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REMEDIAL INVESTIGATION
TENNESSEE GAS PIPELINE COMPANY
COMPRESSOR STATION 224
CLYMER, NEW YORK

VOLUME II
SITE CHARACTERIZATION

August 30, 1991

Prepared for:

Tennessee Gas Pipeline Company
Houston, Texas

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2. STATION DESCRIPTION

2.1 LOCATION AND LAYOUT

Tennesee's Station 224 is located near the town of Clymer in Chautauqua County, New York (see Figure 2-1). The station occupies a 206-acre site along Ravlin Hill Road, approximately 1 mile south of the hamlet of French Creek. Adjacent property owners draw water from private wells. Sanitary wastes are disposed of on site by means of septic tanks, a subsurface filter field, and an oxidation pond that has a surface discharge.

Station 224 consists of a compressor building housing four reciprocating engines, an auxiliary building, a meter building, a combination office/garage, a pipeline warehouse, an administration office, and a water treatment building (see Figure 2-2).

2.2 SURFACE FEATURES AND TOPOGRAPHY

Station 224 is located in the southwest corner of New York State within the Appalachian Plateau physiographic province (Pirkle and Yoho 1985). This province consists of plateaus that are deeply dissected by numerous steep-walled stream valleys. In addition, multiple glaciations in this portion of New York State have enlarged the preglacial stream valleys.

The site itself is located on the lower crest of an upland plateau at approximately 1,630 feet above mean sea level (MSL) (United States Geological Survey [USGS} 1954). The region surrounding the station contains numerous oval-shaped upland areas. The long axis of these upland areas generally trend northwest to southeast. Local elevations range from less than 1,400 feet above MSL along the floodplains and wetland areas bordering French Creek, approximately 1-mile west and southwest of the station, to greater than 1,800 feet above MSL along the crest of hilltops several miles east and southwest of the station (USGS 1954).

2.3 SOILS

The soils on and adjacent to Station 224 consist mainly of loams (see boring logs, Appendix A). These soils are represented by the Fremont silt loam (0% to 25% slopes), Alden loam (0% to 3% slopes), and Schuyler loam (3% to 35% slopes) from north to south, respectively, across the site (Brown 1990; United States Department of Agriculture [USDA] 1986).

The Fremont series consists of deep, somewhat poorly drained, moderately permeable soils with very low water holding capacity. They usually occur on uplands (0% to 5% slopes) and formed in glacial till. Typically, the surface layer is a grayish brown loam approximately 7 inches thick underlain by a mottled olive brown silt loam to a depth of 12 inches, and mottled light olive brown to olive silty clay loam to a depth of 28 inches. The substratum from 28 to 54 inches is a mottled gray, firm, shaly silt loam.

The Alden series also consists of deep, very poorly drained, moderately permeable soils with very low water holding capacity. They occur on upland areas with 0% to 3% slopes and formed in local alluvium and the underlying glacial till. The surface layer of this soil is typically a black, mucky silt loam approximately 7 inches thick. This layer is followed by a mottled gray silt loam to a depth of 15 inches, dark gray silt loam to a depth of 30 inches, and mottled grayish gravelly loam to the top of bedrock (approximately depth of 60 inches).

The Schuyler series consists of deep, moderately well-drained, moderately permeable soils with a very low water holding capacity that occur on uplands and are formed in glacial till. Typically, these soils have a dark brown silt loam surface layer 9 inches thick underlain by an olive brown to mottled light olive brown silt loam to a depth of approximately 36 inches. The lower part of the subsoil, to a depth of about 50 inches, is a mottled gray, firm, very channery silt loam.

2.4 GEOLOGY

Station 224 is located within the Appalachian Plateau physiographic province (Pirkle and Yoho 1985). This province is underlain by nearly horizontal to gently dipping Paleozoic sedimentary strata. The station is situated within a maturely dissected plateau of this strata (Rickard and Fisher 1970).

The bedrock in the area surrounding the station is composed of shales, siltstones, sandstones, and conglomerates of the Upper Devonian Conneaut and Conewango groups (Rickard and Fisher 1970)(see Figures 2-3 and 2-4). The overburden in this region consists of poorly sorted glacial cover deposited as a ground moraine (Muller 1977).

Five monitoring wells were installed at Station 224 between November 8 and November 15, 1990. The monitoring well completion depths ranged from 20.0 feet below ground surface (BGS) (MW2, MW3, and MW5) to 25.0 feet BGS (MW3) (see Table 2-1).

Well logs (see Appendix A) indicate that this station is underlain by a mottled gray to rusty brown, moist, cohesive, silty-clay layer. This silty-clay contains rounded pebbles of siltstone and shale fragments. Siltstone and/or shale bedrock underlies the silty clay layer (see Figure 2-4). The siltstone is highly weathered with the weathering concentrated along rust-colored bedding planes. Clay and shale seams are common within the siltstone. The shale is highly weathered, gray, and is cut by numerous horizontal and vertical fractures. Clay seams are common within the fractures and bedding planes of the shale where weathering has been most intense. Groundwater was encountered within the basal glacial overburden or top of bedrock within all monitoring wells. The top surface of the bedrock slopes to the west, northwest, and northeast (see Figure 2-5) as determined by monitoring well survey data and well logs (see Table 2-1 and Appendix A).

2.5 SURFACE WATER

Station 224 is located within the Allegheny River Basin. The Allegheny Basin drains approximately 6,400 square miles of southwestern New York and northwestern Pennsylvania (NYSDEC 1988; Pennsylvania Department of Environmental Resources [PADER] 1980). A total of 30% or 1,921 square miles of this basin lies within the boundaries of New York

State. Major tributaries of the Allegheny River include French, Brokenstraw, Oil, and Tionesta creeks. The Allegheny River empties into the Ohio River at Pittsburgh, Pennsylvania.

Surface drainage from the site follows local topography (USGS 1954 and Figure 2-2). The station is located on the lower crest of a hill which peaks at 1,734 feet above MSL 1/2 mile to the southeast. Surface waters exit the lower hillcrest in all directions except the southeast. All drainages emanating from the crest upon which the station rests enter tributaries of French Creek. On-site surface waters include several ponds and a tributary of French Creek located in the northeastern portion of the station. This tributary flows northwest and enters French Creek approximately 1 mile northwest of the site. Also located in the southern portion of the station are several small intermittently flowing drainages. These drainages eventually discharge to an unnamed tributary of French Creek approximately 1/3 mile west of the site.

2.6 GROUNDWATER

Station 224 lies within the Glaciated Central groundwater region (Heath 1984). This region is underlain by relatively flat or gently dipping sedimentary rocks. Bedrock is typically overlain by glacial till interbedded with glacial meltwater sands and gravels. Well logs (see Appendix A) and a surficial geologic map of this region (Muller 1977) confirm that glacial deposits comprise the on-site overburden materials (see Section 2.4).

Groundwater in the Glaciated Central region occurs within glacial deposits and bedrock. Glacial deposits hold water in the pores between rock particles and are recharged through precipitation. These deposits also serve as a groundwater reservoir for recharge to underlying bedrock. Bedrock holds groundwater primarily within bedding plane and vertical fractures (Heath 1984). Small to moderate groundwater supplies can be obtained anywhere from both glacial deposits and bedrock. Large groundwater supplies are obtained from glacial sand and gravel deposits and from carbonate and coarse clastic rocks.

Five groundwater monitoring wells (MW1 through MW5) were installed at Station 224 between November 8, and November 15, 1991. MW1, MW2, MW4, and MW5 were screened within the lowermost glacial deposits and upper bedrock. MW3 was screened completely within unconsolidated deposits of glacial materials and highly weathered non-competent shale and shale fragments (see well logs, Appendix A).

Groundwater was encountered within the basal glacial deposits and top of bedrock within all wells (see Table 2-1 and Figure 2-4). Well logs (see Appendix A) and site logbooks indicate that MW2 was artesian at the time of well installation as water flowed freely from the top of the well for 20 minutes. The silty-clay overburden acts as a confining layer over the bedrock in the vicinity of MW2 and possibly confines the groundwater beneath other portions of the site as well. The depth to groundwater ranged from 3.2 feet BGS within MW1 to 9.0 feet BGS within MW5 as measured on January 8, 1991 (see Table 2-1). Groundwater flows to the west, northwest, and northeast beneath the site (see Figure 2-6) and discharges to the on-site ponds and tributary of French Creek. The flow of groundwater beneath the site approximates, and is likely controlled by, the subsurface expression of the top of bedrock beneath the site (see Figures 2-5 and 2-6).

2.7 CLIMATE

The climate in the vicinity of Station 224 is characterized by cold, snowy winters and warm, humid summers. Precipitation is moderate, with an annual total of approximately 40 inches; winter precipitation is light but regular, while summer rains are intense but infrequent. Snowfall is substantial, averaging over 100 inches in a normal winter. Cold air masses crossing Lake Erie to the northwest bring excessive cloudiness and lake snows to this area from November through January.

Soil moisture is at a surplus during the winter and spring, usually peaking in April or early May, while deficits can be expected occasionally from July into October. Autumn is often the driest period of the year. The ground is usually frozen from late December through most of February, with frost reaching maximum depths of 2 to 3 feet. Snow covers the ground for 70 to 90 days in the average winter.

Prevailing wind direction at the site is from the southwest in both the winter and summer. Wind speeds are relatively high, with an average of 9 miles per hour in July and August, but over 12 miles per hour from December through March. Table 2-2 presents relevant climatic data in the vicinity of Station 224.

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2-7

Table 2-1

SUMMARY OF WELL DATA AND GROUNDWATER LEVELS
STATION 224

Well	Top of Inner Casing Elevation	Ground Elevation	MW Total Depth (feet BGS)	Bottom Hole Elevation	Top of Bedrock Elevation	Water Level Elevation (1/8/91)	Water Level (feet BGS 1/8/91)
MW1	1,633.12	1,630.83	21.0	1,609.83	1,618.33	1,627.63	3.2
MW2	1,627.97	1,625.40	20.0	1,605.40	1,610.40	1,617.50	7.9
MW3	1,626.52	1,624.00	25.0	1,599.00	>1,599.00	1,616.40	7.6
MW4	1,607.17	1,604.25	20.0	1,584.25	1,586.25	1,597.45	6.8
MW5	1,610.14	1,607.03	20.0	1,587.03	1,588.93	1,598.03	9.0

02[TG5902]D3347/88/22

Note: All elevations are in feet above mean sea level unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

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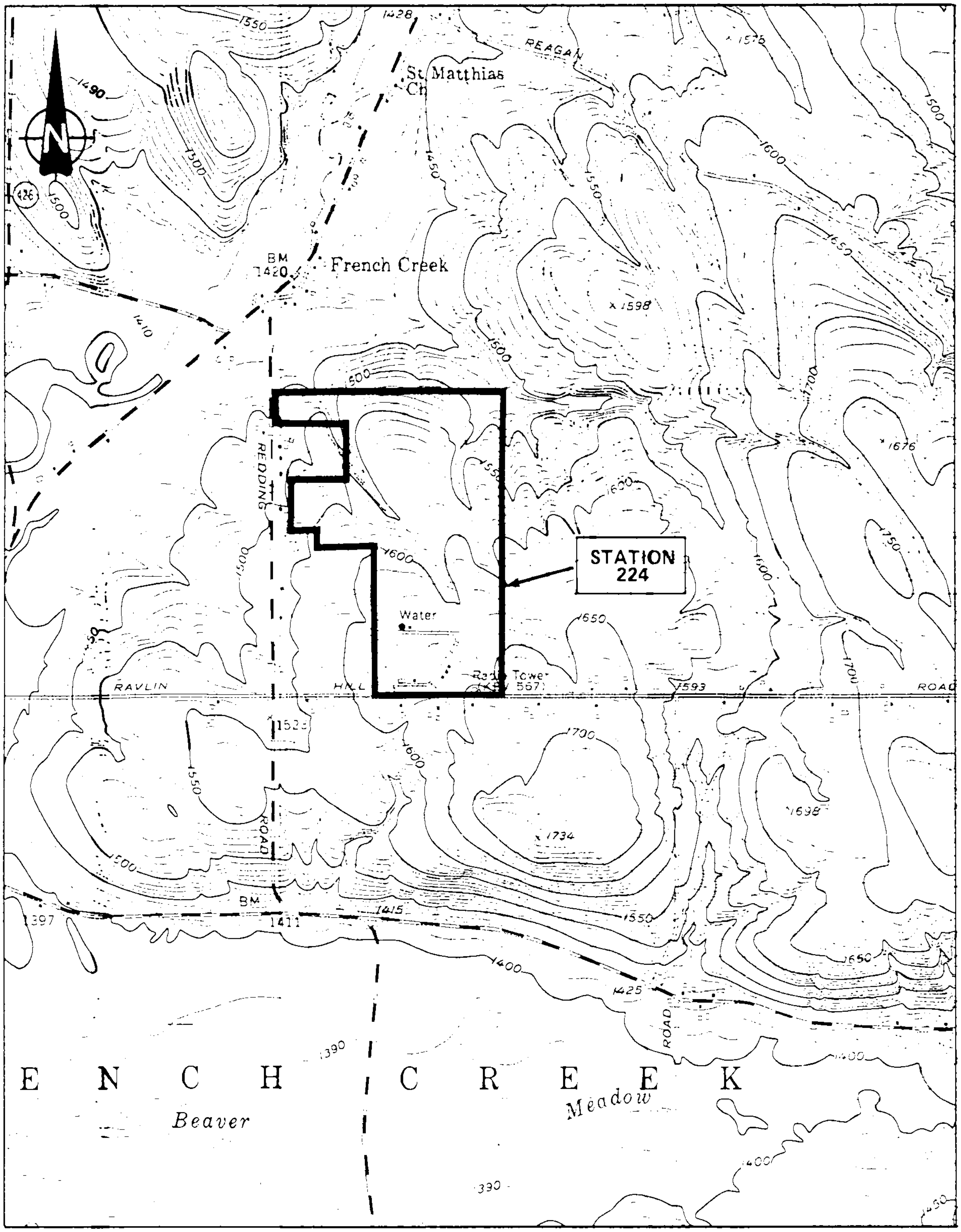
Table 2-2

CLIMATIC DATA SUMMARY
COMPRESSOR STATION 224

Month	Temperature (°F) Maximum	Temperature (°F) Minimum	Precipitation (inches)	Snowfall (inches)	Percent Sunshine	Wind Prevailing Direction	Wind Speed (mph)
January	30	15	2.8	30.2	31	SW	12.7
February	32	15	2.3	18.4	38	SW	12.3
March	41	24	3.1	12.2	46	SW	12.5
April	55	33	3.4	3.3	50	SW	11.8
May	65	43	3.3	0.2	54	SW	10.5
June	75	53	3.7	--	61	SW	9.5
July	80	58	3.6	--	63	SW	9.0
August	78	58	4.2	--	60	SW	9.0
September	71	51	3.5	--	58	S	9.5
October	60	42	3.0	0.6	49	S	9.8
November	47	32	3.3	11.5	29	SW	11.0
December	36	21	3.2	32.6	28	SW	12.0
Annual	--	--	39.4	109.0	--	--	--
Average	56	36	--	--	48	SW	10.8

02[TG5902]D3347/79/17

Source: National Oceanic and Atmospheric Administration (NOAA), Asheville, NC, Local Climatological Data, 30-Year Averages (1951-80) for Erie, Pennsylvania and Buffalo, New York, adapted to Clymer, New York by E & E (1991).



SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle: Clymer, NY, 1954.

SCALE

0 ½ 1 MILE

0 .5 1 KILOMETER

Figure 2-1
LOCATION OF TENNESSEE GAS PIPELINE COMPANY COMPRESSOR STATION 224 NEAR CLYMER, NY

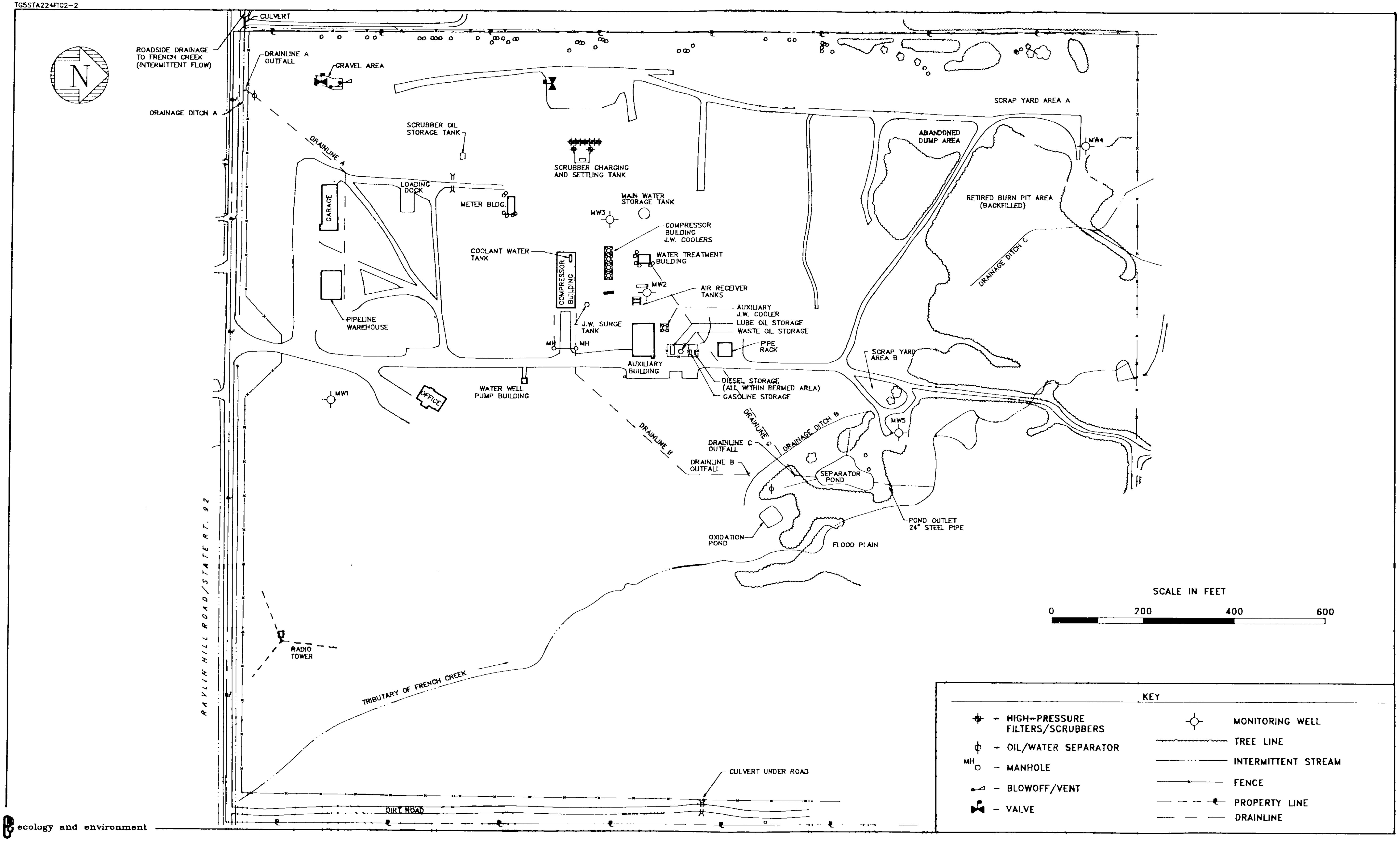
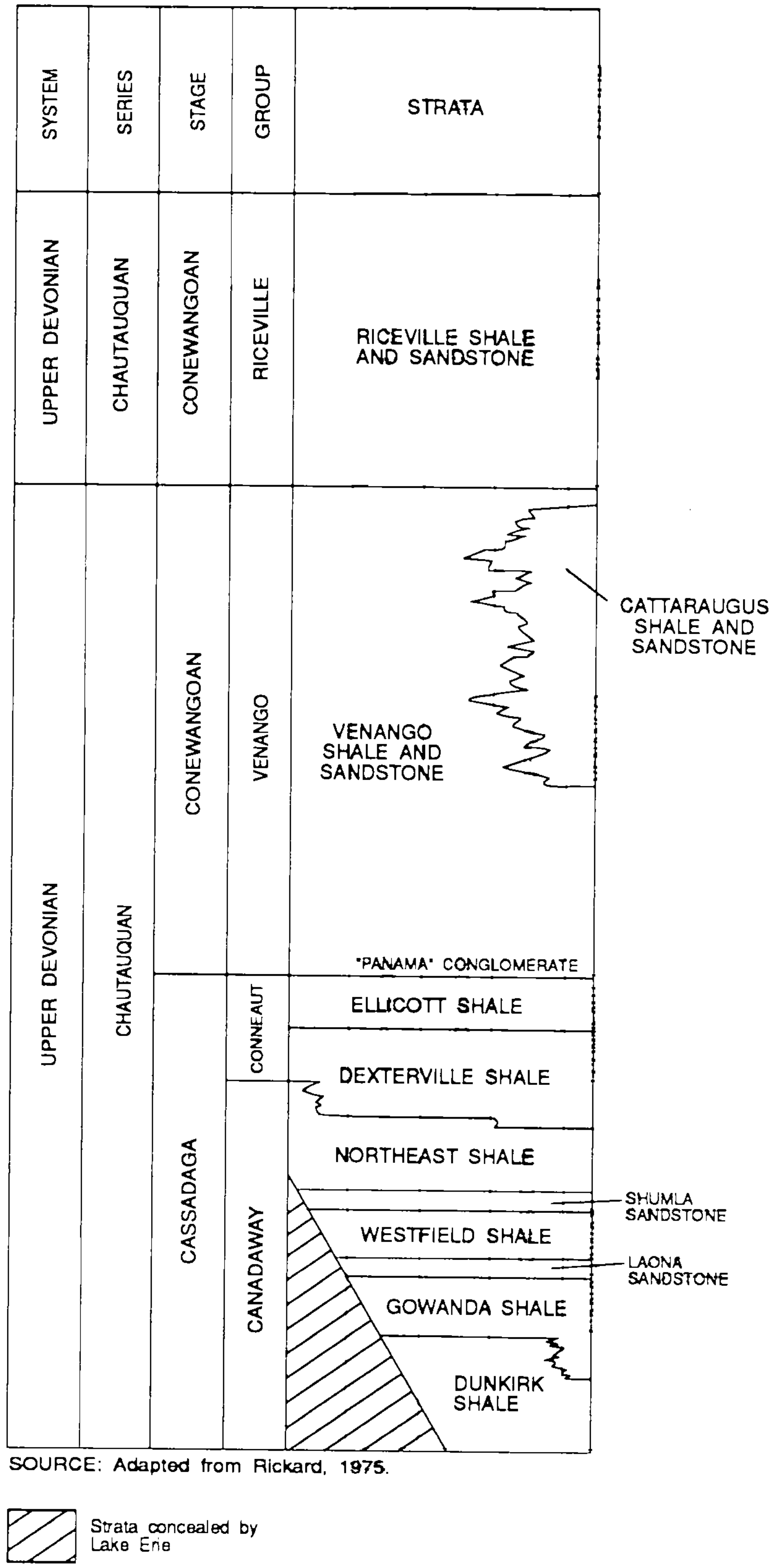


Figure 2-2 PLOT PLAN – COMPRESSOR STATION 224



SOURCE: Adapted from Rickard, 1975.

Figure 2-3
CHRONOSTRATIGRAPHIC COLUMN
COMPRESSOR STATION 224

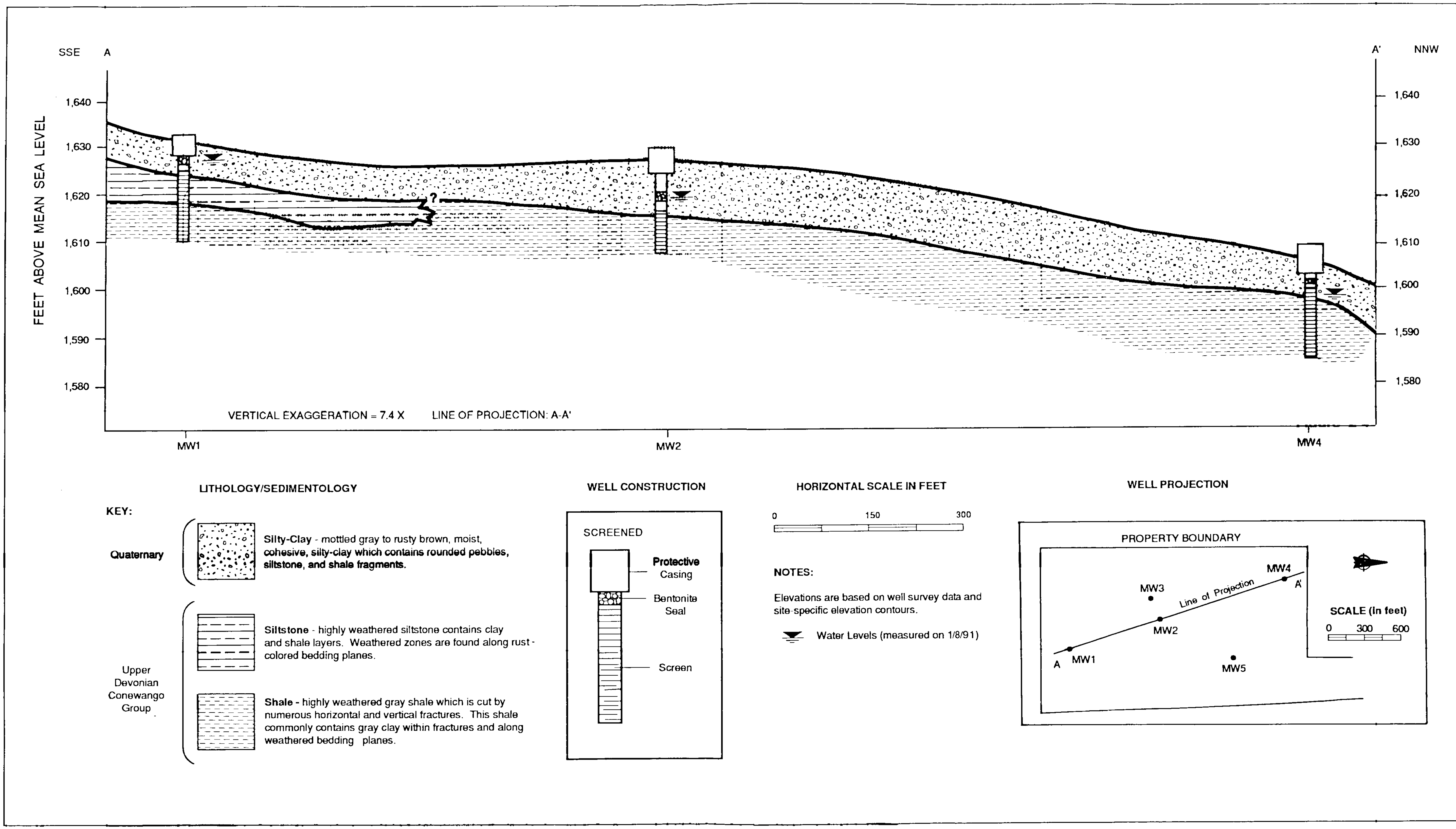
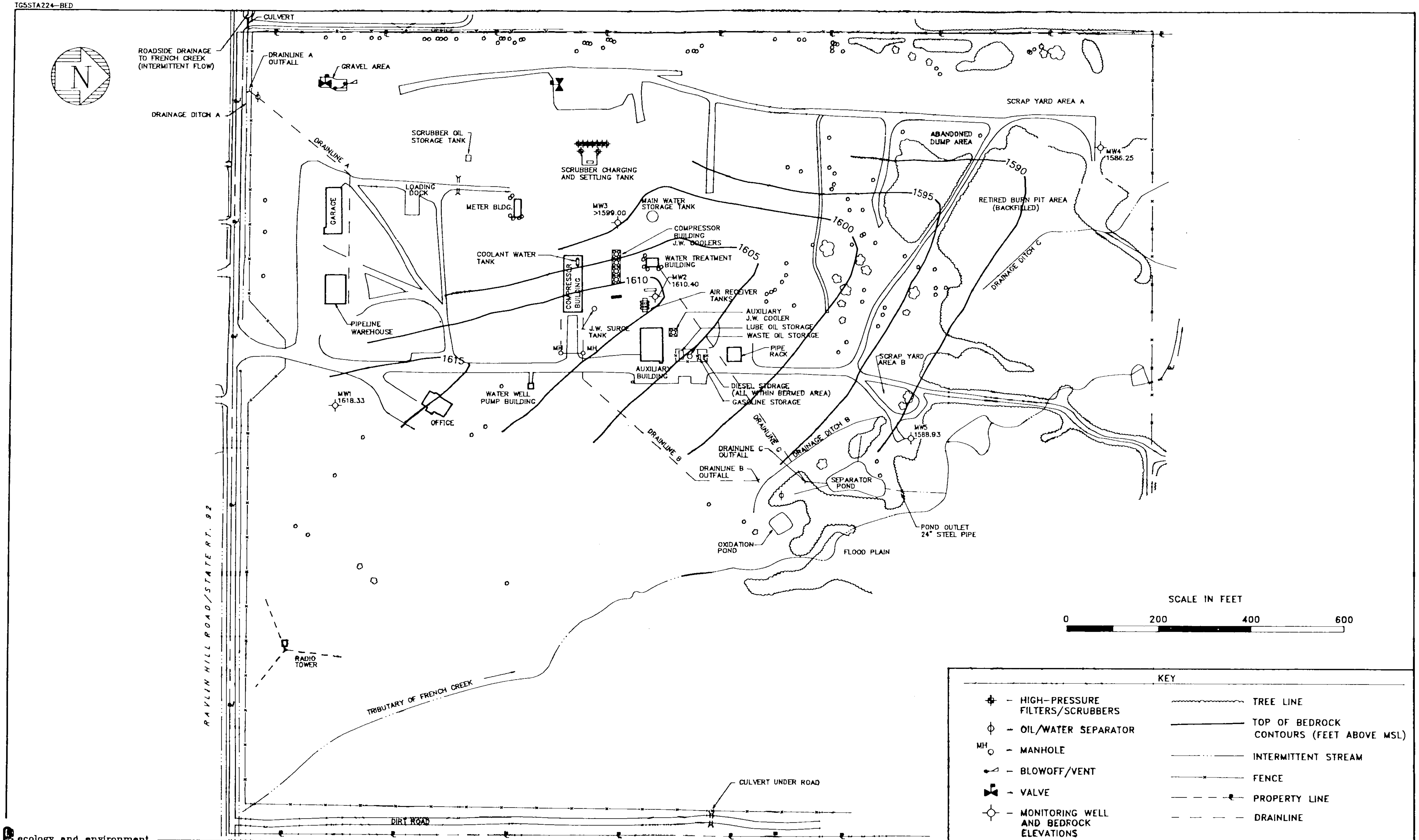


