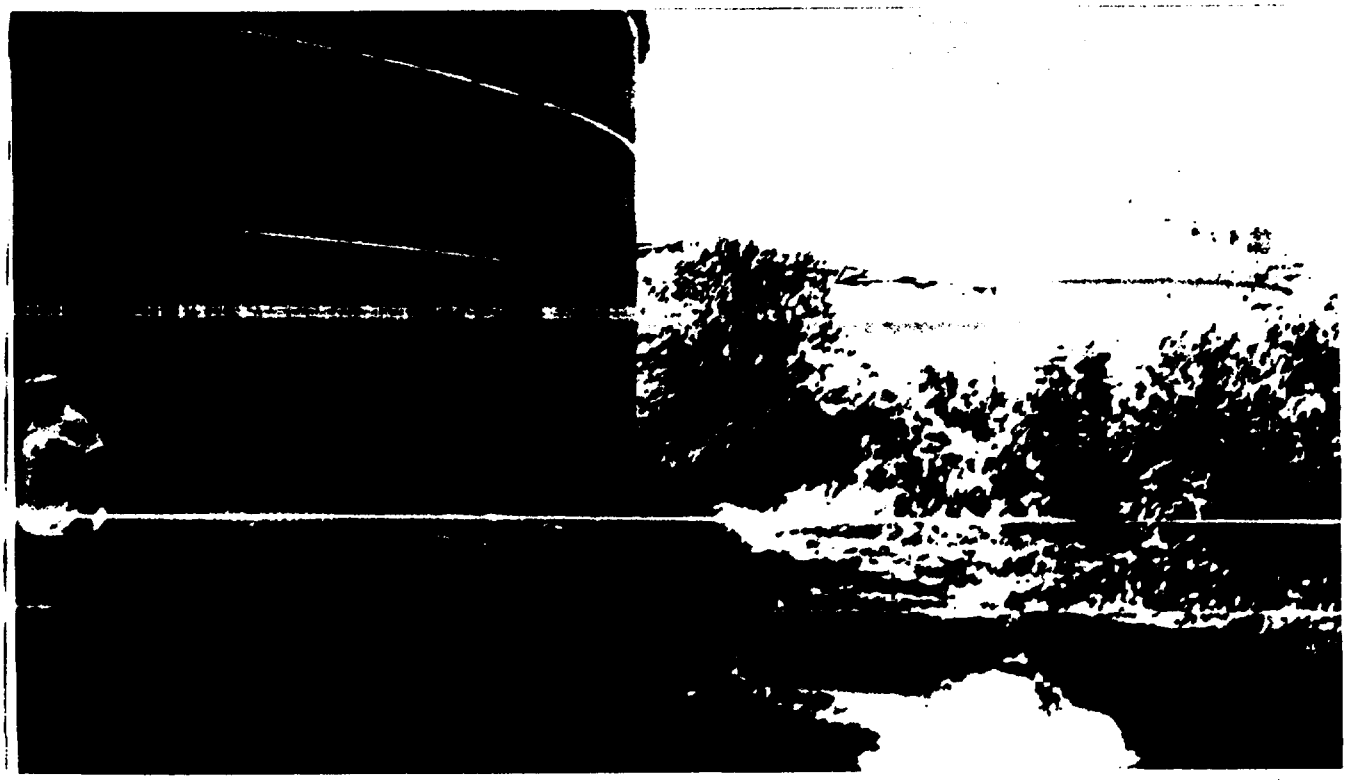


Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1050
Location:	Pana, Illinois	**Direction:**	Down	**Photographer:**	P. Atkociunas
Subject:	Sample SS-09 collected at flag; slag-like material detected in the southwest corner of site.				

Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1048
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample SS-08 collected at flag in moist soil; note area where foundry sand was staged.				

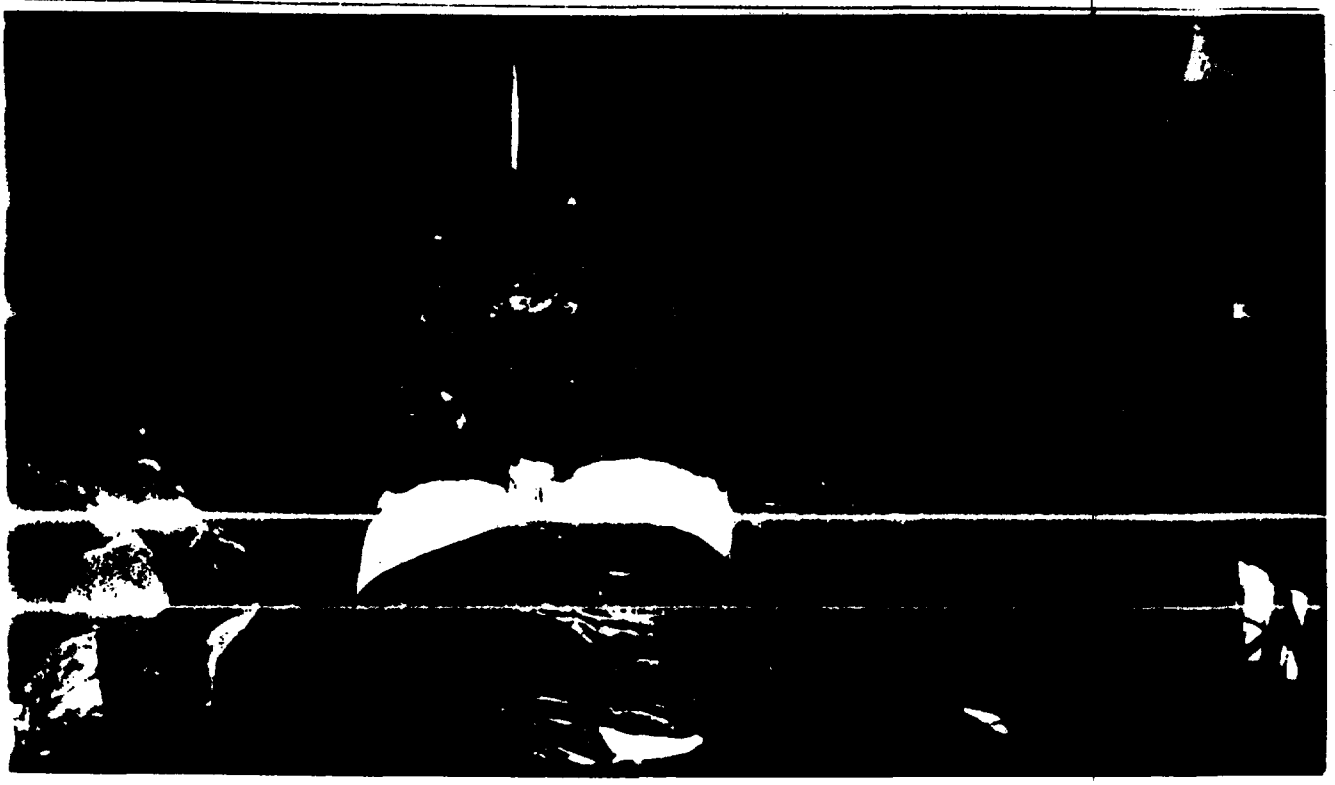
Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1048
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample SS-07 collected at flag, note staining and that tank 32 is leaking ammonium sulfate material.				

Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1110
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	P. Atkociunas
Subject:	Sample PS-01 collected at flag, product released from tank north of trees (tank 310).				



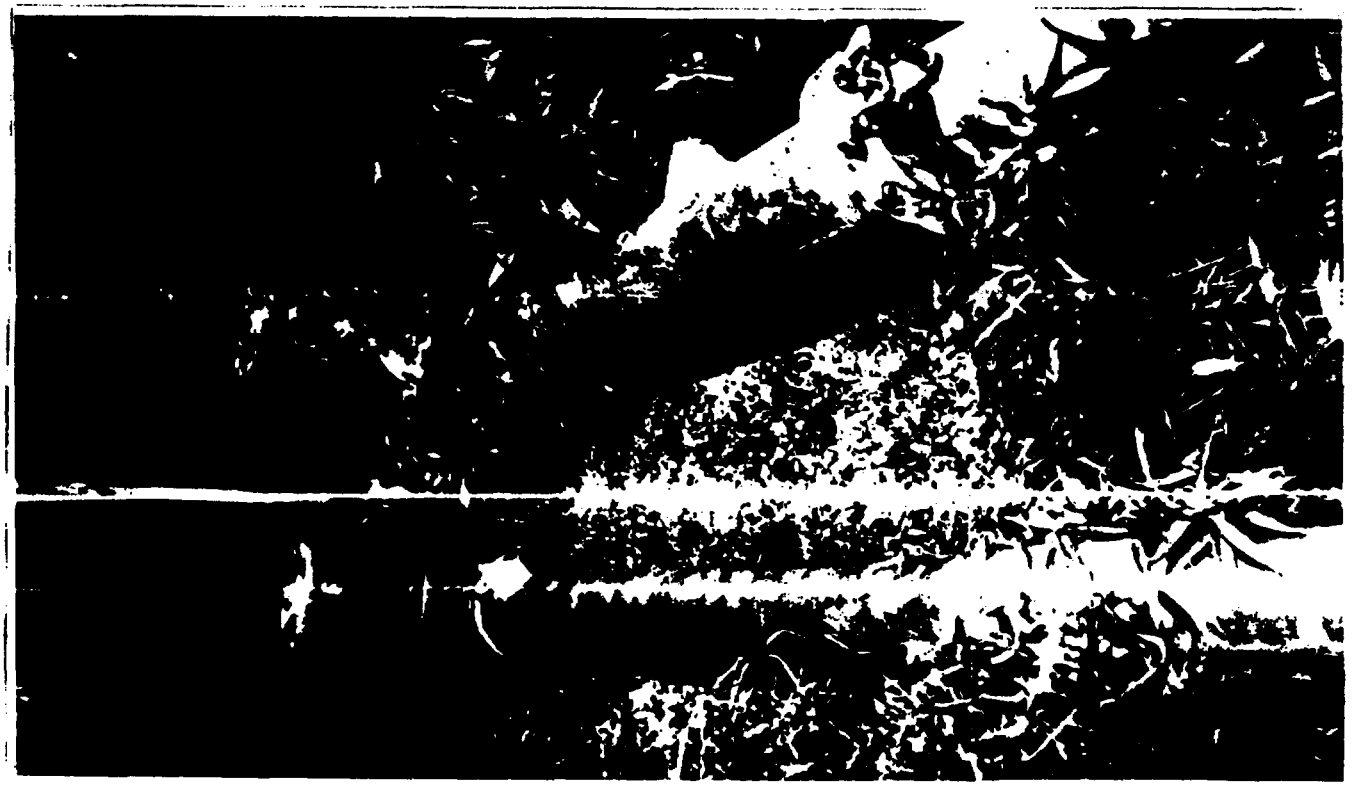
Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1115
Location:	Pana, Illinois	**Direction:**	Northeast	**Photographer:**	P. Atkociunas
Subject:	Sample SS-10 collected at flag; note stained soil adjacent to tank 314.				

Site: South Central Terminal **Date:** July 13, 1999 **Time:** 1430
Location: Pana, Illinois **Direction:** North **Photographer:** P. Atkociunas
Subject: Sample SS-12 collected at flag south of tank 103.



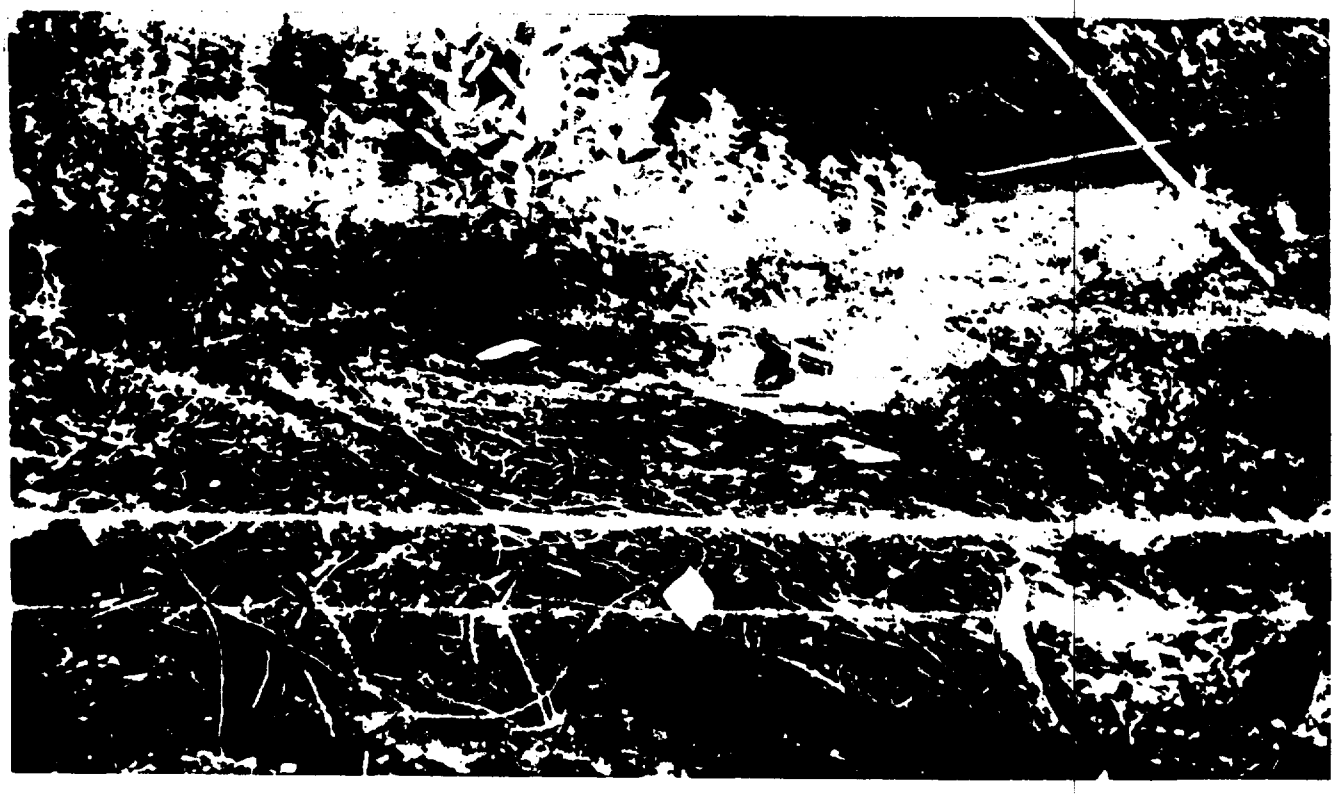
Site: South Central Terminal **Date:** July 13, 1999 **Time:** 1440
Location: Pana, Illinois **Direction:** North **Photographer:** L. Fitzgerald
Subject: Sample SS-11 collected from debris pile in south building.

Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1455
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample SS-13 collected at flag where foundry sand was staged, tank 34 in background.				



Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1520
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample SS-14 colleted at flag west of tank 109.				

Site: South Central Terminal **Date:** July 13, 1999 **Time:** 1545
Location: Pana, Illinois **Direction:** North **Photographer:** P. Atkociunas
Subject: Sample SS-15 collected at flag (outside fence); note pooled NH_4SO_4 material.

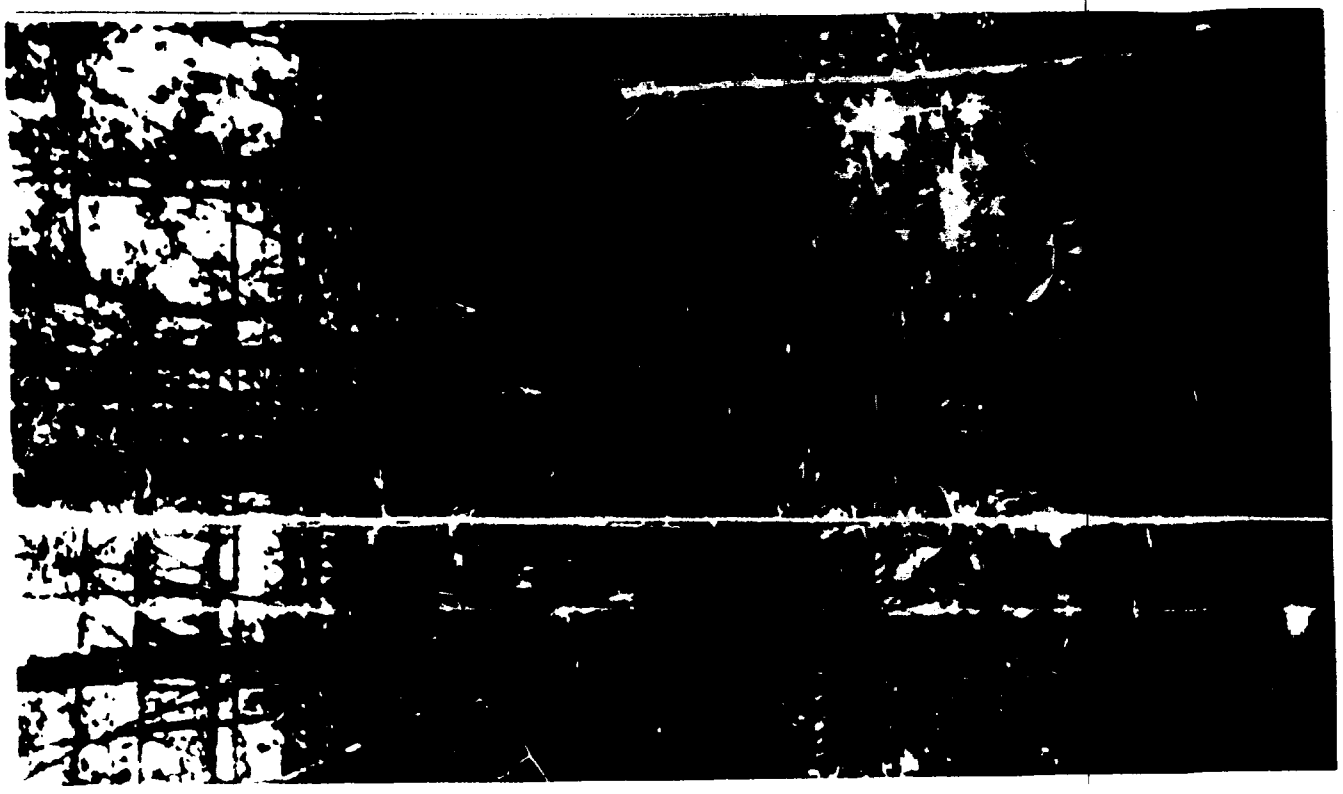


Site: South Central Terminal **Date:** July 14, 1999 **Time:** 0800
Location: Pana, Illinois **Direction:** Down **Photographer:** P. Atkociunas
Subject: Sample PS-02 collected at flag in area where product has been released west of the asphalt plant.

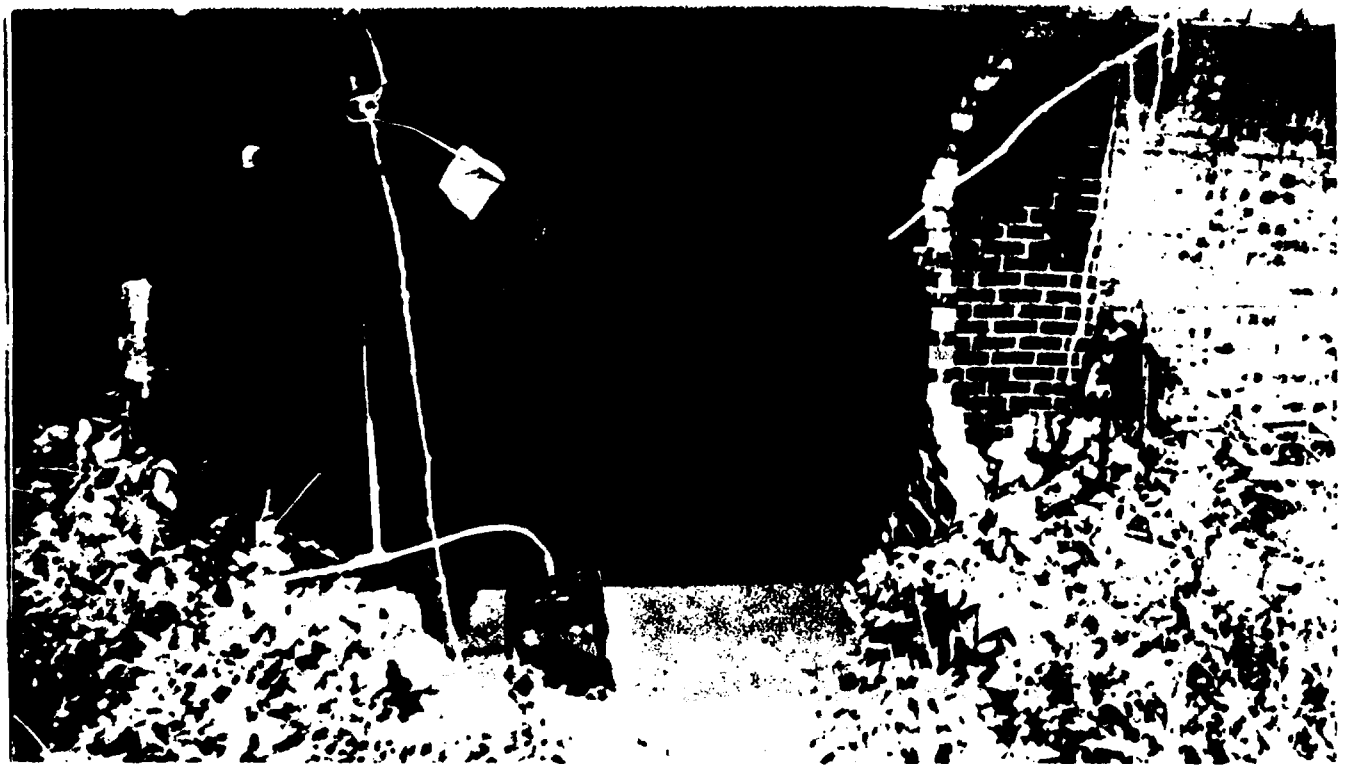
Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	0820
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	P. Atkociunas
Subject:	Sample SS-16 collected at flag; note sample location is in area of a former AST.				

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	0830
Location:	Pana, Illinois	**Direction:**	Down	**Photographer:**	P. Atkociunas
Subject:	Sample SS-17 collected at flag in area northwest of tank 13, note deer tracks in soil.				

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	0930
Location:	Pana, Illinois	**Direction:**	West	**Photographer:**	P. Atkociunas
Subject:	Water sample WS-01 collected from pit in lead building.				



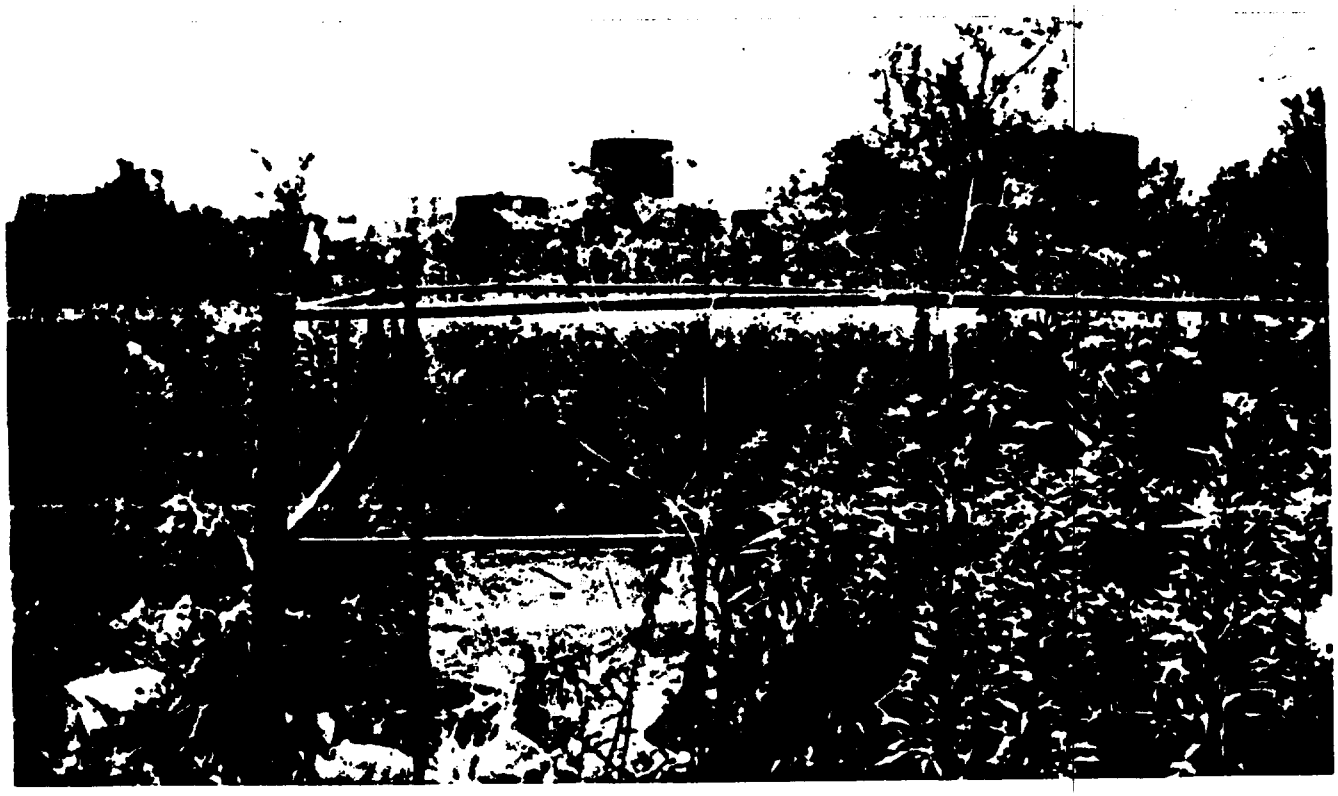
Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	0940
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	P. Atkociunas
Subject:	Water sample WS-02 collected from drainage ditch located north of the lead building				



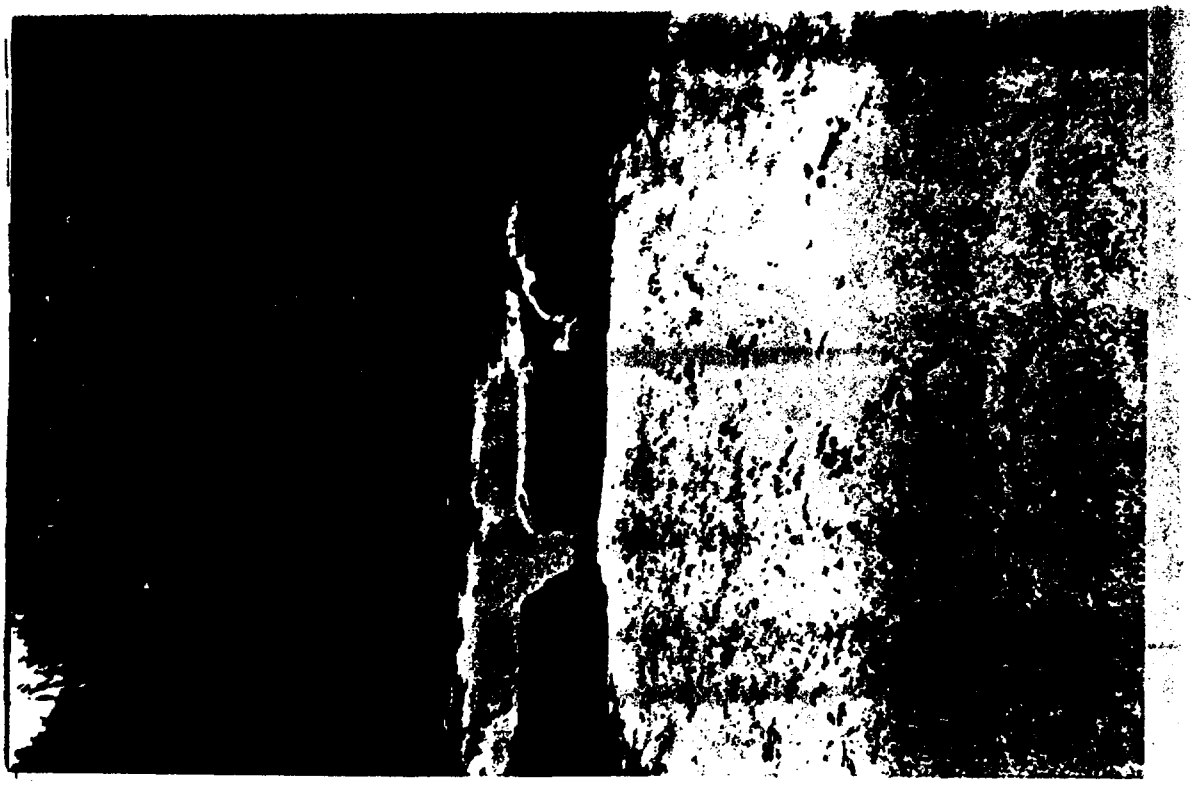
Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1000
Location:	Pana, Illinois	**Direction:**	West	**Photographer:**	P. Atkociunas
Subject:	Water sample WS-03 collected from pump house located east of west API separator.				

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1015
Location:	Pana, Illinois	**Direction:**	Down	**Photographer:**	P. Atkociunas
Subject:	Sample WS-04 collected from water (left of boom) at ditch constructed around west API separator.				

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1045
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	P. Atkociunas
Subject:	Sample PS-04 taken from product floating on lagoon; note amount of oil and staining of banks.				

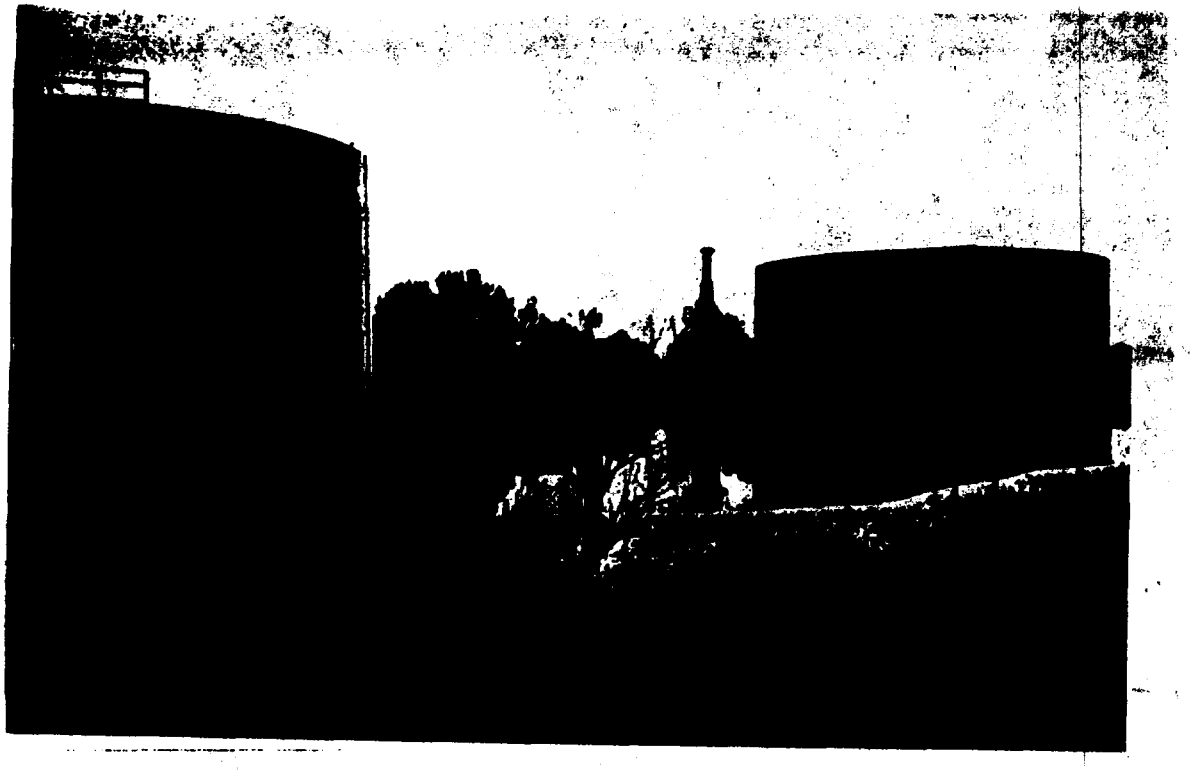


Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1300
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	P. Atkociunas
Subject:	Sample WS-05 collected from water accumulated in pit sump.				



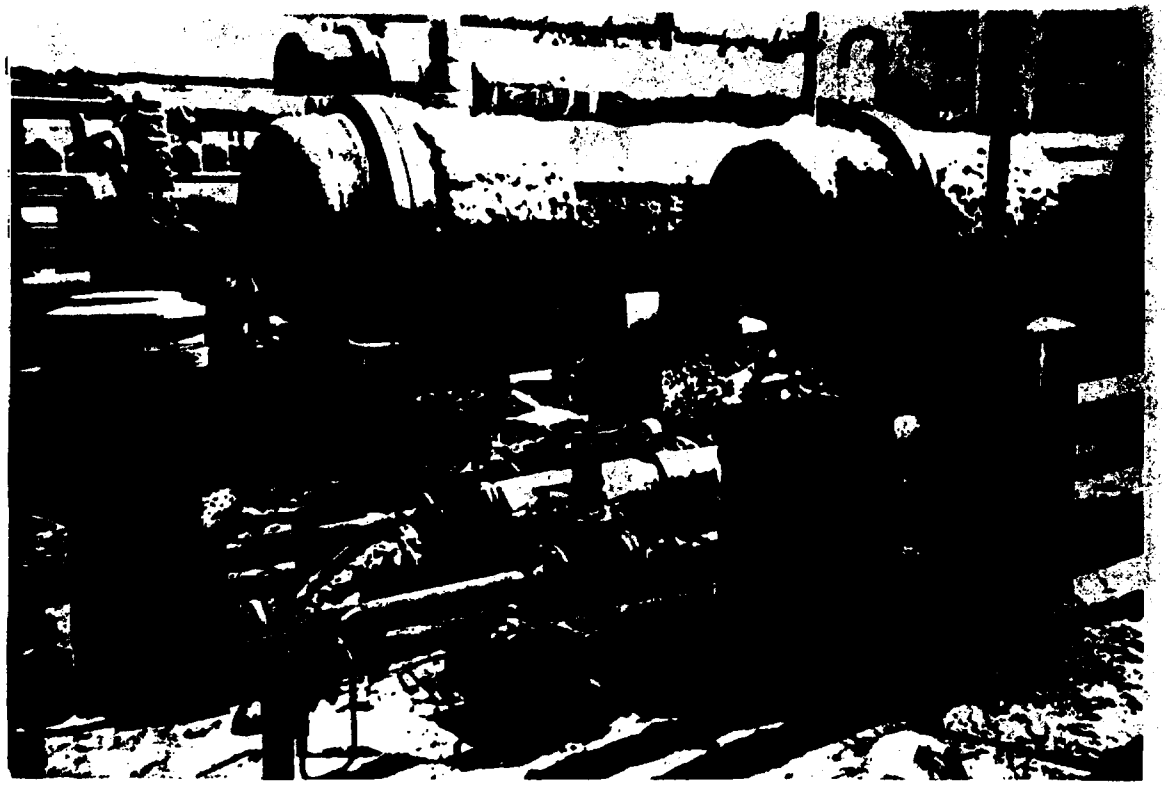
Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1510
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	The east API separator, note amount of duckweed and vegetation.				

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1530
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Drainage area on south side of site; location of historical releases of ammonium sulfate material.				

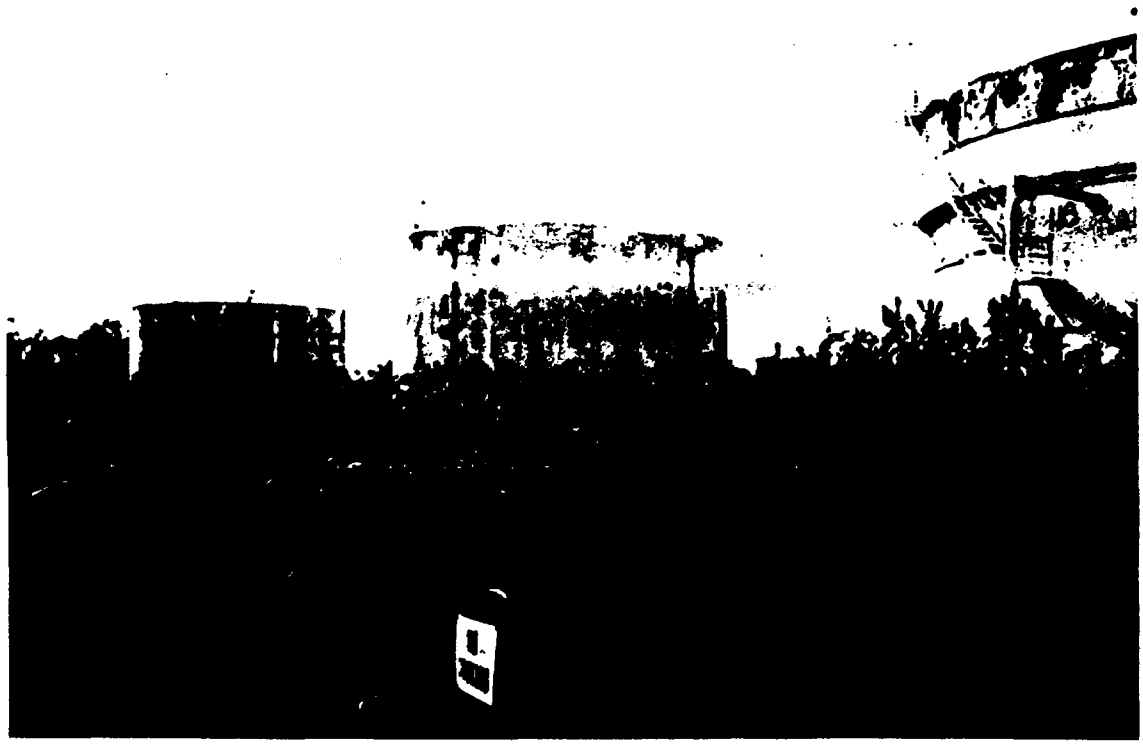


Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1535
Location:	Pana, Illinois	**Direction:**	Southwest	**Photographer:**	P. Atkociunas
Subject:	Tanks 37 and 19, note ammonium sulfate material accumulated in secondary containment unit.				

Site:	South Central Terminal	**Date:**	July 15, 1999	**Time:**	0900
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample WS-07 collected from drainage ditch west of tanks 31 and 32.				

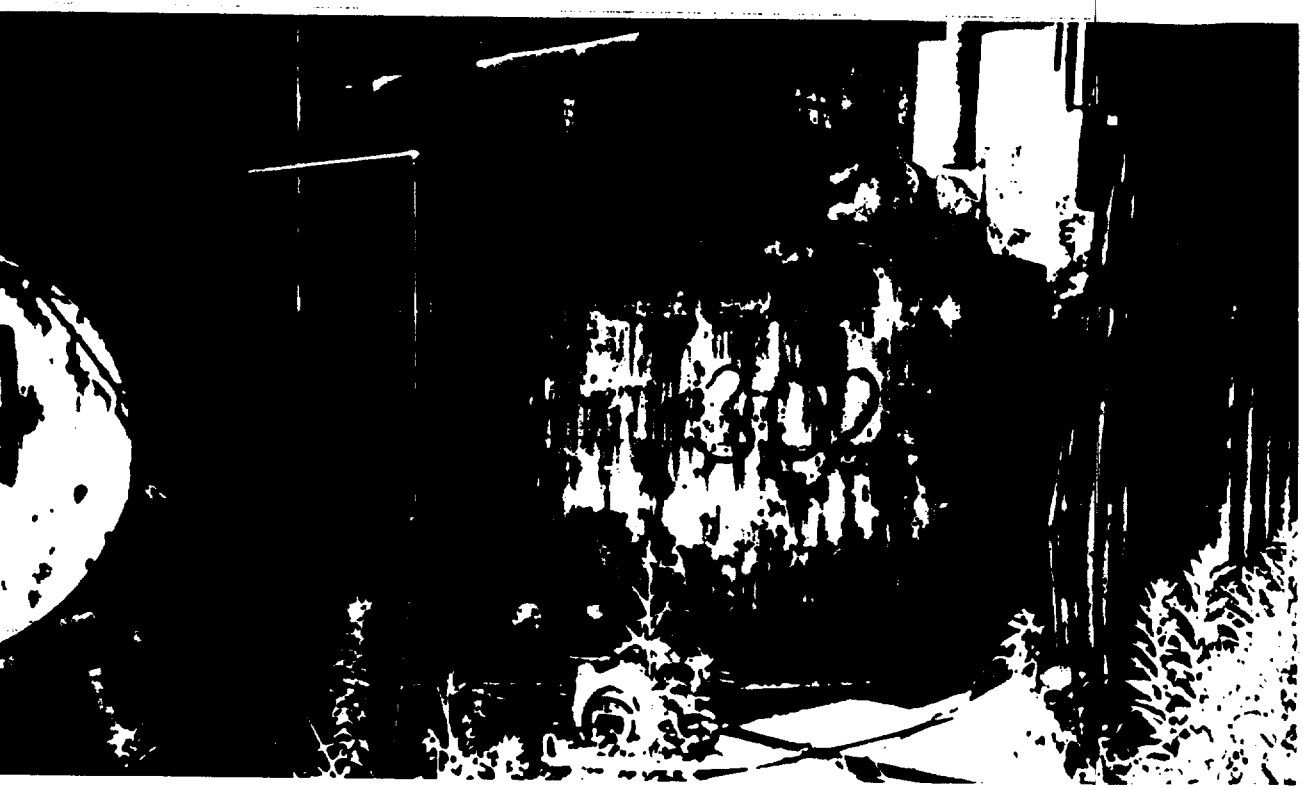


Site:	South Central Terminal	**Date:**	July 15, 1999	**Time:**	1330
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Sample PS-05 collected from poly drums in processing area: note stained drums and debris.				



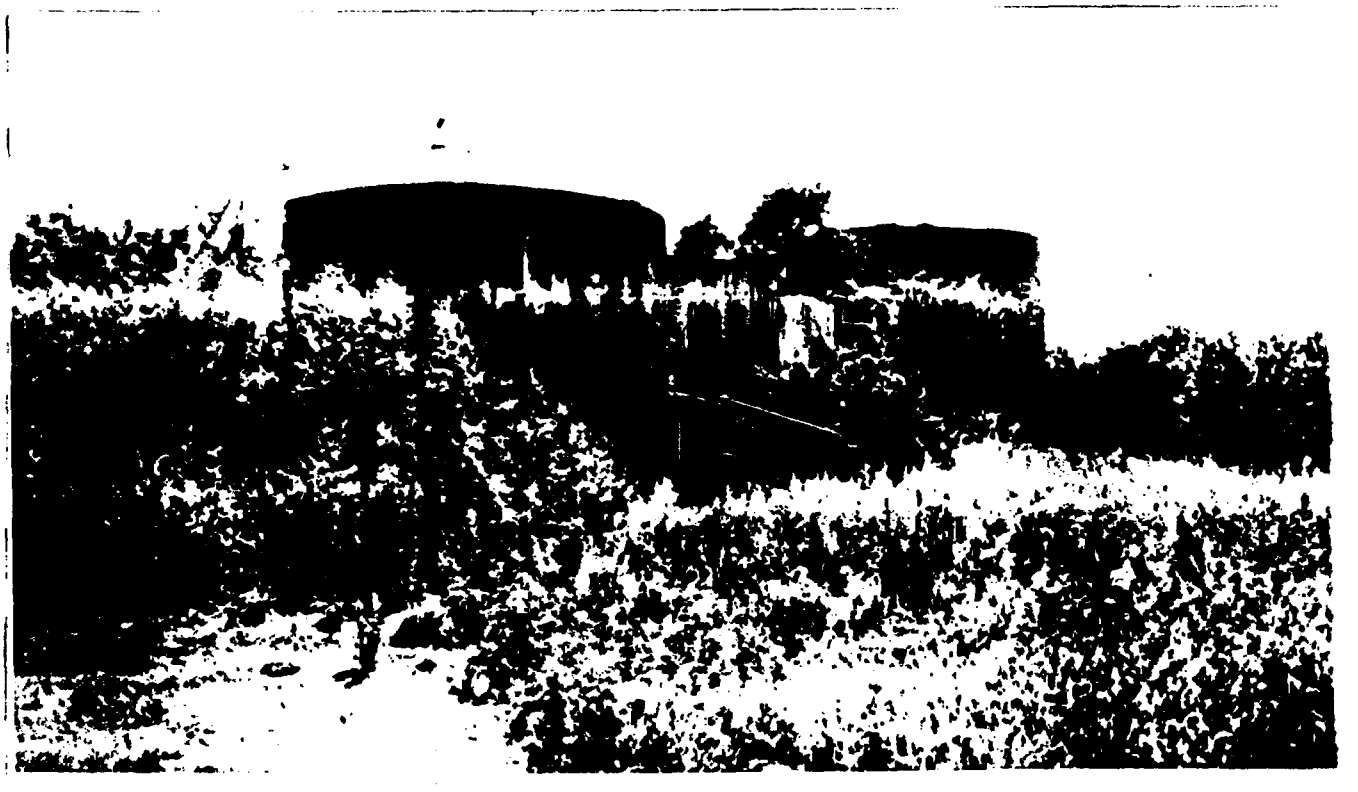
Site:	South Central Terminal	**Date:**	July 16, 1999	**Time:**	0930
Location:	Pana, Illinois	**Direction:**	Southeast	**Photographer:**	P. Atkociunas
Subject:	Tanks 115, 116, 117, 118; note partial roof collapse of tank 117.				

Site:	South Central Terminal	**Date:**	July 16, 1999	**Time:**	1020
Location:	Pana, Illinois	**Direction:**	Southwest	**Photographer:**	P. Atkociunas
Subject:	Towers and processing area; note condition of the site.				

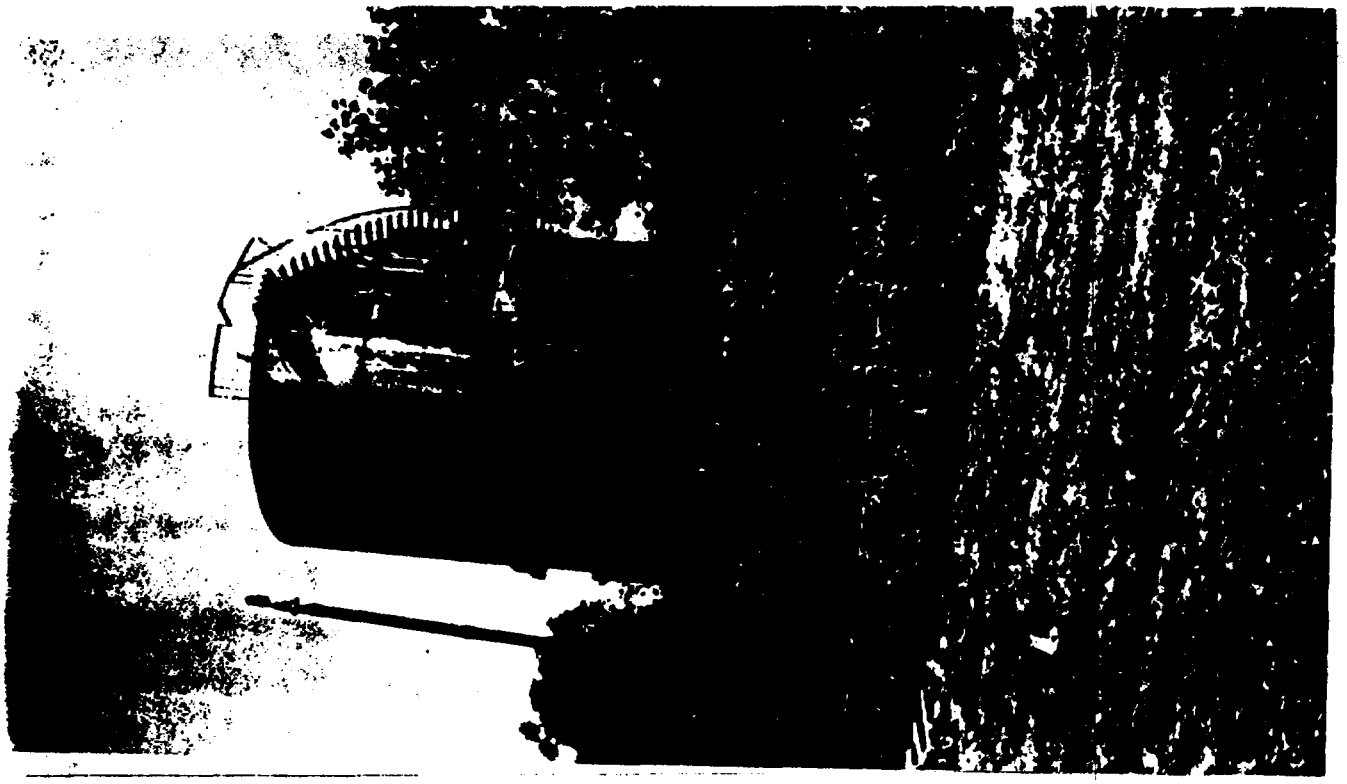


Site:	South Central Terminal	**Date:**	July 12, 1999	**Time:**	1500
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	N. Derkowski
Subject:	REAC sampling tank 302; note condition of tank and debris.				

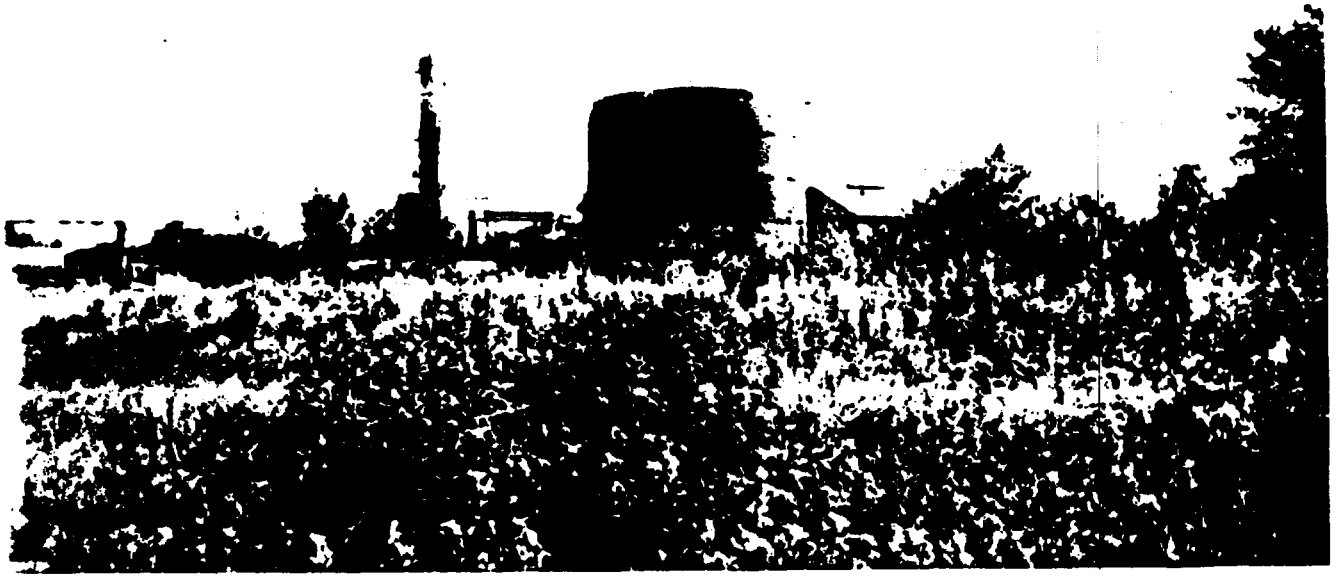
Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	0837
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	N. Derkowski
Subject:	Tank 102, which contains approximately 6,532 gallons of dark liquid.				



Site:	South Central Terminal	**Date:**	July 13, 1999	**Time:**	1613
Location:	Pana, Illinois	**Direction:**	Southwest	**Photographer:**	N. Derkowski
Subject:	Tanks 40 to 43. ACM detected on piping between tanks.				



Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	0921
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	N. Derkowski
Subject:	Tank 34, which contains 457 gallons of product; note condition of tank.				



Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1000
Location:	Pana, Illinois	**Direction:**	Northeast	**Photographer:**	N. Derkowski
Subject:	Tank 30, which contains approximately 887 gallons of product; note roof is buckled.				

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1143
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	N. Derkowski
Subject:	Tanks 311 to 314 located south of surface impoundment.				

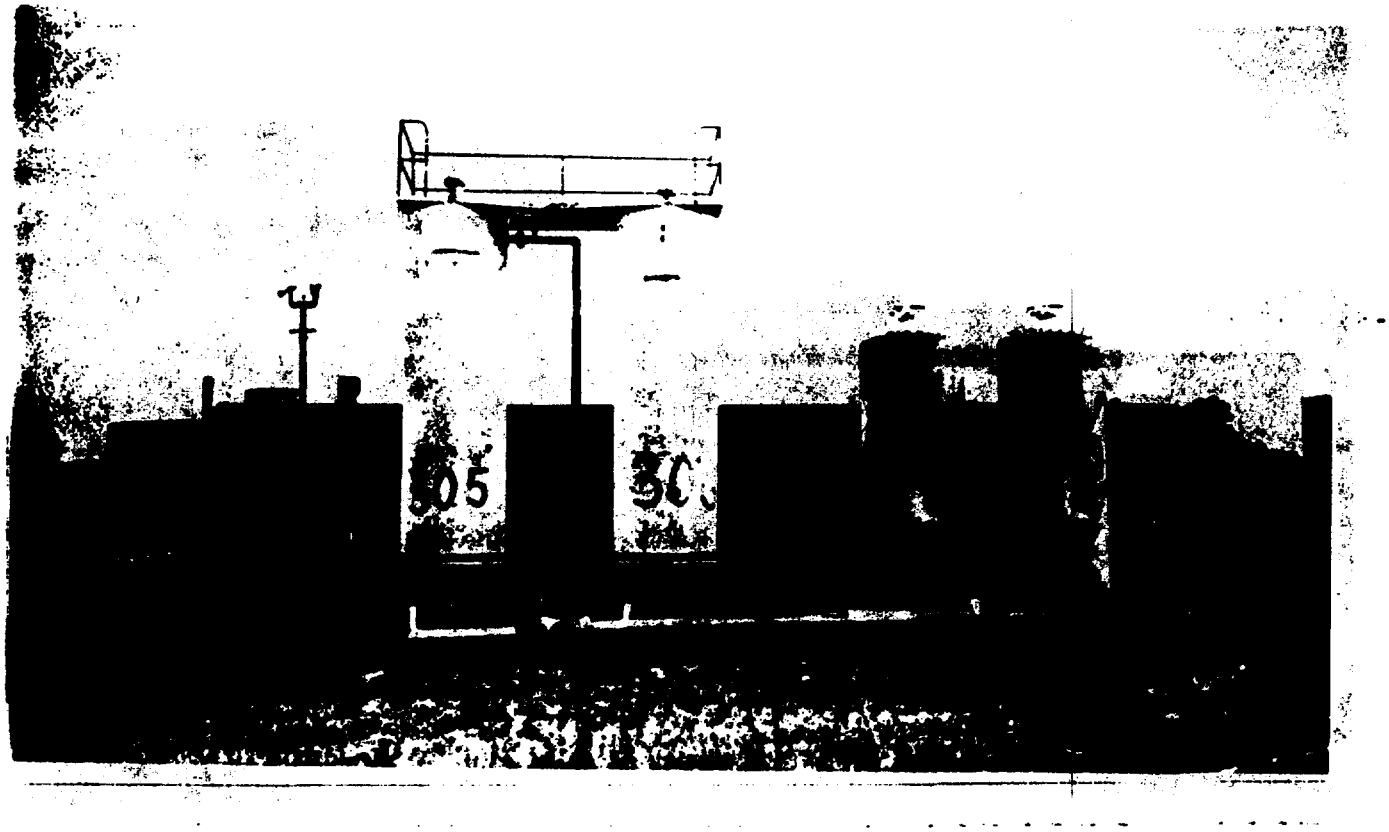
Site:	South Central Terminal	**Date:**	July 15, 1999	**Time:**	1530
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	N. Derkowski
Subject:	Composite sample T-01 collected from the three transformers located in the south building.				

Site: South Central Terminal **Date:** July 16, 1999 **Time:** 1430
Location: Pana, Illinois **Direction:** South **Photographer:** P Atkociunas
Subject: Tanks 305 to 308, tanks 305 and 306 contained a granular solid, tank 307 contained a flammable liquid.

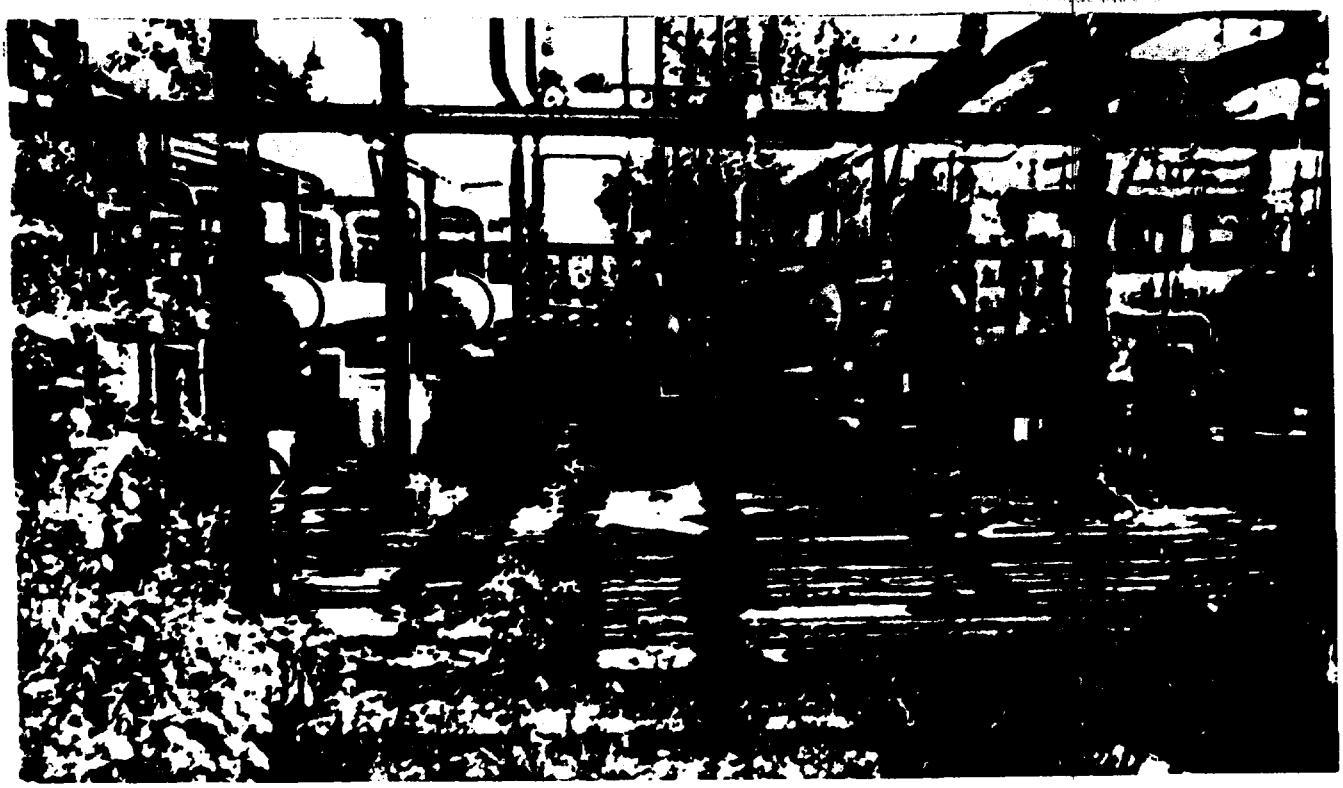
Site: South Central Terminal **Date:** July 16, 1999 **Time:** 1438
Location: Pana, Illinois **Direction:** South **Photographer:** P Atkociunas
Subject: Processing area; note contents were inspected by REAC and written on vessels.

Site:	South Central Terminal	**Date:**	July 14, 1999	**Time:**	1143
Location:	Pana, Illinois	**Direction:**	North	**Photographer:**	N. Derkowski
Subject:	Tanks 311 to 314 located south of surface impoundment.				

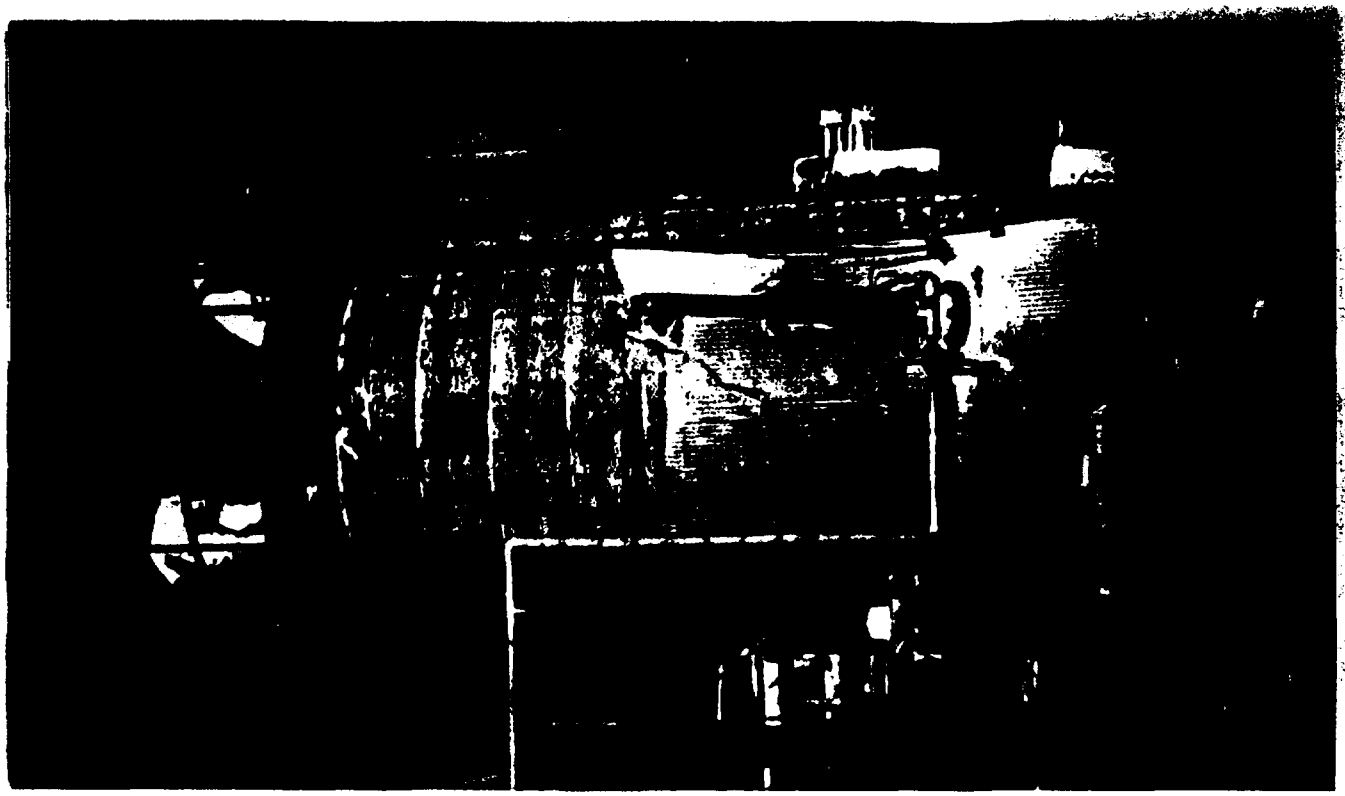
Site:	South Central Terminal	**Date:**	July 15, 1999	**Time:**	1530
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	N. Derkowski
Subject:	Composite sample T-01 collected from the three transformers located in the south building.				