Figure 2-4
CROSS SECTION THROUGH MONITORING WELLS COMPRESSOR STATION 224



ecology and environment

Figure 2-5 BEDROCK ELEVATIONS AND CONTOURS – COMPRESSOR STATION 224

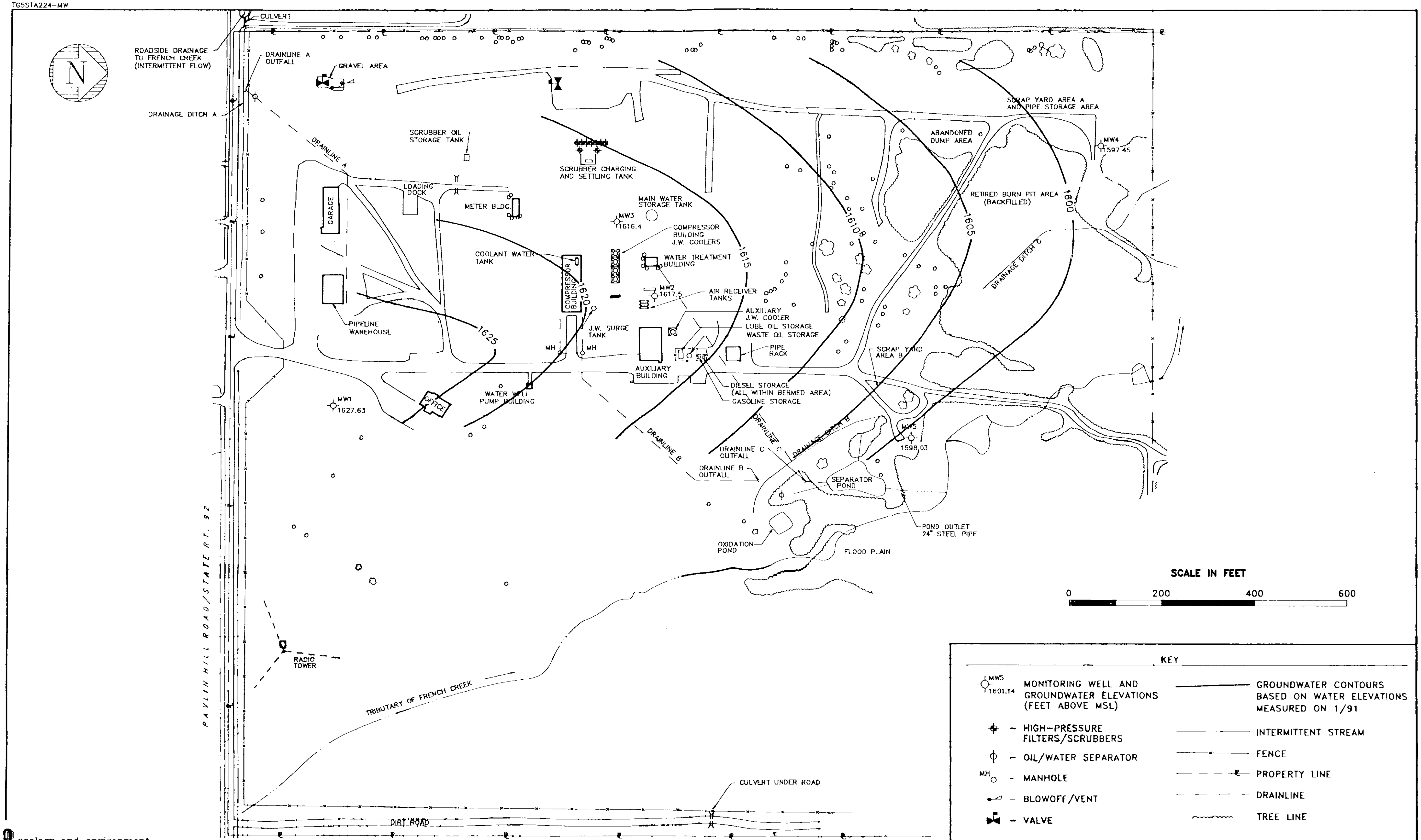


Figure 2-6 GROUNDWATER ELEVATIONS AND CONTOURS - COMPRESSOR STATION 224

3. FIELD INVESTIGATION

3.1 WORK PLAN SUMMARY

E & E developed the SCP for Compressor Station 224 in August 1989. This plan was revised in August 1990 and verbal approval was granted by NYSDEC prior to implementation. The scope of work in the SCP included the following:

- Grid sampling of station soils;
- The sampling of soils from the Compressor Building Area, Auxiliary Building Area, ART Area, the Meter Building Area, Retired Burn Pit Area, the Waste Oil Storage Tank Area, Mainline Gas Valve Areas and Scrubber Charging and Settling Tank Area (miscellaneous pipeline facilities), Drainage Ditch C Area, Drainlines A, B, and C Areas, the monitoring wells, and the Scrap Yard Areas A and B.
- The sampling of sediments and surface waters from the Drainline A and B Areas;
- The sampling of sediments and surface waters from the tributary of French Creek and the Separator Pond Area;
- The sampling of groundwater from five monitoring wells installed as part of this study; and
- The sampling of soils around the jacket water coolers, jacket water modulating valve, and the jacket water surge tank to determine the presence of total and hexavalent chromium.
- The sampling of sediments from manholes located east of the compressor and auxiliary buildings.

This plan was subsequently modified based on field conditions and at the request of Tennessee. As a result, more samples were taken than were originally proposed. The work plan was modified as follows:

- o Sampling of additional sediment and water samples from the tributary of French Creek;
- o Sampling of additional soil samples west of the tributary of French Creek near Redding Road; and
- o Sampling of additional soils from outside the meter buildings which were analyzed for TCLP mercury.
- o Sediment samples were not taken from three of the five manholes because two manholes were covered over with gravel, and the third contained no sediment.

3.2 FIELD WORK SUMMARY

The field work described in the SCP was completed in two phases. Phase IIA field work was conducted between November 16, 1990 and December 21, 1990. Phase IIB field work was conducted between March 25, 1991 and April 2, 1991. Groundwater samples were collected from the five monitoring wells installed on site. As outlined in the SCP, two rounds of groundwater sampling have been conducted. Round 1 sampling was conducted in January 1991, and Round 2 sampling was conducted in April 1991. (Results from Round 2 will be provided in an addendum to this report.)

Figure 3-1 (separate, oversized) identifies the composite grid sampling node locations. Figure 3-1A (separate, oversized) identifies the discrete grid sampling node locations. Figure 3-2 (separate, oversized) identifies the areas that were sampled as part of the site characterization study. Figure 3-3 (separate, oversized) identifies the sample locations for the Compressor Building Area, Auxiliary Building Area, the ART Area, Meter Building Area, Waste Oil Storage Tank Area, the miscellaneous pipeline facilities, Jacket Water Cooler Area, Jacket Water Modulating Valve Area, and Jacket Water Surge Tank Area. Figure 3-4 (separate, oversized) identifies the sample locations along the tributary of French Creek and other miscellaneous soil samples collected from the property purchased in early 1991

During soil sampling, nodes were placed in areas to be sampled either evenly spaced along a line or in a grid pattern. Internodal spacing was set at 5, 10, 20, or 30 feet depending on the area to be sampled. These distances were occasionally altered due to physical obstructions in the sampling areas. Soil samples were collected using a hand auger equipped with a stainless-steel head and removable stainless-steel sleeves, or with a power auger (dependent upon conditions). A stainless-steel spoon was used to transfer the sample from the auger sleeve to a stainless-steel mixing bowl where the sample was homogenized and spooned into the appropriate sample container. The auger, sleeves, and bowls were decontaminated between each sample collection according to procedures outlined in the SCP. The spoons were properly discarded after each use. At most nodes, two samples were obtained; one from the 0- to 6-inch depth interval and one from the 6- to 12-inch depth interval. However, in areas of very compacted soils, penetration to a depth of 12 inches was not always possible. In areas where PCB concentrations during Phase IIA warranted subsequent investigation, nodes were resampled as necessary to depths of 18, 24, 36, and 48 inches.

Sediment samples were collected in the drainageway areas using the same procedure as for soil samples. However, sediment samples from manholes were collected using a glass sample jar connected to a wooden handle. This apparatus was lowered into the manhole and used to scrape the sediment into the jar. Once collected, the sediment was transferred to a sample jar using a stainless-steel spoon. The jar, handle, and spoon were discarded after each sample was collected.

In the collection of surface water samples, a precleaned sample bottle was positioned horizontally, then lowered into the water. As water began to flow into the bottle, the bottle was slowly turned upright, keeping the lip just under the surface so only the surface water was collected. The bottles were then fitted with teflon-lined lids.

Wipe samples were collected by wetting sterile gauze with hexane and wiping a 100 square centimeter (cm^2) surface area with the pad. The 100-cm^2 surface area was delineated by using a teflon template with a 10-cm by 10-cm square hole placed over the desired sampling location. After wiping, the gauze was placed in a 4-ounce glass jar and fitted with a teflon lid.

Monitoring wells were installed using a drill with a rod-recoverable 5-foot (length) by 3-inch (outside diameter) CME continuous sampler (CME Corporation). As each CME soil sample was brought to the surface, the CME barrel was opened and an organic vapor analyzer (OVA) was used to check the sample for volatile organic vapors. Samples were taken directly from the CME sampler using a precleaned stainless-steel spoon and placed in a 4-ounce glass jar. The sample was then described according to the Unified Soil Classification System.

Groundwater samples were collected from monitoring wells by first purging static water from the well until the pH of the water stabilized. A precleaned stainless-steel bailer was then used to collect the sample and transfer the water directly into the appropriate sample containers.

Filtered groundwater samples were collected by pouring water samples into a barrel filter lined with 102 mm size filter paper. Samples were filtered directly into precleaned glass or polyethylene containers, and the barrel filter was thoroughly cleaned between each sample.

In areas of known hydrocarbon spills, four boreholes were sampled to a depth of 8 feet. The samples were obtained by driving a 1-3/8 inch (inside diameter) by 2-foot split-spoon sampler with a 140-pound hammer using a 30-inch stroke. Soil samples were taken directly from the split-spoon sampler samples were submitted for TCL/TAL and TPH analysis.

All samples collected were packed in cooler chests and shipped via Federal Express to the E & E Analytical Services Center (ASC) for analysis. Duplicate samples were submitted for the purpose of QA/QC review of the data set.

3.2.1 Grid Sampling

The GSP comprised two phases. The first phase consisted of the division of the station property into 200-foot by 200-foot blocks. Generally, four nodes were placed 100 feet apart within each block. Each node position was surveyed using existing survey monuments and the locator grids from station maps. Some blocks contained fewer nodes due to physical obstructions such as buildings, asphalt roads, and parking lots. Blocks located adjacent to property boundaries often were smaller than 200 feet by 200 feet and consequently contained fewer nodes as the grid was confined to the property boundaries.

For each block, soil was collected at each node from the 0- to 6-inch depth interval and homogenized. A composite sample was collected from this mixture and analyzed for the presence of PCBs; a total of 58 composite soil samples was collected and submitted for PCB analysis. In addition, eight duplicate samples were collected and submitted for PCB analysis.

Blocks that contained PCBs above the detection limit were subjected to further GSP sampling. The goal of this phase was to determine the magnitude and extent of PCB presence within each block where PCBs were present above detection limits in the first phase of GSP sampling. The sampling approach was designed to produce data that are statistically significant with fewer assumptions than are used in the previous GSP procedure. The 200-foot by 200-foot block was subjected to a hexagonal grid pattern to determine placement of the nodes. The 200-foot by 200-foot block was placed within the hexagon, yielding 23 sample nodes within the block. The number of nodes and the internodal spacing was determined by the shape of the area. For the 200-foot by 200-foot block, an internodal spacing of 42 feet was used. Soil was collected at each node from the 0- to 6-inch depth interval; a total of 23 discrete soil samples were collected. In addition, two duplicate samples were collected and submitted for PCB analysis.

Grid sampling node locations are shown on Figures 3-1 and 3-1A (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.2 Compressor Building Area

Sampling of the Compressor Building Area consisted of the collection of 94 soil samples which were submitted for PCB analysis. Eight samples were also submitted for TCL/TAL analysis. The samples were collected from 44 nodes located around the perimeter of the building. Seventy samples were collected during Phase IIA, and 24 samples were collected during Phase IIB. In addition to the 94 samples, 10 duplicate samples were collected and submitted for PCB analysis. Of the 10 duplicate samples, one was also submitted for TCL/TAL analysis.

Nineteen nodes were located around the building at a distance of 2 feet from the building foundation and spaced at 20-foot intervals wherever possible. An additional 16 nodes were located in the vicinity of each of the four blowdowns in a modified 5-foot square grid. Nine additional Phase IIB nodes were also located along the south side of the building. Generally, Phase IIA nodes were sampled at the 0- to 6-inch depth interval and the 6- to 12-inch depth interval; Phase IIB sample node depth intervals varied depending upon analytical results of the Phase IIA samples. During Phase IIB, nodes 16, 24, 26, 28, 30, 33, and 36 were sampled at the 12- to 24-inch depth interval; node 22 at the 12- to 24-inch depth interval and the 24- to 36-inch depth interval; nodes 38, 43, and 45 were sampled at the 0- to 6-inch depth interval; and nodes 40, 42, 44, and 47 through 49 at two intervals to a depth of 12 inches.

In addition to the 94 soil samples, two oil samples from reciprocating engine crankcases 02 and 03 were collected from air compressors located within the building and submitted for PCB analysis.

Compressor Building Area node locations are shown on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.3 Auxiliary Building Area

Sampling of the Auxiliary Building Area consisted of the collection of 50 soil samples which were submitted for PCB analysis. Of the 50 samples, four were also submitted for TCL/TAL analysis. All soil samples were collected from 25 nodes located around the perimeter of the building. Thirty-two samples were collected during Phase IIA, and 18 samples were collected during Phase IIB. In addition to the 50 samples, four duplicate samples were collected and submitted for PCB analysis.

Eleven nodes were located around the building at a distance of 2 feet from the building foundation and spaced at 20-foot intervals wherever possible. An additional six nodes were located around the perimeter. Eight additional nodes were located around nodes 11 and 16 during Phase IIB. Generally, Phase IIA sample nodes were sampled at the 0- to 6-inch depth interval and the 6- to 12-inch depth interval. Node 17 was sampled only at the 0- to 6-inch depth interval. During Phase IIB, node 15 was sampled at the 12- to 24-inch depth interval; node 16 was sampled at the 6- to 12-inch depth interval; and node 11 was sampled at the 12- to 24-inch depth interval and the 24- to 36-inch depth interval. Additional nodes 18 and 19 were sampled at three intervals to a depth of 24 inches; nodes 20, and 21 were sampled at the 0- to 6-inch depth interval and the 6- to 12-inch depth interval; and nodes 22 through 25 were sampled at the 0- to 6-inch depth interval.

Auxiliary Building Area node locations are shown on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.4 Air Receiver Tank Area

Sampling of the ART Area consisted of the collection of 125 soil samples which were submitted for PCB analysis. Four of the samples were also submitted for TCL/TAL analysis. All samples were collected from 53 nodes located in the area around the ARTs. Forty-eight samples were collected during Phase IIA, and 77 samples were collected during Phase IIB. In addition to the 125 samples, 11 duplicate samples were collected and submitted for PCB analysis.

Twenty-four nodes were located around the ART Area on two 5-foot by 5-foot grids which were located in the vicinity of the blowdown valves. During Phase IIB sampling, 29 additional nodes were located around the ART Area. Generally, Phase IIA nodes were sampled at the 0- to 6-inch depth interval and the 6- to 12-inch depth interval. During Phase IIB, nodes 01, 06, 07, 10, 18, 19, and 21 were sampled at the 12- to 24-inch depth interval; nodes 03, 05, 08, and 20 were sampled at the 12- to 24-inch depth interval and the 24- to 36-inch depth interval; and nodes 02, 09, 16, 17, and 24 were sampled at the 12- to 24-inch depth interval, the 24- to 36-inch depth interval and the 36- to 48-inch depth interval. Phase IIB nodes 25, 27, 31, 32, 35, 36, 40, 41, 44, 45, 48, 49, 51, and 52 were sampled at the 0- to 6-inch depth interval. Sample nodes 26, 28, 30, 33, 34, 37, 39, 42, 43, 46, 50, and 53 were sampled at two intervals to the 12-inch depth. Samples were collected at three intervals to the 24-inch depth at nodes 29, 38, and 47.

ART Area node locations are shown on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.5 Meter Building Area

Sampling of the Meter Building Area consisted of the collection of two composite soil samples and one wipe sample which were submitted for

PCB analysis. The soil samples were collected from a set of four composite sample nodes located outside the north entrance of the building, and at the release valve on the west side of the building. The soil samples were collected from the 0- to 6-inch depth interval and the 6- to 12-inch depth interval. The wipe sample was taken from beneath the center of the westernmost pipe within the building. These samples were collected during Phase IIA.

Meter Building Area node locations are shvon on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.6 Retired Burn Pit Area

Sampling of the Retired Burn Pit Area consisted of the collection of 67 soil samples which were submitted for PCB analysis. All samples were collected from 37 nodes located in the Retired Burn Pit Area. Forty-eight samples were collected during Phase IIA, and 19 samples were collected during Phase IIB. In addition to the 67 samples, seven duplicate samples were collected and submitted for PCB analysis.

Twenty-five nodes were located in the Retired Burn Pit Area on a 20-foot by 20-foot grid. During Phase IIB sampling, 12 additional nodes were located around nodes 12 through 14. Generally, Phase IIA and IIB nodes were sampled at the 0- to 6-inch depth interval and the 6- to 12-inch depth interval. Nodes 18, 26 through 30, and 35 were sampled at the 0- to 6-inch depth interval.

The Retired Burn Pit Area node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.7 Scrap Yard Area A

Sampling of the Scrap Yard Area A consisted of the collection of two soil samples from the 0- to 6-inch depth interval which were submitted for PCB analysis. These samples were collected from two nodes located in the Scrap Yard Area A. These samples were collected during Phase IIA. In addition, 12 soil samples were collected from three boreholes and submitted for TCL/TAL analysis. The samples were collected at 2-foot intervals to a depth of 8 feet. In addition to the

12 borehole samples, one duplicate sample was collected and submitted for PCB and TCL/TAL analysis.

Scrap Yard Area A node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.8 Scrap Yard Area B

Sampling of the Scrap Yard Area B consisted of the collection of two soil samples from the 0- to 6-inch depth interval which were submitted for PCB analysis. The samples were collected from two nodes located in the Scrap Yard Area B. These samples were collected during Phase IIA. In addition to the two soil samples, one duplicate sample was collected and submitted for PCB analysis.

Scrap Yard Area B node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.9 Waste Oil Storage Tank Area

Sampling of the Waste Oil Storage Tank Area consisted of the collection of 20 soil samples which were submitted for PCB analysis. All samples were collected from 13 nodes located around the perimeter of the tank. Eight samples were collected during Phase IIA, and 12 samples were collected during Phase IIB. In addition to the 20 samples, two duplicate samples were collected and submitted for PCB analysis.

The four nodes from the Phase IIA investigation were located at a distance of 2 feet from the tank. During Phase IIB, nine additional nodes were located around Phase IIA nodes 01, 02, and 04. Generally, Phase IIA nodes were sampled at the 0- to 6-inch depth interval and the 6- to 12-inch depth interval. During Phase IIB, node 02 was sampled at the 12- to 24-inch depth interval; nodes 05 and 06 were sampled at two intervals to a depth of 12 inches; and nodes 07 through 13 were sampled at the 0- to 6-inch depth interval only.

Waste Oil Storage Tank Area node locations are shown on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.10 Miscellaneous Pipeline Facilities

Mainline Gas Valve Areas

Sampling of the Mainline Gas Valve Areas consisted of collection of three soil samples from the 0- to 6-inch depth interval which were submitted for PCB analysis. The samples were collected from beneath three mainline valves located in the southwestern corner of the compressor station. All three samples were collected during Phase IIA. In addition to the three samples, one duplicate sample was collected and submitted for PCB analysis.

Mainline Gas Valve Areas sample node locations are shown on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

Scrubber Charging and Settling Tank Area

Sampling of the Scrubber Charging and Settling Tank Area consisted of the collection of 12 soil samples which were submitted for PCB analysis. All samples were collected from seven nodes located around the perimeter of the tank. Three samples were collected during Phase IIA, and nine samples were collected during Phase IIB. In addition to the 12 samples, one duplicate sample was collected and submitted for PCB analysis.

Three nodes were located around the area perimeter at a distance of 2-feet from the tank. During Phase IIB, four additional nodes were located around node 05. Generally, Phase IIA nodes were sampled at the 0- to 6-inch depth interval. During Phase IIB node 05 and nodes 07 through 10 were sampled at two intervals to a depth of 12 inches.

Scrubber Charging and Settling Tank Area node locations are shown on Figure 3-3 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.11 Monitoring Well Soil Sampling

Soil sampling of the monitoring wells consisted of the collection of 16 samples from five borings which were submitted for PCB analysis. These samples were collected during well installation. Two soil samples were collected from MW1: one at the 0- to 6-inch depth interval and the other at the 60- to 66-inch depth interval. Three soil samples were collected from MW2. These samples were collected at the 0- to 60-inch depth interval, the 60- to 120-inch depth interval, and the 120- to 180-inch depth interval. Four soil samples were collected from MW3. These samples were collected at the 0- to 60-inch depth interval, the 60- to 120-inch depth interval; the 120- to 180-inch depth interval; and the 180- to 240-inch depth interval. Four soil samples were collected from MW4. These samples were collected at 0- to 60-inch depth interval, the 60- to 120-inch depth interval, the 120- to 180-inch depth interval, and the 180- to 216-inch depth interval. Three soil samples were collected from MW5. These samples were collected at the 0- to 60-inch depth interval, the 60- to 120-inch depth interval, and 120- to 180-inch depth interval.

Monitoring well sample node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.12 Groundwater Sampling

Sampling of the five station monitoring wells consisted of two rounds of sampling. Round 1 sampling is discussed here; Round 2 sampling will be incorporated into this report at a later date.

MW1 was installed approximately 200 feet south of the office building located at the site entrance. One filtered groundwater sample (W102) was collected and submitted for PCB and TAL inorganics analyses; one unfiltered groundwater sample (W101) was collected and submitted for PCB and TCL/TAL analysis.

MW2 was installed approximately 20 feet north of the ART Area. One filtered groundwater sample (W104) was collected and submitted for PCB and TAL inorganics analyses; one unfiltered groundwater sample (W103) was collected and submitted for PCB and TCL/TAL analyses.

MW3 was installed approximately 75 feet west of the jacket water coolers. One filtered groundwater sample (W106) was collected and submitted for PCB and TAL inorganics analyses; one unfiltered groundwater sample (W105) was collected and submitted for PCB and TCL/TAL analyses.

MW4 was installed approximately 80 feet west of the Retired Burn Pit. One filtered groundwater sample (W108) was collected and submitted for PCB and TAL inorganics analyses; one unfiltered groundwater sample (W107) was collected and submitted for PCB and TCL/TAL analyses.

MW5 was installed approximately 125 feet northwest of the separator pond. One filtered groundwater sample (W110) was collected and submitted for PCB and TAL inorganics analyses; one unfiltered groundwater sample (W109) was collected and submitted for PCB and TCL/TAL analyses.

The five unfiltered groundwater samples were also submitted for general chemistry parameters analyses. These analyses included total petroleum hydrocarbons (TPH), total dissolved solids (TDS), total organic carbon (TOC), and total organic halogen (TOX).

In addition to the five filtered groundwater samples, one duplicate sample was collected and submitted for PCB and TAL inorganics analyses. In addition to the five unfiltered groundwater samples, one duplicate sample was collected and submitted for PCB, TCL/TAL, and general chemistry analyses.

Monitoring well locations are shown on Figure 3-2 (separate, oversized), and corresponding sample information are identified in Section 4.

3.2.13 Drainline A Area

Sampling of the Drainline A Area consisted of the collection of one sediment sample at the oil/water separator; one soil sample each from the on- and off-site outfalls; and one surface water sample from the on-site outfall. All samples were collected during Phase IIA and submitted for PCB analysis. The on-site outfall soil sample was also submitted for TCL/TAL analysis. In addition to the four samples, one duplicate soil sample was collected and submitted for PCB analysis.

Drainline A Area node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.14 Drainline B Area

Sampling of the Drainline B Area consisted of the collection of three sediment samples from the two manholes and the oil/water separator, and one surface water sample from the Drainline B Area. The two manholes associated with Drainline B are located near the east side of the Compressor Building. These samples were collected during Phase IIA and submitted for PCB analysis. In addition, a soil sample was collected from the Drainline B Outfall Area and submitted for volatile and semivolatile organic analysis and TAL analysis. This sample was not analyzed for PCBs or pesticides due to a laboratory accident.

Drainline B Area node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.15 Drainline C Area

Sampling of the Drainline C Area consisted of the collection of one soil sample from the Drainline C Area. This sample was collected during Phase IIA and was submitted for TCL/TAL analysis.

The Drainline C Area sample node location is shown on Figure 3-2 (separate, oversized), and its corresponding sample number and depth are identified in Section 4.

3.2.16 Drainage Ditch C Area

Sampling of the Drainage Ditch C Area consisted of the collection of seven soil samples which were submitted for PCB analysis. All samples were collected during Phase IIA from seven nodes located along the drainage ditch north of the operations area. In addition to the seven soil samples, one duplicate sample was collected and submitted for PCB analysis.

Five nodes were located along the ditch running north to south at 200-foot intervals. Two additional nodes were located along a branch of the ditch. The nodes were sampled to a 0- to 6-inch depth interval.

Drainage Ditch C Area node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.17 Miscellaneous Soils

Sampling of the miscellaneous soils consisted of the collection of four samples west of the tributary of French Creek near Redding Road which were submitted for PCB analysis. The samples were collected at the 0- to 6-inch depth interval during Phase IIA.

Miscellaneous soil node locations are shown on Figure 3-4 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.18 Separator Pond Area

Sampling of the Separator Pond Area consisted of the collection of 41 soil and sediment samples which were submitted for PCB analysis. Of the 41 samples, one sediment sample was submitted for TCL/TAL analysis. Forty-one samples were collected from 20 nodes located around the perimeter of the pond. Eight sediment samples were collected during Phase IIA; 33 soil and sediment samples were collected during Phase IIB. In addition to the 41 samples, five duplicate samples were collected and submitted for PCB analysis.

Eight nodes were located around the perimeter of the separator pond. An additional 12 nodes were located around node 01 and nodes 03 through 07 during Phase IIB. Generally, Phase IIA sample nodes were sampled at the 0- to 6-inch depth interval. Sample nodes 01 and 08 were sampled at the 6- to 12-inch depth interval; and sample nodes 04 through 07 were sampled at the 6- to 12-inch and 12- to 24-inch depth intervals during Phase IIB. During Phase IIB, additional node 09 was sampled at the 0- to 6-inch depth interval; and nodes 10 through 20 were sampled at two intervals to a depth of 12 inches.