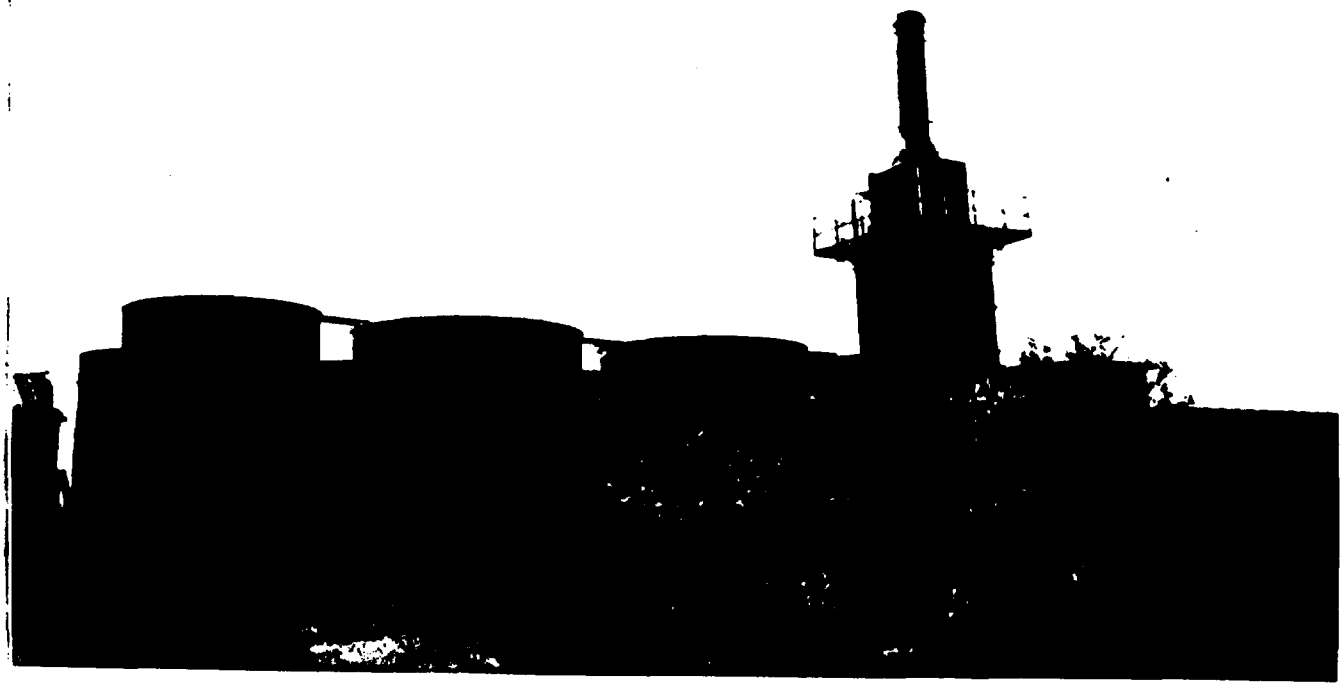
Site:	South Central Terminal	**Date:**	July 16, 1999	**Time:**	1430
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	P. Atkociunas
Subject:	Tanks 305 to 308, tanks 305 and 306 contained a granular solid, tank 307 contained a flammable liquid.				



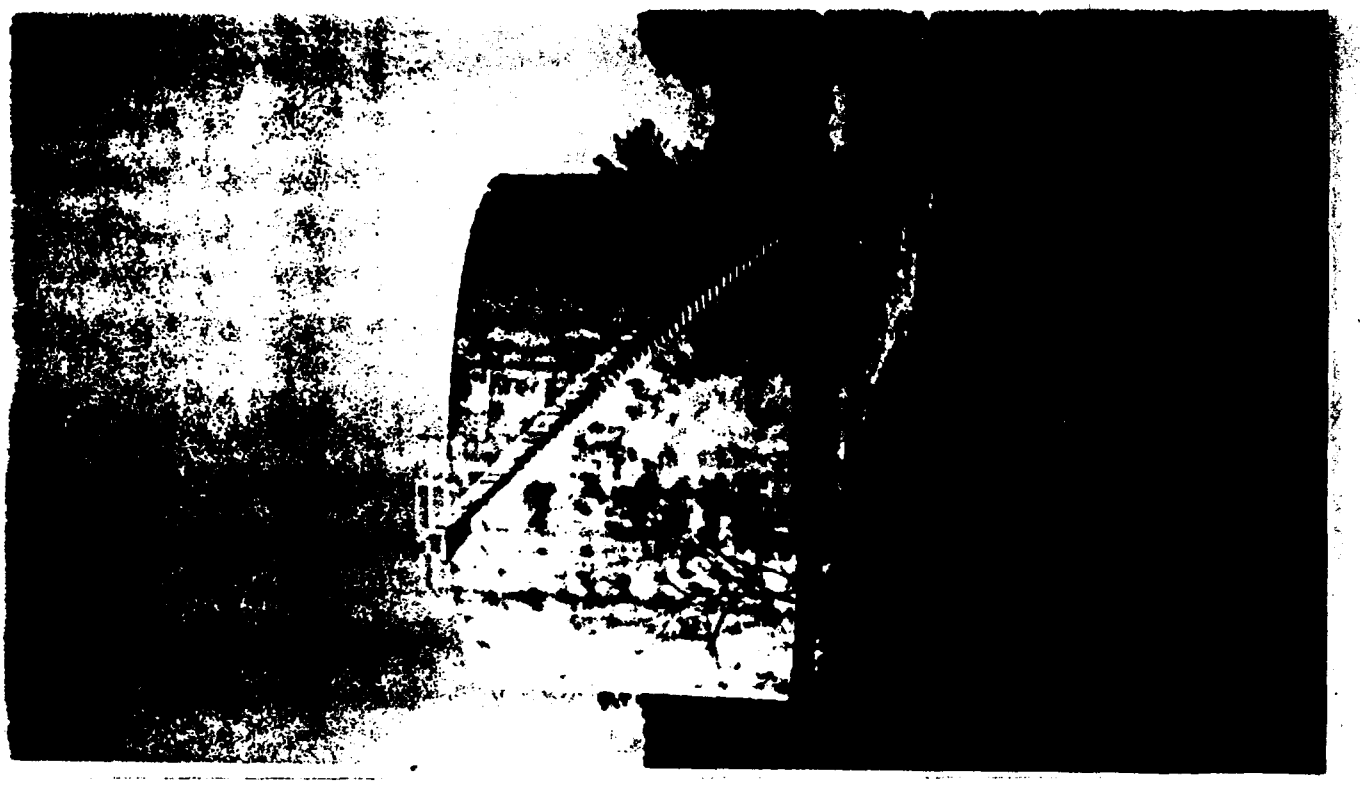
Site:	South Central Terminal	**Date:**	July 16, 1999	**Time:**	1435
Location:	Pana, Illinois	**Direction:**	South	**Photographer:**	P. Atkociunas
Subject:	Processing area: note contents were inspected by REAC and written on vessels.				



Site:	South Central Terminal	**Date:**	July 16, 1999	**Time:**	1450
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	REAC sampling transformers/reactors (sample T-03) located on top of vertical tank at processing area.				

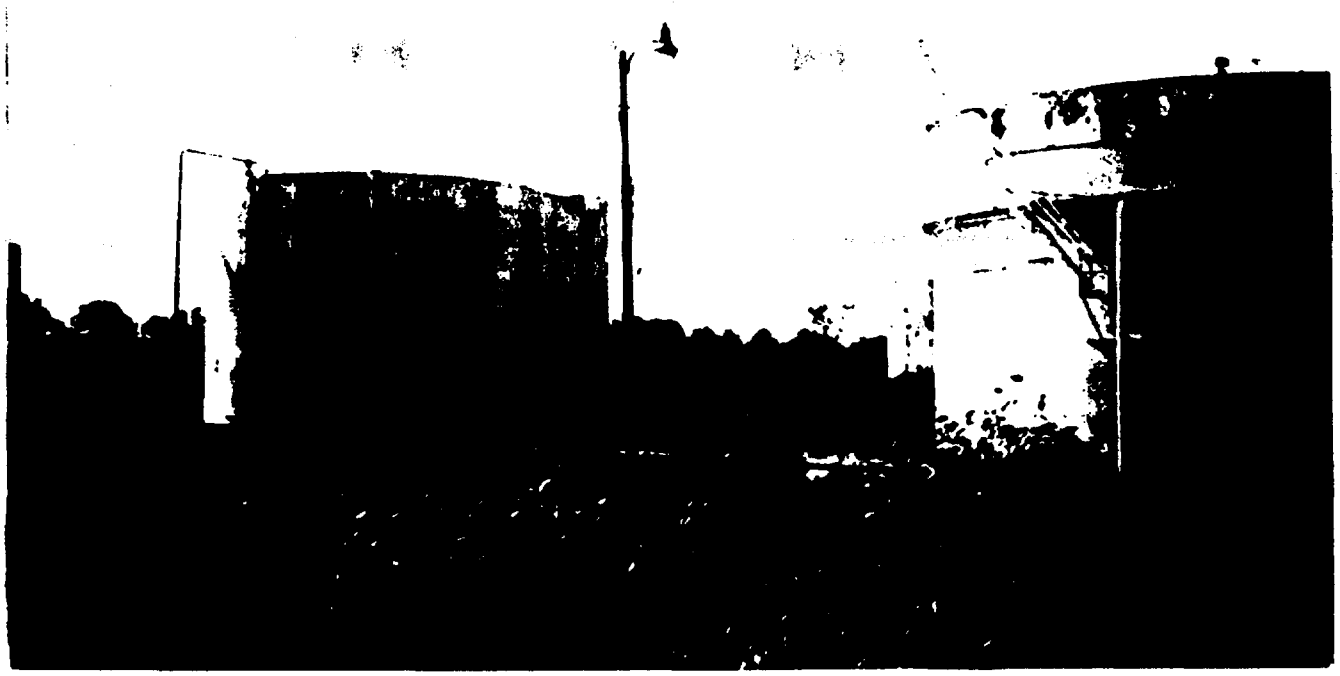


Site:	South Central Terminal	**Date:**	July 19, 1999	**Time:**	0900
Location:	Pana, Illinois	**Direction:**	East	**Photographer:**	P. Atkociunas
Subject:	Asphalt plant; piping on asphalt plant was found to contain ACM.				



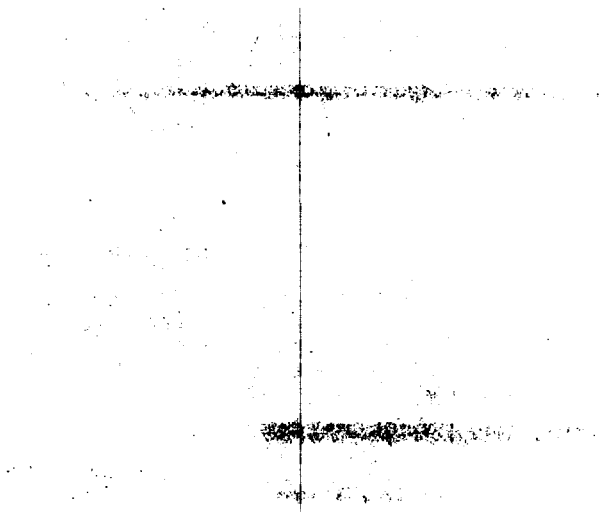
Site: South Central Terminal **Date:** July 19, 1999 **Time:** 0905
Location: Pana, Illinois **Direction:** Southwest **Photographer:** P. Atkociunas
Subject: Tank 37; note ammonium sulfate material in containment area.

Site: South Central Terminal **Date:** July 19, 1999 **Time:** 0910
Location: Pana, Illinois **Direction:** Southwest **Photographer:** P. Atkociunas
Subject: Tank 19, which has a capacity of 2.3 million gallons.



Site: South Central Terminal **Date:** July 19, 1999 **Time:** 0925
Location: Pana, Illinois **Direction:** Southeast **Photographer:** P. Atkociunas
Subject: Tanks 117, 37, and 118; note buckling of roof of tank 117 and ammonium sulfate material in berm.

Site: South Central Terminal **Date:** July 19, 1999 **Time:** 0925
Location: Pana, Illinois **Direction:** Southwest **Photographer:** P. Atkociunas
Subject: Tanks 19 and 119; note condition of the tanks.



Appendix D

REAC Sample Results

ASBESTOS ANALYTICAL RESULTS (PLM)
South Central Terminal
Pana, Illinois
R1A 00072
August 1999

LOCATION	Description	Asbestos (yes/no)	Chrysotile (area%)	Amphibole (area%)
ACM001	grey sandy plaster	NO	ND	ND
ACM002	white fibrous insulation	NO	ND	ND
ACM003	white fibrous insulation	NO	ND	ND
ACM004	white fibrous insulation	NO	ND	ND
ACM005	white fibrous insulation	NO	ND	ND
ACM006	white fibrous insulation	NO	ND	ND
ACM007	white fibrous insulation	NO	ND	ND
ACM008	tan floor tile, white paint	NO	ND	ND
ACM009	white fibrous insulation	**YES**	**20**	ND
ACM010	white fibrous mud-insulation	**YES**	ND	**50 Crocidolite 20 Amosite**
ACM011	yellow fibrous insulation	NO	ND	ND
ACM012	grey drywall	NO	ND	ND
ACM013	grey fibrous material	**YES**	**5**	ND
ACM014	grey fibrous material	**YES**	**7**	**20 Amosite**
ACM015	grey fibrous material	**YES**	**20**	**35 Amosite**
ACM016	white fibrous material	**YES**	**35**	ND
ACM017	brown fibrous material	**YES**	**5**	**85 Amosite**
ACM018	white fibrous insulation	NO	ND	ND
ACM019	white fibrous material	NO	ND	ND
ACM020	brown mud-insulation	**YES**	**40**	ND
ACM021	white fibrous insulation	NO	ND	ND

AMMONIA ANALYTICAL RESULTS
South Central Terminal
Pana, Illionois
R1A 00072
August 1999

TANK	AMMONIA Concentration in mg/kg
113	14,400
115	5,110
116	4,650
117	6,090
119	6,400

BRITISH THERMAL UNITS (BTU)
ANALYTICAL RESULTS
South Central Terminal
Pana, Illionois
R1A 00072
August 1999

TANK	BRITISH THERMAL UNITS Concentration in BTU/lb.
13	108,000
32A	58,400
90	16,200
100	15,000
102	BQL
108	BQL
118	BQL
300	16,200
302	1,140
304	15,400
307	14,600
311	12,700
313	BQL
401	17,100
402	15,700
403	BQL
404	2,920
408	BQL
409	BQL
411	9,820
413	14,400

METALS ANALYTICAL RESULTS
SOUTH CENTRAL TERMINAL
R1A 00072
August 1999

COMPOUND	TANK 13 in mg/kg	TANK 100 in mg/kg	TANK 102 in ug/l	TANK 108 in ug/l	TANK 113 in ug/l	TANK 115 in ug/l	TANK 116 in ug/l
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Aluminum	22.7	BQL	BQL	BQL	11,000	BQL	4,630
Arsenic	BQL	0.85	BQL	292	196	283	138
Barium	BQL	BQL	BQL	BQL	321	85.5	96.6
Beryllium	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Calcium	BQL	BQL	BQL	26,300	324,000	287,000	193,000
Cadmium	BQL	BQL	BQL	BQL	60.6	BQL	BQL
Cobalt	BQL	BQL	BQL	BQL	613	90.5	126
Chromium	BQL	BQL	BQL	165	344	855	246
Copper	BQL	BQL	260	57.1	997	957	877
Iron	BQL	BQL	17,700	95,100	2,000,000	1,860,000	176,000
Mercury	BQL	1.6	BQL	BQL	BQL	BQL	BQL
Potassium	BQL	BQL	BQL	593,000	1,470,000	5,630,000	3,400,000
Magnesium	BQL	BQL	BQL	76,000	1,360,000	1,260,000	938,000
Manganese	BQL	0.60	BQL	3,260	47,200	17,600	24,700
Sodium	BQL	BQL	138,000	2,430,000	207,000	1,320,000	757,000
Nickel	BQL	BQL	BQL	72.2	1,460	1,420	548
Lead	BQL	223	237	62.4	110	260	176
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Selenium	0.63	1.7	BQL	BQL	BQL	371	228
Thallium	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Vanadium	BQL	BQL	BQL	BQL	239	BQL	93.8
Zinc	0.98	1.4	165	81.6	1,850	22,400	13,700

METALS ANALYTICAL RESULTS (con't)
SOUTH CENTRAL TERMINAL
R1A 00072
August 1999

COMPOUND	TANK 117 in ug/l	TANK 118 in mg/kg	TANK 119 in ug/l	TANK 300 in mg/kg	TANK 304 in mg/kg	TANK 305 in mg/kg	TANK 307 in mg/kg	TANK 408 in ug/l
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Aluminum	BQL	BQL	BQL	BQL	36.9	27,600	BQL	BQL
Arsenic	BQL	BQL	199	BQL	BQL	2.2	BQL	50.9
Barium	BQL	BQL	111	BQL	BQL	62.5	BQL	3,780
Baryllium	BQL	BQL	BQL	BQL	BQL	1.8	BQL	BQL
Calcium	89,000	225	228,000	BQL	BQL	22,100	BQL	628,000
Cadmium	BQL	BQL	BQL	BQL	BQL	2.1	BQL	BQL
Cobalt	BQL	BQL	BQL	BQL	BQL	6.1	BQL	BQL
Chromium	273	0.88	226	BQL	BQL	82.1	BQL	BQL
Copper	193	2.1	283	BQL	BQL	14.5	BQL	BQL
Iron	401,000	1,310	94,000	12.5	10.6	21,800	14.1	219,000
Mercury	4.4	BQL	4.4	0.12	0.58	BQL	0.30	BQL
Potassium	1,360,000	3,310	4,110,000	BQL	BQL	2,360	BQL	106,000
Magnesium	261,000	725	1,040,000	BQL	BQL	30,000	BQL	286,000
Manganese	6,610	14.1	10,600	BQL	BQL	468	BQL	1,580
Sodium	287,000	798	831,000	BQL	BQL	264	BQL	7,270,000
Nickel	212	0.89	547	BQL	BQL	17.6	BQL	BQL
Lead	BQL	0.40	268	0.66	BQL	214	BQL	BQL
Antimony	BQL	BQL	74.4	BQL	BQL	BQL	BQL	BQL
Selenium	64.5	BQL	310	0.86	BQL	BQL	BQL	BQL
Thallium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Vanadium	BQL	BQL	BQL	BQL	BQL	69.2	BQL	BQL
Zinc	719	15.8	16,700	0.76	0.23	108	2.4	57.7

PCB ANALYTICAL RESULTS
South Central Terminal
R1A 00072
August 1999
Concentration in ug/kg

TANK	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268
6	U	U	U	U	U	U	3800	U
13	U	U	U	U	U	U	560 JW	U
32	U	U	U	U	U	U	U	U
40	U	U	U	U	U	U	U	U
41	U	U	U	U	U	U	U	U
42	U	U	U	U	U	U	U	U
90	U	U	U	U	U	U	U	U
113	U	U	U	U	U	U	U	U
115	U	U	U	U	U	U	U	U
116	U	U	U	U	U	U	U	U
117	U	U	U	U	U	U	U	U
118	U	U	U	U	U	U	U	U
119	U	U	U	U	U	U	U	U
304	U	U	U	U	U	U	1700JW	U
307	U	U	U	U	U	U	U	U
311	U	U	U	U	U	U	U	U
313	U	U	U	U	U	U	1100JW	U
401	U	U	U	U	U	U	U	U
402	U	U	U	U	U	U	U	U
403	U	U	U	U	U	U	U	U
404	U	U	U	U	U	U	1600	U
407	U	U	U	U	U	U	U	U
409	U	U	U	U	U	U	1800	U
411	U	U	U	U	U	U	U	U
413	U	U	U	U	U	U	U	U
T1,T2,T3	U	U	U	U	U	U	U	U

SULFIDE ANALYTICAL RESULTS
South Central Terminal
Pana, Illionois
R1A 00072
August 1999

TANK	SULFIDE Concentration in mg/kg
90	BQL
113	4.00
119	BQL
302	16.0
311	8.00
313	7.00
402	2.00
403	BQL
404	BQL
409	2.00
411	BQL
413	4.00

SULFUR CONTENT ANALYTICAL RESULTS
South Central Terminal
Pana, Illionois
R1A 00072
August 1999

TANK	SULFUR CONTENT Percent Weight
32A	2.8
90	0.6
113	1.7
115	4.4
116	3.1
117	< 0.1
119	3.0
302	< 0.1
311	0.4
313	< 0.1
401	0.2
402	0.3
403	0.3
404	0.1
409	2.1
411	0.3
413	0.6

EXTRACTABLE ORGANIC HALIDES (TOX)
ANALYTICAL RESULTS
South Central Terminal
Pana, Illionois
R1A 00072
August 1999

TANK	Extractable Organic Halides Concentration in mg/kg
6	118
13	297
30	BQL
31	BQL
32A	708
34	396
40	500
41	1190
42	788
43	568
90	1760
100	1170
102	BQL
103	BQL
108	BQL
111	1190
118	BQL
300	808
301	84.3
302	BQL
304	2640
305	172

EXTRACTABLE ORGANIC HALIDES (TOX) (con't)
ANALYTICAL RESULTS
South Central Terminal
Pana, Illionois
R1A 00072
August 1999

TANK	Extractable Organic Halides Concentration in mg/kg
307	2300
309	574
310	246
311	1440
312	742
313	274
314	BQL
401	1470
402	100
403	793
404	96.7
406	1030
407	1070
408	BQL
409	620
410	1040
411	829
412	621
413	682
414	338

TOTAL PETROLEUM HYDROCARBONS (TPH)
ANALYTICAL RESULTS
South Central Terminal
Pana, Illinois
R1A 00072
August 1999

TANK	Concentration	Units	% TPH
13	>950,000	mg/kg	>95
32A	520,000	mg/kg	52
90	520,000	mg/kg	52
100	560,000	mg/kg	56
300	930,000	mg/kg	93
102	<9.1	mg/l	
108	<8.3	mg/l	
118	6,500	mg/l	
302	<7.7	mg/l	
304	920,000	mg/kg	92
307	890,000	mg/kg	89
311	560,000	mg/kg	56
313A	820,000	mg/kg	82
401	940,000	mg/kg	94
402	>950,000	mg/kg	>95
403	350,000	mg/kg	35
404A	870,000	mg/kg	87
407	920,000	mg/kg	92
411	680,000	mg/kg	68
408	4.7	mg/l	
413	460,000	mg/kg	46

VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS
SOUTH CENTRAL TERMINAL
R1A 00072
August 1999
Concentration in mg/l

COMPOUND	TANK 13	TANK 100	TANK 300	TANK 304	TANK 307	TANK 115	TANK 102
Acetone	U	U	U	U	322 J	U	U
Methylene Chloride	U	U	U	U	355	3.97	U
1,1-Dichloroethane	U	U	U	345	478	U	U
Benzene	U	U	U	4,800	4,620	U	U
Trichloroethene	U	U	U	900	1,080	U	U
Toluene	24,800	156	174	17,300	8,130	U	U
Tetrachloroethene	421	U	U	2,950	1,360	U	U
Ethylbenzene	1,740	1,260	307	6,940	5,700	U	U
p&m - Xylene	5,780	4,110	379	9,670	5,850	U	U
o-Xylene	5,110	5,500	400	13,800	7,370	U	U
Styrene	844	U	U	24,800	18,400	U	U
Isopropylbenzene	1,100	540	262	900	587	U	U
n-Propylbenzene	1,400	4,270	399	1,080	793	U	U
1,3,5-Trimethylbenzene	3,270	13,900	471	2,500	1,370	U	U
1,2,4-Trimethylbenzene	15,200	40,900	1,800	7,580	7,980	U	U
sec-Butylbenzene	854	U	544	388	355	U	U
p-Isopropylbenzene	1,490	486	357	577	585	U	U
n-Butylbenzene	U	3,140	399	402	461	U	U
Naphthalene	1,700	18,700	2,310	1,180	1,250	U	U

VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS (con't)
SOUTH CENTRAL TERMINAL
R1A 00072
August 1999
Concentration in mg/l

COMPOUND	TANK 108	TANK 113	TANK 116	TANK 117	TANK 118	TANK 119	TANK 408
Acetone	U	U	U	U	U	U	U
Methylene Chloride	U	5.02	1.64	0.62	3.00	2.61	U
1,1-Dichloroethane	U	U	U	U	U	U	U
Benzene	U	U	U	U	U	U	U
Trichloroethene	U	2.85	U	U	U	U	U
Toluene	U	U	U	U	U	U	U
Tetrachloroethene	U	U	U	U	U	U	U
Ethylbenzene	U	U	U	U	U	U	U
p&m - Xylene	U	U	U	U	U	U	U
o-Xylene	U	U	U	U	U	U	U
Styrene	U	U	U	U	U	U	U
Isopropylbenzene	U	U	U	U	U	U	U
n-Propylbenzene	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U
sec-Butylbenzene	U	U	U	U	U	U	U
p-Isopropylbenzene	U	U	U	U	U	U	U
n-Butylbenzene	U	U	U	U	U	U	U
Naphthalene	U	U	U	U	0.88	U	U

REAC Sampling South Central Terminal Pana, Christian County, IL					
	Tank				
Parameter	**32**	**115**	**116**	**117**	**401**
Total Sulfide (mg/kg)	ND	24	ND	ND	ND
Reactive Sulfide (mg/kg)	25	15	10	10	ND

REAC Sampling South Central Terminal Pana, Christian County, IL						
	Tank					
Parameter	**13**	**100**	**300**	**304**	**307**	**90**
Total Metals (mg/kg)						
Barium	NA	NA	NA	NA	NA	5.3
Chromium	NA	NA	NA	NA	NA	1.7
Lead	NA	NA	NA	NA	NA	96.3
Flashpoint (°C)	32	40	45	30	37	NA
pH (Standard units)	NA	NA	NA	NA	5.5	NA

Key:

ND = Not Detected
°C = Degrees Celsius
NA = Not Analyzed
mg/kg = Milligrams per liter

Appendix E

Validated Analytical Results from START Sampling

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33 North Dearborn Street
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M E M O R A N D U M

DATE: October 21, 1999

TO: Paul Atkociunas, START Project Manager, E & E, Marion, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Resource Conservation and Recovery Act (RCRA) and Toxicity Characteristic Leaching Procedure (TCLP) Metals, South Central Terminal, Pana, Christian County, Illinois

REFERENCE: Project TDD S05-9905-013 Analytical TDD S05-9905-812
Project PAN 9Y1301SIXX Analytical PAN 9YAM01TAXX

The data quality assurance (QA) review of seven water, five oil, and 16 soil samples collected from the South Central Terminal site is complete. The samples were collected between July 13 and 15, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to TriMatrix Laboratories, Inc., Grand Rapids, Michigan. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Methods 1311, 6010, and 7470.

Sample Identification

START Identification No.	Laboratory Identification No.
SS01	226802
SS02	226803
SS03	226804
SS04	226805
SS05	226806
SS06	226807
SS07	226808
SS08	226809
SS09	226810

START Identification No.	Laboratory Identification No.
SS10	226811
PS01	226812
SS11	226813
SS12	226814
SS13	226815
SS14	226816
WS04	226818
WS05	226819
WS06	226820
PS03	226821
WS07	226823
PS04	226824
PS05	226825
WS01	226826
WS02	226827
WS03	226828
SS16	226829
SS17	226830
PS02	226831

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected between July 13 and 15, 1999, and analyzed between July 15 and 22, 1999. This is within the 6-month (28 days for mercury) holding time limit.

II. Calibration:

- Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90 to 110% (80 to 120% for mercury), as required. The correlation coefficient for mercury exceeded 0.995.

- Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90 to 110% (80 to 120% for mercury), as required.

III. Blanks: Acceptable

Calibration and preparation blanks were analyzed with each analytical batch. No target analytes were detected in the blanks.

IV. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.

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M E M O R A N D U M

DATE: October 21, 1999

TO: Paul Atkociunas, START Project Manager, E & E, Marion, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Organic Data Quality Review for Total and Toxicity Characteristic Leaching Procedure (TCLP) Semivolatile Organic Compounds (SVOCs), South Central Terminal, Pana, Christian County, Illinois

REFERENCE: Project TDD S05-9905-013 Analytical TDD S05-9905-812
Project PAN 9Y1301SIXX Analytical PAN 9YAM01TAXX

The data quality assurance (QA) review of seven water, five oil, and 16 soil samples collected from the South Central Terminal site is complete. The samples were collected between July 13 and 15, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to TriMatrix Laboratories, Inc., Grand Rapids, Michigan. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Methods 1311 and 8270.

Sample Identification

START Identification No.	Laboratory Identification No.
SS01	226802
SS02	226803
SS03	226804
SS04	226805
SS05	226806
SS06	226807
SS07	226808
SS08	226809
SS09	226810
SS10	226811

START Identification No.	Laboratory Identification No.
PS01	226812
SS11	226813
SS12	226814
SS13	226815
SS14	226816
WS04	226818
WS05	226819
WS06	226820
PS03	226821
WS07	226823
PS04	226824
PS05	226825
WS01	226826
WS02	226827
WS03	226828
SS16	226829
SS17	226830
PS02	226831

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected between July 13 and 15, 1999, extracted between July 15 and 19, 1999, and analyzed between July 16 and 20, 1999. This is within the 14-day holding time limit, from collection to extraction, and 40-day limit from extraction to analysis.

II. Gas Chromatography/Mass Spectrometry (GC/MS) Tuning: Acceptable

GC/MS tuning to meet ion abundance criteria using decafluorotriphenylphosphine (DFTPP) were acceptable and samples were analyzed within 12 hours of DFTPP tuning.

III. Calibrations:

• Initial Calibration: Acceptable

A five-point initial calibration was performed prior to analysis. All average response factors were greater than 0.05. The percent relative standard deviations (%RSDs) between response factors were less than 30% for all detected target compounds.

• Continuing Calibration: Acceptable

The percent differences of the response factors were less than 25%, as required for detected target compounds.

IV. Blank: Acceptable

A method blank was analyzed with the samples. No target compounds or contaminants were detected in the blank.

V. Internal Standards: Acceptable

The areas of the internal standards in the samples were within -50% to +100% of the associated calibration check standard. The retention times of the internal standards were within the 30-second control limit.

VI. Compound Identification: Acceptable

The mass spectra and retention times of the detected compounds matched those of the standards.

VII. Additional QC Checks: Acceptable

The recoveries of the surrogates used in the samples and blank were within laboratory-established guidelines.

VIII. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 4.0 BNAs By GC/MS analysis. Based upon the information provided, the data are acceptable for use.

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M E M O R A N D U M

DATE: October 21, 1999

TO: Paul Atkociunas, START Project Manager, E & E, Marion, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Organic Data Quality Review for Total and Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs), South Central Terminal, Pana, Christian County, Illinois

REFERENCE: Project TDD S05-9905-013 Analytical TDD S05-9905-812
Project PAN 9Y1301SIXX Analytical PAN 9YAM01TAXX

The data quality assurance (QA) review of seven water, five oil, and 16 soil samples collected from the South Central Terminal site is complete. The samples were collected between July 13 and 15, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to TriMatrix Laboratories, Inc., Grand Rapids, Michigan. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Methods 1311 and 8260.

Sample Identification

START Identification No.	Laboratory Identification No.
SS01	226802
SS02	226803
SS03	226804
SS04	226805
SS05	226806
SS06	226807
SS07	226808
SS08	226809
SS09	226810

START Identification No.	Laboratory Identification No.
SS10	226811
PS01	226812
SS11	226813
SS12	226814
SS13	226815
SS14	226816
WS04	226818
WS05	226819
WS06	226820
PS03	226821
WS07	226823
PS04	226824
PS05	226825
WS01	226826
WS02	226827
WS03	226828
SS16	226829
SS17	226830
PS02	226831

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected between July 13 and 15, 1999, and analyzed between July 15 and 21, 1999. This is within the 14-day holding time limit.

II. Gas Chromatography/Mass Spectrometry (GC/MS) Tuning: Acceptable

GC/MS tuning to meet ion abundance criteria using bromofluorobenzene (BFB) were acceptable and samples were analyzed within 12 hours of BFB tuning.

III. Calibrations:

• Initial Calibration: Acceptable

A five-point initial calibration was performed prior to analysis. All average response factors were greater than 0.05. The percent relative standard deviations (%RSDs) between response factors were less than 30% for all detected target compounds.

• Continuing Calibration: Acceptable

The percent differences of the response factors were less than 25%, as required for detected target compounds.

IV. Blank: Acceptable

A method blank was analyzed with the samples. No target compounds or contaminants were detected in the blank.

V. Internal Standards: Acceptable

The areas of the internal standards in the samples were within -50% to +100% of the associated calibration check standard. The retention times of the internal standards were within the 30-second control limit.

VI. Compound Identification: Acceptable

The mass spectra and retention times of the detected compounds matched those of the standards.

VII. Additional QC Checks: Acceptable

The recoveries of the surrogates used in the samples and blank were within laboratory-established guidelines.

VIII. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 5.0, VOAs By GC/MS analysis. Based upon the information provided, the data are acceptable for use.

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M E M O R A N D U M

DATE: October 21, 1999

TO: Paul Atkociunas, START Project Manager, E & E, Marion, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Ammonia and pH, South Central Terminal, Pana, Christian County, Illinois

REFERENCE: Project TDD S05-9905-013 Analytical TDD S05-9905-812
Project PAN 9Y1301SIXX Analytical PAN 9YAM01TAXX

The data quality assurance (QA) review of seven water, five oil, and 17 soil samples collected from the South Central Terminal site is complete. The samples were collected on July 13, 14, 15, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to TriMatrix Laboratories, Inc., Grand Rapids, Michigan. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 9045 (pH) and U.S. EPA Method 350.1 (ammonia).

Sample Identification

START Identification No.	Laboratory Identification No.
SS01	226802
SS02	226803
SS03	226804
SS04	226805
SS05	226806
SS06	226807
SS07	226808
SS08	226809
SS09	226810
SS10	226811
PS01	226812
SS11	226813

START Identification No.	Laboratory Identification No.
SS12	226814
SS13	226815
SS14	226816
SS15	226817
WS04	226818
WS05	226819
WS06	226820
PS03	226821
WS07	226823
PS04	226824
PS05	226825
WS01	226826
WS02	226827
WS03	226828
SS16	226829
SS17	226830
PS02	226831

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected between July 13 and 15, 1999, and analyzed betweenn July 20 and 22, 1999. The Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) does not specify holding times for these parameters.

II. Calibrations: Acceptable

The calibrations for ammonia and pH were verified before sample analyses, according to the methods.

III. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in OSWER Data Validation Procedures, Section 9.0, Generic Data Validation Procedures. Based upon the information provided, the data are acceptable for use.

ecology and environment, inc.
International Specialists in the Environment

33 North Dearborn Street
Chicago, Illinois 60602
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M E M O R A N D U M

DATE: October 21, 1999

TO: Paul Atkociunas, START Project Manager, E & E, Marion, Illinois

FROM: David Hendren, START Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Patrick Zwilling, START Assistant Program Manager, E & E, Chicago, Illinois

SUBJECT: Data Quality Review for Total Petroleum Hydrocarbons (TPH), South Central Terminal, Pana, Christian County, Illinois

REFERENCE: Project TDD S05-9905-013 Analytical TDD S05-9905-812
Project PAN 9Y1301SIXX Analytical PAN 9YAM01TAXX

The data quality assurance (QA) review of one water, five oil, and 16 soil samples collected from the South Central Terminal site is complete. The samples were collected between July 13 and 15, 1999, by the Superfund Technical Assessment and Response Team (START) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to TriMatrix Laboratories, Inc., Grand Rapids, Michigan. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 8015.

Sample Identification

START Identification No.	Laboratory Identification No.
SS01	226802
SS02	226803
SS03	226804
SS04	226805
SS05	226806
SS06	226807
SS07	226808
SS08	226809
SS09	226810
SS10	226811
PS01	226812
SS11	226813

START Identification No.	Laboratory Identification No.
SS12	226814
SS13	226815
SS14	226816
WS04	226818
PS03	226821
PS04	226824
PS05	226825
SS16	226829
SS17	226830
PS02	226831

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected between July 13 and 15, 1999, and analyzed between July 16 and 23, 1999. This is within the 14-day holding time limit.

II. Calibrations: Acceptable

The relative standard deviations (%RSDs) between response factors were less than 20% for the initial calibrations. The percent differences of the response factors were less than 15%, as required for the continuing calibrations.

III. Blank: Acceptable

Method blanks were analyzed with the samples. No target compounds or contaminants were detected in the blanks.

IV. Additional QC Checks: Acceptable

Surrogate recoveries in the samples were within acceptable laboratory limits.

V. Overall Assessment of Data for Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990), Data Validation Procedures, Section 9.0, Generic Data Validation Procedures. Based upon the information provided, the data are acceptable for use.

TriMatrix Laboratories, Inc.

ANALYTICAL REPORT
USEPA CLP FORM 1

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-01	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226802				
7440-38-2	Arsenic, Total	24			P	mg/kg dry
7440-39-3	Barium, Total	* 141		J J	P	mg/kg dry
7440-43-9	Cadmium, Total	1.4			P	mg/kg dry
7440-47-3	Chromium, Total	13			P	mg/kg dry
7439-92-1	Lead, Total	32			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<20			P	mg/kg dry
7440-22-4	Silver, Total	<0.20			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.78			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	6.93				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	310				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<5.81				mg/kg dry
E-1047	Percent Solids	86				%

Sampled by: Fitagerald
Date Sampled: 07/13/99
Time Sampled: 08:30
Date Received: 07/16/99
Time Received: 09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-02	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226803				
7440-38-2	Arsenic, Total	6.2			P	mg/kg dry
7440-39-3	Barium, Total	306			P	mg/kg dry
7440-43-9	Cadmium, Total	0.46			P	mg/kg dry
7440-47-3	Chromium, Total	162			P	mg/kg dry
7439-92-1	Lead, Total	1590			P	mg/kg dry
7439-97-6	Mercury, Total	0.19			CV	mg/kg dry
7782-49-2	Selenium, Total	*<20			P	mg/kg dry
7440-22-4	Silver, Total	<0.20			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	2.16			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	0.11			P	mg/L
7439-92-1	Lead, TCLP	5.68			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	6.44				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 24000				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	250				mg/kg dry
E-1047	Percent Solids	92				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	09:00
Date Received:	07/16/99
Time Received:	09:50

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Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-03	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226804				
7440-38-2	Arsenic, Total	12			P	mg/kg dry
7440-39-3	Barium, Total	68			P	mg/kg dry
7440-43-9	Cadmium, Total	2.4			P	mg/kg dry
7440-47-3	Chromium, Total	30			P	mg/kg dry
7439-92-1	Lead, Total	127			P	mg/kg dry
7439-97-6	Mercury, Total	1.2			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<5.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.99			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	*<0.05			P	mg/L
E-10139	pH	7.25				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 16000				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<5.32				mg/kg dry
E-1047	Percent Solids	94				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	09:30
Date Received:	07/16/99
Time Received:	09:50

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Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-04	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226805				
7440-38-2	Arsenic, Total	29			P	mg/kg dry
7440-39-3	Barium, Total	95			P	mg/kg dry
7440-43-9	Cadmium, Total	4.6			P	mg/kg dry
7440-47-3	Chromium, Total	12			P	mg/kg dry
7439-92-1	Lead, Total	186			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<5.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.77			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	*<0.05			P	mg/L
E-10139	pH	7.63				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 3200				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<6.58				mg/kg dry
E-1047	Percent Solids	76				%

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Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-05	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226806				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	27			P	mg/kg
7440-43-9	Cadmium, Total	10			P	mg/kg
7440-47-3	Chromium, Total	15			P	mg/kg
7439-92-1	Lead, Total	183			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	<0.50			P	mg/kg
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.73			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	0.37			P	mg/L
7439-92-1	Lead, TCLP	0.11			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 51000				mg/kg
E-10139	pH	5.84				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	* 180				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/13/99
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Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-06	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226807				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	56			P	mg/kg
7440-43-9	Cadmium, Total	<0.50			P	mg/kg
7440-47-3	Chromium, Total	<4.0			P	mg/kg
7439-92-1	Lead, Total	155			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	<0.50			P	mg/kg
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.94			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 140000				mg/kg
E-10139	pH	6.75				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	* 130				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	10:15
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Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-07	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226808				
7440-38-2	Arsenic, Total	9.8			P	mg/kg dry
7440-39-3	Barium, Total	74			P	mg/kg dry
7440-43-9	Cadmium, Total	0.80			P	mg/kg dry
440-47-3	Chromium, Total	8.6			P	mg/kg dry
7439-92-1	Lead, Total	34			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<20			P	mg/kg dry
7440-22-4	Silver, Total	*<1.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.62			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	0.21			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	5.31				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 3500				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	*<12.5				mg/kg dry
7664-41-7	Nitrogen, Ammonia	* 7930				mg/kg dry
E-1047	Percent Solids	80				%

Sampled by: Fitagerald
Date Sampled: 07/13/99
Time Sampled: 10:25
Date Received: 07/16/99
Time Received: 09:50

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Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-08	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226809				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	56			P	mg/kg
7440-43-9	Cadmium, Total	0.86			P	mg/kg
7440-47-3	Chromium, Total	<4.0			P	mg/kg
7439-92-1	Lead, Total	18			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	* 4.3			P	mg/kg
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.31			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	<2000				mg/kg
E-10139	pH	8.51				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	*<5.0				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	10:45
Date Received:	07/16/99
Time Received:	09:50

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Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-09	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226810				
7440-38-2	Arsenic, Total	17			P	mg/kg dry
7440-39-3	Barium, Total	111			P	mg/kg dry
7440-43-9	Cadmium, Total	6.9			P	mg/kg dry
7440-47-3	Chromium, Total	36			P	mg/kg dry
7439-92-1	Lead, Total	560			P	mg/kg dry
7439-97-6	Mercury, Total	0.71			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<5.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.89			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	8.04				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 51000				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	*<21.3				mg/kg dry
E-1047	Percent Solids	94				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	10:50
Date Received:	07/16/99
Time Received:	09:50

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Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-10	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226811				
7440-38-2	Arsenic, Total	6.9			P	mg/kg dry
7440-39-3	Barium, Total	17			P	mg/kg dry
7440-43-9	Cadmium, Total	1.7			P	mg/kg dry
7440-47-3	Chromium, Total	5.6			P	mg/kg dry
7439-92-1	Lead, Total	107			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<5.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.04			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	*<0.05			P	mg/L
E-10139	pH	7.48				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 12000				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	*<23.5				mg/kg dry
E-1047	Percent Solids	85				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	11:10
Date Received:	07/16/99
Time Received:	09:50

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Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		PS-01	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226812				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	13			P	mg/kg
7440-43-9	Cadmium, Total	<0.50			P	mg/kg
7440-47-3	Chromium, Total	<4.0			P	mg/kg
7439-92-1	Lead, Total	24			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	<0.50			P	mg/kg
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.59			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	20000				mg/kg
E-10139	pH	8.60				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	*<100				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	11:05
Date Received:	07/16/99
Time Received:	09:50

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Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-11	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226813				
7440-38-2	Arsenic, Total	112			P	mg/kg dry
7440-39-3	Barium, Total	67			P	mg/kg dry
7440-43-9	Cadmium, Total	23			P	mg/kg dry
7440-47-3	Chromium, Total	581			P	mg/kg dry
7439-92-1	Lead, Total	1280			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<5.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.46			P	mg/L
7440-43-9	Cadmium, TCLP	0.013			P	mg/L
7440-47-3	Chromium, TCLP	0.99			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	*<0.05			P	mg/L
E-10139	pH	6.91				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 7400				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	*<40.8				mg/kg dry
E-1047	Percent Solids	98				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	14:10
Date Received:	07/16/99
Time Received:	09:50

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ANALYTICAL REPORT
USEPA CLP FORM 1

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-12	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226814				
7440-38-2	Arsenic, Total	52			P	mg/kg dry
7440-39-3	Barium, Total	266			P	mg/kg dry
7440-43-9	Cadmium, Total	2.8			P	mg/kg dry
7440-47-3	Chromium, Total	16			P	mg/kg dry
7439-92-1	Lead, Total	631			P	mg/kg dry
7439-97-6	Mercury, Total	0.34			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<1.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.86			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	0.21			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	7.69				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	100				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<7.94				mg/kg dry
E-1047	Percent Solids	63				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	14:30
Date Received:	07/16/99
Time Received:	09:50

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ANALYTICAL REPORT
USEPA CLP FORM 1

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-13	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226815				
7440-38-2	Arsenic, Total	11			P	mg/kg dry
7440-39-3	Barium, Total	160			P	mg/kg dry
7440-43-9	Cadmium, Total	1.2			P	mg/kg dry
7440-47-3	Chromium, Total	4.4			P	mg/kg dry
7439-92-1	Lead, Total	24			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<20			P	mg/kg dry
7440-22-4	Silver, Total	*<1.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.49			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	9.08				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 1000				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	*<25.6				mg/kg dry
E-1047	Percent Solids	78				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	14:50
Date Received:	07/16/99
Time Received:	09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-14	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226816				
7440-38-2	Arsenic, Total	11			P	mg/kg dry
7440-39-3	Barium, Total	249			P	mg/kg dry
7440-43-9	Cadmium, Total	1.1			P	mg/kg dry
7440-47-3	Chromium, Total	49			P	mg/kg dry
7439-92-1	Lead, Total	556			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<20			P	mg/kg dry
7440-22-4	Silver, Total	*<1.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	1.12			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	0.13			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	5.21				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	37				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<6.49				mg/kg dry
E-1047	Percent Solids	77				%

Sampled by:	Fitagerald
Date Sampled:	07/13/99
Time Sampled:	15:00
Date Received:	07/16/99
Time Received:	09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		WS-04	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226818				
7440-38-2	Arsenic, Total	<100			P	ug/L
7440-39-3	Barium, Total	72			P	ug/L
7440-43-9	Cadmium, Total	<10			P	ug/L
7440-47-3	Chromium, Total	<50			P	ug/L
7439-92-1	Lead, Total	80			P	ug/L
7439-97-6	Mercury, Total	22			CV	ug/L
7782-49-2	Selenium, Total	<100			P	ug/L
7440-22-4	Silver, Total	<10			P	ug/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 9500				ug/L
-----	Gasoline Range Organics EPA/API Revision 4.0	<100				ug/L

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	10:15
Date Received:	07/16/99
Time Received:	09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: **Jennifer L. Rice**
Phone: (616) 975-4500

CAS No.		WS-06	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226820				
7440-38-2	Arsenic, Total	<100			P	ug/L
7440-39-3	Barium, Total	110			P	ug/L
7440-43-9	Cadmium, Total	<10			P	ug/L
7440-47-3	Chromium, Total	<50			P	ug/L
7439-92-1	Lead, Total	640			P	ug/L
7439-97-6	Mercury, Total	3.2			CV	ug/L
7782-49-2	Selenium, Total	<100			P	ug/L
7440-22-4	Silver, Total	<10			P	ug/L
E-10139	pH	7.32				pH Units

Sampled by: Fitagerald
Date Sampled: 07/14/99
Time Sampled: 13:20
Date Received: 07/16/99
Time Received: 09:50

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Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		PS-03	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226821				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	45			P	mg/kg
7440-43-9	Cadmium, Total	0.61			P	mg/kg
7440-47-3	Chromium, Total	9.1			P	mg/kg
7439-92-1	Lead, Total	602			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	<0.50			P	mg/kg
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.77			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	0.96			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 260000				mg/kg
E-10139	pH	7.14				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	*<1000				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	10:45
Date Received:	07/16/99
Time Received:	09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		WS-07	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226822				
7440-38-2	Arsenic, Total	<100			P	ug/L
7440-39-3	Barium, Total	120			P	ug/L
7440-43-9	Cadmium, Total	<10			P	ug/L
7440-47-3	Chromium, Total	<50			P	ug/L
7439-92-1	Lead, Total	75			P	ug/L
7439-97-6	Mercury, Total	17			CV	ug/L
7782-49-2	Selenium, Total	<100			P	ug/L
7440-22-4	Silver, Total	<10			P	ug/L
E-10139	pH	7.19				pH Units
7664-41-7	Nitrogen, Ammonia	* 566				mg/L

Sampled by: Fitagerald
Date Sampled: 07/15/99
Time Sampled: 09:00
Date Received: 07/16/99
Time Received: 09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		PS-04	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226824				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	11			P	mg/kg
7440-43-9	Cadmium, Total	0.56			P	mg/kg
7440-47-3	Chromium, Total	<4.0			P	mg/kg
7439-92-1	Lead, Total	54			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	<0.50			P	mg/kg
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 400000				mg/kg
E-10139	pH	6.37				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	*<100				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/15/99
Time Sampled:	12:05
Date Received:	07/16/99
Time Received:	09:50

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Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		PS-05	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226825				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	<1.0			P	mg/kg
7440-43-9	Cadmium, Total	<0.50			P	mg/kg
7440-47-3	Chromium, Total	<4.0			P	mg/kg
7439-92-1	Lead, Total	<2.0			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	*<10			P	mg/kg
7440-22-4	Silver, Total	<0.50			P	mg/kg
7440-38-2	Arsenic, TCLP	<4.49			P	mg/L
7440-39-3	Barium, TCLP	<8.97			P	mg/L
7440-43-9	Cadmium, TCLP	<0.45			P	mg/L
7440-47-3	Chromium, TCLP	<3.59			P	mg/L
7439-92-1	Lead, TCLP	<4.49			P	mg/L
7439-97-6	Mercury, TCLP	<0.12			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			F	mg/L
7440-22-4	Silver, TCLP	<0.45			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 650000				mg/kg
E-10139	pH	5.97				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	* 630				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/15/99
Time Sampled:	13:20
Date Received:	07/16/99
Time Received:	09:50

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Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		WS-01	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226826				
7440-38-2	Arsenic, Total	<100			P	ug/L
7440-39-3	Barium, Total	57			P	ug/L
7440-43-9	Cadmium, Total	<10			P	ug/L
7440-47-3	Chromium, Total	<50			P	ug/L
7439-92-1	Lead, Total	<50			P	ug/L
7439-97-6	Mercury, Total	20			CV	ug/L
7782-49-2	Selenium, Total	<100			P	ug/L
7440-22-4	Silver, Total	<10			P	ug/L
E-10139	pH	7.80				pH Units

Sampled by: Fitagerald
Date Sampled: 07/14/99
Time Sampled: 09:30
Date Received: 07/16/99
Time Received: 09:50

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ANALYTICAL REPORT
USEPA CLP FORM 1

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		WS-02	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226827				
7440-38-2	Arsenic, Total	130			P	ug/L
7440-39-3	Barium, Total	140			P	ug/L
7440-43-9	Cadmium, Total	<10			P	ug/L
7440-47-3	Chromium, Total	<50			P	ug/L
7439-92-1	Lead, Total	<50			P	ug/L
7439-97-6	Mercury, Total	27			CV	ug/L
7782-49-2	Selenium, Total	* 260		J	P	ug/L
7440-22-4	Silver, Total	<10			P	ug/L

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	09:40
Date Received:	07/16/99
Time Received:	09:50

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ANALYTICAL REPORT
USEPA CLP FORM 1

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		WS-03	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226828				
7440-38-2	Arsenic, Total	<100			P	ug/L
7440-39-3	Barium, Total	65			P	ug/L
7440-43-9	Cadmium, Total	<10			P	ug/L
7440-47-3	Chromium, Total	<50			P	ug/L
7439-92-1	Lead, Total	<50			P	ug/L
7439-97-6	Mercury, Total	15			CV	ug/L
7782-49-2	Selenium, Total	<100			P	ug/L
7440-22-4	Silver, Total	<10			P	ug/L
E-10139	pH	7.25				pH Units

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	10:00
Date Received:	07/16/99
Time Received:	09:50

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Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-16	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226829				
7440-38-2	Arsenic, Total	6.9			P	mg/kg dry
7440-39-3	Barium, Total	28			P	mg/kg dry
7440-43-9	Cadmium, Total	1.9			P	mg/kg dry
7440-47-3	Chromium, Total	7.3			P	mg/kg dry
7439-92-1	Lead, Total	15			P	mg/kg dry
7439-97-6	Mercury, Total	<0.10			CV	mg/kg dry
7782-49-2	Selenium, Total	*<20			P	mg/kg dry
7440-22-4	Silver, Total	*<1.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	<0.20			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	<0.10			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	7.07				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	240				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<11.6				mg/kg dry
E-1047	Percent Solids	86				%

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	08:20
Date Received:	07/16/99
Time Received:	09:50

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Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		SS-17	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226830				
7440-38-2	Arsenic, Total	170			P	mg/kg dry
7440-39-3	Barium, Total	136			P	mg/kg dry
7440-43-9	Cadmium, Total	7.8			P	mg/kg dry
7440-47-3	Chromium, Total	51			P	mg/kg dry
7439-92-1	Lead, Total	2670			P	mg/kg dry
7439-97-6	Mercury, Total	0.54			CV	mg/kg dry
7782-49-2	Selenium, Total	*<100			P	mg/kg dry
7440-22-4	Silver, Total	*<5.0			P	mg/kg dry
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	0.65			P	mg/L
7440-43-9	Cadmium, TCLP	0.016			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	0.15			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-10139	pH	6.31				pH Units
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 21000				mg/kg dry
-----	Gasoline Range Organics EPA/API Revision 4.0	<13.9				mg/kg dry
E-1047	Percent Solids	72				%

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	08:30
Date Received:	07/16/99
Time Received:	09:50

* See attached Statement of Data Qualifications.

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5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 (616) 975-4500 • Fax (616) 942-7465

TriMatrix Laboratories, Inc.

ANALYTICAL REPORT
USEPA CLP FORM 1

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples

Submittal Number: 35107- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.		PS-02	Data Qualifiers C	Q	M	Units
	Lab Sample No:	226831				
7440-38-2	Arsenic, Total	<10			P	mg/kg
7440-39-3	Barium, Total	19			P	mg/kg
7440-43-9	Cadmium, Total	3.5			P	mg/kg
7440-47-3	Chromium, Total	19			P	mg/kg
7439-92-1	Lead, Total	54			P	mg/kg
7439-97-6	Mercury, Total	<0.10			CV	mg/kg
7782-49-2	Selenium, Total	<10			P	mg/kg
7440-22-4	Silver, Total	*<2.5			P	mg/kg
7440-38-2	Arsenic, TCLP	<0.20			P	mg/L
7440-39-3	Barium, TCLP	<0.20			P	mg/L
7440-43-9	Cadmium, TCLP	<0.01			P	mg/L
7440-47-3	Chromium, TCLP	<0.08			P	mg/L
7439-92-1	Lead, TCLP	0.13			P	mg/L
7439-97-6	Mercury, TCLP	<0.0004			CV	mg/L
7782-49-2	Selenium, TCLP	<0.20			P	mg/L
7440-22-4	Silver, TCLP	<0.01			P	mg/L
E-1004	Diesel Range Organics-DRO EPA/API Revision 4.0	* 44000				mg/kg
E-10139	pH	7.72				pH Units
-----	Gasoline Range Organics EPA/API Revision 4.0	*<100				mg/kg dry

Sampled by:	Fitagerald
Date Sampled:	07/14/99
Time Sampled:	08:00
Date Received:	07/16/99
Time Received:	09:50

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226802
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<0.33		0.33
208-96-8	Acenaphthylene	<0.33		0.33
120-12-7	Anthracene	<0.33		0.33
56-55-3	Benzo (a) Anthracene	<0.33		0.33
50-32-8	Benzo (a) Pyrene	<0.33		0.33
56832-73-6	Benzo (b&k) Fluoranthene	<0.33		0.33
191-24-2	Benzo (g,h,i,) Perylene	<0.33		0.33
65-85-0	Benzoic Acid	<3.3		3.3
100-51-6	Benzyl Alcohol	<1.3		1.3
111-91-1	Bis (2-Chloroethoxy)-Methane	<0.33		0.33
111-44-4	Bis (2-Chloroethyl) Ether	<0.33		0.33
108-60-1	Bis (2-Chloroisopropyl)-Ether	<0.33		0.33
117-81-7	Bis (2-ethylhexyl)-Phthalate	<0.33		0.33
101-55-3	4-Bromophenyl Phenylether	<0.33		0.33
85-68-7	Butyl Benzyl Phthalate	<0.33		0.33
59-50-7	4-Chloro-3-Methylphenol	<0.33		0.33
106-47-8	4-Chloroaniline	<1.3		1.3
91-58-7	2-Chloronaphthalene	<0.33		0.33
95-57-8	2-Chlorophenol	<0.33		0.33
7005-72-3	4-Chlorophenylphenyl-Ether	<0.33		0.33
218-01-9	Chrysene	<0.33		0.33
84-74-2	Di-n-Butylphthalate	<0.33		0.33
117-84-0	Di-n-Octylphthalate	<0.33		0.33
53-70-3	Dibenzo (a,h) Anthracene	<0.33		0.33
132-64-9	Dibenzofuran	<0.33		0.33
95-50-1	1,2-Dichlorobenzene	<0.33		0.33
541-73-1	1,3-Dichlorobenzene	<0.33		0.33
106-46-7	1,4-Dichlorobenzene	<0.33		0.33
91-94-1	3,3'-Dichlorobenzidine	<2.0		2.0
120-83-2	2,4-Dichlorophenol	<0.33		0.33
84-66-2	Diethylphthalate	<0.33		0.33

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226802
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<0.33		0.33
105-67-9	2,4-Dimethylphenol	<0.33		0.33
534-52-1	4,6-Dinitro-2-Methylphenol	<1.7		1.7
51-28-5	2,4-Dinitrophenol	<1.7		1.7
121-14-2	2,4-Dinitrotoluene	<0.33		0.33
606-20-2	2,6-Dinitrotoluene	<0.33		0.33
206-44-0	Fluoranthene	<0.33		0.33
86-73-7	Fluorene	<0.33		0.33
118-74-1	Hexachlorobenzene	<0.33		0.33
87-68-3	Hexachlorobutadiene	<0.33		0.33
77-47-4	Hexachlorocyclopentadiene	<0.33		0.33
67-72-1	Hexachloroethane	<0.33		0.33
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.33		0.33
78-59-1	Isophorone	<0.33		0.33
91-57-6	2-Methylnaphthalene	<0.33		0.33
95-48-7	2-Methylphenol	<0.33		0.33
106-44-5	4-Methylphenol	<0.33		0.33
621-64-7	N-Nitrosodi-n-Propylamine	<0.33		0.33
86-30-6	N-Nitroso-di-Phenylamine	<0.33		0.33
91-20-3	Naphthalene	<0.33		0.33
88-74-4	2-Nitroaniline	<1.7		1.7
99-09-2	3-Nitroaniline	<1.7		1.7
100-01-6	4-Nitroaniline	<1.7		1.7
98-95-3	Nitrobenzene	<0.33		0.33
88-75-5	2-Nitrophenol	<0.33		0.33
100-02-7	4-Nitrophenol	<1.7		1.7
87-86-5	Pentachlorophenol	<1.7		1.7
85-01-8	Phenanthrene	<0.33		0.33
108-95-2	Phenol	<0.33		0.33
129-00-0	Pyrene	<0.33		0.33
120-82-1	1,2,4-Trichlorobenzene	<0.33		0.33
95-95-4	2,4,5-Trichlorophenol	<1.7		1.7
88-06-2	2,4,6-Trichlorophenol	<0.33		0.33

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TriMatrix Laboratories, Inc.

TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226802
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-02

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226803
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<6.6		6.6
208-96-8	Acenaphthylene	<6.6		6.6
120-12-7	Anthracene	<6.6		6.6
56-55-3	Benzo (a) Anthracene	<6.6		6.6
50-32-8	Benzo (a) Pyrene	<6.6		6.6
56832-73-6	Benzo (b&k) Fluoranthene	<6.6		6.6
191-24-2	Benzo (g,h,i,) Perylene	<6.6		6.6
65-85-0	Benzoic Acid	<66		66
100-51-6	Benzyl Alcohol	<26		26
111-91-1	Bis (2-Chloroethoxy)-Methane	<6.6		6.6
111-44-4	Bis (2-Chloroethyl) Ether	<6.6		6.6
108-60-1	Bis (2-Chloroisopropyl)-Ether	<6.6		6.6
117-81-7	Bis (2-ethylhexyl)-Phthalate	<6.6		6.6
101-55-3	4-Bromophenyl Phenylether	<6.6		6.6
85-68-7	Butyl Benzyl Phthalate	<6.6		6.6
59-50-7	4-Chloro-3-Methylphenol	<6.6		6.6
106-47-8	4-Chloroaniline	<26		26
91-58-7	2-Chloronaphthalene	<6.6		6.6
95-57-8	2-Chlorophenol	<6.6		6.6
7005-72-3	4-Chlorophenylphenyl-Ether	<6.6		6.6
218-01-9	Chrysene	<6.6		6.6
84-74-2	Di-n-Butylphthalate	<6.6		6.6
117-84-0	Di-n-Octylphthalate	<6.6		6.6
53-70-3	Dibenzo (a,h) Anthracene	<6.6		6.6
132-64-9	Dibenzofuran	<6.6		6.6
95-50-1	1,2-Dichlorobenzene	<6.6		6.6
541-73-1	1,3-Dichlorobenzene	<6.6		6.6
106-46-7	1,4-Dichlorobenzene	<6.6		6.6
91-94-1	3,3'-Dichlorobenzidine	<40		40
120-83-2	2,4-Dichlorophenol	<6.6		6.6
84-66-2	Diethylphthalate	<6.6		6.6

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-02

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226803
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<6.6		6.6
105-67-9	2,4-Dimethylphenol	<6.6		6.6
534-52-1	4,6-Dinitro-2-Methylphenol	<34		34
51-28-5	2,4-Dinitrophenol	<34		34
121-14-2	2,4-Dinitrotoluene	<6.6		6.6
606-20-2	2,6-Dinitrotoluene	<6.6		6.6
206-44-0	Fluoranthene	<6.6		6.6
86-73-7	Fluorene	<6.6		6.6
118-74-1	Hexachlorobenzene	<6.6		6.6
87-68-3	Hexachlorobutadiene	<6.6		6.6
77-47-4	Hexachlorocyclopentadiene	<6.6		6.6
67-72-1	Hexachloroethane	<6.6		6.6
193-39-5	Indeno (1,2,3-cd) Pyrene	<6.6		6.6
78-59-1	Isophorone	<6.6		6.6
91-57-6	2-Methylnaphthalene	<6.6		6.6
95-48-7	2-Methylphenol	<6.6		6.6
106-44-5	4-Methylphenol	<6.6		6.6
621-64-7	N-Nitrosodi-n-Propylamine	<6.6		6.6
86-30-6	N-Nitroso-di-Phenylamine	<6.6		6.6
91-20-3	Naphthalene	<6.6		6.6
88-74-4	2-Nitroaniline	<34		34
99-09-2	3-Nitroaniline	<34		34
100-01-6	4-Nitroaniline	<34		34
98-95-3	Nitrobenzene	<6.6		6.6
88-75-5	2-Nitrophenol	<6.6		6.6
100-02-7	4-Nitrophenol	<34		34
87-86-5	Pentachlorophenol	<34		34
85-01-8	Phenanthrene	<6.6		6.6
108-95-2	Phenol	<6.6		6.6
129-00-0	Pyrene	<6.6		6.6
120-82-1	1,2,4-Trichlorobenzene	<6.6		6.6
95-95-4	2,4,5-Trichlorophenol	<34		34
88-06-2	2,4,6-Trichlorophenol	<6.6		6.6

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-02

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226803
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	**0.013**		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-03

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226804
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<3.3		3.3
208-96-8	Acenaphthylene	<3.3		3.3
120-12-7	Anthracene	<3.3		3.3
56-55-3	Benzo (a) Anthracene	<3.3		3.3
50-32-8	Benzo (a) Pyrene	<3.3		3.3
56832-73-6	Benzo (b&k) Fluoranthene	<3.3		3.3
191-24-2	Benzo (g,h,i,) Perylene	<3.3		3.3
65-85-0	Benzoic Acid	<33		33
100-51-6	Benzyl Alcohol	<13		13
111-91-1	Bis (2-Chloroethoxy)-Methane	<3.3		3.3
111-44-4	Bis (2-Chloroethyl) Ether	<3.3		3.3
108-60-1	Bis (2-Chloroisopropyl)-Ether	<3.3		3.3
117-81-7	Bis (2-ethylhexyl)-Phthalate	<3.3		3.3
101-55-3	4-Bromophenyl Phenylether	<3.3		3.3
85-68-7	Butyl Benzyl Phthalate	<3.3		3.3
59-50-7	4-Chloro-3-Methylphenol	<3.3		3.3
106-47-8	4-Chloroaniline	<13		13
91-58-7	2-Chloronaphthalene	<3.3		3.3
95-57-8	2-Chlorophenol	<3.3		3.3
7005-72-3	4-Chlorophenylphenyl-Ether	<3.3		3.3
218-01-9	Chrysene	<3.3		3.3
84-74-2	Di-n-Butylphthalate	<3.3		3.3
117-84-0	Di-n-Octylphthalate	<3.3		3.3
53-70-3	Dibenzo (a,h) Anthracene	<3.3		3.3
132-64-9	Dibenzofuran	<3.3		3.3
95-50-1	1,2-Dichlorobenzene	<3.3		3.3
541-73-1	1,3-Dichlorobenzene	<3.3		3.3
106-46-7	1,4-Dichlorobenzene	<3.3		3.3
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<3.3		3.3
84-66-2	Diethylphthalate	<3.3		3.3

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-03

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226804
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<3.3		3.3
105-67-9	2,4-Dimethylphenol	<3.3		3.3
534-52-1	4,6-Dinitro-2-Methylphenol	<17		17
51-28-5	2,4-Dinitrophenol	<17		17
121-14-2	2,4-Dinitrotoluene	<3.3		3.3
606-20-2	2,6-Dinitrotoluene	<3.3		3.3
206-44-0	Fluoranthene	<3.3		3.3
86-73-7	Fluorene	<3.3		3.3
118-74-1	Hexachlorobenzene	<3.3		3.3
87-68-3	Hexachlorobutadiene	<3.3		3.3
77-47-4	Hexachlorocyclopentadiene	<3.3		3.3
67-72-1	Hexachloroethane	<3.3		3.3
193-39-5	Indeno (1,2,3-cd) Pyrene	<3.3		3.3
78-59-1	Isophorone	<3.3		3.3
91-57-6	2-Methylnaphthalene	<3.3		3.3
95-48-7	2-Methylphenol	<3.3		3.3
106-44-5	4-Methylphenol	<3.3		3.3
621-64-7	N-Nitrosodi-n-Propylamine	<3.3		3.3
86-30-6	N-Nitroso-di-Phenylamine	<3.3		3.3
91-20-3	Naphthalene	<3.3		3.3
88-74-4	2-Nitroaniline	<17		17
99-09-2	3-Nitroaniline	<17		17
100-01-6	4-Nitroaniline	<17		17
98-95-3	Nitrobenzene	<3.3		3.3
88-75-5	2-Nitrophenol	<3.3		3.3
100-02-7	4-Nitrophenol	<17		17
87-86-5	Pentachlorophenol	<17		17
85-01-8	Phenanthrene	<3.3		3.3
108-95-2	Phenol	<3.3		3.3
129-00-0	Pyrene	<3.3		3.3
120-82-1	1,2,4-Trichlorobenzene	<3.3		3.3
95-95-4	2,4,5-Trichlorophenol	<17		17
88-06-2	2,4,6-Trichlorophenol	<3.3		3.3

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-03

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226804
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-04

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226805
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<3.3		3.3
208-96-8	Acenaphthylene	<3.3		3.3
120-12-7	Anthracene	<3.3		3.3
56-55-3	Benzo (a) Anthracene	<3.3		3.3
50-32-8	Benzo (a) Pyrene	<3.3		3.3
56832-73-6	Benzo (b&k) Fluoranthene	<3.3		3.3
191-24-2	Benzo (g,h,i,) Perylene	<3.3		3.3
65-85-0	Benzoic Acid	<33		33
100-51-6	Benzyl Alcohol	<13		13
111-91-1	Bis (2-Chloroethoxy)-Methane	<3.3		3.3
111-44-4	Bis (2-Chloroethyl) Ether	<3.3		3.3
108-60-1	Bis (2-Chloroisopropyl)-Ether	<3.3		3.3
117-81-7	Bis (2-ethylhexyl)-Phthalate	<3.3		3.3
101-55-3	4-Bromophenyl Phenylether	<3.3		3.3
85-68-7	Butyl Benzyl Phthalate	<3.3		3.3
59-50-7	4-Chloro-3-Methylphenol	<3.3		3.3
106-47-8	4-Chloroaniline	<13		13
91-58-7	2-Chloronaphthalene	<3.3		3.3
95-57-8	2-Chlorophenol	<3.3		3.3
7005-72-3	4-Chlorophenylphenyl-Ether	<3.3		3.3
218-01-9	Chrysene	<3.3		3.3
84-74-2	Di-n-Butylphthalate	<3.3		3.3
117-84-0	Di-n-Octylphthalate	<3.3		3.3
53-70-3	Dibenzo (a,h) Anthracene	<3.3		3.3
132-64-9	Dibenzofuran	<3.3		3.3
95-50-1	1,2-Dichlorobenzene	<3.3		3.3
541-73-1	1,3-Dichlorobenzene	<3.3		3.3
106-46-7	1,4-Dichlorobenzene	<3.3		3.3
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<3.3		3.3
84-66-2	Diethylphthalate	<3.3		3.3

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"Individual" sample results relate only to the sample tested.