Separator Pond Area node locations are shown on Figure 3-2 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.19 Tributary of French Creek

Sampling of the tributary of French Creek consisted of the collection of 69 sediment and six water samples which were submitted for PCB analysis. Of the 75 samples, four sediment samples were submitted for TCL/TAL analysis. All samples were collected from 52 nodes located along or near the tributary of French Creek. A total of 39 sediment samples and five water samples was collected during Phase IIA; 30 sediment samples and one water sample were collected during Phase IIB. In addition to the 75 samples, seven duplicate samples were collected and submitted for PCB analysis.

Twenty-six nodes were located along the tributary between the separator pond and the property line indicated by the fence, spaced at 200-foot intervals wherever possible. Thirteen nodes were located along the tributary between the fence and its junction with French Creek spaced at 1,000-foot intervals wherever possible. These nodes were sampled during Phase IIA; due to sample results an additional 13 nodes were located 10 feet from existing nodes for Phase IIB sampling. Generally, during Phase IIA, samples were collected at the 0- to 6-inch depth interval. During Phase IIB sampling, nodes 02 through 07, 10, 12, 13, 15, 19, 20, and 22 through 24 were sampled at the 6- to 12-inch depth interval. During IIB, additional nodes 27 and 29 through 38 were samples at the 0- to 6-inch depth interval and additional nodes 28 and 39 were sampled at two intervals to the 12-inch depth.

Tributary of French Creek node locations are shown on Figures 3-2 and 3-4 (separate, oversized), and their corresponding sample numbers and depths are identified in Section 4.

3.2.20 Areas Sampled for Toxicity Characteristic Leaching Procedure (TCLP) Mercury or Total and Hexavalent Chromium

Meter Building Area

Two five-point composite soil samples were collected from the Meter Building Area and submitted for TCLP mercury analysis. These samples were collected from nodes located at the east and west entrances of the building and were sampled at the 0- to 6-inch depth interval.

The Meter Building Area nodes and their corresponding sample numbers and depths are identified in Section 4.

Jacket Water Cooler Area

Sixteen soil samples and two duplicate soil samples were collected and submitted for total and hexavalent chromium analysis. These samples were collected from the 0- to 6-inch depth interval and 6- to 12-inch depth interval at eight sample nodes.

The Jacket Water Cooler Area nodes and their corresponding sample numbers and depths are identified in Section 4.

Jacket Water Surge Tank Area

Eight soil samples and one duplicate soil sample was collected and submitted for total and hexavalent chromium analysis. These samples were collected from the 0- to 6-inch depth interval and 6- to 12-inch depth interval at four sample nodes.

The Jacket Water Surge Tank Area nodes and their corresponding sample numbers and depths are identified in Section 4.

Jacket Water Modulating Valve Area

Two soil samples were collected and submitted for total and hexavalent chromium analysis. These samples were collected from the 0- to 6-inch depth interval and 6- to 12-inch depth interval at the single node.

The Jacket Water Modulating Valve Area node and its corresponding sample numbers and depths are identified in Section 4.

3.3 ECOLOGICAL FIELD WORK SUMMARY

This section summarizes the Habitat-Based Assessment (HBA) field verification conducted by E & E at Station 224. The HBA was conducted to inventory terrestrial and aquatic habitats in the vicinity of the station.

The methodologies involved in HBAs have been defined in Technical and Administrative Guidance Memorandum (TAGM): Habitat-Based Assessment Guidance Document for Conducting Environmental Risk Assessments at Hazardous Waste Sites (NYSDEC 1989). HBAs are a three-step process; however, only Step 1 is required by NYSDEC at this time. Step 1, "A Description of the Existing Environment," consists of (A) Site Description, (B) Resource Characterization, and (C) Hazardous Threshold Identification. E & E's role in the completion of the HBA is limited primarily to Parts A and B and involved field verification of cover type mapping completed by Environ Corporation (Environ), and field reconnaissance to characterize the functional quality of identified habitats in terms of their ability to provide for the needs of significant native species.

3.3.1 Terrestrial Ecosystems

Prior to initiating field activities, E & E biologists reviewed all supporting documentation supplied by Environ. This information included: aerial photographs, preliminary cover type maps, wetland maps, and agency contacts concerning endangered/threatened species and significant habitats. The aerial photographs provided of the station were of limited use in identifying vegetation units as the available photographs did not cover the entire 0.5-mile radius study area.

The field survey at Station 224 was conducted between April 17 and 19, 1991. The primary focus of the survey was to field verify areas identified as woodland on the preliminary Environ cover type maps, as well as additional vegetation communities identified in the field. Each distinct vegetation community within a 0.5-mile radius was field surveyed to generally characterize the stand. Each vegetation cover type identified was classified according to the New York State Natural Heritage Program's Ecological Communities of New York State (Reschke 1990). At the time of the survey, most tree and shrub species were still in a dormant condition; thus identification required examination of buds, barks, and surrounding leaf litter. To prevent procedural bias between sampling teams, transects were randomly located within several different cover types. Systematic vegetation sampling was conducted along each transect using the point-quarter techniques for tree and sapling species and the quadrat method for shrubs and herbaceous cover.

Point-quarter sampling is used for identifying the tree and sapling species and the density, dominance, and frequency of each species within a forest plant community. Point-quarter sampling was used in this study primarily to minimize bias between sample teams in characterizing the composition of the plant community. The overall objectives of this study did not require the establishment of numerous sampling transects to generate statistically significant quantitative data.

Quadrat sampling involves setting up a plot of known area and identifying the shrub and herbaceous species within the plot. Additional shrub and herbaceous species not occurring within sampled quadrats but present in recognizable numbers are also recorded.

In addition to noting the dominant species within each vegetation unit, E & E biologists characterized the stands with regard to age, size, primary utilization potential, and overall ecological value. However, areas denoted as agricultural (crop or pasture), reverting field, and maintained lawn were not surveyed other than identifying the few dominant species.

Observations of wildlife utilization were noted during the walkover reconnaissance. Observations consisted of actual sightings, notation of calls, and the identification of browse, spoor, dens, nests and droppings.

3.3.2 Aquatic Ecosystems

Prior to entering the field, E & E biologists reviewed aerial photographs and USGS quad maps to identify perennial streams and other water bodies in the vicinity of the compressor station. Any supporting documentation provided by Environ was also reviewed.

All field observations and measurements were completed during the aquatic ecosystem survey conducted between April 17 and 19, 1991. The primary focus of this survey was to identify available habitat rather than identify actual aquatic/benthic species present. However, any incidental sightings were noted and recorded.

At representative points along a stream, physical characteristics of the water body were observed and recorded. These observations included stream location, bank height, and composition, substratum composition, and flow estimates. Additionally, at each perennial stream within the 0.5-mile radius, field measurements were taken of water temperature, pH, conductivity, dissolved oxygen (DO), alkalinity, and hardness. No systematic sampling was conducted to identify fish or benthic microinvertebrate populations. However, during the measurements of the physical and chemical parameters, any fish sightings were noted. Rocks were occasionally overturned to obtain a rough estimation of in-stream macroinvertebrate populations. Because no samples were collected and preserved, identification of benthic macroinvertebrates extend no further than "Order."

4. RESULTS OF THE SAMPLING PROGRAM

This section presents the results of the sampling program at Station 224. For the purposes of this report, detection limits for PCBs using the procedures listed in 40 CFR 136, Appendix B are set as follows: soil, 1 mg/kg; sediment, 0.1 mg/kg; and water, 0.50 µg/L, unless otherwise indicated. The detection limits for oil and wipe samples used in this report are 1 mg/kg and 0.015 mg/cm^2, respectively. Substances not present above detection limits in the samples are shown in the data summary tables as "ND." All results are presented in the data summary tables at the end of this section. Analytical procedures utilized in the analyses of the samples collected for this study are presented in Appendix C. All laboratory reports for samples collected during this study are found in Appendix D which is provided in four volumes (Volumes 1 and 2 and a volume of groundwater analysis data for all New York State reports [previously submitted]; and Volume 3 which is included with this report).

During the course of TCL organic analysis, acetone, methylene chloride, and phthalate esters were detected in most samples; however, these substances were also detected in the laboratory and field blanks. The presence of these substances was attributed to sample handling and preparation in the field or laboratory and therefore the results are not discussed further in this section. Low levels of other common laboratory contaminants, such as chloroform, were also not considered significant because their presence is generally associated with background laboratory contamination. All results are reported in the data summary tables and qualified with a "B" if the compound was also present in the laboratory method blank. Other letter designations were used to qualify results in the data summary tables. The qualifiers "J," "U," and "R" and their associated subscripts are defined and discussed in Section 5.

PCB sample location figures are presented separately for all sampled areas in which analysis showed PCBs to be present at concentrations above detection limits. All nodes are shown on Figures 3-1 through 3-4 (separate, oversized). Sample location figures for samples analyzed for TCL/TAL substances, total chromium and hexavalent, TCLP, mercury, and TPHs are referenced and presented in this section. In addition, for clarity, the PCB composite sample locations for the meter buildings are shown on separate figures in this section.

4.1 GRID SAMPLING

4.1.1 PCB Analysis

During Phase I grid sampling, 58 composite soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above the detection limit in sample number 9042 at a concentration of 2.3 mg/kg. Sample number 9027 contained Aroclor 1248 at a concentration of 13 mg/kg. During Phase II grid sampling, 41 discrete soil samples were collected and analyzed for PCBs. No PCBs were present above detection limits in any of the discrete soil samples.

Figure 3-1 (separate, oversized) identifies the PCB composite soil sample nodes; Figure 3-1A (separate, oversized) identifies the discrete soil sample nodes. Table 4-1 summarizes the PCB analytical results for composite grid samples; Table 4-2 summarizes the PCB analytical results for discrete grid samples.

4.1.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.2 COMPRESSOR BUILDING AREA

4.2.1 PCB Analysis

Ninety-four soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above the detection limit in 19 samples with concentrations ranging from 1.2 mg/kg to 940 mg/kg. Three samples contained Aroclor 1248 above detection limits at concentrations ranging from 5.2 mg/kg to 23 mg/kg. PCBs were not present above detection limits in the two crankcase oil samples.

Table 4-3 summarizes the PCB analytical results for soil samples. Table 4-4 summarizes the PCB analytical results for the crankcase oil samples.

4.2.2 TCL/TAL Analysis

Eight soil samples were also analyzed for TCL/TAL substances. Sample A047 contained carbon disulfide above the detection limit at a concentration of 12 μg/kg. No other organic compounds were present above the detection limits in any of the samples.

TAL analysis revealed all eight samples contained aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, total cyanide, vanadium, and zinc at concentrations above detection limits. In addition, samples A047, A057, and A065 contained selenium, and samples A047, A048, A056, A057, A064, A065, and A073 contained sodium at concentrations above detection limits. Sample A074 and A057 also contained thallium at a concentration above the detection limit.

Figure 4-1 identifies TCL/TAL sample locations. TCL analytical results are summarized in Table 4-5. TAL analytical results are summarized in Table 4-6.

4.3 AUXILIARY BUILDING AREA

4.3.1 PCB Analysis

Fifty soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above the detection limit in five soil samples at concentrations ranging from 1.5 mg/kg to 8.6 mg/kg. Aroclor 1248 was present above the detection limit in samples A153 and A154 at concentrations of 500 mg/kg and 63 mg/kg, respectively.

Table 4-7 summarizes the PCB analytical results.

4.3.2 TCL/TAL Analysis

Four soil samples were also analyzed for TCL/TAL substances. Sample A171 contained 1,1-dichloroethane above detection limits at a concentration of 27 μg/kg. No other organic compounds were present above the detection limits in any of the samples.

TAL analysis of the soil samples revealed all four samples to contain aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, total cyanide, vanadium, and zinc at concentrations above detection limits.

Figure 4-2 identifies the locations of TCL/TAL samples. TCL analytical results are summarized in Table 4-8. TAL analytical results are summarized in Table 4-9.

4.4 AIR RECEIVER TANK AREA

4.4.1 PCB Analysis

One hundred twenty-five soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above detection limits in 71 of the samples. Concentrations ranged from 1.2 mg/kg to 9,700 mg/kg. Aroclor 1248 was present above detection limits in 25 of the soil samples at concentrations ranging from 1.2 mg/kg to 2,300 mg/kg.

Table 4-10 summarizes the PCB analytical results.

4.4.2 TCL/TAL Analysis

Four soil samples were also analyzed for TCL/TAL substances. Samples A188 and A189 contained 1,1,1-trichloroethane above detection limits at concentrations of 720 µg/kg and 5,800 µg/kg, respectively. Sample A188 also contained 1,1-dichloroethane and 1,1-dichloroethene at concentrations of 61 µg/kg and 24 µg/kg, respectively. No other organic compounds were present above the detection limits in any of the samples.

TAL analysis revealed all four samples to contain aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, total cyanide, vanadium, and zinc at concentrations above detection limits.

Figure 4-3 identifies TCL/TAL sample locations. TCL analytical results are summarized in Table 4-11. TAL analytical results are summarized in Table 4-12.

4.5 METER BUILDING AREA

4.5.1 PCB Analysis

Two composite soil samples and one wipe sample were collected and analyzed for PCBs. No PCBs were present above detection limits in the soil samples. Aroclor 1248 was present above the detection limit in the wipe sample at a concentration of 0.41 $\mu g/cm^2$.

Figure 4-4 identifies the sample locations and PCB results for the samples taken in the Meter Building Area. Tables 4-13 and 4-14 summarize the PCB analytical results for the soil and wipe samples, respectively.

4.5.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.6 RETIRED BURN PIT AREA

4.6.1 PCB Analysis

Sixty-seven soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above detection limits in five samples with concentrations ranging from 1.3 mg/kg to 6.6 mg/kg.

Table 4-15 summarizes the PCB analytical results.

4.6.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.7 SCRAP YARD AREA A

4.7.1 PCB Analysis

Fourteen soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above the detection limit in sample A602 at a concentration of 1.3 mg/kg.

Table 4-16 summarizes the PCB analytical results.

4.7.2 TCL/TAL Analysis

Twelve soil samples were also analyzed for TCL/TAL substances. Samples A602, A605, and A608 contained total PAH concentrations of 75,200 µg/kg, 153,400 µg/kg, and 5,730 µg/kg, respectively. Sample A602 also contained dibenzofuran at a concentration of 940 µg/kg. No other organic compounds were present above the detection limits in any of the samples.