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-04

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226805
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<3.3		3.3
105-67-9	2,4-Dimethylphenol	<3.3		3.3
534-52-1	4,6-Dinitro-2-Methylphenol	<17		17
51-28-5	2,4-Dinitrophenol	<17		17
121-14-2	2,4-Dinitrotoluene	<3.3		3.3
606-20-2	2,6-Dinitrotoluene	<3.3		3.3
206-44-0	Fluoranthene	<3.3		3.3
86-73-7	Fluorene	<3.3		3.3
118-74-1	Hexachlorobenzene	<3.3		3.3
87-68-3	Hexachlorobutadiene	<3.3		3.3
77-47-4	Hexachlorocyclopentadiene	<3.3		3.3
67-72-1	Hexachloroethane	<3.3		3.3
193-39-5	Indeno (1,2,3-cd) Pyrene	<3.3		3.3
78-59-1	Isophorone	<3.3		3.3
91-57-6	2-Methylnaphthalene	<3.3		3.3
95-48-7	2-Methylphenol	<3.3		3.3
106-44-5	4-Methylphenol	<3.3		3.3
621-64-7	N-Nitrosodi-n-Propylamine	<3.3		3.3
86-30-6	N-Nitroso-di-Phenylamine	<3.3		3.3
91-20-3	Naphthalene	<3.3		3.3
88-74-4	2-Nitroaniline	<17		17
99-09-2	3-Nitroaniline	<17		17
100-01-6	4-Nitroaniline	<17		17
98-95-3	Nitrobenzene	<3.3		3.3
88-75-5	2-Nitrophenol	<3.3		3.3
100-02-7	4-Nitrophenol	<17		17
87-86-5	Pentachlorophenol	<17		17
85-01-8	Phenanthrene	<3.3		3.3
108-95-2	Phenol	<3.3		3.3
129-00-0	Pyrene	<3.3		3.3
120-82-1	1,2,4-Trichlorobenzene	<3.3		3.3
95-95-4	2,4,5-Trichlorophenol	<17		17
88-06-2	2,4,6-Trichlorophenol	<3.3		3.3

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-04

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226805
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	**0.021**		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-05

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226806
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	<25		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	**47**		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	**45**		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-05

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226806
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	<25		25
86-73-7	Fluorene	<25		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	<25		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	<25		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	**28**		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	**110**		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-05

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226806
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	**0.24**		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-06

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226807
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	**130**		25
208-96-8	Acenaphthylene	**790**		25
120-12-7	Anthracene	**500**		25
56-55-3	Benzo (a) Anthracene	**480**		25
50-32-8	Benzo (a) Pyrene	**280**		25
56832-73-6	Benzo (b&k) Fluoranthene	**360**		25
191-24-2	Benzo (g,h,i,) Perylene	**130**		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	**39**		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	**440**		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	**53**		25
132-64-9	Dibenzofuran	**180**		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-06

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226807
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	**600**		25
86-73-7	Fluorene	**620**		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	**100**		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	**1900**		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	**3400**		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	**1900**		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	**1200**		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-06

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226807
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	**0.017**		0.005
108-39-4	3 & 4 Methylphenol	**0.079**		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-07

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:25
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226808
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<3.3		3.3
208-96-8	Acenaphthylene	<3.3		3.3
120-12-7	Anthracene	<3.3		3.3
56-55-3	Benzo (a) Anthracene	<3.3		3.3
50-32-8	Benzo (a) Pyrene	<3.3		3.3
56832-73-6	Benzo (b&k) Fluoranthene	<3.3		3.3
191-24-2	Benzo (g,h,i,) Perylene	<3.3		3.3
65-85-0	Benzoic Acid	<33		33
100-51-6	Benzyl Alcohol	<13		13
111-91-1	Bis (2-Chloroethoxy)-Methane	<3.3		3.3
111-44-4	Bis (2-Chloroethyl) Ether	<3.3		3.3
108-60-1	Bis (2-Chloroisopropyl)-Ether	<3.3		3.3
117-81-7	Bis (2-ethylhexyl)-Phthalate	<3.3		3.3
101-55-3	4-Bromophenyl Phenylether	<3.3		3.3
85-68-7	Butyl Benzyl Phthalate	<3.3		3.3
59-50-7	4-Chloro-3-Methylphenol	<3.3		3.3
106-47-8	4-Chloroaniline	<13		13
91-58-7	2-Chloronaphthalene	<3.3		3.3
95-57-8	2-Chlorophenol	<3.3		3.3
7005-72-3	4-Chlorophenylphenyl-Ether	<3.3		3.3
218-01-9	Chrysene	<3.3		3.3
84-74-2	Di-n-Butylphthalate	<3.3		3.3
117-84-0	Di-n-Octylphthalate	<3.3		3.3
53-70-3	Dibenzo (a,h) Anthracene	<3.3		3.3
132-64-9	Dibenzofuran	<3.3		3.3
95-50-1	1,2-Dichlorobenzene	<3.3		3.3
541-73-1	1,3-Dichlorobenzene	<3.3		3.3
106-46-7	1,4-Dichlorobenzene	<3.3		3.3
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<3.3		3.3
84-66-2	Diethylphthalate	<3.3		3.3

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-07

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:25
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226808
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<3.3		3.3
105-67-9	2,4-Dimethylphenol	<3.3		3.3
534-52-1	4,6-Dinitro-2-Methylphenol	<17		17
51-28-5	2,4-Dinitrophenol	<17		17
121-14-2	2,4-Dinitrotoluene	<3.3		3.3
606-20-2	2,6-Dinitrotoluene	<3.3		3.3
206-44-0	Fluoranthene	<3.3		3.3
86-73-7	Fluorene	<3.3		3.3
118-74-1	Hexachlorobenzene	<3.3		3.3
87-68-3	Hexachlorobutadiene	<3.3		3.3
77-47-4	Hexachlorocyclopentadiene	<3.3		3.3
67-72-1	Hexachloroethane	<3.3		3.3
193-39-5	Indeno (1,2,3-cd) Pyrene	<3.3		3.3
78-59-1	Isophorone	<3.3		3.3
91-57-6	2-Methylnaphthalene	<3.3		3.3
95-48-7	2-Methylphenol	<3.3		3.3
106-44-5	4-Methylphenol	<3.3		3.3
621-64-7	N-Nitrosodi-n-Propylamine	<3.3		3.3
86-30-6	N-Nitroso-di-Phenylamine	<3.3		3.3
91-20-3	Naphthalene	<3.3		3.3
88-74-4	2-Nitroaniline	<17		17
99-09-2	3-Nitroaniline	<17		17
100-01-6	4-Nitroaniline	<17		17
98-95-3	Nitrobenzene	<3.3		3.3
88-75-5	2-Nitrophenol	<3.3		3.3
100-02-7	4-Nitrophenol	<17		17
87-86-5	Pentachlorophenol	<17		17
85-01-8	Phenanthrene	<3.3		3.3
108-95-2	Phenol	<3.3		3.3
129-00-0	Pyrene	<3.3		3.3
120-82-1	1,2,4-Trichlorobenzene	<3.3		3.3
95-95-4	2,4,5-Trichlorophenol	<17		17
88-06-2	2,4,6-Trichlorophenol	<3.3		3.3

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-07

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:25
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226808
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	**0.020**		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-08

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226809
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	<25		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	<25		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	<25		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-08

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226809
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	<25		25
86-73-7	Fluorene	<25		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	<25		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	<25		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	<25		25
108-95-2	Phenol	*<25		25
129-00-0	Pyrene	<25		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

* See attached Statement of Data Qualifications.

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-08

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226809
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-09

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226810
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<8.3		8.3
208-96-8	Acenaphthylene	<8.3		8.3
120-12-7	Anthracene	<8.3		8.3
56-55-3	Benzo (a) Anthracene	**11**		8.3
50-32-8	Benzo (a) Pyrene	<8.3		8.3
56832-73-6	Benzo (b&k) Fluoranthene	<8.3		8.3
191-24-2	Benzo (g,h,i,) Perylene	**12**		8.3
65-85-0	Benzoic Acid	<83		83
100-51-6	Benzyl Alcohol	<33		33
111-91-1	Bis (2-Chloroethoxy)-Methane	<8.3		8.3
111-44-4	Bis (2-Chloroethyl) Ether	<8.3		8.3
108-60-1	Bis (2-Chloroisopropyl)-Ether	<8.3		8.3
117-81-7	Bis (2-ethylhexyl)-Phthalate	<8.3		8.3
101-55-3	4-Bromophenyl Phenylether	<8.3		8.3
85-68-7	Butyl Benzyl Phthalate	<8.3		8.3
59-50-7	4-Chloro-3-Methylphenol	<8.3		8.3
106-47-8	4-Chloroaniline	<33		33
91-58-7	2-Chloronaphthalene	<8.3		8.3
95-57-8	2-Chlorophenol	<8.3		8.3
7005-72-3	4-Chlorophenylphenyl-Ether	<8.3		8.3
218-01-9	Chrysene	**9.4**		8.3
84-74-2	Di-n-Butylphthalate	<8.3		8.3
117-84-0	Di-n-Octylphthalate	<8.3		8.3
53-70-3	Dibenzo (a,h) Anthracene	<8.3		8.3
132-64-9	Dibenzofuran	<8.3		8.3
95-50-1	1,2-Dichlorobenzene	<8.3		8.3
541-73-1	1,3-Dichlorobenzene	<8.3		8.3
106-46-7	1,4-Dichlorobenzene	<8.3		8.3
91-94-1	3,3'-Dichlorobenzidine	<50		50
120-83-2	2,4-Dichlorophenol	<8.3		8.3
84-66-2	Diethylphthalate	<8.3		8.3

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-09

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226810
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<8.3		8.3
105-67-9	2,4-Dimethylphenol	<8.3		8.3
534-52-1	4,6-Dinitro-2-Methylphenol	<43		43
51-28-5	2,4-Dinitrophenol	<43		43
121-14-2	2,4-Dinitrotoluene	<8.3		8.3
606-20-2	2,6-Dinitrotoluene	<8.3		8.3
206-44-0	Fluoranthene	<8.3		8.3
86-73-7	Fluorene	<8.3		8.3
118-74-1	Hexachlorobenzene	<8.3		8.3
87-68-3	Hexachlorobutadiene	<8.3		8.3
77-47-4	Hexachlorocyclopentadiene	<8.3		8.3
67-72-1	Hexachloroethane	<8.3		8.3
193-39-5	Indeno (1,2,3-cd) Pyrene	<8.3		8.3
78-59-1	Isophorone	<8.3		8.3
91-57-6	2-Methylnaphthalene	<8.3		8.3
95-48-7	2-Methylphenol	<8.3		8.3
106-44-5	4-Methylphenol	<8.3		8.3
621-64-7	N-Nitrosodi-n-Propylamine	<8.3		8.3
86-30-6	N-Nitroso-di-Phenylamine	<8.3		8.3
91-20-3	Naphthalene	<8.3		8.3
88-74-4	2-Nitroaniline	<43		43
99-09-2	3-Nitroaniline	<43		43
100-01-6	4-Nitroaniline	<43		43
98-95-3	Nitrobenzene	<8.3		8.3
88-75-5	2-Nitrophenol	<8.3		8.3
100-02-7	4-Nitrophenol	<43		43
87-86-5	Pentachlorophenol	<43		43
85-01-8	Phenanthrene	<8.3		8.3
108-95-2	Phenol	<8.3		8.3
129-00-0	Pyrene	**49**		8.3
120-82-1	1,2,4-Trichlorobenzene	<8.3		8.3
95-95-4	2,4,5-Trichlorophenol	<43		43
88-06-2	2,4,6-Trichlorophenol	<8.3		8.3

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TriMatrix Laboratories, Inc.

TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-09

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226810
Batch No: 144614

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-10

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226811
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<1.7		1.7
208-96-8	Acenaphthylene	<1.7		1.7
120-12-7	Anthracene	<1.7		1.7
56-55-3	Benzo (a) Anthracene	<1.7		1.7
50-32-8	Benzo (a) Pyrene	<1.7		1.7
56832-73-6	Benzo (b&k) Fluoranthene	<1.7		1.7
191-24-2	Benzo (g,h,i,) Perylene	<1.7		1.7
65-85-0	Benzoic Acid	<17		17
100-51-6	Benzyl Alcohol	<6.5		6.5
111-91-1	Bis (2-Chloroethoxy)-Methane	<1.7		1.7
111-44-4	Bis (2-Chloroethyl) Ether	<1.7		1.7
108-60-1	Bis (2-Chloroisopropyl)-Ether	<1.7		1.7
117-81-7	Bis (2-ethylhexyl)-Phthalate	<1.7		1.7
101-55-3	4-Bromophenyl Phenylether	<1.7		1.7
85-68-7	Butyl Benzyl Phthalate	<1.7		1.7
59-50-7	4-Chloro-3-Methylphenol	<1.7		1.7
106-47-8	4-Chloroaniline	<6.5		6.5
91-58-7	2-Chloronaphthalene	<1.7		1.7
95-57-8	2-Chlorophenol	<1.7		1.7
7005-72-3	4-Chlorophenylphenyl-Ether	<1.7		1.7
218-01-9	Chrysene	<1.7		1.7
84-74-2	Di-n-Butylphthalate	<1.7		1.7
117-84-0	Di-n-Octylphthalate	<1.7		1.7
53-70-3	Dibenzo (a,h) Anthracene	<1.7		1.7
132-64-9	Dibenzofuran	<1.7		1.7
95-50-1	1,2-Dichlorobenzene	<1.7		1.7
541-73-1	1,3-Dichlorobenzene	<1.7		1.7
106-46-7	1,4-Dichlorobenzene	<1.7		1.7
91-94-1	3,3'-Dichlorobenzidine	<10		10
120-83-2	2,4-Dichlorophenol	<1.7		1.7
84-66-2	Diethylphthalate	<1.7		1.7

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-10

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226811
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<1.7		1.7
105-67-9	2,4-Dimethylphenol	<1.7		1.7
534-52-1	4,6-Dinitro-2-Methylphenol	<8.5		8.5
51-28-5	2,4-Dinitrophenol	<8.5		8.5
121-14-2	2,4-Dinitrotoluene	<1.7		1.7
606-20-2	2,6-Dinitrotoluene	<1.7		1.7
206-44-0	Fluoranthene	<1.7		1.7
86-73-7	Fluorene	<1.7		1.7
118-74-1	Hexachlorobenzene	<1.7		1.7
87-68-3	Hexachlorobutadiene	<1.7		1.7
77-47-4	Hexachlorocyclopentadiene	<1.7		1.7
67-72-1	Hexachloroethane	<1.7		1.7
193-39-5	Indeno (1,2,3-cd) Pyrene	<1.7		1.7
78-59-1	Isophorone	<1.7		1.7
91-57-6	2-Methylnaphthalene	<1.7		1.7
95-48-7	2-Methylphenol	<1.7		1.7
106-44-5	4-Methylphenol	<1.7		1.7
621-64-7	N-Nitrosodi-n-Propylamine	<1.7		1.7
86-30-6	N-Nitroso-di-Phenylamine	<1.7		1.7
91-20-3	Naphthalene	<1.7		1.7
88-74-4	2-Nitroaniline	<8.5		8.5
99-09-2	3-Nitroaniline	<8.5		8.5
100-01-6	4-Nitroaniline	<8.5		8.5
98-95-3	Nitrobenzene	<1.7		1.7
88-75-5	2-Nitrophenol	<1.7		1.7
100-02-7	4-Nitrophenol	<8.5		8.5
87-86-5	Pentachlorophenol	<8.5		8.5
85-01-8	Phenanthrene	**5.2**		1.7
108-95-2	Phenol	<1.7		1.7
129-00-0	Pyrene	**2.8**		1.7
120-82-1	1,2,4-Trichlorobenzene	<1.7		1.7
95-95-4	2,4,5-Trichlorophenol	<8.5		8.5
88-06-2	2,4,6-Trichlorophenol	<1.7		1.7

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-10

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226811
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226812
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	<25		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	<25		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	<25		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226812
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	<25		25
86-73-7	Fluorene	<25		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	**72**		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	**29**		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	<25		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	<25		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226812
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	**0.007**		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-11

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226813
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<0.83		0.83
208-96-8	Acenaphthylene	<0.83		0.83
120-12-7	Anthracene	**0.94**		0.83
56-55-3	Benzo (a) Anthracene	<0.83		0.83
50-32-8	Benzo (a) Pyrene	<0.83		0.83
56832-73-6	Benzo (b&k) Fluoranthene	<0.83		0.83
191-24-2	Benzo (g,h,i,) Perylene	<0.83		0.83
65-85-0	Benzoic Acid	<8.3		8.3
100-51-6	Benzyl Alcohol	<3.3		3.3
111-91-1	Bis (2-Chloroethoxy)-Methane	<0.83		0.83
111-44-4	Bis (2-Chloroethyl) Ether	<0.83		0.83
108-60-1	Bis (2-Chloroisopropyl)-Ether	<0.83		0.83
117-81-7	Bis (2-ethylhexyl)-Phthalate	<0.83		0.83
101-55-3	4-Bromophenyl Phenylether	<0.83		0.83
85-68-7	Butyl Benzyl Phthalate	<0.83		0.83
59-50-7	4-Chloro-3-Methylphenol	<0.83		0.83
106-47-8	4-Chloroaniline	<3.3		3.3
91-58-7	2-Chloronaphthalene	<0.83		0.83
95-57-8	2-Chlorophenol	<0.83		0.83
7005-72-3	4-Chlorophenylphenyl-Ether	<0.83		0.83
218-01-9	Chrysene	<0.83		0.83
84-74-2	Di-n-Butylphthalate	<0.83		0.83
117-84-0	Di-n-Octylphthalate	<0.83		0.83
53-70-3	Dibenzo (a,h) Anthracene	<0.83		0.83
132-64-9	Dibenzofuran	<0.83		0.83
95-50-1	1,2-Dichlorobenzene	<0.83		0.83
541-73-1	1,3-Dichlorobenzene	<0.83		0.83
106-46-7	1,4-Dichlorobenzene	<0.83		0.83
91-94-1	3,3'-Dichlorobenzidine	<5.0		5.0
120-83-2	2,4-Dichlorophenol	<0.83		0.83
84-66-2	Diethylphthalate	<0.83		0.83

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-11

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226813
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<0.83		0.83
105-67-9	2,4-Dimethylphenol	<0.83		0.83
534-52-1	4,6-Dinitro-2-Methylphenol	<4.3		4.3
51-28-5	2,4-Dinitrophenol	<4.3		4.3
121-14-2	2,4-Dinitrotoluene	<0.83		0.83
606-20-2	2,6-Dinitrotoluene	<0.83		0.83
206-44-0	Fluoranthene	**0.85**		0.83
86-73-7	Fluorene	<0.83		0.83
118-74-1	Hexachlorobenzene	<0.83		0.83
87-68-3	Hexachlorobutadiene	<0.83		0.83
77-47-4	Hexachlorocyclopentadiene	<0.83		0.83
67-72-1	Hexachloroethane	<0.83		0.83
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.83		0.83
78-59-1	Isophorone	<0.83		0.83
91-57-6	2-Methylnaphthalene	<0.83		0.83
95-48-7	2-Methylphenol	<0.83		0.83
106-44-5	4-Methylphenol	<0.83		0.83
621-64-7	N-Nitrosodi-n-Propylamine	<0.83		0.83
86-30-6	N-Nitroso-di-Phenylamine	<0.83		0.83
91-20-3	Naphthalene	<0.83		0.83
88-74-4	2-Nitroaniline	<4.3		4.3
99-09-2	3-Nitroaniline	<4.3		4.3
100-01-6	4-Nitroaniline	<4.3		4.3
98-95-3	Nitrobenzene	<0.83		0.83
88-75-5	2-Nitrophenol	<0.83		0.83
100-02-7	4-Nitrophenol	<4.3		4.3
87-86-5	Pentachlorophenol	<4.3		4.3
85-01-8	Phenanthrene	**1.9**		0.83
108-95-2	Phenol	<0.83		0.83
129-00-0	Pyrene	**1.9**		0.83
120-82-1	1,2,4-Trichlorobenzene	<0.83		0.83
95-95-4	2,4,5-Trichlorophenol	<4.3		4.3
88-06-2	2,4,6-Trichlorophenol	<0.83		0.83

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-11

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226813
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-12

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226814
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<0.33		0.33
105-67-9	2,4-Dimethylphenol	<0.33		0.33
534-52-1	4,6-Dinitro-2-Methylphenol	<1.7		1.7
51-28-5	2,4-Dinitrophenol	<1.7		1.7
121-14-2	2,4-Dinitrotoluene	<0.33		0.33
606-20-2	2,6-Dinitrotoluene	<0.33		0.33
206-44-0	Fluoranthene	<0.33		0.33
86-73-7	Fluorene	<0.33		0.33
118-74-1	Hexachlorobenzene	<0.33		0.33
87-68-3	Hexachlorobutadiene	<0.33		0.33
77-47-4	Hexachlorocyclopentadiene	<0.33		0.33
67-72-1	Hexachloroethane	<0.33		0.33
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.33		0.33
78-59-1	Isophorone	<0.33		0.33
91-57-6	2-Methylnaphthalene	<0.33		0.33
95-48-7	2-Methylphenol	<0.33		0.33
106-44-5	4-Methylphenol	<0.33		0.33
621-64-7	N-Nitrosodi-n-Propylamine	<0.33		0.33
86-30-6	N-Nitroso-di-Phenylamine	<0.33		0.33
91-20-3	Naphthalene	<0.33		0.33
88-74-4	2-Nitroaniline	<1.7		1.7
99-09-2	3-Nitroaniline	<1.7		1.7
100-01-6	4-Nitroaniline	<1.7		1.7
98-95-3	Nitrobenzene	<0.33		0.33
88-75-5	2-Nitrophenol	<0.33		0.33
100-02-7	4-Nitrophenol	<1.7		1.7
87-86-5	Pentachlorophenol	<1.7		1.7
85-01-8	Phenanthrene	<0.33		0.33
108-95-2	Phenol	<0.33		0.33
129-00-0	Pyrene	<0.33		0.33
120-82-1	1,2,4-Trichlorobenzene	<0.33		0.33
95-95-4	2,4,5-Trichlorophenol	<1.7		1.7
88-06-2	2,4,6-Trichlorophenol	<0.33		0.33

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-12

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226814
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-13

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226815
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<0.33		0.33
208-96-8	Acenaphthylene	<0.33		0.33
120-12-7	Anthracene	<0.33		0.33
56-55-3	Benzo (a) Anthracene	<0.33		0.33
50-32-8	Benzo (a) Pyrene	<0.33		0.33
56832-73-6	Benzo (b&k) Fluoranthene	<0.33		0.33
191-24-2	Benzo (g,h,i,) Perylene	<0.33		0.33
65-85-0	Benzoic Acid	<3.3		3.3
100-51-6	Benzyl Alcohol	<1.3		1.3
111-91-1	Bis (2-Chloroethoxy)-Methane	<0.33		0.33
111-44-4	Bis (2-Chloroethyl) Ether	<0.33		0.33
108-60-1	Bis (2-Chloroisopropyl)-Ether	<0.33		0.33
117-81-7	Bis (2-ethylhexyl)-Phthalate	<0.33		0.33
101-55-3	4-Bromophenyl Phenylether	<0.33		0.33
85-68-7	Butyl Benzyl Phthalate	<0.33		0.33
59-50-7	4-Chloro-3-Methylphenol	<0.33		0.33
106-47-8	4-Chloroaniline	<1.3		1.3
91-58-7	2-Chloronaphthalene	<0.33		0.33
95-57-8	2-Chlorophenol	<0.33		0.33
7005-72-3	4-Chlorophenylphenyl-Ether	<0.33		0.33
218-01-9	Chrysene	<0.33		0.33
84-74-2	Di-n-Butylphthalate	<0.33		0.33
117-84-0	Di-n-Octylphthalate	<0.33		0.33
53-70-3	Dibenzo (a,h) Anthracene	<0.33		0.33
132-64-9	Dibenzofuran	**0.60**		0.33
95-50-1	1,2-Dichlorobenzene	<0.33		0.33
541-73-1	1,3-Dichlorobenzene	<0.33		0.33
106-46-7	1,4-Dichlorobenzene	<0.33		0.33
91-94-1	3,3'-Dichlorobenzidine	<2.0		2.0
120-83-2	2,4-Dichlorophenol	<0.33		0.33
84-66-2	Diethylphthalate	<0.33		0.33

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-13

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226815
Batch No: 144521

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<0.33		0.33
105-67-9	2,4-Dimethylphenol	<0.33		0.33
534-52-1	4,6-Dinitro-2-Methylphenol	<1.7		1.7
51-28-5	2,4-Dinitrophenol	<1.7		1.7
121-14-2	2,4-Dinitrotoluene	<0.33		0.33
606-20-2	2,6-Dinitrotoluene	<0.33		0.33
206-44-0	Fluoranthene	<0.33		0.33
86-73-7	Fluorene	**0.44**		0.33
118-74-1	Hexachlorobenzene	<0.33		0.33
87-68-3	Hexachlorobutadiene	<0.33		0.33
77-47-4	Hexachlorocyclopentadiene	<0.33		0.33
67-72-1	Hexachloroethane	<0.33		0.33
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.33		0.33
78-59-1	Isophorone	<0.33		0.33
91-57-6	2-Methylnaphthalene	**1.3**		0.33
95-48-7	2-Methylphenol	<0.33		0.33
106-44-5	4-Methylphenol	**0.82**		0.33
621-64-7	N-Nitrosodi-n-Propylamine	<0.33		0.33
86-30-6	N-Nitroso-di-Phenylamine	<0.33		0.33
91-20-3	Naphthalene	**1.3**		0.33
88-74-4	2-Nitroaniline	<1.7		1.7
99-09-2	3-Nitroaniline	<1.7		1.7
100-01-6	4-Nitroaniline	<1.7		1.7
98-95-3	Nitrobenzene	<0.33		0.33
88-75-5	2-Nitrophenol	<0.33		0.33
100-02-7	4-Nitrophenol	<1.7		1.7
87-86-5	Pentachlorophenol	<1.7		1.7
85-01-8	Phenanthrene	**0.84**		0.33
108-95-2	Phenol	**0.72**		0.33
129-00-0	Pyrene	<0.33		0.33
120-82-1	1,2,4-Trichlorobenzene	<0.33		0.33
95-95-4	2,4,5-Trichlorophenol	<1.7		1.7
88-06-2	2,4,6-Trichlorophenol	<0.33		0.33

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-13

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226815
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-14

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 15:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226816
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<0.33		0.33
208-96-8	Acenaphthylene	<0.33		0.33
120-12-7	Anthracene	<0.33		0.33
56-55-3	Benzo (a) Anthracene	<0.33		0.33
50-32-8	Benzo (a) Pyrene	<0.33		0.33
56832-73-6	Benzo (b&k) Fluoranthene	<0.33		0.33
191-24-2	Benzo (g,h,i,) Perylene	<0.33		0.33
65-85-0	Benzoic Acid	<3.3		3.3
100-51-6	Benzyl Alcohol	<1.3		1.3
111-91-1	Bis (2-Chloroethoxy)-Methane	<0.33		0.33
111-44-4	Bis (2-Chloroethyl) Ether	<0.33		0.33
108-60-1	Bis (2-Chloroisopropyl)-Ether	<0.33		0.33
117-81-7	Bis (2-ethylhexyl)-Phthalate	<0.33		0.33
101-55-3	4-Bromophenyl Phenylether	<0.33		0.33
85-68-7	Butyl Benzyl Phthalate	<0.33		0.33
59-50-7	4-Chloro-3-Methylphenol	<0.33		0.33
106-47-8	4-Chloroaniline	<1.3		1.3
91-58-7	2-Chloronaphthalene	<0.33		0.33
95-57-8	2-Chlorophenol	<0.33		0.33
7005-72-3	4-Chlorophenylphenyl-Ether	<0.33		0.33
218-01-9	Chrysene	<0.33		0.33
84-74-2	Di-n-Butylphthalate	<0.33		0.33
117-84-0	Di-n-Octylphthalate	<0.33		0.33
53-70-3	Dibenzo (a,h) Anthracene	<0.33		0.33
132-64-9	Dibenzofuran	<0.33		0.33
95-50-1	1,2-Dichlorobenzene	<0.33		0.33
541-73-1	1,3-Dichlorobenzene	<0.33		0.33
106-46-7	1,4-Dichlorobenzene	<0.33		0.33
91-94-1	3,3'-Dichlorobenzidine	<2.0		2.0
120-83-2	2,4-Dichlorophenol	<0.33		0.33
84-66-2	Diethylphthalate	<0.33		0.33