Sample A606 was analyzed only for total cyanide which was present at a concentration above the detection limit. TAL analysis revealed the remaining 11 samples to contain aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc at concentrations above detection limits. Samples A601, A609, A610, A611, and A612 contained cadmium at concentrations above detection limits. Selenium was present in samples A608 and A609 at concentrations above detection limits. Sample A603 and A611 contained antimony at a concentration above the detection limit.

Figure 4-5 identifies TCL/TAL sample locations. TCL analytical results are summarized in Table 4-17. TAL analytical results are summarized in Table 4-18.

4.8 SCRAP YARD AREA B

4.8.1 PCB Analysis

Two soil samples were collected and analyzed for PCBs. PCBs were not present above detection limits in either sample.

Table 4-19 summarizes the PCB analytical results.

4.8.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.9 WASTE OIL STORAGE TANK AREA

4.9.1 PCB Analysis

Twenty soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above detection limits in six samples at concentrations ranging from 1.3 mg/kg to 6.6 mg/kg. Three samples contained Aroclor 1248 above detection limits at concentrations ranging from 2.6 mg/kg to 4.9 mg/kg.

Table 4-20 summarizes the PCB analytical results.

4.9.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.10 MISCELLANEOUS PIPELINE FACILITIES

4.10.1 PCB Analysis

Fifteen soil samples were collected and analyzed for PCBs. No PCBs were present above detection limits in any of the three soil samples collected from the Mainline Gas Valve Areas. Aroclor 1254 was present above detection limits in five of the 12 soil samples collected from the Scrubber Charging and Settling Tank Area at concentrations ranging from 1.2 mg/kg to 7.9 mg/kg. Aroclor 1248 was present above the detection limit at a concentration of 3.8 mg/kg in one soil sample from the Scrubber Charging and Settling Tank Area.

Table 4-21 summarizes the PCB analytical results for soil samples taken from the Mainline Gas Valve Areas. Table 4-22 summarizes the PCB analytical results for soil samples taken from the Scrubber Charging and Settling Tank Area.

4.10.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.11 MONITORING WELL SOIL SAMPLING

4.11.1 PCB Analysis

Sixteen soil samples were collected and analyzed for PCBs. Aroclor 1254 was present above the detection limit in one sample from MW5 at a concentration of 2.4 mg/kg.

Table 4-23 summarizes the PCB analytical results.

4.11.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.12 GROUNDWATER SAMPLING

4.12.1 PCB Analysis

During Round 1 groundwater sampling, one filtered and one unfiltered groundwater sample from each of the five monitoring wells were collected and analyzed for PCBs. No PCBs were present above detection limits in any of the samples.

Table 4-24 summarizes the PCB analytical results.

4.12.2 TCL/TAL Analysis

During Round 1 groundwater sampling, each of the five unfiltered groundwater samples were analyzed for TCL/TAL substances. No organic substances were present above the detection limits in any of the samples.

TAL analysis of unfiltered water samples indicated that all monitoring wells contain aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc at concentrations above the detection limits. Samples from MW3 and MW4 also contained mercury at concentrations above the detection limits.

The five filtered groundwater samples were analyzed for TAL substances only. TAL analysis of water samples indicated that filtered samples from all monitoring wells contained barium, calcium, iron, magnesium, manganese, potassium, sodium, and zinc at concentrations above detection limits. Filtered samples from MW3, MW4, and MW5 also contained aluminum and the MW5 sample also contained cobalt at concentrations above the detection limits.

Additional general chemistry analyses were performed on each of the five unfiltered groundwater samples. TPHs were not present above detection limits in any of the samples. TOC was present above detection limits in all five samples with concentrations ranging from 9,400 µg/L to 53,000 µg/L. TOX was present above detection limits in four of the five samples with concentrations ranging from 6.7 µg/L to 40 µg/L. Total dissolved solids were present at concentrations above detection limits in all five samples ranging from 42,000 to 300,000 µg/L.

Figure 4-6 identifies the locations of TCL/TAL sample nodes. Table 4-24A summarizes general chemistry results for the unfiltered water samples. TCL analytical results for unfiltered groundwater samples are summarized in Table 4-25. Table 4-26 summarizes the TAL analytical results for unfiltered groundwater samples. Table 4-27 summarizes the TAL analytical results for filtered groundwater samples.

4.13 DRAINLINE A AREA

4.13.1 PCB Analysis

Two soil, one sediment, and one surface water sample were collected and analyzed for PCBs. Aroclor 1254 was present above detection limits in the sediment sample from the Drainline A oil/water separator at a concentration of 2.8 mg/kg. PCBs were not present above detection limits in the soil or water samples.

Tables 4-28, 4-29, 4-30 and 4-31 summarize the PCB analytical results for samples taken from the Drainline A Area.

4.13.2 TCL/TAL Analysis

The soil sample from the outfall was analyzed for TCL/TAL substances. Sample A371 contained a total PAH concentration of 1,890 µg/kg. Benzidine and beta-BHC were present above detection limits at concentrations of 3,200 and 7.2 µg/kg respectively. The results for benzidine were qualified as unreliable and are therefore not discussed further in this section. Refer to Section 5 for a discussion of sample result qualifications. No other organic compounds were present above the detection limits in the sample.

TAL analysis indicated the presence of aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, vanadium, and zinc in the sample at concentrations above the detection limits.

The sample contained 380 mg/kg of total cyanide. However, the sample was reanalyzed on February 5, 1991 due to suspected matrix interference from bismuth nitrate identified by the laboratory in several samples. The reanalysis indicated that total cyanide was not present above the detection limit in this sample. This was referenced in a personal communication to NYSDEC. Further investigation revealed that a substance in the road salt used by the highway department during winter months contained ferric ammonium ferrocyanide (see Section 6.2.2 in Volume III). Therefore, additional samples were collected in July 1991 from the Drainline A Area on- and off-site outfalls and were analyzed for total cyanide. Total cyanide was not present above the detection limit in any of these samples. Lab data for these samples will be included in the final report.

Figure 4-7 identifies the location of the TCL/TAL sample node. TCL analytical results are summarized in Table 4-32. TAL analytical results are summarized in Table 4-33.

4.14 DRAINLINE B AREA

4.14.1 PCB Analysis

Three sediment and one water sample were collected and analyzed for PCBs. Aroclor 1254 was present above the detection limits in the two sediment samples from the manholes at concentrations of 0.56 mg/kg and 0.99 mg/kg. Aroclors 1254 and 1248 were present above detection limits in the sediment sample from the oil/water separator at concentrations of 2,300 mg/kg and 580 mg/kg, respectively. Aroclor 1254 was present above the detection limit in the water sample from the outfall at a concentration of 0.60 µg/L. The soil sample from the area around the outfall was not analyzed for PCBs.

Tables 4-34 through 4-36 summarizes the PCB analytical results.

4.14.2 TCL/TAL Analysis

One soil sample from the outfall was analyzed for volatile and semivolatile organic compounds and TAL substances. No organic substances were present at concentrations above the detection limits.

TAL analysis indicated the presence of aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, total cyanide, vanadium, and zinc at concentrations above the detection limits.

Figure 4-8 identifies the location of the TCL/TAL soil sample node. TCL analytical results are summarized in Table 4-37. TAL analytical results are summarized in Table 4-38.

4.15 DRAINLINE C AREA

4.15.1 PCB Analysis

One soil sample from the outfall was collected and analyzed for PCBs. PCBs were not present above detection limits in this sample.

Table 4-39 summarizes the PCB analytical results.

4.15.2 TCL/TAL Analysis

The soil sample from the outfall was also analyzed for TCL/TAL substances. No organic substances were present at concentrations above the detection limits.

TAL analysis indicated the presence of aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, total cyanide, vanadium, and zinc at concentrations above the detection limits.

Figure 4-9 identifies the location of the TCL/TAL soil sample node. TCL analytical results are summarized in Table 4-40. TAL analytical results are summarized in Table 4-41.

4.16 DRAINAGE DITCH C AREA

4.16.1 PCB Analysis

Seven soil samples were collected and submitted for PCB analysis. PCBs were not present above detection limits in any of the samples.

Table 4-42 summarizes the PCB analytical results for soil samples from the Drainage Ditch C Area.

4.16.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.17 MISCELLANEOUS SOILS

4.17.1 PCB Analysis

Four soil samples were collected and analyzed for PCBs. PCBs were not present above detection limits in any of these samples.

Tables 4-43 summarize the PCB analytical results.

4.17.2 TCL/TAL Analysis

No samples were collected for TCL/TAL analysis.

4.18 SEPARATOR POND AREA

4.18.1 PCB Analysis

Forty-one soil and sediment samples were collected and analyzed for PCBs. Aroclór 1254 was present above detection limits in 17 of the 18 sediment samples at concentrations ranging from 0.28 to 310 mg/kg. Aroclor 1248 was present above detection limits in four of the 18 sediment samples at concentrations ranging from 0.56 to 10 mg/kg. Aroclor 1254 was present above the detection limit in 17 of the 23 soil samples at concentrations ranging from 1.4 mg/kg to 2,400 mg/kg. Aroclor 1248 was present above the detection limit in two of the 23 soil samples at concentrations of 460 mg/kg and 780 mg/kg.

Table 4-44 summarizes the PCB analytical results.

4.18.2 TCL/TAL Analysis

One sediment sample was also analyzed for TCL/TAL substances. No organic substances were present above the detection limits in the sample.

TAL analysis indicated the presence of aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, total cyanide, vanadium, and zinc at concentrations above the detection limits.

Figure 4-10 identifies the locations of the TCL/TAL sample nodes. TCL analytical results are summarized in Table 4-45. TAL analytical results are summarized in Table 4-46.

4.19 TRIBUTARY OF FRENCH CREEK

4.19.1 PCB Analysis

Sixty-nine sediment samples and six water samples were collected and analyzed for PCBs. Aroclor 1254 was present above detection limits in 51 sediment samples at concentrations ranging from 0.14 to 17 mg/kg. Aroclor 1248 was present above detection limits in 14 sediment samples ranging in concentration from 0.13 to 10 mg/kg. Aroclor 1254 was present above the detection limits in water sample A429 at a concentration of 1.1 µg/L.

Tables 4-47 and 4-48 summarize the PCB analytical results.

4.19.2 TCL/TAL Analysis

Four sediment samples were also analyzed for TCL/TAL substances. No organic substances were present above the detection limits in any of the samples.

TAL analysis indicated that all samples contained aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, vanadium, and zinc at concentrations above detection limits. Samples A402 and A433 contained selenium; samples A402 and A431 contained hexavalent chromium; and samples A419 and A433 contain total cyanide at concentrations above the detection limits.

Figure 4-11 identifies the location of the TCL/TAL sample nodes. TCL analytical results are summarized in Table 4-49. TAL analytical results are summarized in Table 4-50.

4.20 AREAS SAMPLED FOR TCLP MERCURY OR TOTAL AND HEXAVALENT CHROMIUM

4.20.1 Meter Building Area

Two composite soil leachate samples were analyzed for TCLP mercury. TCLP mercury was not present above the detection limit in either sample.

Figure 4-12 identifies the mercury sample locations and their corresponding analytical results. Table 4-51 summarizes the mercury analytical results.

4.20.2 Jacket Water Cooler Area

Sixteen soil samples were analyzed for total and hexavalent chromium. Total chromium was present above the detection limit in all 16 samples at concentrations ranging from 16 mg/kg to 120 mg/kg. Hexavalent chromium was present above the detection limit in six samples at concentrations ranging from 0.14 mg/kg to 1.6 mg/kg.

Figure 4-13 identifies the chromium sample locations and their corresponding analytical results. Total and hexavalent chromium analytical results are summarized in Table 4-52.

4.20.3 Jacket Water Surge Tank Area

Eight soil samples were analyzed for total and hexavalent chromium. Total chromium was present above the detection limit in all eight samples at concentrations ranging from 4.2 mg/kg to 27 mg/kg. Hexavalent chromium was not present above the detection limit in any of the samples.

Figure 4-14 identifies the chromium sample locations and their corresponding analytical results. Total and hexavalent chromium analytical results are summarized in Table 4-53.

4.20.4 Jacket Water Modulating Valve Area

Two soil samples were analyzed for total and hexavalent chromium. Total chromium was present above the detection limit in both samples at concentrations of 36 and 150 mg/kg. Hexavalent chromium was not present above the detection limit in either sample.

Figure 4-14 identifies the chromium sample locations and their corresponding analytical results. Total and hexavalent chromium analytical results are summarized in Table 4-54.

Table 4-1

PCB RESULTS FOR COMPOSITE SOIL SAMPLES
GRID SAMPLING
COMPRESSOR STATION 224

Composite Node	Sample Number	Sample Depth (inches)	Analytical Result
T2,T3,U2,U3	9001	0 - 6	ND
R2,R3,S2,S3	9002	0 - 6	ND
P2,P3,Q2,Q3	9003	0 - 6	ND
N2,N3,O2,O3	9004	0 - 6	ND
L2,L3,M2,M3	9005	0 - 6	ND
J2,J3,K2,K3	9006	0 - 6	ND
H2,H3,I2,I3	9007	0 - 6	ND
F2,F3,G2,G3	9008	0 - 6	ND
D2,D3,E2,E3	9009	0 - 6	ND
B2,B3,C2,C3	9010	0 - 6	ND
H4,H5,I4,I5	9015	0 - 6	ND
J4,J5,K4,K5	9016	0 - 6	ND
L4,L5,M4	9017	0 - 6	ND
N4,N5,O4,O5	9018	0 - 6	ND
P4,Q4,Q5	9019	0 - 6	ND
R4,R5,S4,S5	9020	0 - 6	ND
T4,U4,U5	9021	0 - 6	ND
U6,U7	9023	0 - 6	ND
R6,R7,S6,S7	9024	0 - 6	ND
P6,P7,Q6,Q7	9025	0 - 6	ND
N7,O6,O7	9026	0 - 6	ND
L6,L7,M7	9027	0 - 6	13 (1248)
J6,J7,K6,K7	9028	0 - 6	ND
H6,H7,I6,I7	9029	0 - 6	ND
G6,G7	9030	0 - 6	ND
F8,G8	9036	0 - 6	ND
H8,H9,I8,I9	9037	0 - 6	ND
J8,J9,K8,K9	9038	0 - 6	ND
L8,L9,M9	9039	0 - 6	ND
N8,N9,O8,O9	9040	0 - 6	ND

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Table 4-1 (Cont.)