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-14

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 15:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226816
Batch No: 144516

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<0.33		0.33
105-67-9	2,4-Dimethylphenol	<0.33		0.33
534-52-1	4,6-Dinitro-2-Methylphenol	<1.7		1.7
51-28-5	2,4-Dinitrophenol	<1.7		1.7
121-14-2	2,4-Dinitrotoluene	<0.33		0.33
606-20-2	2,6-Dinitrotoluene	<0.33		0.33
206-44-0	Fluoranthene	<0.33		0.33
86-73-7	Fluorene	<0.33		0.33
118-74-1	Hexachlorobenzene	<0.33		0.33
87-68-3	Hexachlorobutadiene	<0.33		0.33
77-47-4	Hexachlorocyclopentadiene	<0.33		0.33
67-72-1	Hexachloroethane	<0.33		0.33
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.33		0.33
78-59-1	Isophorone	<0.33		0.33
91-57-6	2-Methylnaphthalene	<0.33		0.33
95-48-7	2-Methylphenol	<0.33		0.33
106-44-5	4-Methylphenol	<0.33		0.33
621-64-7	N-Nitrosodi-n-Propylamine	<0.33		0.33
86-30-6	N-Nitroso-di-Phenylamine	<0.33		0.33
91-20-3	Naphthalene	<0.33		0.33
88-74-4	2-Nitroaniline	<1.7		1.7
99-09-2	3-Nitroaniline	<1.7		1.7
100-01-6	4-Nitroaniline	<1.7		1.7
98-95-3	Nitrobenzene	<0.33		0.33
88-75-5	2-Nitrophenol	<0.33		0.33
100-02-7	4-Nitrophenol	<1.7		1.7
87-86-5	Pentachlorophenol	<1.7		1.7
85-01-8	Phenanthrene	<0.33		0.33
108-95-2	Phenol	<0.33		0.33
129-00-0	Pyrene	<0.33		0.33
120-82-1	1,2,4-Trichlorobenzene	<0.33		0.33
95-95-4	2,4,5-Trichlorophenol	<1.7		1.7
88-06-2	2,4,6-Trichlorophenol	<0.33		0.33

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-14

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 15:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226816
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-04

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226818
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<5.0		5.0
208-96-8	Acenaphthylene	<5.0		5.0
120-12-7	Anthracene	<5.0		5.0
56-55-3	Benzo (a) Anthracene	<5.0		5.0
50-32-8	Benzo (a) Pyrene	<5.0		5.0
56832-73-6	Benzo (b&k) Fluoranthene	<5.0		5.0
191-24-2	Benzo (g,h,i,) Perylene	<5.0		5.0
65-85-0	Benzoic Acid	<50		50
100-51-6	Benzyl Alcohol	<50		50
111-91-1	Bis (2-Chloroethoxy)-Methane	<5.0		5.0
111-44-4	Bis (2-Chloroethyl) Ether	<5.0		5.0
108-60-1	Bis (2-Chloroisopropyl)-Ether	<5.0		5.0
117-81-7	Bis (2-ethylhexyl)-Phthalate	<5.0		5.0
101-55-3	4-Bromophenyl Phenylether	<5.0		5.0
85-68-7	Butyl Benzyl Phthalate	<5.0		5.0
59-50-7	4-Chloro-3-Methylphenol	<5.0		5.0
106-47-8	4-Chloroaniline	<20		20
91-58-7	2-Chloronaphthalene	<5.0		5.0
95-57-8	2-Chlorophenol	<5.0		5.0
7005-72-3	4-Chlorophenylphenyl-Ether	<5.0		5.0
218-01-9	Chrysene	<5.0		5.0
84-74-2	Di-n-Butylphthalate	<5.0		5.0
117-84-0	Di-n-Octylphthalate	<5.0		5.0
53-70-3	Dibenzo (a,h) Anthracene	<5.0		5.0
132-64-9	Dibenzofuran	<5.0		5.0
95-50-1	1,2-Dichlorobenzene	<5.0		5.0
541-73-1	1,3-Dichlorobenzene	<5.0		5.0
106-46-7	1,4-Dichlorobenzene	<5.0		5.0
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<5.0		5.0
84-66-2	Diethylphthalate	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-04

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226818
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<5.0		5.0
105-67-9	2,4-Dimethylphenol	<5.0		5.0
534-52-1	4,6-Dinitro-2-Methylphenol	<20		20
51-28-5	2,4-Dinitrophenol	<20		20
121-14-2	2,4-Dinitrotoluene	<5.0		5.0
606-20-2	2,6-Dinitrotoluene	<5.0		5.0
206-44-0	Fluoranthene	<5.0		5.0
86-73-7	Fluorene	<5.0		5.0
118-74-1	Hexachlorobenzene	<5.0		5.0
87-68-3	Hexachlorobutadiene	<5.0		5.0
77-47-4	Hexachlorocyclopentadiene	<5.0		5.0
67-72-1	Hexachloroethane	<5.0		5.0
193-39-5	Indeno (1,2,3-cd) Pyrene	<5.0		5.0
78-59-1	Isophorone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
95-48-7	2-Methylphenol	<5.0		5.0
106-44-5	4-Methylphenol	<5.0		5.0
621-64-7	N-Nitrosodi-n-Propylamine	<5.0		5.0
86-30-6	N-Nitroso-di-Phenylamine	<5.0		5.0
91-20-3	Naphthalene	<5.0		5.0
88-74-4	2-Nitroaniline	<20		20
99-09-2	3-Nitroaniline	<20		20
100-01-6	4-Nitroaniline	<20		20
98-95-3	Nitrobenzene	<5.0		5.0
88-75-5	2-Nitrophenol	<5.0		5.0
100-02-7	4-Nitrophenol	<20		20
87-86-5	Pentachlorophenol	<20		20
85-01-8	Phenanthrene	<5.0		5.0
108-95-2	Phenol	<5.0		5.0
129-00-0	Pyrene	<5.0		5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0		5.0
95-95-4	2,4,5-Trichlorophenol	<50		50
88-06-2	2,4,6-Trichlorophenol	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-05

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 13:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226819
Batch No: 144674

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<200		200
208-96-8	Acenaphthylene	<200		200
120-12-7	Anthracene	<200		200
56-55-3	Benzo (a) Anthracene	**340**		200
50-32-8	Benzo (a) Pyrene	<200		200
56832-73-6	Benzo (b&k) Fluoranthene	<200		200
191-24-2	Benzo (g,h,i,) Perylene	<200		200
65-85-0	Benzoic Acid	<2000		2000
100-51-6	Benzyl Alcohol	<2000		2000
111-91-1	Bis (2-Chloroethoxy)-Methane	<200		200
111-44-4	Bis (2-Chloroethyl) Ether	<200		200
108-60-1	Bis (2-Chloroisopropyl)-Ether	<200		200
117-81-7	Bis (2-ethylhexyl)-Phthalate	**420**		200
101-55-3	4-Bromophenyl Phenylether	<200		200
85-68-7	Butyl Benzyl Phthalate	<200		200
59-50-7	4-Chloro-3-Methylphenol	<200		200
106-47-8	4-Chloroaniline	<800		800
91-58-7	2-Chloronaphthalene	<200		200
95-57-8	2-Chlorophenol	<200		200
7005-72-3	4-Chlorophenylphenyl-Ether	<200		200
218-01-9	Chrysene	**570**		200
84-74-2	Di-n-Butylphthalate	<200		200
117-84-0	Di-n-Octylphthalate	<200		200
53-70-3	Dibenzo (a,h) Anthracene	<200		200
132-64-9	Dibenzofuran	<200		200
95-50-1	1,2-Dichlorobenzene	<200		200
541-73-1	1,3-Dichlorobenzene	<200		200
106-46-7	1,4-Dichlorobenzene	<200		200
91-94-1	3,3'-Dichlorobenzidine	<800		800
120-83-2	2,4-Dichlorophenol	<200		200
84-66-2	Diethylphthalate	<200		200

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-05

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 13:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226819
Batch No: 144674

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<200		200
105-67-9	2,4-Dimethylphenol	<200		200
534-52-1	4,6-Dinitro-2-Methylphenol	<800		800
51-28-5	2,4-Dinitrophenol	<800		800
121-14-2	2,4-Dinitrotoluene	<200		200
606-20-2	2,6-Dinitrotoluene	<200		200
206-44-0	Fluoranthene	**640**		200
86-73-7	Fluorene	<200		200
118-74-1	Hexachlorobenzene	<200		200
87-68-3	Hexachlorobutadiene	<200		200
77-47-4	Hexachlorocyclopentadiene	<200		200
67-72-1	Hexachloroethane	<200		200
193-39-5	Indeno (1,2,3-cd) Pyrene	<200		200
78-59-1	Isophorone	<200		200
91-57-6	2-Methylnaphthalene	<200		200
95-48-7	2-Methylphenol	<200		200
106-44-5	4-Methylphenol	<200		200
621-64-7	N-Nitrosodi-n-Propylamine	<200		200
86-30-6	N-Nitroso-di-Phenylamine	<200		200
91-20-3	Naphthalene	<200		200
88-74-4	2-Nitroaniline	<800		800
99-09-2	3-Nitroaniline	<800		800
100-01-6	4-Nitroaniline	<800		800
98-95-3	Nitrobenzene	<200		200
88-75-5	2-Nitrophenol	<200		200
100-02-7	4-Nitrophenol	<800		800
87-86-5	Pentachlorophenol	<800		800
85-01-8	Phenanthrene	<200		200
108-95-2	Phenol	<200		200
129-00-0	Pyrene	**1300**		200
120-82-1	1,2,4-Trichlorobenzene	<200		200
95-95-4	2,4,5-Trichlorophenol	<2000		2000
88-06-2	2,4,6-Trichlorophenol	<200		200

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-06

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226820
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<5.0		5.0
208-96-8	Acenaphthylene	<5.0		5.0
120-12-7	Anthracene	<5.0		5.0
56-55-3	Benzo (a) Anthracene	<5.0		5.0
50-32-8	Benzo (a) Pyrene	<5.0		5.0
56832-73-6	Benzo (b&k) Fluoranthene	<5.0		5.0
191-24-2	Benzo (g,h,i,) Perylene	<5.0		5.0
65-85-0	Benzoic Acid	<50		50
100-51-6	Benzyl Alcohol	<50		50
111-91-1	Bis (2-Chloroethoxy)-Methane	<5.0		5.0
111-44-4	Bis (2-Chloroethyl) Ether	<5.0		5.0
108-60-1	Bis (2-Chloroisopropyl)-Ether	<5.0		5.0
117-81-7	Bis (2-ethylhexyl)-Phthalate	<5.0		5.0
101-55-3	4-Bromophenyl Phenylether	<5.0		5.0
85-68-7	Butyl Benzyl Phthalate	<5.0		5.0
59-50-7	4-Chloro-3-Methylphenol	<5.0		5.0
106-47-8	4-Chloroaniline	<20		20
91-58-7	2-Chloronaphthalene	<5.0		5.0
95-57-8	2-Chlorophenol	<5.0		5.0
7005-72-3	4-Chlorophenylphenyl-Ether	<5.0		5.0
218-01-9	Chrysene	<5.0		5.0
84-74-2	Di-n-Butylphthalate	<5.0		5.0
117-84-0	Di-n-Octylphthalate	<5.0		5.0
53-70-3	Dibenzo (a,h) Anthracene	<5.0		5.0
132-64-9	Dibenzofuran	<5.0		5.0
95-50-1	1,2-Dichlorobenzene	<5.0		5.0
541-73-1	1,3-Dichlorobenzene	<5.0		5.0
106-46-7	1,4-Dichlorobenzene	<5.0		5.0
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<5.0		5.0
84-66-2	Diethylphthalate	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-06

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226820
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<5.0		5.0
105-67-9	2,4-Dimethylphenol	<5.0		5.0
534-52-1	4,6-Dinitro-2-Methylphenol	<20		20
51-28-5	2,4-Dinitrophenol	<20		20
121-14-2	2,4-Dinitrotoluene	<5.0		5.0
606-20-2	2,6-Dinitrotoluene	<5.0		5.0
206-44-0	Fluoranthene	<5.0		5.0
86-73-7	Fluorene	<5.0		5.0
118-74-1	Hexachlorobenzene	<5.0		5.0
87-68-3	Hexachlorobutadiene	<5.0		5.0
77-47-4	Hexachlorocyclopentadiene	<5.0		5.0
67-72-1	Hexachloroethane	<5.0		5.0
193-39-5	Indeno (1,2,3-cd) Pyrene	<5.0		5.0
78-59-1	Isophorone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
95-48-7	2-Methylphenol	<5.0		5.0
106-44-5	4-Methylphenol	<5.0		5.0
621-64-7	N-Nitrosodi-n-Propylamine	<5.0		5.0
86-30-6	N-Nitroso-di-Phenylamine	<5.0		5.0
91-20-3	Naphthalene	<5.0		5.0
88-74-4	2-Nitroaniline	<20		20
99-09-2	3-Nitroaniline	<20		20
100-01-6	4-Nitroaniline	<20		20
98-95-3	Nitrobenzene	<5.0		5.0
88-75-5	2-Nitrophenol	<5.0		5.0
100-02-7	4-Nitrophenol	<20		20
87-86-5	Pentachlorophenol	<20		20
85-01-8	Phenanthrene	<5.0		5.0
108-95-2	Phenol	<5.0		5.0
129-00-0	Pyrene	<5.0		5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0		5.0
95-95-4	2,4,5-Trichlorophenol	<50		50
88-06-2	2,4,6-Trichlorophenol	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226821
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	<25		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	**99**		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	<25		25
84-74-2	Di-n-Butylphthalate	**43**		25
117-84-0	Di-n-Octylphthalate	**27**		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226821
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	<25		25
86-73-7	Fluorene	<25		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	<25		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	<25		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	<25		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	<25		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226821
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-07

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226822
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<5.0		5.0
208-96-8	Acenaphthylene	<5.0		5.0
120-12-7	Anthracene	<5.0		5.0
56-55-3	Benzo (a) Anthracene	<5.0		5.0
50-32-8	Benzo (a) Pyrene	<5.0		5.0
56832-73-6	Benzo (b&k) Fluoranthene	<5.0		5.0
191-24-2	Benzo (g,h,i,) Perylene	<5.0		5.0
65-85-0	Benzoic Acid	<50		50
100-51-6	Benzyl Alcohol	<50		50
111-91-1	Bis (2-Chloroethoxy)-Methane	<5.0		5.0
111-44-4	Bis (2-Chloroethyl) Ether	<5.0		5.0
108-60-1	Bis (2-Chloroisopropyl)-Ether	<5.0		5.0
117-81-7	Bis (2-ethylhexyl)-Phthalate	<5.0		5.0
101-55-3	4-Bromophenyl Phenylether	<5.0		5.0
85-68-7	Butyl Benzyl Phthalate	<5.0		5.0
59-50-7	4-Chloro-3-Methylphenol	<5.0		5.0
106-47-8	4-Chloroaniline	<20		20
91-58-7	2-Chloronaphthalene	<5.0		5.0
95-57-8	2-Chlorophenol	<5.0		5.0
7005-72-3	4-Chlorophenylphenyl-Ether	<5.0		5.0
218-01-9	Chrysene	<5.0		5.0
84-74-2	Di-n-Butylphthalate	<5.0		5.0
117-84-0	Di-n-Octylphthalate	<5.0		5.0
53-70-3	Dibenzo (a,h) Anthracene	<5.0		5.0
132-64-9	Dibenzofuran	<5.0		5.0
95-50-1	1,2-Dichlorobenzene	<5.0		5.0
541-73-1	1,3-Dichlorobenzene	<5.0		5.0
106-46-7	1,4-Dichlorobenzene	<5.0		5.0
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<5.0		5.0
84-66-2	Diethylphthalate	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-07

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226822
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<5.0		5.0
105-67-9	2,4-Dimethylphenol	<5.0		5.0
534-52-1	4,6-Dinitro-2-Methylphenol	<20		20
51-28-5	2,4-Dinitrophenol	<20		20
121-14-2	2,4-Dinitrotoluene	<5.0		5.0
606-20-2	2,6-Dinitrotoluene	<5.0		5.0
206-44-0	Fluoranthene	<5.0		5.0
86-73-7	Fluorene	<5.0		5.0
118-74-1	Hexachlorobenzene	<5.0		5.0
87-68-3	Hexachlorobutadiene	<5.0		5.0
77-47-4	Hexachlorocyclopentadiene	<5.0		5.0
67-72-1	Hexachloroethane	<5.0		5.0
193-39-5	Indeno (1,2,3-cd) Pyrene	<5.0		5.0
78-59-1	Isophorone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
95-48-7	2-Methylphenol	<5.0		5.0
106-44-5	4-Methylphenol	**46**		5.0
621-64-7	N-Nitrosodi-n-Propylamine	<5.0		5.0
86-30-6	N-Nitroso-di-Phenylamine	<5.0		5.0
91-20-3	Naphthalene	<5.0		5.0
88-74-4	2-Nitroaniline	<20		20
99-09-2	3-Nitroaniline	<20		20
100-01-6	4-Nitroaniline	<20		20
98-95-3	Nitrobenzene	<5.0		5.0
88-75-5	2-Nitrophenol	<5.0		5.0
100-02-7	4-Nitrophenol	<20		20
87-86-5	Pentachlorophenol	<20		20
85-01-8	Phenanthrene	<5.0		5.0
108-95-2	Phenol	<5.0		5.0
129-00-0	Pyrene	<5.0		5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0		5.0
95-95-4	2,4,5-Trichlorophenol	<50		50
88-06-2	2,4,6-Trichlorophenol	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-04

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 12:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226824
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	**43**		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	**42**		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	**28**		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-04

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 12:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226824
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	**26**		25
86-73-7	Fluorene	<25		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	<25		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	<25		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	**100**		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	**57**		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-05

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226825
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	**87**		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	<25		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	**26**		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-05

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226825
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	<25		25
86-73-7	Fluorene	**61**		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	**530**		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	**270**		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	**240**		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	<25		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-05

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226825
Batch No: 144673

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<22		22
121-14-2	2,4-Dinitrotoluene	<22		22
118-74-1	Hexachlorobenzene	<22		22
87-68-3	Hexachlorobutadiene	<22		22
67-72-1	Hexachloroethane	<22		22
98-95-3	Nitrobenzene	<22		22
87-86-5	Pentachlorophenol	<22		22
88-06-2	2,4,6-Trichlorophenol	<22		22
95-95-4	2,4,5-Trichlorophenol	<22		22
95-48-7	2-Methylphenol	<22		22
108-39-4	3 & 4 Methylphenol	<22		22
110-86-1	Pyridine	<22		22

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-01

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226826
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<5.0		5.0
208-96-8	Acenaphthylene	<5.0		5.0
120-12-7	Anthracene	<5.0		5.0
56-55-3	Benzo (a) Anthracene	<5.0		5.0
50-32-8	Benzo (a) Pyrene	<5.0		5.0
56832-73-6	Benzo (b&k) Fluoranthene	<5.0		5.0
191-24-2	Benzo (g,h,i,) Perylene	<5.0		5.0
65-85-0	Benzoic Acid	<50		50
100-51-6	Benzyl Alcohol	<50		50
111-91-1	Bis (2-Chloroethoxy)-Methane	<5.0		5.0
111-44-4	Bis (2-Chloroethyl) Ether	<5.0		5.0
108-60-1	Bis (2-Chloroisopropyl)-Ether	<5.0		5.0
117-81-7	Bis (2-ethylhexyl)-Phthalate	<5.0		5.0
101-55-3	4-Bromophenyl Phenylether	<5.0		5.0
85-68-7	Butyl Benzyl Phthalate	<5.0		5.0
59-50-7	4-Chloro-3-Methylphenol	<5.0		5.0
106-47-8	4-Chloroaniline	<20		20
91-58-7	2-Chloronaphthalene	<5.0		5.0
95-57-8	2-Chlorophenol	<5.0		5.0
7005-72-3	4-Chlorophenylphenyl-Ether	<5.0		5.0
218-01-9	Chrysene	<5.0		5.0
84-74-2	Di-n-Butylphthalate	<5.0		5.0
117-84-0	Di-n-Octylphthalate	<5.0		5.0
53-70-3	Dibenzo (a,h) Anthracene	<5.0		5.0
132-64-9	Dibenzofuran	<5.0		5.0
95-50-1	1,2-Dichlorobenzene	<5.0		5.0
541-73-1	1,3-Dichlorobenzene	<5.0		5.0
106-46-7	1,4-Dichlorobenzene	<5.0		5.0
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<5.0		5.0
84-66-2	Diethylphthalate	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-01

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226826
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<5.0		5.0
105-67-9	2,4-Dimethylphenol	<5.0		5.0
534-52-1	4,6-Dinitro-2-Methylphenol	<20		20
51-28-5	2,4-Dinitrophenol	<20		20
121-14-2	2,4-Dinitrotoluene	<5.0		5.0
606-20-2	2,6-Dinitrotoluene	<5.0		5.0
206-44-0	Fluoranthene	<5.0		5.0
86-73-7	Fluorene	<5.0		5.0
118-74-1	Hexachlorobenzene	<5.0		5.0
87-68-3	Hexachlorobutadiene	<5.0		5.0
77-47-4	Hexachlorocyclopentadiene	<5.0		5.0
67-72-1	Hexachloroethane	<5.0		5.0
193-39-5	Indeno (1,2,3-cd) Pyrene	<5.0		5.0
78-59-1	Isophorone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
95-48-7	2-Methylphenol	<5.0		5.0
106-44-5	4-Methylphenol	<5.0		5.0
621-64-7	N-Nitrosodi-n-Propylamine	<5.0		5.0
86-30-6	N-Nitroso-di-Phenylamine	<5.0		5.0
91-20-3	Naphthalene	<5.0		5.0
88-74-4	2-Nitroaniline	<20		20
99-09-2	3-Nitroaniline	<20		20
100-01-6	4-Nitroaniline	<20		20
98-95-3	Nitrobenzene	<5.0		5.0
88-75-5	2-Nitrophenol	<5.0		5.0
100-02-7	4-Nitrophenol	<20		20
87-86-5	Pentachlorophenol	<20		20
85-01-8	Phenanthrene	<5.0		5.0
108-95-2	Phenol	<5.0		5.0
129-00-0	Pyrene	<5.0		5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0		5.0
95-95-4	2,4,5-Trichlorophenol	<50		50
88-06-2	2,4,6-Trichlorophenol	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 09:40
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226827
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<5.0		5.0
208-96-8	Acenaphthylene	<5.0		5.0
120-12-7	Anthracene	<5.0		5.0
56-55-3	Benzo (a) Anthracene	<5.0		5.0
50-32-8	Benzo (a) Pyrene	<5.0		5.0
56832-73-6	Benzo (b&k) Fluoranthene	<5.0		5.0
191-24-2	Benzo (g,h,i,) Perylene	<5.0		5.0
65-85-0	Benzoic Acid	<50		50
100-51-6	Benzyl Alcohol	<50		50
111-91-1	Bis (2-Chloroethoxy)-Methane	<5.0		5.0
111-44-4	Bis (2-Chloroethyl) Ether	<5.0		5.0
108-60-1	Bis (2-Chloroisopropyl)-Ether	<5.0		5.0
117-81-7	Bis (2-ethylhexyl)-Phthalate	<5.0		5.0
101-55-3	4-Bromophenyl Phenylether	<5.0		5.0
85-68-7	Butyl Benzyl Phthalate	<5.0		5.0
59-50-7	4-Chloro-3-Methylphenol	<5.0		5.0
106-47-8	4-Chloroaniline	<20		20
91-58-7	2-Chloronaphthalene	<5.0		5.0
95-57-8	2-Chlorophenol	<5.0		5.0
7005-72-3	4-Chlorophenylphenyl-Ether	<5.0		5.0
218-01-9	Chrysene	<5.0		5.0
84-74-2	Di-n-Butylphthalate	<5.0		5.0
117-84-0	Di-n-Octylphthalate	<5.0		5.0
53-70-3	Dibenzo (a,h) Anthracene	<5.0		5.0
132-64-9	Dibenzofuran	<5.0		5.0
95-50-1	1,2-Dichlorobenzene	<5.0		5.0
541-73-1	1,3-Dichlorobenzene	<5.0		5.0
106-46-7	1,4-Dichlorobenzene	<5.0		5.0
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<5.0		5.0
84-66-2	Diethylphthalate	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 09:40
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226827
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<5.0		5.0
105-67-9	2,4-Dimethylphenol	<5.0		5.0
534-52-1	4,6-Dinitro-2-Methylphenol	<20		20
51-28-5	2,4-Dinitrophenol	<20		20
121-14-2	2,4-Dinitrotoluene	<5.0		5.0
606-20-2	2,6-Dinitrotoluene	<5.0		5.0
206-44-0	Fluoranthene	<5.0		5.0
86-73-7	Fluorene	<5.0		5.0
118-74-1	Hexachlorobenzene	<5.0		5.0
87-68-3	Hexachlorobutadiene	<5.0		5.0
77-47-4	Hexachlorocyclopentadiene	<5.0		5.0
67-72-1	Hexachloroethane	<5.0		5.0
193-39-5	Indeno (1,2,3-cd) Pyrene	<5.0		5.0
78-59-1	Isophorone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
95-48-7	2-Methylphenol	<5.0		5.0
106-44-5	4-Methylphenol	<5.0		5.0
621-64-7	N-Nitrosodi-n-Propylamine	<5.0		5.0
86-30-6	N-Nitroso-di-Phenylamine	<5.0		5.0
91-20-3	Naphthalene	<5.0		5.0
88-74-4	2-Nitroaniline	<20		20
99-09-2	3-Nitroaniline	<20		20
100-01-6	4-Nitroaniline	<20		20
98-95-3	Nitrobenzene	<5.0		5.0
88-75-5	2-Nitrophenol	<5.0		5.0
100-02-7	4-Nitrophenol	<20		20
87-86-5	Pentachlorophenol	*<20	J	20
85-01-8	Phenanthrene	<5.0		5.0
108-95-2	Phenol	<5.0		5.0
129-00-0	Pyrene	<5.0		5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0		5.0
95-95-4	2,4,5-Trichlorophenol	<50		50
88-06-2	2,4,6-Trichlorophenol	<5.0		5.0

* See attached Statement of Data Qualifications.

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226828
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<5.0		5.0
208-96-8	Acenaphthylene	<5.0		5.0
120-12-7	Anthracene	<5.0		5.0
56-55-3	Benzo (a) Anthracene	<5.0		5.0
50-32-8	Benzo (a) Pyrene	<5.0		5.0
56832-73-6	Benzo (b&k) Fluoranthene	<5.0		5.0
191-24-2	Benzo (g,h,i,) Perylene	<5.0		5.0
65-85-0	Benzoic Acid	<50		50
100-51-6	Benzyl Alcohol	<50		50
111-91-1	Bis (2-Chloroethoxy)-Methane	<5.0		5.0
111-44-4	Bis (2-Chloroethyl) Ether	<5.0		5.0
108-60-1	Bis (2-Chloroisopropyl)-Ether	<5.0		5.0
117-81-7	Bis (2-ethylhexyl)-Phthalate	<5.0		5.0
101-55-3	4-Bromophenyl Phenylether	<5.0		5.0
85-68-7	Butyl Benzyl Phthalate	<5.0		5.0
59-50-7	4-Chloro-3-Methylphenol	<5.0		5.0
106-47-8	4-Chloroaniline	<20		20
91-58-7	2-Chloronaphthalene	<5.0		5.0
95-57-8	2-Chlorophenol	<5.0		5.0
7005-72-3	4-Chlorophenylphenyl-Ether	<5.0		5.0
218-01-9	Chrysene	<5.0		5.0
84-74-2	Di-n-Butylphthalate	<5.0		5.0
117-84-0	Di-n-Octylphthalate	<5.0		5.0
53-70-3	Dibenzo (a,h) Anthracene	<5.0		5.0
132-64-9	Dibenzofuran	<5.0		5.0
95-50-1	1,2-Dichlorobenzene	<5.0		5.0
541-73-1	1,3-Dichlorobenzene	<5.0		5.0
106-46-7	1,4-Dichlorobenzene	<5.0		5.0
91-94-1	3,3'-Dichlorobenzidine	<20		20
120-83-2	2,4-Dichlorophenol	<5.0		5.0
84-66-2	Diethylphthalate	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226828
Batch No: 144617

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<5.0		5.0
105-67-9	2,4-Dimethylphenol	<5.0		5.0
534-52-1	4,6-Dinitro-2-Methylphenol	<20		20
51-28-5	2,4-Dinitrophenol	<20		20
121-14-2	2,4-Dinitrotoluene	<5.0		5.0
606-20-2	2,6-Dinitrotoluene	<5.0		5.0
206-44-0	Fluoranthene	<5.0		5.0
86-73-7	Fluorene	<5.0		5.0
118-74-1	Hexachlorobenzene	<5.0		5.0
87-68-3	Hexachlorobutadiene	<5.0		5.0
77-47-4	Hexachlorocyclopentadiene	<5.0		5.0
67-72-1	Hexachloroethane	<5.0		5.0
193-39-5	Indeno (1,2,3-cd) Pyrene	<5.0		5.0
78-59-1	Isophorone	<5.0		5.0
91-57-6	2-Methylnaphthalene	<5.0		5.0
95-48-7	2-Methylphenol	<5.0		5.0
106-44-5	4-Methylphenol	<5.0		5.0
621-64-7	N-Nitrosodi-n-Propylamine	<5.0		5.0
86-30-6	N-Nitroso-di-Phenylamine	<5.0		5.0
91-20-3	Naphthalene	<5.0		5.0
88-74-4	2-Nitroaniline	<20		20
99-09-2	3-Nitroaniline	<20		20
100-01-6	4-Nitroaniline	<20		20
98-95-3	Nitrobenzene	<5.0		5.0
88-75-5	2-Nitrophenol	<5.0		5.0
100-02-7	4-Nitrophenol	<20		20
87-86-5	Pentachlorophenol	<20		20
85-01-8	Phenanthrene	<5.0		5.0
108-95-2	Phenol	<5.0		5.0
129-00-0	Pyrene	<5.0		5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0		5.0
95-95-4	2,4,5-Trichlorophenol	<50		50
88-06-2	2,4,6-Trichlorophenol	<5.0		5.0

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-16

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226829
Batch No: 144641

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<0.83		0.83
208-96-8	Acenaphthylene	<0.83		0.83
120-12-7	Anthracene	<0.83		0.83
56-55-3	Benzo (a) Anthracene	<0.83		0.83
50-32-8	Benzo (a) Pyrene	<0.83		0.83
56832-73-6	Benzo (b&k) Fluoranthene	<0.83		0.83
191-24-2	Benzo (g,h,i,) Perylene	<0.83		0.83
65-85-0	Benzoic Acid	<8.3		8.3
100-51-6	Benzyl Alcohol	<3.3		3.3
111-91-1	Bis (2-Chloroethoxy)-Methane	<0.83		0.83
111-44-4	Bis (2-Chloroethyl) Ether	<0.83		0.83
108-60-1	Bis (2-Chloroisopropyl)-Ether	<0.83		0.83
117-81-7	Bis (2-ethylhexyl)-Phthalate	<0.83		0.83
101-55-3	4-Bromophenyl Phenylether	<0.83		0.83
85-68-7	Butyl Benzyl Phthalate	<0.83		0.83
59-50-7	4-Chloro-3-Methylphenol	<0.83		0.83
106-47-8	4-Chloroaniline	<3.3		3.3
91-58-7	2-Chloronaphthalene	<0.83		0.83
95-57-8	2-Chlorophenol	<0.83		0.83
7005-72-3	4-Chlorophenylphenyl-Ether	<0.83		0.83
218-01-9	Chrysene	<0.83		0.83
84-74-2	Di-n-Butylphthalate	<0.83		0.83
117-84-0	Di-n-Octylphthalate	<0.83		0.83
53-70-3	Dibenzo (a,h) Anthracene	<0.83		0.83
132-64-9	Dibenzofuran	<0.83		0.83
95-50-1	1,2-Dichlorobenzene	<0.83		0.83
541-73-1	1,3-Dichlorobenzene	<0.83		0.83
106-46-7	1,4-Dichlorobenzene	<0.83		0.83
91-94-1	3,3'-Dichlorobenzidine	<5.0		5.0
120-83-2	2,4-Dichlorophenol	<0.83		0.83
84-66-2	Diethylphthalate	<0.83		0.83

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-16

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226829
Batch No: 144641

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<0.83		0.83
105-67-9	2,4-Dimethylphenol	<0.83		0.83
534-52-1	4,6-Dinitro-2-Methylphenol	<4.3		4.3
51-28-5	2,4-Dinitrophenol	<4.3		4.3
121-14-2	2,4-Dinitrotoluene	<0.83		0.83
606-20-2	2,6-Dinitrotoluene	<0.83		0.83
206-44-0	Fluoranthene	<0.83		0.83
86-73-7	Fluorene	<0.83		0.83
118-74-1	Hexachlorobenzene	<0.83		0.83
87-68-3	Hexachlorobutadiene	<0.83		0.83
77-47-4	Hexachlorocyclopentadiene	<0.83		0.83
67-72-1	Hexachloroethane	<0.83		0.83
193-39-5	Indeno (1,2,3-cd) Pyrene	<0.83		0.83
78-59-1	Isophorone	<0.83		0.83
91-57-6	2-Methylnaphthalene	<0.83		0.83
95-48-7	2-Methylphenol	<0.83		0.83
106-44-5	4-Methylphenol	<0.83		0.83
621-64-7	N-Nitrosodi-n-Propylamine	<0.83		0.83
86-30-6	N-Nitroso-di-Phenylamine	<0.83		0.83
91-20-3	Naphthalene	<0.83		0.83
88-74-4	2-Nitroaniline	<4.3		4.3
99-09-2	3-Nitroaniline	<4.3		4.3
100-01-6	4-Nitroaniline	<4.3		4.3
98-95-3	Nitrobenzene	<0.83		0.83
88-75-5	2-Nitrophenol	<0.83		0.83
100-02-7	4-Nitrophenol	<4.3		4.3
87-86-5	Pentachlorophenol	<4.3		4.3
85-01-8	Phenanthrene	<0.83		0.83
108-95-2	Phenol	<0.83		0.83
129-00-0	Pyrene	<0.83		0.83
120-82-1	1,2,4-Trichlorobenzene	<0.83		0.83
95-95-4	2,4,5-Trichlorophenol	<4.3		4.3
88-06-2	2,4,6-Trichlorophenol	<0.83		0.83

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-16

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226829
Batch No: 144640

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-17

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226830
Batch No: 144641

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<6.8		6.8
208-96-8	Acenaphthylene	<6.8		6.8
120-12-7	Anthracene	<6.8		6.8
56-55-3	Benzo (a) Anthracene	<6.8		6.8
50-32-8	Benzo (a) Pyrene	<6.8		6.8
56832-73-6	Benzo (b&k) Fluoranthene	<6.8		6.8
191-24-2	Benzo (g,h,i,) Perylene	<6.8		6.8
65-85-0	Benzoic Acid	<68		68
100-51-6	Benzyl Alcohol	<27		27
111-91-1	Bis (2-Chloroethoxy)-Methane	<6.8		6.8
111-44-4	Bis (2-Chloroethyl) Ether	<6.8		6.8
108-60-1	Bis (2-Chloroisopropyl)-Ether	<6.8		6.8
117-81-7	Bis (2-ethylhexyl)-Phthalate	<6.8		6.8
101-55-3	4-Bromophenyl Phenylether	<6.8		6.8
85-68-7	Butyl Benzyl Phthalate	<6.8		6.8
59-50-7	4-Chloro-3-Methylphenol	<6.8		6.8
106-47-8	4-Chloroaniline	<27		27
91-58-7	2-Chloronaphthalene	<6.8		6.8
95-57-8	2-Chlorophenol	<6.8		6.8
7005-72-3	4-Chlorophenylphenyl-Ether	<6.8		6.8
218-01-9	Chrysene	7.1		6.8
84-74-2	Di-n-Butylphthalate	<6.8		6.8
117-84-0	Di-n-Octylphthalate	<6.8		6.8
53-70-3	Dibenzo (a,h) Anthracene	<6.8		6.8
132-64-9	Dibenzofuran	<6.8		6.8
95-50-1	1,2-Dichlorobenzene	<6.8		6.8
541-73-1	1,3-Dichlorobenzene	<6.8		6.8
106-46-7	1,4-Dichlorobenzene	<6.8		6.8
91-94-1	3,3'-Dichlorobenzidine	<41		41
120-83-2	2,4-Dichlorophenol	<6.8		6.8
84-66-2	Diethylphthalate	<6.8		6.8

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TriMatrix Laboratories, Inc.

SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-17

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226830
Batch No: 144641

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<6.8		6.8
105-67-9	2,4-Dimethylphenol	<6.8		6.8
534-52-1	4,6-Dinitro-2-Methylphenol	<35		35
51-28-5	2,4-Dinitrophenol	<35		35
121-14-2	2,4-Dinitrotoluene	<6.8		6.8
606-20-2	2,6-Dinitrotoluene	<6.8		6.8
206-44-0	Fluoranthene	<6.8		6.8
86-73-7	Fluorene	<6.8		6.8
118-74-1	Hexachlorobenzene	<6.8		6.8
87-68-3	Hexachlorobutadiene	<6.8		6.8
77-47-4	Hexachlorocyclopentadiene	<6.8		6.8
67-72-1	Hexachloroethane	<6.8		6.8
193-39-5	Indeno (1,2,3-cd) Pyrene	<6.8		6.8
78-59-1	Isophorone	<6.8		6.8
91-57-6	2-Methylnaphthalene	<6.8		6.8
95-48-7	2-Methylphenol	<6.8		6.8
106-44-5	4-Methylphenol	<6.8		6.8
621-64-7	N-Nitrosodi-n-Propylamine	<6.8		6.8
86-30-6	N-Nitroso-di-Phenylamine	<6.8		6.8
91-20-3	Naphthalene	<6.8		6.8
88-74-4	2-Nitroaniline	<35		35
99-09-2	3-Nitroaniline	<35		35
100-01-6	4-Nitroaniline	<35		35
98-95-3	Nitrobenzene	<6.8		6.8
88-75-5	2-Nitrophenol	<6.8		6.8
100-02-7	4-Nitrophenol	<35		35
87-86-5	Pentachlorophenol	<35		35
85-01-8	Phenanthrene	<6.8		6.8
108-95-2	Phenol	<6.8		6.8
129-00-0	Pyrene	<6.8		6.8
120-82-1	1,2,4-Trichlorobenzene	<6.8		6.8
95-95-4	2,4,5-Trichlorophenol	<35		35
88-06-2	2,4,6-Trichlorophenol	<6.8		6.8

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TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-17

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226830
Batch No: 144615

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226831
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
83-32-9	Acenaphthene	<25		25
208-96-8	Acenaphthylene	<25		25
120-12-7	Anthracene	<25		25
56-55-3	Benzo (a) Anthracene	<25		25
50-32-8	Benzo (a) Pyrene	<25		25
56832-73-6	Benzo (b&k) Fluoranthene	<25		25
191-24-2	Benzo (g,h,i,) Perylene	<25		25
65-85-0	Benzoic Acid	<500		500
100-51-6	Benzyl Alcohol	<500		500
111-91-1	Bis (2-Chloroethoxy)-Methane	<25		25
111-44-4	Bis (2-Chloroethyl) Ether	<25		25
108-60-1	Bis (2-Chloroisopropyl)-Ether	<25		25
117-81-7	Bis (2-ethylhexyl)-Phthalate	<25		25
101-55-3	4-Bromophenyl Phenylether	<25		25
85-68-7	Butyl Benzyl Phthalate	<25		25
59-50-7	4-Chloro-3-Methylphenol	<25		25
106-47-8	4-Chloroaniline	<25		25
91-58-7	2-Chloronaphthalene	<25		25
95-57-8	2-Chlorophenol	<25		25
7005-72-3	4-Chlorophenylphenyl-Ether	<25		25
218-01-9	Chrysene	<25		25
84-74-2	Di-n-Butylphthalate	<25		25
117-84-0	Di-n-Octylphthalate	<25		25
53-70-3	Dibenzo (a,h) Anthracene	<25		25
132-64-9	Dibenzofuran	<25		25
95-50-1	1,2-Dichlorobenzene	<25		25
541-73-1	1,3-Dichlorobenzene	<25		25
106-46-7	1,4-Dichlorobenzene	<25		25
91-94-1	3,3'-Dichlorobenzidine	<25		25
120-83-2	2,4-Dichlorophenol	<25		25
84-66-2	Diethylphthalate	<25		25

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SEMI-VOLATILE ORGANICS
USEPA-8270 B/N/A SCAN

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/18/99
Lab Sample No: 226831
Batch No: 144720

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
131-11-3	Dimethylphthalate	<25		25
105-67-9	2,4-Dimethylphenol	<25		25
534-52-1	4,6-Dinitro-2-Methylphenol	<200		200
51-28-5	2,4-Dinitrophenol	<200		200
121-14-2	2,4-Dinitrotoluene	<25		25
606-20-2	2,6-Dinitrotoluene	<25		25
206-44-0	Fluoranthene	<25		25
86-73-7	Fluorene	<25		25
118-74-1	Hexachlorobenzene	<25		25
87-68-3	Hexachlorobutadiene	<25		25
77-47-4	Hexachlorocyclopentadiene	<25		25
67-72-1	Hexachloroethane	<25		25
193-39-5	Indeno (1,2,3-cd) Pyrene	<25		25
78-59-1	Isophorone	<25		25
91-57-6	2-Methylnaphthalene	<25		25
95-48-7	2-Methylphenol	<25		25
106-44-5	4-Methylphenol	<25		25
621-64-7	N-Nitrosodi-n-Propylamine	<25		25
86-30-6	N-Nitroso-di-Phenylamine	<25		25
91-20-3	Naphthalene	<25		25
88-74-4	2-Nitroaniline	<25		25
99-09-2	3-Nitroaniline	<25		25
100-01-6	4-Nitroaniline	<25		25
98-95-3	Nitrobenzene	<25		25
88-75-5	2-Nitrophenol	<25		25
100-02-7	4-Nitrophenol	<200		200
87-86-5	Pentachlorophenol	<25		25
85-01-8	Phenanthrene	<25		25
108-95-2	Phenol	<25		25
129-00-0	Pyrene	<25		25
120-82-1	1,2,4-Trichlorobenzene	<25		25
95-95-4	2,4,5-Trichlorophenol	<25		25
88-06-2	2,4,6-Trichlorophenol	<25		25

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TriMatrix Laboratories, Inc.

TCLP SEMI-VOLATILES
USEPA METHOD 8270

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226831
Batch No: 144615

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
106-46-7	1,4-Dichlorobenzene	<0.005		0.005
121-14-2	2,4-Dinitrotoluene	<0.005		0.005
118-74-1	Hexachlorobenzene	<0.005		0.005
87-68-3	Hexachlorobutadiene	<0.005		0.005
67-72-1	Hexachloroethane	<0.005		0.005
98-95-3	Nitrobenzene	<0.005		0.005
87-86-5	Pentachlorophenol	<0.005		0.005
88-06-2	2,4,6-Trichlorophenol	<0.005		0.005
95-95-4	2,4,5-Trichlorophenol	<0.005		0.005
95-48-7	2-Methylphenol	<0.005		0.005
108-39-4	3 & 4 Methylphenol	<0.005		0.005
110-86-1	Pyridine	<0.005		0.005

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TriMatrix Laboratories, Inc.

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226802
Batch No: 144722

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.010		0.010
74-83-9	Bromomethane	<0.010		0.010
75-01-4	Vinyl Chloride	<0.010		0.010
75-00-3	Chloroethane	<0.010		0.010
75-09-2	Methylene Chloride	<0.010		0.010
67-64-1	Acetone	<0.10		0.10
75-15-0	Carbon Disulfide	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.010		0.010
75-34-3	1,1-Dichloroethane	<0.010		0.010
156-59-2	cis-1,2-Dichloroethene	<0.010		0.010
156-60-5	trans-1,2-Dichloroethene	<0.010		0.010
67-66-3	Chloroform	<0.010		0.010
107-06-2	1,2-Dichloroethane	<0.010		0.010
79-01-6	Trichloroethene	<0.010		0.010
78-93-3	Methyl Ethyl Ketone	<0.10		0.10
71-55-6	1,1,1-Trichloroethane	<0.010		0.010
56-23-5	Carbon Tetrachloride	<0.010		0.010
75-27-4	Dichlorobromomethane	<0.010		0.010
79-34-5	1,1,2,2-Tetrachloroethane	<0.010		0.010
78-87-5	1,2-Dichloropropane	<0.010		0.010
10061-02-6	trans-1,3-Dichloropropene	<0.010		0.010
124-48-1	Chlorodibromomethane	<0.010		0.010
79-00-5	1,1,2-Trichloroethane	<0.010		0.010
71-43-2	Benzene	<0.010		0.010
10061-01-5	cis-1,3-Dichloropropene	<0.010		0.010
75-25-2	Bromoform	<0.010		0.010
591-78-6	2-Hexanone	<0.10		0.10
108-10-1	4-Methyl-2-Pentanone	<0.10		0.10
127-18-4	Tetrachloroethene	<0.010		0.010
108-88-3	Toluene	<0.010		0.010
108-90-7	Chlorobenzene	<0.010		0.010
100-41-4	Ethylbenzene	<0.010		0.010
100-42-5	Styrene	<0.010		0.010
1330-20-7	Xylene (Total)	<0.030		0.030

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TriMatrix Laboratories, Inc.

TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/15/99
Lab Sample No: 226802
Batch No: 144645

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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TriMatrix Laboratories, Inc.

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-02

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226803
Batch No: 144793

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.11		0.11
74-83-9	Bromomethane	<0.11		0.11
75-01-4	Vinyl Chloride	<0.11		0.11
75-00-3	Chloroethane	<0.11		0.11
75-09-2	Methylene Chloride	<0.11		0.11
67-64-1	Acetone	<1.1		1.1
75-15-0	Carbon Disulfide	<1.1		1.1
75-35-4	1,1-Dichloroethylene	<0.11		0.11
75-34-3	1,1-Dichloroethane	<0.11		0.11
156-59-2	cis-1,2-Dichloroethene	<0.11		0.11
156-60-5	trans-1,2-Dichloroethene	<0.11		0.11
67-66-3	Chloroform	<0.11		0.11
107-06-2	1,2-Dichloroethane	<0.11		0.11
79-01-6	Trichloroethene	<0.11		0.11
78-93-3	Methyl Ethyl Ketone	<1.1		1.1
71-55-6	1,1,1-Trichloroethane	<0.11		0.11
56-23-5	Carbon Tetrachloride	<0.11		0.11
75-27-4	Dichlorobromomethane	<0.11		0.11
79-34-5	1,1,2,2-Tetrachloroethane	<0.11		0.11
78-87-5	1,2-Dichloropropane	<0.11		0.11
10061-02-6	trans-1,3-Dichloropropene	<0.11		0.11
124-48-1	Chlorodibromomethane	<0.11		0.11
79-00-5	1,1,2-Trichloroethane	<0.11		0.11
71-43-2	Benzene	<0.11		0.11
10061-01-5	cis-1,3-Dichloropropene	<0.11		0.11
75-25-2	Bromoform	<0.11		0.11
591-78-6	2-Hexanone	<1.1		1.1
108-10-1	4-Methyl-2-Pentanone	<1.1		1.1
127-18-4	Tetrachloroethene	<0.11		0.11
108-88-3	Toluene	<0.11		0.11
108-90-7	Chlorobenzene	<0.11		0.11
100-41-4	Ethylbenzene	<0.11		0.11
100-42-5	Styrene	<0.11		0.11
1330-20-7	Xylene (Total)	<0.33		0.33

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-02

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226803
Batch No: 144645

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-03

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226804
Batch No: 144793

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.53		0.53
74-83-9	Bromomethane	<0.53		0.53
75-01-4	Vinyl Chloride	<0.53		0.53
75-00-3	Chloroethane	<0.53		0.53
75-09-2	Methylene Chloride	<0.53		0.53
67-64-1	Acetone	<5.3		5.3
75-15-0	Carbon Disulfide	<5.3		5.3
75-35-4	1,1-Dichloroethylene	<0.53		0.53
75-34-3	1,1-Dichloroethane	<0.53		0.53
156-59-2	cis-1,2-Dichloroethene	<0.53		0.53
156-60-5	trans-1,2-Dichloroethene	<0.53		0.53
67-66-3	Chloroform	<0.53		0.53
107-06-2	1,2-Dichloroethane	<0.53		0.53
79-01-6	Trichloroethene	<0.53		0.53
78-93-3	Methyl Ethyl Ketone	<5.3		5.3
71-55-6	1,1,1-Trichloroethane	<0.53		0.53
56-23-5	Carbon Tetrachloride	<0.53		0.53
75-27-4	Dichlorobromomethane	<0.53		0.53
79-34-5	1,1,2,2-Tetrachloroethane	<0.53		0.53
78-87-5	1,2-Dichloropropane	<0.53		0.53
10061-02-6	trans-1,3-Dichloropropene	<0.53		0.53
124-48-1	Chlorodibromomethane	<0.53		0.53
79-00-5	1,1,2-Trichloroethane	<0.53		0.53
71-43-2	Benzene	<0.53		0.53
10061-01-5	cis-1,3-Dichloropropene	<0.53		0.53
75-25-2	Bromoform	<0.53		0.53
591-78-6	2-Hexanone	<5.3		5.3
108-10-1	4-Methyl-2-Pentanone	<5.3		5.3
127-18-4	Tetrachloroethene	<0.53		0.53
108-88-3	Toluene	<0.53		0.53
108-90-7	Chlorobenzene	<0.53		0.53
100-41-4	Ethylbenzene	<0.53		0.53
100-42-5	Styrene	<0.53		0.53
1330-20-7	Xylene (Total)	<1.6		1.6

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-03

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226804
Batch No: 144645

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-04

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226805
Batch No: 144793

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.066		0.066
74-83-9	Bromomethane	<0.066		0.066
75-01-4	Vinyl Chloride	<0.066		0.066
75-00-3	Chloroethane	<0.066		0.066
75-09-2	Methylene Chloride	<0.066		0.066
67-64-1	Acetone	**6.5**		0.66
75-15-0	Carbon Disulfide	<0.66		0.66
75-35-4	1,1-Dichloroethylene	<0.066		0.066
75-34-3	1,1-Dichloroethane	<0.066		0.066
156-59-2	cis-1,2-Dichloroethene	<0.066		0.066
156-60-5	trans-1,2-Dichloroethene	<0.066		0.066
67-66-3	Chloroform	<0.066		0.066
107-06-2	1,2-Dichloroethane	<0.066		0.066
79-01-6	Trichloroethene	<0.066		0.066
78-93-3	Methyl Ethyl Ketone	**1.2**		0.66
71-55-6	1,1,1-Trichloroethane	<0.066		0.066
56-23-5	Carbon Tetrachloride	<0.066		0.066
75-27-4	Dichlorobromomethane	<0.066		0.066
79-34-5	1,1,2,2-Tetrachloroethane	<0.066		0.066
78-87-5	1,2-Dichloropropane	<0.066		0.066
10061-02-6	trans-1,3-Dichloropropene	<0.066		0.066
124-48-1	Chlorodibromomethane	<0.066		0.066
79-00-5	1,1,2-Trichloroethane	<0.066		0.066
71-43-2	Benzene	<0.066		0.066
10061-01-5	cis-1,3-Dichloropropene	<0.066		0.066
75-25-2	Bromoform	<0.066		0.066
591-78-6	2-Hexanone	<0.66		0.66
108-10-1	4-Methyl-2-Pentanone	<0.66		0.66
127-18-4	Tetrachloroethene	<0.066		0.066
108-88-3	Toluene	<0.066		0.066
108-90-7	Chlorobenzene	<0.066		0.066
100-41-4	Ethylbenzene	**0.15**		0.066
100-42-5	Styrene	**0.13**		0.066
1330-20-7	Xylene (Total)	<0.20		0.20

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-04

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 09:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226805
Batch No: 144792

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-05

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226806
Batch No: 144793

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	**0.11**		0.10
74-83-9	Bromomethane	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10
75-00-3	Chloroethane	<0.10		0.10
75-09-2	Methylene Chloride	**0.20**		0.10
67-64-1	Acetone	<5.0		5.0
75-15-0	Carbon Disulfide	<0.20		0.20
75-35-4	1,1-Dichloroethylene	<0.10		0.10
75-34-3	1,1-Dichloroethane	**0.18**		0.10
156-59-2	cis-1,2-Dichloroethene	<0.10		0.10
156-60-5	trans-1,2-Dichloroethene	**0.16**		0.10
67-66-3	Chloroform	**0.11**		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
71-55-6	1,1,1-Trichloroethane	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
75-27-4	Dichlorobromomethane	<0.10		0.10
79-34-5	1,1,2,2-Tetrachloroethane	<0.10		0.10
78-87-5	1,2-Dichloropropane	<0.10		0.10
10061-02-6	trans-1,3-Dichloropropene	<0.10		0.10
124-48-1	Chlorodibromomethane	<0.10		0.10
79-00-5	1,1,2-Trichloroethane	<0.10		0.10
71-43-2	Benzene	**0.11**		0.10
10061-01-5	cis-1,3-Dichloropropene	<0.10		0.10
75-25-2	Bromoform	<0.10		0.10
591-78-6	2-Hexanone	<5.0		5.0
108-10-1	4-Methyl-2-Pentanone	<5.0		5.0
127-18-4	Tetrachloroethene	**0.11**		0.10
108-88-3	Toluene	**0.18**		0.10
108-90-7	Chlorobenzene	**0.12**		0.10
100-41-4	Ethylbenzene	**0.39**		0.10
100-42-5	Styrene	**0.11**		0.10
1330-20-7	Xylene (Total)	**1.4**		0.30

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-05

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226806
Batch No: 144792

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-06

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226807
Batch No: 144793

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<5.0		5.0
74-83-9	Bromomethane	<5.0		5.0
75-01-4	Vinyl Chloride	<5.0		5.0
75-00-3	Chloroethane	<5.0		5.0
75-09-2	Methylene Chloride	**6.9**		5.0
67-64-1	Acetone	<250		250
75-15-0	Carbon Disulfide	<10		10
75-35-4	1,1-Dichloroethylene	<5.0		5.0
75-34-3	1,1-Dichloroethane	<5.0		5.0
156-59-2	cis-1,2-Dichloroethene	<5.0		5.0
156-60-5	trans-1,2-Dichloroethene	<5.0		5.0
67-66-3	Chloroform	<5.0		5.0
107-06-2	1,2-Dichloroethane	<5.0		5.0
79-01-6	Trichloroethene	<5.0		5.0
78-93-3	Methyl Ethyl Ketone	<250		250
71-55-6	1,1,1-Trichloroethane	<5.0		5.0
56-23-5	Carbon Tetrachloride	<5.0		5.0
75-27-4	Dichlorobromomethane	<5.0		5.0
79-34-5	1,1,2,2-Tetrachloroethane	<5.0		5.0
78-87-5	1,2-Dichloropropane	<5.0		5.0
10061-02-6	trans-1,3-Dichloropropene	<5.0		5.0
124-48-1	Chlorodibromomethane	<5.0		5.0
79-00-5	1,1,2-Trichloroethane	<5.0		5.0
71-43-2	Benzene	**18**		5.0
10061-01-5	cis-1,3-Dichloropropene	<5.0		5.0
75-25-2	Bromoform	<5.0		5.0
591-78-6	2-Hexanone	<250		250
108-10-1	4-Methyl-2-Pentanone	<250		250
127-18-4	Tetrachloroethene	<5.0		5.0
108-88-3	Toluene	**40**		5.0
108-90-7	Chlorobenzene	<5.0		5.0
100-41-4	Ethylbenzene	**31**		5.0
100-42-5	Styrene	<5.0		5.0
1330-20-7	Xylene (Total)	**80**		15

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-06

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226807
Batch No: 144792

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	**0.30**		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-07

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:25
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226808
Batch No: 144807

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.062		0.062
74-83-9	Bromomethane	<0.062		0.062
75-01-4	Vinyl Chloride	<0.062		0.062
75-00-3	Chloroethane	<0.062		0.062
75-09-2	Methylene Chloride	<0.062		0.062
67-64-1	Acetone	**2.3**		0.62
75-15-0	Carbon Disulfide	<0.62		0.62
75-35-4	1,1-Dichloroethylene	<0.062		0.062
75-34-3	1,1-Dichloroethane	<0.062		0.062
156-59-2	cis-1,2-Dichloroethene	<0.062		0.062
156-60-5	trans-1,2-Dichloroethene	<0.062		0.062
67-66-3	Chloroform	<0.062		0.062
107-06-2	1,2-Dichloroethane	<0.062		0.062
79-01-6	Trichloroethene	<0.062		0.062
78-93-3	Methyl Ethyl Ketone	**0.78**		0.62
71-55-6	1,1,1-Trichloroethane	<0.062		0.062
56-23-5	Carbon Tetrachloride	<0.062		0.062
75-27-4	Dichlorobromomethane	<0.062		0.062
79-34-5	1,1,2,2-Tetrachloroethane	<0.062		0.062
78-87-5	1,2-Dichloropropane	<0.062		0.062
10061-02-6	trans-1,3-Dichloropropene	<0.062		0.062
124-48-1	Chlorodibromomethane	<0.062		0.062
79-00-5	1,1,2-Trichloroethane	<0.062		0.062
71-43-2	Benzene	<0.062		0.062
10061-01-5	cis-1,3-Dichloropropene	<0.062		0.062
75-25-2	Bromoform	<0.062		0.062
591-78-6	2-Hexanone	<0.62		0.62
108-10-1	4-Methyl-2-Pentanone	<0.62		0.62
127-18-4	Tetrachloroethene	<0.062		0.062
108-88-3	Toluene	**0.14**		0.062
108-90-7	Chlorobenzene	<0.062		0.062
100-41-4	Ethylbenzene	**0.12**		0.062
100-42-5	Styrene	<0.062		0.062
1330-20-7	Xylene (Total)	<0.19		0.19

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-07

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:25
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226808
Batch No: 144970

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-08

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226809
Batch No: 144796

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.50		0.50
74-83-9	Bromomethane	<0.50		0.50
75-01-4	Vinyl Chloride	<0.50		0.50
75-00-3	Chloroethane	<0.50		0.50
75-09-2	Methylene Chloride	<0.50		0.50
67-64-1	Acetone	<25		25
75-15-0	Carbon Disulfide	<1.0		1.0
75-35-4	1,1-Dichloroethylene	<0.50		0.50
75-34-3	1,1-Dichloroethane	<0.50		0.50
156-59-2	cis-1,2-Dichloroethene	<0.50		0.50
156-60-5	trans-1,2-Dichloroethene	<0.50		0.50
67-66-3	Chloroform	<0.50		0.50
107-06-2	1,2-Dichloroethane	<0.50		0.50
79-01-6	Trichloroethene	<0.50		0.50
78-93-3	Methyl Ethyl Ketone	<25		25
71-55-6	1,1,1-Trichloroethane	<0.50		0.50
56-23-5	Carbon Tetrachloride	<0.50		0.50
75-27-4	Dichlorobromomethane	<0.50		0.50
79-34-5	1,1,2,2-Tetrachloroethane	<0.50		0.50
78-87-5	1,2-Dichloropropane	<0.50		0.50
10061-02-6	trans-1,3-Dichloropropene	<0.50		0.50
124-48-1	Chlorodibromomethane	<0.50		0.50
79-00-5	1,1,2-Trichloroethane	<0.50		0.50
71-43-2	Benzene	**1.0**		0.50
10061-01-5	cis-1,3-Dichloropropene	<0.50		0.50
75-25-2	Bromoform	<0.50		0.50
591-78-6	2-Hexanone	<25		25
108-10-1	4-Methyl-2-Pentanone	<25		25
127-18-4	Tetrachloroethene	<0.50		0.50
108-88-3	Toluene	**3.4**		0.50
108-90-7	Chlorobenzene	<0.50		0.50
100-41-4	Ethylbenzene	**0.61**		0.50
100-42-5	Styrene	<0.50		0.50
1330-20-7	Xylene (Total)	**3.0**		1.5

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TriMatrix Laboratories, Inc.

TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-08

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226809
Batch No: 144816

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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TriMatrix Laboratories, Inc.

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-09

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226810
Batch No: 144796

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.053		0.053
74-83-9	Bromomethane	<0.053		0.053
75-01-4	Vinyl Chloride	<0.053		0.053
75-00-3	Chloroethane	<0.053		0.053
75-09-2	Methylene Chloride	<0.053		0.053
67-64-1	Acetone	<0.53		0.53
75-15-0	Carbon Disulfide	<0.53		0.53
75-35-4	1,1-Dichloroethylene	<0.053		0.053
75-34-3	1,1-Dichloroethane	<0.053		0.053
156-59-2	cis-1,2-Dichloroethene	<0.053		0.053
156-60-5	trans-1,2-Dichloroethene	<0.053		0.053
67-66-3	Chloroform	<0.053		0.053
107-06-2	1,2-Dichloroethane	<0.053		0.053
79-01-6	Trichloroethene	<0.053		0.053
78-93-3	Methyl Ethyl Ketone	<0.53		0.53
71-55-6	1,1,1-Trichloroethane	<0.053		0.053
56-23-5	Carbon Tetrachloride	<0.053		0.053
75-27-4	Dichlorobromomethane	<0.053		0.053
79-34-5	1,1,2,2-Tetrachloroethane	<0.053		0.053
78-87-5	1,2-Dichloropropane	<0.053		0.053
10061-02-6	trans-1,3-Dichloropropene	<0.053		0.053
124-48-1	Chlorodibromomethane	<0.053		0.053
79-00-5	1,1,2-Trichloroethane	<0.053		0.053
71-43-2	Benzene	<0.053		0.053
10061-01-5	cis-1,3-Dichloropropene	<0.053		0.053
75-25-2	Bromoform	<0.053		0.053
591-78-6	2-Hexanone	<0.53		0.53
108-10-1	4-Methyl-2-Pentanone	<0.53		0.53
127-18-4	Tetrachloroethene	<0.053		0.053
108-88-3	Toluene	**0.071**		0.053
108-90-7	Chlorobenzene	<0.053		0.053
100-41-4	Ethylbenzene	<0.053		0.053
100-42-5	Styrene	<0.053		0.053
1330-20-7	Xylene (Total)	<0.16		0.16

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-09

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 10:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226810
Batch No: 144816

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-10

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226811
Batch No: 144796

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.059		0.059
74-83-9	Bromomethane	<0.059		0.059
75-01-4	Vinyl Chloride	<0.059		0.059
75-00-3	Chloroethane	<0.059		0.059
75-09-2	Methylene Chloride	<0.059		0.059
67-64-1	Acetone	<0.59		0.59
75-15-0	Carbon Disulfide	<0.59		0.59
75-35-4	1,1-Dichloroethylene	<0.059		0.059
75-34-3	1,1-Dichloroethane	<0.059		0.059
156-59-2	cis-1,2-Dichloroethene	<0.059		0.059
156-60-5	trans-1,2-Dichloroethene	<0.059		0.059
67-66-3	Chloroform	<0.059		0.059
107-06-2	1,2-Dichloroethane	<0.059		0.059
79-01-6	Trichloroethene	<0.059		0.059
78-93-3	Methyl Ethyl Ketone	<0.59		0.59
71-55-6	1,1,1-Trichloroethane	<0.059		0.059
56-23-5	Carbon Tetrachloride	<0.059		0.059
75-27-4	Dichlorobromomethane	<0.059		0.059
79-34-5	1,1,2,2-Tetrachloroethane	<0.059		0.059
78-87-5	1,2-Dichloropropane	<0.059		0.059
10061-02-6	trans-1,3-Dichloropropene	<0.059		0.059
124-48-1	Chlorodibromomethane	<0.059		0.059
79-00-5	1,1,2-Trichloroethane	<0.059		0.059
71-43-2	Benzene	<0.059		0.059
10061-01-5	cis-1,3-Dichloropropene	<0.059		0.059
75-25-2	Bromoform	<0.059		0.059
591-78-6	2-Hexanone	<0.59		0.59
108-10-1	4-Methyl-2-Pentanone	<0.59		0.59
127-18-4	Tetrachloroethene	<0.059		0.059
108-88-3	Toluene	<0.059		0.059
108-90-7	Chlorobenzene	<0.059		0.059
100-41-4	Ethylbenzene	**0.062**		0.059
100-42-5	Styrene	<0.059		0.059
1330-20-7	Xylene (Total)	<0.18		0.18

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-10

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226811
Batch No: 144970

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226812
Batch No: 144796

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.50		0.50
74-83-9	Bromomethane	<0.50		0.50
75-01-4	Vinyl Chloride	<0.50		0.50
75-00-3	Chloroethane	<0.50		0.50
75-09-2	Methylene Chloride	<0.50		0.50
67-64-1	Acetone	<25		25
75-15-0	Carbon Disulfide	<1.0		1.0
75-35-4	1,1-Dichloroethylene	<0.50		0.50
75-34-3	1,1-Dichloroethane	<0.50		0.50
156-59-2	cis-1,2-Dichloroethene	<0.50		0.50
156-60-5	trans-1,2-Dichloroethene	<0.50		0.50
67-66-3	Chloroform	<0.50		0.50
107-06-2	1,2-Dichloroethane	<0.50		0.50
79-01-6	Trichloroethene	*<0.50	J	0.50
78-93-3	Methyl Ethyl Ketone	<25		25
71-55-6	1,1,1-Trichloroethane	<0.50		0.50
56-23-5	Carbon Tetrachloride	<0.50		0.50
75-27-4	Dichlorobromomethane	<0.50		0.50
79-34-5	1,1,2,2-Tetrachloroethane	<0.50		0.50
78-87-5	1,2-Dichloropropane	<0.50		0.50
10061-02-6	trans-1,3-Dichloropropene	<0.50		0.50
124-48-1	Chlorodibromomethane	<0.50		0.50
79-00-5	1,1,2-Trichloroethane	<0.50		0.50
71-43-2	Benzene	<0.50		0.50
10061-01-5	cis-1,3-Dichloropropene	<0.50		0.50
75-25-2	Bromoform	<0.50		0.50
591-78-6	2-Hexanone	<25		25
108-10-1	4-Methyl-2-Pentanone	<25		25
127-18-4	Tetrachloroethene	<0.50		0.50
108-88-3	Toluene	**1.3**		0.50
108-90-7	Chlorobenzene	<0.50		0.50
100-41-4	Ethylbenzene	**0.78**		0.50
100-42-5	Styrene	<0.50		0.50
1330-20-7	Xylene (Total)	**3.5**		1.5

* See attached Statement of Data Qualifications.