Composite Node	Sample Number	Sample Depth (inches)	Analytical Result
P8,P9,Q8,Q9	9041	0 - 6	ND
R8,R9,S8,S9	9042	0 - 6	2.3
T8,T9,U9	9043	0 - 6	ND
T10,T11,U10,U11	9045	0 - 6	ND
R10,R11,S10,S11	9046	0 - 6	ND
P10,P11,Q10,Q11	9047	0 - 6	ND
N10,N11,O10,O11	9048	0 - 6	ND
L10,L11,M10,M11	9049	0 - 6	ND
J10,J11,K10	9050	0 - 6	ND
I10	9051	0 - 6	ND
K12,K13	9060	0 - 6	ND
L12,L13,M12,M13	9061	0 - 6	ND
N12,N13,O12,O13	9062	0 - 6	ND
P12,P13,Q12,Q13	9063	0 - 6	ND
R12,R13,S12,S13	9064	0 - 6	ND
T12,T13,U12,U13	9065	0 - 6	ND
T14,T15,U14,U15	9067	0 - 6	ND
R14,R15,S14,S15	9068	0 - 6	ND
P14,P15,Q14,Q15	9069	0 - 6	ND
N14,N15,O14,O15	9070	0 - 6	ND
L14,L15,M14,M15	9071	0 - 6	ND
K14,K15	9072	0 - 6	ND
J16,J17,K16,K17	9086	0 - 6	ND
L16,L17,M16,M17	9090	0 - 6	ND
N16,N17,O16,O17	9091	0 - 6	ND
P16,P17,Q16,Q17	9094	0 - 6	ND
R16,R17,S16,S17	9095	0 - 6	ND
T16,T17,U16,U17	9098	0 - 6	ND

02[TG5902]D3347/53/20

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-2

PCB RESULTS FOR DISCRETE SOIL SAMPLES
GRID SAMPLING
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
A01	9100	0 - 6	ND
A02	9101	0 - 6	ND
A03	9102	0 - 6	ND
A04	9103	0 - 6	ND
A05	9104	0 - 6	ND
A06	9105	0 - 6	ND
A07	9106	0 - 6	ND
A08	9107	0 - 6	ND
A10	9109	0 - 6	ND
A12	9112	0 - 6	ND
A13	9113	0 - 6	ND
A14	9114	0 - 6	ND
A15	9115	0 - 6	ND
A17	9117	0 - 6	ND
A18	9118	0 - 6	ND
A19	9119	0 - 6	ND
A20	9120	0 - 6	ND
A23	9124	0 - 6	ND
B01	9125	0 - 6	ND
B02	9126	0 - 6	ND
B03	9127	0 - 6	ND
B04	9128	0 - 6	ND
B05	9129	0 - 6	ND
B06	9130	0 - 6	ND
B07	9131	0 - 6	ND
B08	9132	0 - 6	ND
B09	9133	0 - 6	ND
B10	9134	0 - 6	ND

02[TG5902]D3347/125/26

Table 4-2 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
B11	9136	0 - 6	ND
B12	9137	0 - 6	ND
B13	9138	0 - 6	ND
B14	9139	0 - 6	ND
B15	9140	0 - 6	ND
B16	9141	0 - 6	ND
B17	9142	0 - 6	ND
B18	9143	0 - 6	ND
B19	9144	0 - 6	ND
B20	9145	0 - 6	ND
B21	9147	0 - 6	ND
B22	9148	0 - 6	ND
B23	9149	0 - 6	ND

02[TG5902]D3347/125/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-3

PCB RESULTS FOR SOIL SAMPLES
COMPRESSOR BUILDING AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A001	0 - 6	ND
	A002	6 - 12	ND
02	A003	0 - 6	ND
	A004	6 - 12	ND
03	A005	0 - 6	ND
	A006	6 - 12	ND
04	A007	0 - 6	ND
	A008	6 - 12	ND
05	A009	0 - 6	ND
	A010	6 - 12	ND
06	A012	0 - 6	ND
	A013	6 - 12	ND
07	A014	0 - 6	ND
	A015	6 - 12	ND
08	A016	0 - 6	ND
	A017	6 - 12	ND
09	A018	0 - 6	ND
	A019	6 - 12	ND
10	A020	0 - 6	ND
	A021	6 - 12	ND
11	A023	0 - 6	ND
	A024	6 - 12	ND

02[TG5902]D3347/102/26

Table 4-3 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
12	A025	0 - 6	ND
	A026	6 - 12	ND
13	A027	0 - 6	ND
	A028	6 - 12	ND
14	A029	0 - 6	ND
	A030	6 - 12	ND
15	A031	0 - 6	ND
	A032	6 - 12	ND
16	A034	0 - 6	1.4
	A035	6 - 12	1.3
	B107	12 - 24	ND
17	A036	0 - 6	ND
	A037	6 - 12	ND
18	A038	0 - 6	ND
	A039	6 - 12	ND
19	A040	0 - 6	ND
	A041	6 - 12	ND
22	A047	0 - 6	940 T
	A048	6 - 12	94 T
	B109	12 - 24	3.9
	B110	24 - 36	ND
23	A049	0 - 6	ND
	A050	6 - 12	ND
24	A051	0 - 6	3.3
	A052	6 - 12	5.1
	B111	12 - 24	ND

02[TG5902]D3347/102/26

Table 4-3 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
25	A053	0 - 6	ND
	A054	6 - 12	ND
26	A056	0 - 6	150 T
	A057	6 - 12	7.5 T (1248)
	B112	12 - 24	23 (1248)
27	A058	0 - 6	ND
	A059	6 - 12	ND
28	A060	0 - 6	ND
	A061	6 - 12	1.3
	B113	12 - 24	ND
29	A062	0 - 6	1.2
	A063	6 - 12	ND
30	A064	0 - 6	16 T
	A065	6 - 12	5.3 T
	B114	12 - 24	ND
31	A067	0 - 6	ND
	A068	6 - 12	ND
32	A069	0 - 6	130
	A070	6 - 12	11
33	A071	0 - 6	5.4
	A072	6 - 12	2.1
	B117	12 - 24	ND
34	A073	0 - 6	5.2 T (1248)
	A074	6 - 12	ND T
35	A075	0 - 6	ND
	A076	6 - 12	ND

02[TG5902]D3347/102/26

Table 4-3 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
36	A078	0 - 6	2.7
	A079	6 - 12	1.7
	B119	12 - 24	ND
37	A080	0 - 6	2.2
	A081	6 - 12	ND
38	B120	0 - 6	ND
40	B123	0 - 6	ND
	B124	6 - 12	ND
42	B128	0 - 6	ND
	B130	6 - 12	ND
43	B131	0 - 6	ND
44	B132	0 - 6	ND
	B133	6 - 12	ND
45	B134	0 - 6	ND
47	B137	0 - 6	ND
	B139	6 - 12	ND
48	B140	0 - 6	ND
	B141	6 - 12	ND
49	B142	0 - 6	ND
	B143	6 - 12	ND

02[TG5902]D3347/102/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-4

PCB RESULTS FOR CRANKCASE OIL SAMPLES
COMPRESSOR BUILDING AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Analytical Result
01	A440	ND
02	A441	ND

02[TG5902]D3347/103/37

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-5

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLES
COMPRESSOR BUILDING AREA
COMPRESSOR STATION 224

	Analytical Result			
Node:	22		26	
Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"
Parameter / Sample Number:	A047	A048	A056	A057
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
Acetone	55 B, R_{14}	19 B, R_{14}	32 B, R_{14}	21 B, R_{14}
Anthracene	ND	ND	ND	ND
Benzidine	ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene	ND	ND	ND	ND
Benzo(A)Pyrene	ND	ND	ND	ND
Benzo(B)Fluoranthene	ND	ND	ND	ND
Benzo(G,H,I)Perylene	ND	ND	ND	ND
Benzo(K)Fluoranthene	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Carbon Disulfide	12	ND	ND	ND
Chloroform	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND
Di-N-Butyl-Phthalate	ND	ND	ND	ND
Dibenzo(A,H)Anthracene	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	ND	ND	ND	ND
Methylene Chloride	7.2 B, R_{14}	6.0 B, R_{14}	ND	8.6 B, R_{14}
Naphthalene	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND

02[TG5902]D3347/1/15

Table 4-5 (Cont.)

Parameter		Analytical Result			
	Node:	30		34	
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"
	Sample Number:	A064	A065	A073	A074
1,1,1-Trichloroethane		ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND
Acetone		ND	19 B, R_{14}	ND	18 B, R_{14}
Anthracene		ND	ND	ND	ND
Benzidine		ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene		ND	ND	ND	ND
Benzo(A)Pyrene		ND	ND	ND	ND
Benzo(B)Fluoranthene		ND	ND	ND	ND
Benzo(G,H,I)Perylene		ND	ND	ND	ND
Benzo(K)Fluoranthene		ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate		ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND
Carbon Disulfide		ND	ND	ND	ND
Chloroform		ND	ND	ND	ND
Chrysene		ND	ND	ND	ND
Di-N-Butyl-Phthalate		ND	ND	ND	ND
Dibenzo(A,H)Anthracene		ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND
Fluorene		ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene		ND	ND	ND	ND
Methylene Chloride		8.9 B, R_{14}	8.7 B, R_{14}	7.4 B, R_{14}	ND
Naphthalene		ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND
Pyrene		ND	ND	ND	ND

02[TG5902]D3347/1/15

Note: All concentrations are in µg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-6

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLES
COMPRESSOR BUILDING AREA
COMPRESSOR STATION 224

		Analytical Result						
	Node:	22		26		30		34
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"
Parameter	Sample Number:	A047	A048	A056	A057	A064	A065	A073
Aluminum		12,000 J_{4}	13,000 J_{4}	15,000 J_{11}	14,000 J_{11}	13,000 J_{11}	14,000 J_{11}	12,000 J_{11}
Antimony		ND	ND UJ_{8}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Arsenic		9.8	6.6	6.0 J_{10}	9.1 J_{10}	8.5 J_{10}	7.1 J_{10}	5.8 J_{10}
Barium		79	89	100 J_{11}	81 J_{11}	81 J_{11}	93 J_{11}	95 J_{11}
Beryllium		0.47 R_{14}	0.50 R_{14}	0.49	0.48	0.44	0.46	0.39
Cadmium		7.7	4.8	6.6 J_{11}	5.7 J_{11}	5.5 J_{11}	5.8 J_{11}	5.1 J_{11}
Calcium		19,000	2,800	3,500 J_{11}	4,200 J_{11}	3,200 J_{11}	3,100 J_{11}	10,000 J_{11}
Chromium		26 J_{4}	33 J_{4}	27 J_{10}	19 J_{10}	20 J_{10}	32 J_{10}	41 J_{10}
Cobalt		12	14	13 J_{11}	13 J_{11}	12 J_{11}	12 J_{11}	11 J_{11}
Copper		140	31	74 J_{11}	31 J_{11}	27 J_{11}	28 J_{11}	66 J_{11}
Iron		42,000	31,000	35,000 J_{11}	340,000 J_{11}	31,000 J_{11}	34,000 J_{11}	28,000 J_{11}
Lead		99 J_{4}	19 J_{4}	31 J_{11}	25 J_{11}	28 J_{11}	70 J_{11}	33 J_{11}

02[TG5902]D3347/15/8

Table 4-6 (Cont.)

		Analytical Result						
	Node:	22		26		30		34
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"
Parameter	Sample Number:	A047	A048	A056	A057	A064	A065	A073
Magnesium		13,000	3,500	3,900 J_{11}	5,400 J_{11}	3,700 J_{11}	3,600 J_{11}	4,000 J_{11}
Manganese		470	380	560 J_{11}	600 J_{11}	390 J_{11}	500 J_{11}	470 J_{11}
Mercury		ND	ND	ND	ND	ND	ND	ND
Nickel		33	29	29 J_{11}	25 J_{11}	26 J_{11}	27 J_{11}	27 J_{11}
Potassium		1,600	1,900	1,800 J_{11}	1,400 J_{11}	1,800 J_{11}	1,900 J_{11}	1,800 J_{11}
Selenium		1.7 J_{13}	ND UJ_{13}	ND UJ_{10}	2.0 J_{10}	ND UJ_{10}	1.2 J_{10}	ND UJ_{10}
Silver		ND	ND	ND	ND	ND	ND	ND
Sodium		87	68	71	78	67	81	67
Thallium		ND UJ_{13}	ND	ND UJ_{13}	0.34 J_{13}	ND UJ_{13}	ND UJ_{13}	ND UJ_{13}
Total Cyanide		8.4	7.8	8.7	5.2	7.8	10	4.2
Vanadium		24	25	24 J_{11}	24 J_{11}	22 J_{11}	24 J_{11}	22 J_{11}
Zinc		220	170	150 J_{10}	83 J_{10}	480 J_{10}	600 J_{10}	220 J_{10}

02[TG5902]D3347/15/8

Table 4–6 (Cont.)

		Analytical Result
	Node:	34
	Depth:	6 – 12"
Parameter	Sample Number:	A074
Aluminum		13,000 J_{11}
Antimony		ND UJ_{10}
Arsenic		6.0 J_{10}
Barium		73 J_{11}
Beryllium		0.47
Cadmium		5.8 J_{11}
Calcium		2,700 J_{11}
Chromium		20 J_{10}
Cobalt		15 J_{11}
Copper		24 J_{11}
Iron		34,000 J_{11}
Lead		100 J_{11}
Magnesium		3,300 J_{11}
Manganese		470 J_{11}
Mercury		ND

02[TG5902]D3347/15/8

Table 4-6 (Cont.)