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-01

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 11:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226812
Batch No: 144709

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-11

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226813
Batch No: 144793

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.10		0.10
74-83-9	Bromomethane	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10
75-00-3	Chloroethane	<0.10		0.10
75-09-2	Methylene Chloride	<0.10		0.10
67-64-1	Acetone	<1.0		1.0
75-15-0	Carbon Disulfide	<1.0		1.0
75-35-4	1,1-Dichloroethylene	<0.10		0.10
75-34-3	1,1-Dichloroethane	<0.10		0.10
156-59-2	cis-1,2-Dichloroethene	<0.10		0.10
156-60-5	trans-1,2-Dichloroethene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<1.0		1.0
71-55-6	1,1,1-Trichloroethane	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
75-27-4	Dichlorobromomethane	<0.10		0.10
79-34-5	1,1,2,2-Tetrachloroethane	<0.10		0.10
78-87-5	1,2-Dichloropropane	<0.10		0.10
10061-02-6	trans-1,3-Dichloropropene	<0.10		0.10
124-48-1	Chlorodibromomethane	<0.10		0.10
79-00-5	1,1,2-Trichloroethane	<0.10		0.10
71-43-2	Benzene	<0.10		0.10
10061-01-5	cis-1,3-Dichloropropene	<0.10		0.10
75-25-2	Bromoform	<0.10		0.10
591-78-6	2-Hexanone	<1.0		1.0
108-10-1	4-Methyl-2-Pentanone	<1.0		1.0
127-18-4	Tetrachloroethene	<0.10		0.10
108-88-3	Toluene	**0.13**		0.10
108-90-7	Chlorobenzene	<0.10		0.10
100-41-4	Ethylbenzene	<0.10		0.10
100-42-5	Styrene	**0.26**		0.10
1330-20-7	Xylene (Total)	<0.31		0.31

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-11

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:10
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226813
Batch No: 144816

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-12

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226814
Batch No: 144914

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.010		0.010
74-83-9	Bromomethane	<0.010		0.010
75-01-4	Vinyl Chloride	<0.010		0.010
75-00-3	Chloroethane	<0.010		0.010
75-09-2	Methylene Chloride	<0.010		0.010
67-64-1	Acetone	<0.10		0.10
75-15-0	Carbon Disulfide	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.010		0.010
75-34-3	1,1-Dichloroethane	<0.010		0.010
156-59-2	cis-1,2-Dichloroethene	<0.010		0.010
156-60-5	trans-1,2-Dichloroethene	<0.010		0.010
67-66-3	Chloroform	<0.010		0.010
107-06-2	1,2-Dichloroethane	<0.010		0.010
79-01-6	Trichloroethene	<0.010		0.010
78-93-3	Methyl Ethyl Ketone	<0.10		0.10
71-55-6	1,1,1-Trichloroethane	<0.010		0.010
56-23-5	Carbon Tetrachloride	<0.010		0.010
75-27-4	Dichlorobromomethane	<0.010		0.010
79-34-5	1,1,2,2-Tetrachloroethane	<0.010		0.010
78-87-5	1,2-Dichloropropane	<0.010		0.010
10061-02-6	trans-1,3-Dichloropropene	<0.010		0.010
124-48-1	Chlorodibromomethane	<0.010		0.010
79-00-5	1,1,2-Trichloroethane	<0.010		0.010
71-43-2	Benzene	<0.010		0.010
10061-01-5	cis-1,3-Dichloropropene	<0.010		0.010
75-25-2	Bromoform	<0.010		0.010
591-78-6	2-Hexanone	<0.10		0.10
108-10-1	4-Methyl-2-Pentanone	<0.10		0.10
127-18-4	Tetrachloroethene	<0.010		0.010
108-88-3	Toluene	<0.010		0.010
108-90-7	Chlorobenzene	<0.010		0.010
100-41-4	Ethylbenzene	<0.010		0.010
100-42-5	Styrene	<0.010		0.010
1330-20-7	Xylene (Total)	<0.030		0.030

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226831
Batch No: 144709

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226831
Batch No: 144796

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.50		0.50
74-83-9	Bromomethane	<0.50		0.50
75-01-4	Vinyl Chloride	<0.50		0.50
75-00-3	Chloroethane	<0.50		0.50
75-09-2	Methylene Chloride	<0.50		0.50
67-64-1	Acetone	<25		25
75-15-0	Carbon Disulfide	<1.0		1.0
75-35-4	1,1-Dichloroethylene	<0.50		0.50
75-34-3	1,1-Dichloroethane	<0.50		0.50
156-59-2	cis-1,2-Dichloroethene	<0.50		0.50
156-60-5	trans-1,2-Dichloroethene	<0.50		0.50
67-66-3	Chloroform	<0.50		0.50
107-06-2	1,2-Dichloroethane	<0.50		0.50
79-01-6	Trichloroethene	<0.50		0.50
78-93-3	Methyl Ethyl Ketone	<25		25
71-55-6	1,1,1-Trichloroethane	<0.50		0.50
56-23-5	Carbon Tetrachloride	<0.50		0.50
75-27-4	Dichlorobromomethane	<0.50		0.50
79-34-5	1,1,2,2-Tetrachloroethane	<0.50		0.50
78-87-5	1,2-Dichloropropane	<0.50		0.50
10061-02-6	trans-1,3-Dichloropropene	<0.50		0.50
124-48-1	Chlorodibromomethane	<0.50		0.50
79-00-5	1,1,2-Trichloroethane	<0.50		0.50
71-43-2	Benzene	<0.50		0.50
10061-01-5	cis-1,3-Dichloropropene	<0.50		0.50
75-25-2	Bromoform	<0.50		0.50
591-78-6	2-Hexanone	<25		25
108-10-1	4-Methyl-2-Pentanone	<25		25
127-18-4	Tetrachloroethene	<0.50		0.50
108-88-3	Toluene	<0.50		0.50
108-90-7	Chlorobenzene	<0.50		0.50
100-41-4	Ethylbenzene	<0.50		0.50
100-42-5	Styrene	<0.50		0.50
1330-20-7	Xylene (Total)	<1.5		1.5

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-17

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226830
Batch No: 144709

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-17

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226830
Batch No: 144807

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.069		0.069
74-83-9	Bromomethane	<0.069		0.069
75-01-4	Vinyl Chloride	<0.069		0.069
75-00-3	Chloroethane	<0.069		0.069
75-09-2	Methylene Chloride	<0.069		0.069
67-64-1	Acetone	<0.69		0.69
75-15-0	Carbon Disulfide	<0.69		0.69
75-35-4	1,1-Dichloroethylene	<0.069		0.069
75-34-3	1,1-Dichloroethane	<0.069		0.069
156-59-2	cis-1,2-Dichloroethene	<0.069		0.069
156-60-5	trans-1,2-Dichloroethene	<0.069		0.069
67-66-3	Chloroform	<0.069		0.069
107-06-2	1,2-Dichloroethane	<0.069		0.069
79-01-6	Trichloroethene	<0.069		0.069
78-93-3	Methyl Ethyl Ketone	<0.69		0.69
71-55-6	1,1,1-Trichloroethane	<0.069		0.069
56-23-5	Carbon Tetrachloride	<0.069		0.069
75-27-4	Dichlorobromomethane	<0.069		0.069
79-34-5	1,1,2,2-Tetrachloroethane	<0.069		0.069
78-87-5	1,2-Dichloropropane	<0.069		0.069
10061-02-6	trans-1,3-Dichloropropene	<0.069		0.069
124-48-1	Chlorodibromomethane	<0.069		0.069
79-00-5	1,1,2-Trichloroethane	<0.069		0.069
71-43-2	Benzene	<0.069		0.069
10061-01-5	cis-1,3-Dichloropropene	<0.069		0.069
75-25-2	Bromoform	<0.069		0.069
591-78-6	2-Hexanone	<0.69		0.69
108-10-1	4-Methyl-2-Pentanone	<0.69		0.69
127-18-4	Tetrachloroethene	<0.069		0.069
108-88-3	Toluene	**0.17**		0.069
108-90-7	Chlorobenzene	<0.069		0.069
100-41-4	Ethylbenzene	**0.15**		0.069
100-42-5	Styrene	**0.32**		0.069
1330-20-7	Xylene (Total)	**0.57**		0.21

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-16

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226829
Batch No: 144709

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-16

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 08:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226829
Batch No: 144655

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.010		0.010
74-83-9	Bromomethane	<0.010		0.010
75-01-4	Vinyl Chloride	<0.010		0.010
75-00-3	Chloroethane	<0.010		0.010
75-09-2	Methylene Chloride	<0.010		0.010
67-64-1	Acetone	<0.10		0.10
75-15-0	Carbon Disulfide	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.010		0.010
75-34-3	1,1-Dichloroethane	<0.010		0.010
156-59-2	cis-1,2-Dichloroethene	<0.010		0.010
156-60-5	trans-1,2-Dichloroethene	<0.010		0.010
67-66-3	Chloroform	<0.010		0.010
107-06-2	1,2-Dichloroethane	<0.010		0.010
79-01-6	Trichloroethene	<0.010		0.010
78-93-3	Methyl Ethyl Ketone	<0.10		0.10
71-55-6	1,1,1-Trichloroethane	<0.010		0.010
56-23-5	Carbon Tetrachloride	<0.010		0.010
75-27-4	Dichlorobromomethane	<0.010		0.010
79-34-5	1,1,2,2-Tetrachloroethane	<0.010		0.010
78-87-5	1,2-Dichloropropane	<0.010		0.010
10061-02-6	trans-1,3-Dichloropropene	<0.010		0.010
124-48-1	Chlorodibromomethane	<0.010		0.010
79-00-5	1,1,2-Trichloroethane	<0.010		0.010
71-43-2	Benzene	<0.010		0.010
10061-01-5	cis-1,3-Dichloropropene	<0.010		0.010
75-25-2	Bromoform	<0.010		0.010
591-78-6	2-Hexanone	<0.10		0.10
108-10-1	4-Methyl-2-Pentanone	<0.10		0.10
127-18-4	Tetrachloroethene	<0.010		0.010
108-88-3	Toluene	<0.010		0.010
108-90-7	Chlorobenzene	<0.010		0.010
100-41-4	Ethylbenzene	<0.010		0.010
100-42-5	Styrene	<0.010		0.010
1330-20-7	Xylene (Total)	<0.030		0.030

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226828
Batch No: 144792

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<1.0		1.0
74-83-9	Bromomethane	<1.0		1.0
75-01-4	Vinyl Chloride	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
75-09-2	Methylene Chloride	<1.0		1.0
67-64-1	Acetone	<50		50
75-15-0	Carbon Disulfide	<5.0		5.0
75-35-4	1,1-Dichloroethylene	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0
67-66-3	Chloroform	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
79-01-6	Trichloroethene	<1.0		1.0
78-93-3	Methyl Ethyl Ketone	<50		50
71-55-6	1,1,1-Trichloroethane	<1.0		1.0
56-23-5	Carbon Tetrachloride	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
79-00-5	1,1,2-Trichloroethane	<1.0		1.0
71-43-2	Benzene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
75-25-2	Bromoform	<1.0		1.0
591-78-6	2-Hexanone	<50		50
108-10-1	4-Methyl-2-Pentanone	<50		50
127-18-4	Tetrachloroethene	<1.0		1.0
108-88-3	Toluene	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
100-41-4	Ethylbenzene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
1330-20-7	Xylene (Total)	<3.0		3.0

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-02

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 09:40
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226827
Batch No: 144792

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<1.0		1.0
74-83-9	Bromomethane	<1.0		1.0
75-01-4	Vinyl Chloride	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
75-09-2	Methylene Chloride	<1.0		1.0
67-64-1	Acetone	<50		50
75-15-0	Carbon Disulfide	<5.0		5.0
75-35-4	1,1-Dichloroethylene	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0
67-66-3	Chloroform	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
79-01-6	Trichloroethene	<1.0		1.0
78-93-3	Methyl Ethyl Ketone	<50		50
71-55-6	1,1,1-Trichloroethane	<1.0		1.0
56-23-5	Carbon Tetrachloride	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
79-00-5	1,1,2-Trichloroethane	<1.0		1.0
71-43-2	Benzene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
75-25-2	Bromoform	<1.0		1.0
591-78-6	2-Hexanone	<50		50
108-10-1	4-Methyl-2-Pentanone	<50		50
127-18-4	Tetrachloroethene	<1.0		1.0
108-88-3	Toluene	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
100-41-4	Ethylbenzene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
1330-20-7	Xylene (Total)	<3.0		3.0

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-01

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 09:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226826
Batch No: 144792

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	**3.8**		1.0
74-83-9	Bromomethane	<1.0		1.0
75-01-4	Vinyl Chloride	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
75-09-2	Methylene Chloride	<1.0		1.0
67-64-1	Acetone	<50		50
75-15-0	Carbon Disulfide	<5.0		5.0
75-35-4	1,1-Dichloroethylene	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0
67-66-3	Chloroform	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
79-01-6	Trichloroethene	<1.0		1.0
78-93-3	Methyl Ethyl Ketone	<50		50
71-55-6	1,1,1-Trichloroethane	<1.0		1.0
56-23-5	Carbon Tetrachloride	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
79-00-5	1,1,2-Trichloroethane	<1.0		1.0
71-43-2	Benzene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
75-25-2	Bromoform	<1.0		1.0
591-78-6	2-Hexanone	<50		50
108-10-1	4-Methyl-2-Pentanone	<50		50
127-18-4	Tetrachloroethene	<1.0		1.0
108-88-3	Toluene	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
100-41-4	Ethylbenzene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
1330-20-7	Xylene (Total)	<3.0		3.0

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-05

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226825
Batch No: 144970

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<5.0		5.0
56-23-5	Carbon Tetrachloride	<5.0		5.0
108-90-7	Chlorobenzene	<5.0		5.0
67-66-3	Chloroform	<5.0		5.0
107-06-2	1,2-Dichloroethane	<5.0		5.0
75-35-4	1,1-Dichloroethylene	<5.0		5.0
78-93-3	Methyl Ethyl Ketone	<250		250
127-18-4	Tetrachloroethene	**25**		5.0
79-01-6	Trichloroethene	<5.0		5.0
75-01-4	Vinyl Chloride	<5.0		5.0

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-05

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 13:20
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226825
Batch No: 144807

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.50		0.50
74-83-9	Bromomethane	<0.50		0.50
75-01-4	Vinyl Chloride	<0.50		0.50
75-00-3	Chloroethane	<0.50		0.50
75-09-2	Methylene Chloride	<0.50		0.50
67-64-1	Acetone	<25		25
75-15-0	Carbon Disulfide	<1.0		1.0
75-35-4	1,1-Dichloroethylene	<0.50		0.50
75-34-3	1,1-Dichloroethane	<0.50		0.50
156-59-2	cis-1,2-Dichloroethene	<0.50		0.50
156-60-5	trans-1,2-Dichloroethene	<0.50		0.50
67-66-3	Chloroform	<0.50		0.50
107-06-2	1,2-Dichloroethane	<0.50		0.50
79-01-6	Trichloroethene	<0.50		0.50
78-93-3	Methyl Ethyl Ketone	<25		25
71-55-6	1,1,1-Trichloroethane	<0.50		0.50
56-23-5	Carbon Tetrachloride	<0.50		0.50
75-27-4	Dichlorobromomethane	<0.50		0.50
79-34-5	1,1,2,2-Tetrachloroethane	<0.50		0.50
78-87-5	1,2-Dichloropropane	<0.50		0.50
10061-02-6	trans-1,3-Dichloropropene	<0.50		0.50
124-48-1	Chlorodibromomethane	<0.50		0.50
79-00-5	1,1,2-Trichloroethane	<0.50		0.50
71-43-2	Benzene	<0.50		0.50
10061-01-5	cis-1,3-Dichloropropene	<0.50		0.50
75-25-2	Bromoform	<0.50		0.50
591-78-6	2-Hexanone	<25		25
108-10-1	4-Methyl-2-Pentanone	<25		25
127-18-4	Tetrachloroethene	**1.1**		0.50
108-88-3	Toluene	**4.0**		0.50
108-90-7	Chlorobenzene	<0.50		0.50
100-41-4	Ethylbenzene	**10**		0.50
100-42-5	Styrene	**44**		0.50
1330-20-7	Xylene (Total)	**57**		1.5

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-04

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 12:05
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226824
Batch No: 144807

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.50		0.50
74-83-9	Bromomethane	<0.50		0.50
75-01-4	Vinyl Chloride	<0.50		0.50
75-00-3	Chloroethane	<0.50		0.50
75-09-2	Methylene Chloride	<0.50		0.50
67-64-1	Acetone	<25		25
75-15-0	Carbon Disulfide	<1.0		1.0
75-35-4	1,1-Dichloroethylene	<0.50		0.50
75-34-3	1,1-Dichloroethane	<0.50		0.50
156-59-2	cis-1,2-Dichloroethene	<0.50		0.50
156-60-5	trans-1,2-Dichloroethene	<0.50		0.50
67-66-3	Chloroform	<0.50		0.50
107-06-2	1,2-Dichloroethane	<0.50		0.50
79-01-6	Trichloroethene	<0.50		0.50
78-93-3	Methyl Ethyl Ketone	<25		25
71-55-6	1,1,1-Trichloroethane	<0.50		0.50
56-23-5	Carbon Tetrachloride	<0.50		0.50
75-27-4	Dichlorobromomethane	<0.50		0.50
79-34-5	1,1,2,2-Tetrachloroethane	<0.50		0.50
78-87-5	1,2-Dichloropropane	<0.50		0.50
10061-02-6	trans-1,3-Dichloropropene	<0.50		0.50
124-48-1	Chlorodibromomethane	<0.50		0.50
79-00-5	1,1,2-Trichloroethane	<0.50		0.50
71-43-2	Benzene	**0.54**		0.50
10061-01-5	cis-1,3-Dichloropropene	<0.50		0.50
75-25-2	Bromoform	<0.50		0.50
591-78-6	2-Hexanone	<25		25
108-10-1	4-Methyl-2-Pentanone	<25		25
127-18-4	Tetrachloroethene	<0.50		0.50
108-88-3	Toluene	**3.5**		0.50
108-90-7	Chlorobenzene	<0.50		0.50
100-41-4	Ethylbenzene	**3.3**		0.50
100-42-5	Styrene	**6.6**		0.50
1330-20-7	Xylene (Total)	**12**		1.5

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-07

Submittal Number 35107- 1
Date Sampled: 07/15/99 Time: 09:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226822
Batch No: 144796

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<1.0		1.0
74-83-9	Bromomethane	<1.0		1.0
75-01-4	Vinyl Chloride	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
75-09-2	Methylene Chloride	<1.0		1.0
67-64-1	Acetone	<50		50
75-15-0	Carbon Disulfide	33		5.0
75-35-4	1,1-Dichloroethylene	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0
67-66-3	Chloroform	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
79-01-6	Trichloroethene	<1.0		1.0
78-93-3	Methyl Ethyl Ketone	<50		50
71-55-6	1,1,1-Trichloroethane	<1.0		1.0
56-23-5	Carbon Tetrachloride	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
79-00-5	1,1,2-Trichloroethane	<1.0		1.0
71-43-2	Benzene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
75-25-2	Bromoform	<1.0		1.0
591-78-6	2-Hexanone	<50		50
108-10-1	4-Methyl-2-Pentanone	<50		50
127-18-4	Tetrachloroethene	<1.0		1.0
108-88-3	Toluene	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
100-41-4	Ethylbenzene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
1330-20-7	Xylene (Total)	<3.0		3.0

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226821
Batch No: 144709

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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Individual sample results relate only to the sample tested

TriMatrix Laboratories, Inc.

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: PS-03

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:45
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226821
Batch No: 144807

CAS No.	Compound	Result mg/kg	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.50		0.50
74-83-9	Bromomethane	<0.50		0.50
75-01-4	Vinyl Chloride	<0.50		0.50
75-00-3	Chloroethane	<0.50		0.50
75-09-2	Methylene Chloride	<0.50		0.50
67-64-1	Acetone	<25		25
75-15-0	Carbon Disulfide	**1.5**		1.0
75-35-4	1,1-Dichloroethylene	<0.50		0.50
75-34-3	1,1-Dichloroethane	<0.50		0.50
156-59-2	cis-1,2-Dichloroethene	<0.50		0.50
156-60-5	trans-1,2-Dichloroethene	<0.50		0.50
67-66-3	Chloroform	<0.50		0.50
107-06-2	1,2-Dichloroethane	<0.50		0.50
79-01-6	Trichloroethene	<0.50		0.50
78-93-3	Methyl Ethyl Ketone	<25		25
71-55-6	1,1,1-Trichloroethane	<0.50		0.50
56-23-5	Carbon Tetrachloride	<0.50		0.50
75-27-4	Dichlorobromomethane	<0.50		0.50
79-34-5	1,1,2,2-Tetrachloroethane	<0.50		0.50
78-87-5	1,2-Dichloropropane	<0.50		0.50
10061-02-6	trans-1,3-Dichloropropene	<0.50		0.50
124-48-1	Chlorodibromomethane	<0.50		0.50
79-00-5	1,1,2-Trichloroethane	<0.50		0.50
71-43-2	Benzene	<0.50		0.50
10061-01-5	cis-1,3-Dichloropropene	<0.50		0.50
75-25-2	Bromoform	<0.50		0.50
591-78-6	2-Hexanone	<25		25
108-10-1	4-Methyl-2-Pentanone	<25		25
127-18-4	Tetrachloroethene	<0.50		0.50
108-88-3	Toluene	<0.50		0.50
108-90-7	Chlorobenzene	<0.50		0.50
100-41-4	Ethylbenzene	<0.50		0.50
100-42-5	Styrene	<0.50		0.50
1330-20-7	Xylene (Total)	<1.5		1.5

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-05

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 13:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226819
Batch No: 144793

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	**1.8**		1.0
74-83-9	Bromomethane	<1.0		1.0
75-01-4	Vinyl Chloride	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
75-09-2	Methylene Chloride	<1.0		1.0
67-64-1	Acetone	<50		50
75-15-0	Carbon Disulfide	<5.0		5.0
75-35-4	1,1-Dichloroethylene	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0
67-66-3	Chloroform	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
79-01-6	Trichloroethene	<1.0		1.0
78-93-3	Methyl Ethyl Ketone	<50		50
71-55-6	1,1,1-Trichloroethane	<1.0		1.0
56-23-5	Carbon Tetrachloride	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
79-00-5	1,1,2-Trichloroethane	<1.0		1.0
71-43-2	Benzene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
75-25-2	Bromoform	<1.0		1.0
591-78-6	2-Hexanone	<50		50
108-10-1	4-Methyl-2-Pentanone	<50		50
127-18-4	Tetrachloroethene	<1.0		1.0
108-88-3	Toluene	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
100-41-4	Ethylbenzene	**1.8**		1.0
100-42-5	Styrene	<1.0		1.0
1330-20-7	Xylene (Total)	**3.4**		3.0

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: WS-04

Submittal Number 35107- 1
Date Sampled: 07/14/99 Time: 10:15
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/19/99
Lab Sample No: 226818
Batch No: 144793

CAS No.	Compound	Result ug/L	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<1.0		1.0
74-83-9	Bromomethane	<1.0		1.0
75-01-4	Vinyl Chloride	<1.0		1.0
75-00-3	Chloroethane	<1.0		1.0
75-09-2	Methylene Chloride	<1.0		1.0
67-64-1	Acetone	<50		50
75-15-0	Carbon Disulfide	<5.0		5.0
75-35-4	1,1-Dichloroethylene	<1.0		1.0
75-34-3	1,1-Dichloroethane	<1.0		1.0
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0
67-66-3	Chloroform	<1.0		1.0
107-06-2	1,2-Dichloroethane	<1.0		1.0
79-01-6	Trichloroethene	<1.0		1.0
78-93-3	Methyl Ethyl Ketone	<50		50
71-55-6	1,1,1-Trichloroethane	<1.0		1.0
56-23-5	Carbon Tetrachloride	<1.0		1.0
75-27-4	Dichlorobromomethane	<1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0
78-87-5	1,2-Dichloropropane	<1.0		1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0
124-48-1	Chlorodibromomethane	<1.0		1.0
79-00-5	1,1,2-Trichloroethane	<1.0		1.0
71-43-2	Benzene	<1.0		1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0
75-25-2	Bromoform	<1.0		1.0
591-78-6	2-Hexanone	<50		50
108-10-1	4-Methyl-2-Pentanone	<50		50
127-18-4	Tetrachloroethene	<1.0		1.0
108-88-3	Toluene	<1.0		1.0
108-90-7	Chlorobenzene	<1.0		1.0
100-41-4	Ethylbenzene	<1.0		1.0
100-42-5	Styrene	<1.0		1.0
1330-20-7	Xylene (Total)	<3.0		3.0

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-14

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 15:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/21/99
Lab Sample No: 226816
Batch No: 144709

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-14

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 15:00
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/16/99
Lab Sample No: 226816
Batch No: 144655

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.010		0.010
74-83-9	Bromomethane	<0.010		0.010
75-01-4	Vinyl Chloride	<0.010		0.010
75-00-3	Chloroethane	<0.010		0.010
75-09-2	Methylene Chloride	<0.010		0.010
67-64-1	Acetone	<0.10		0.10
75-15-0	Carbon Disulfide	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.010		0.010
75-34-3	1,1-Dichloroethane	<0.010		0.010
156-59-2	cis-1,2-Dichloroethene	<0.010		0.010
156-60-5	trans-1,2-Dichloroethene	<0.010		0.010
67-66-3	Chloroform	<0.010		0.010
107-06-2	1,2-Dichloroethane	<0.010		0.010
79-01-6	Trichloroethene	<0.010		0.010
78-93-3	Methyl Ethyl Ketone	<0.10		0.10
71-55-6	1,1,1-Trichloroethane	<0.010		0.010
56-23-5	Carbon Tetrachloride	<0.010		0.010
75-27-4	Dichlorobromomethane	<0.010		0.010
79-34-5	1,1,2,2-Tetrachloroethane	<0.010		0.010
78-87-5	1,2-Dichloropropane	<0.010		0.010
10061-02-6	trans-1,3-Dichloropropene	<0.010		0.010
124-48-1	Chlorodibromomethane	<0.010		0.010
79-00-5	1,1,2-Trichloroethane	<0.010		0.010
71-43-2	Benzene	<0.010		0.010
10061-01-5	cis-1,3-Dichloropropene	<0.010		0.010
75-25-2	Bromoform	<0.010		0.010
591-78-6	2-Hexanone	<0.10		0.10
108-10-1	4-Methyl-2-Pentanone	<0.10		0.10
127-18-4	Tetrachloroethene	<0.010		0.010
108-88-3	Toluene	**0.018**		0.010
108-90-7	Chlorobenzene	<0.010		0.010
100-41-4	Ethylbenzene	<0.010		0.010
100-42-5	Styrene	<0.010		0.010
1330-20-7	Xylene (Total)	<0.030		0.030

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TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-13

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226815
Batch No: 144816

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-13

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:50
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/22/99
Lab Sample No: 226815
Batch No: 144916

CAS No.	Compound	Result mg/kg dry	Data Qualifiers	Quantitation Limit
74-87-3	Chloromethane	<0.064		0.064
74-83-9	Bromomethane	<0.064		0.064
75-01-4	Vinyl Chloride	<0.064		0.064
75-00-3	Chloroethane	<0.064		0.064
75-09-2	Methylene Chloride	**0.16**		0.064
67-64-1	Acetone	<0.64		0.64
75-15-0	Carbon Disulfide	<0.64		0.64
75-35-4	1,1-Dichloroethylene	<0.064		0.064
75-34-3	1,1-Dichloroethane	<0.064		0.064
156-59-2	cis-1,2-Dichloroethene	<0.064		0.064
156-60-5	trans-1,2-Dichloroethene	<0.064		0.064
67-66-3	Chloroform	<0.064		0.064
107-06-2	1,2-Dichloroethane	<0.064		0.064
79-01-6	Trichloroethene	<0.064		0.064
78-93-3	Methyl Ethyl Ketone	**0.70**		0.64
71-55-6	1,1,1-Trichloroethane	<0.064		0.064
56-23-5	Carbon Tetrachloride	<0.064		0.064
75-27-4	Dichlorobromomethane	<0.064		0.064
79-34-5	1,1,2,2-Tetrachloroethane	<0.064		0.064
78-87-5	1,2-Dichloropropane	<0.064		0.064
10061-02-6	trans-1,3-Dichloropropene	<0.064		0.064
124-48-1	Chlorodibromomethane	<0.064		0.064
79-00-5	1,1,2-Trichloroethane	<0.064		0.064
71-43-2	Benzene	**1.2**		0.064
10061-01-5	cis-1,3-Dichloropropene	<0.064		0.064
75-25-2	Bromoform	<0.064		0.064
591-78-6	2-Hexanone	<0.64		0.64
108-10-1	4-Methyl-2-Pentanone	<0.64		0.64
127-18-4	Tetrachloroethene	<0.064		0.064
108-88-3	Toluene	**1.9**		0.064
108-90-7	Chlorobenzene	<0.064		0.064
100-41-4	Ethylbenzene	**0.37**		0.064
100-42-5	Styrene	<0.064		0.064
1330-20-7	Xylene (Total)	**1.5**		0.19

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TriMatrix Laboratories, Inc.

TCLP VOLATILE ORGANICS
USEPA METHOD 8260B

Ecology and Environment
Proj: 9905-013: South Central Terminal
Subm: July 1999 Samples
Sample: SS-12

Submittal Number 35107- 1
Date Sampled: 07/13/99 Time: 14:30
Date Received: 07/16/99 Time: 09:50
Analysis Date: 07/20/99
Lab Sample No: 226814
Batch No: 144816

CAS No.	Compound	Result mg/L	Data Qualifiers	Quantitation Limit
71-43-2	Benzene	<0.10		0.10
56-23-5	Carbon Tetrachloride	<0.10		0.10
108-90-7	Chlorobenzene	<0.10		0.10
67-66-3	Chloroform	<0.10		0.10
107-06-2	1,2-Dichloroethane	<0.10		0.10
75-35-4	1,1-Dichloroethylene	<0.10		0.10
78-93-3	Methyl Ethyl Ketone	<5.0		5.0
127-18-4	Tetrachloroethene	<0.10		0.10
79-01-6	Trichloroethene	<0.10		0.10
75-01-4	Vinyl Chloride	<0.10		0.10

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