Parameter		Analytical Result
	Node:	34
	Depth:	6 - 12"
	Sample Number:	A074
Nickel		27 J_{11}
Potassium		1,600 J_{11}
Selenium		ND UJ_{10}
Silver		ND
Sodium		ND
Thallium		0.60 J_{13}
Total Cyanide		6.4
Vanadium		25 J_{11}
Zinc		76 J_{10}

02[TG5902]D3347/15/8

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-7

PCB RESULTS FOR SOIL SAMPLES
AUXILIARY BUILDING AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A131	0 - 6	ND
	A132	6 - 12	ND
02	A133	0 - 6	ND
	A134	6 - 12	ND
03	A135	0 - 6	ND
	A136	6 - 12	ND
04	A137	0 - 6	ND
	A138	6 - 12	ND
05	A139	0 - 6	ND
	A140	6 - 12	ND
06	A142	0 - 6	ND
	A143	6 - 12	ND
07	A144	0 - 6	ND
	A145	6 - 12	ND
08	A146	0 - 6	ND
	A147	6 - 12	ND
09	A148	0 - 6	ND
	A149	6 - 12	ND
10	A150	0 - 6	ND
	A151	6 - 12	ND
11	A153	0 - 6	500 (1248)
	A154	6 - 12	63 (1248)
	B085	12 - 24	ND
	B086	24 - 36	ND

02[TG5902]D3347/44/26

Table 4-7 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
12	A155	0 - 6	ND
	A156	6 - 12	ND
13	A157	0 - 6	ND
	A158	6 - 12	ND
14	A159	0 - 6	ND
	A160	6 - 12	ND
15	A170	0 - 6	6.7 T
	A171	6 - 12	1.5 T
	B087	12 - 24	ND
16	A172	0 - 6	8.6 T
	B088	6 - 12	ND
17	A173	0 - 6	ND T
18	B090	0 - 6	ND
	B091	6 - 12	ND
	B092	12 - 24	ND
19	B093	0 - 6	ND
	B094	6 - 12	ND
	B095	12 - 24	ND
20	B096	0 - 6	1.7
	B098	6 - 12	ND
21	B101	0 - 6	ND
	B102	6 - 12	ND
22	B103	0 - 6	ND
23	B104	0 - 6	ND

02[TG5902]D3347/44/2

Table 4-7 (Cont)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
24	B105	0 - 6	ND
25	B106	0 - 6	1.6

02[TG5902]D3347/44/2

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted

Source: Ecology and Environment, Inc. 1991.

Table 4-8

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLES
AUXILIARY BUILDING AREA
COMPRESSOR STATION 224

		Analytical Result			
	Node:	15		16	17
	Depth:	0 - 6"	6 - 12"	0 - 6"	0 - 6"
Parameter	Sample Number:	A170	A171	A172	A173
1,1,1-Trichloroethane		ND	ND	ND	ND
1,1-Dichloroethane		ND	27	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND
Acetone		28 B, R_{14}	45 B, R_{14}	ND	13 B, R_{14}
Anthracene		ND	ND	ND	ND
Benzidine		ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene		ND	ND	ND	ND
Benzo(A)Pyrene		ND	ND	ND	ND
Benzo(B)Fluoranthene		ND	ND	ND	ND
Benzo(G,H,I)Perylene		ND	ND	ND	ND
Benzo(K)Fluoranthene		ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate		ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND
Carbon Disulfide		ND	ND	ND	ND
Chloroform		ND	ND	ND	ND
Chrysene		ND	ND	ND	ND
Di-N-Butyl-Phthalate		ND	ND	ND	ND
Dibenzo(A,H)Anthracene		ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND
Fluorene		ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene		ND	ND	ND	ND

02[TG5902]D3347/4/15

Table 4-8 (Cont.)

Parameter		Analytical Result			
	Node:	15		16	17
	Depth:	0 - 6"	6 - 12"	0 - 6"	0 - 6"
	Sample Number:	A170	A171	A172	A173
Methylene Chloride		6.2 B, R_{14}	ND	7.8 B, R_{14}	ND
Naphthalene		ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND
Pyrene		ND	ND	ND	ND

02[TG5902]D3347/4/15

Note: All concentrations are in µg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-9

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLES
AUXILIARY BUILDING AREA
COMPRESSOR STATION 224

		Analytical Result			
	Node:	15		16	17
	Depth:	0 - 6"	6 - 12"	0 - 6"	0 - 6"
Parameter	Sample Number:	A170	A171	A172	A173
Aluminum		14,000 J_{11}	14,000 J_{11}	13,000 J_{11}	9,400 J_{11}
Antimony		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Arsenic		7.1 J_{10}	6.2 J_{10}	7.2 J_{10}	6.5 J_{10}
Barium		76 J_{11}	67 J_{11}	83 J_{11}	64 J_{11}
Beryllium		0.55	0.34	0.54	0.36
Cadmium		6.2 J_{11}	4.4 J_{11}	5.2 J_{11}	3.3 J_{11}
Calcium		2,800 J_{11}	2,300 J_{11}	5,400 J_{11}	37,000 J_{11}
Chromium		31 J_{10}	18 J_{10}	31 J_{10}	24 J_{10}
Cobalt		15 J_{11}	8.4 J_{11}	15 J_{11}	7.6 J_{11}
Copper		25 J_{11}	17 J_{11}	26 J_{11}	16 J_{11}
Iron		35,000 J_{11}	27,000 J_{11}	33,000 J_{11}	21,000 J_{11}
Lead		22 J_{11}	33 J_{11}	28 J_{11}	21 J_{11}
Magnesium		3,700 J_{11}	2,700 J_{11}	3,700 J_{11}	16,000 J_{11}
Manganese		390 J_{11}	340 J_{11}	640 J_{11}	560 J_{11}
Mercury		ND	ND	ND	ND
Nickel		30 J_{11}	21 J_{11}	31 J_{11}	16 J_{11}
Potassium		2,300 J_{11}	1,400 J_{11}	2,100 J_{11}	1,200 J_{11}
Selenium		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Silver		ND	ND	ND	ND
Sodium		70	62	81	71
Thallium		ND UJ_{13}	ND UJ_{13}	ND UJ_{13}	ND UJ_{13}
Total Cyanide		6.3	50	4.0	11
Vanadium		25 J_{11}	27 J_{11}	25 J_{11}	19 J_{11}
Zinc		91 J_{10}	66 J_{10}	200 J_{10}	98 J_{10}

02[TG5902]D3347/13/18

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-10

PCB RESULTS FOR SOIL SAMPLES
AIR RECEIVER TANK AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result	
01	A186	0 - 6	34	
	A187	6 - 12	1.4	
	B001	12 - 24	28	
			56	(1248)
02	A188	0 - 6	270 B, J_{14}, T	
	A189	6 - 12	1,800 B, J_{14}, T	
	B002	12 - 24	2,800	
			560	(1248)
	B003	24 - 36	7,000	
	B004	36 - 48	2,700	
03	A190	0 - 6	8.2	
	A191	6 - 12	11	
			2.1	(1248)
	B005	12 - 24	4.2	
			2.4	(1248)
	B006	24 - 36	3.3	
			1.2	(1248)
04	A192	0 - 6	9.3	
			7.3	(1248)
	A193	6 - 12	ND	
05	A194	0 - 6	610	
	A195	6 - 12	33	
	B007	12 - 24	7.6	
	B008	24 - 36	9.4	
			3.8	(1248)
06	A197	0 - 6	12	
	A198	6 - 12	6.6	
	B009	12 - 24	140	

02[TG5902]D3347/101/26

Table 4-10 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result	
07	A199	0 - 6	6.5	
			3.1	(1248)
	A200	6 - 12	4.6	
			2.0	(1248)
	B010	12 - 24	22	
			5.3	(1248)
08	A201	0 - 6	400	
	A202	6 - 12	17	
			2.9	(1248)
	B012	12 - 24	6.7	
			2.6	(1248)
	B013	24 - 36	150	(1248)
09	A203	0 - 6	59	
			9.1	(1248)
	A204	6 - 12	180	
			32	(1248)
	B014	12 - 24	11	
			4.3	(1248)
	B015	24 - 36	1.8	
	B016	36 - 48	3.7	
10	A205	0 - 6	4.1	
	A206	6 - 12	2.0	
	B017	12 - 24	1.8	
11	A208	0 - 6	1.5	
	A209	6 - 12	ND	
12	A210	0 - 6	2.8	
	A211	6 - 12	ND	
13	A212	0 - 6	ND	
	A213	6 - 12	ND	
14	A214	0 - 6	ND	
	A215	6 - 12	ND	

02[TG5902]D3347/101/26

Table 4-10 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result	
15	A216	0 - 6	28	
	A217	6 - 12	ND	
16	A219	0 - 6	2,000	
			620	(1248)
	A220	6 - 12	650	
			140	(1248)
	B018	12 - 24	230	(1248)
	B019	24 - 36	3.4	
			1.4	(1248)
	B020	36 - 48	ND	
17	A221	0 - 6	5,000	
	A222	6 - 12	130	
	B021	12 - 24	ND	
	B023	24 - 36	ND	
	B024	36 - 48	ND	
18	A223	0 - 6	3.9	
	A224	6 - 12	1.3	
	B025	12 - 24	1.2	
19	A225	0 - 6	3.2	
	A226	6 - 12	2.9	
	B026	12 - 24	170	
20	A227	0 - 6	58	
	A228	6 - 12	76	
	B027	12 - 24	ND	
	B028	24 - 36	ND	
21	A230	0 - 6	12	
	A231	6 - 12	2.6	
	B029	12 - 24	ND	

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Table 4-10 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result	
22	A232	0 - 6	ND	
	A233	6 - 12	ND	
23	A234	0 - 6	ND	
	A235	6 - 12	ND	
24	A236	0 - 6	8,400 B, J_{14}, T	
	A237	6 - 12	9,700 B, J_{14}, T	
	B030	12 - 24	2,300	(1248)
	B031	24 - 36	410 350	(1248)
	B032	36 - 48	940 1,000	(1248)
25	B033	0 - 6	ND	
26	B035	0 - 6	ND	
	B036	6 - 12	ND	
27	B037	0 - 6	2.2	
28	B038	0 - 6	2.9	
	B039	6 - 12	ND	
29	B040	0 - 6	6.2 3.0	(1248)
	B041	6 - 12	ND	
	B042	12 - 24	ND	
30	B043	0 - 6	2.1	
	B044	6 - 12	ND	
31	B045	0 - 6	ND	
32	B047	0 - 6	ND	
33	B048	0 - 6	ND	
	B049	6 - 12	ND UJ_1	

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Table 4-10 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
34	B050	0 - 6	3.4
	B051	6 - 12	3.4 J_1
35	B052	0 - 6	6.2
36	B053	0 - 6	ND
37	B054	0 - 6	ND UJ_1
	B055	6 - 12	1.8
38	B057	0 - 6	ND
	B058	6 - 12	ND
	B059	12 - 24	ND
39	B060	0 - 6	ND
	B061	6 - 12	ND
40	B062	0 - 6	1.5
41	B063	0 - 6	6.0
42	B064	0 - 6	6.3
	B065	6 - 12	54 12 (1248)
43	B066	0 - 6	ND
	B067	6 - 12	ND
44	B068	0 - 6	ND
45	B070	0 - 6	ND
46	B071	0 - 6	ND
	B072	6 - 12	ND
47	B073	0 - 6	9.2
	B074	6 - 12	ND
	B075	12 - 24	ND

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Table 4-10 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
48	B076	0 - 6	ND
49	B077	0 - 6	ND
50	B079	0 - 6	ND
	B080	6 - 12	ND
51	B081	0 - 6	ND UJ_1
52	B082	0 - 6	1.7 J_1
53	B083	0 - 6	ND
	B084	6 - 12	1.5 J_1

02[TG5902]D3347/101/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-11

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLES
AIR RECEIVER TANK AREA
COMPRESSOR STATION 224

	Analytical Result			
Node:	02		24	
Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"
Parameter / Sample Number:	A188	A189	A236	A237
1,1,1-Trichloroethane	720 X	5,800 J_4	ND UJ_7	ND
1,1-Dichloroethane	61	ND	ND UJ_7	ND
1,1-Dichloroethene	24	ND	ND UJ_7	ND
Acenaphthene	ND	ND	ND	ND
Acetone	38 B, R_{14}	2,500 B, J_{14}	16 B, R_{14}	ND
Anthracene	ND	ND	ND	ND
Benzidine	ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene	ND	ND	ND	ND
Benzo(A)Pyrene	ND	ND	ND	ND
Benzo(B)Fluoranthene	ND	ND	ND	ND
Benzo(G,H,I)Perylene	ND	ND	ND	ND
Benzo(K)Fluoranthene	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND UJ_7	ND
Carbon Disulfide	ND	ND	ND UJ_7	ND
Chloroform	ND	ND	ND UJ_7	ND
Chrysene	ND	ND	ND	ND
Di-N-Butyl-Phthalate	ND	ND	ND	ND
Dibenzo(A,H)Anthracene	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	5.6 B, R_{14}

02[TG5902]D33347/3/15

Table 4-11 (Cont.)

		Analytical Result			
	Node:	02		24	
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"
Parameter	Sample Number:	A188	A189	A236	A237
Naphthalene		ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND
Pyrene		ND	ND	ND	ND

02[TG5902]D3347/3/15

Note: All concentrations are in μg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-12

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLES
AIR RECEIVER TANK AREA
COMPRESSOR STATION 224

		Analytical Result			
	Node:	02		24	
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"
Parameter	Sample Number:	A188	A189	A236	A237
Aluminum		12,000	11,000	9,500	11,000
Antimony		ND UJ_{16}	ND UJ_{16}	ND UJ_{16}	ND UJ_{16}
Arsenic		7.2 J_{10}	15 J_{10}	3.4 J_{10}	7.3 J_{10}
Barium		69	65	72	59
Beryllium		0.46 R_{14}	0.44 R_{14}	0.14 R_{14}	0.16 R_{14}
Cadmium		4.7 J_{11}	5.4 J_{11}	4.2 J_{11}	3.4 J_{11}
Calcium		5,500	3,100	32,000	19,000
Chromium		17	18	15	17
Cobalt		12	11	8.9	9.0
Copper		22	20	21	20
Iron		29,000	30,000	22,000	28,000
Lead		30 J_{10}	48 J_{10}	48 J_{10}	27 J_{10}
Magnesium		3,700 J_{11}	3,400 J_{11}	4,800 J_{11}	3,000 J_{11}
Manganese		420	420	270	620
Mercury		ND	ND	ND	ND
Nickel		26	26	18	20
Potassium		1,500	1,800	1,300	1,300
Selenium		ND	ND	ND	ND
Silver		ND	ND	ND	ND
Sodium		ND	ND	ND	ND
Thallium		ND UJ_{13}	ND UJ_{13}	ND UJ_{13}	ND UJ_{13}
Total Cyanide		26	4.0	3.8	12
Vanadium		23	22	14	17
Zinc		72	77	98	64

02[TG5902]D3347/14/17

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-13

PCB RESULTS FOR SOIL SAMPLES
METER BUILDING AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A341	0 - 6	ND
	A342	6 - 12	ND

02[TG5902]D3347/113/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-14

PCB RESULTS FOR WIPE SAMPLE
METER BUILDING AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Analytical Result
02	A343	0.41 (1248)

02[TG5902]D3347/45/37

Note: All concentrations are in $\mu g/cm^2$.

Source: Ecology and Environment, Inc. 1991.

Table 4-15

PCB RESULTS FOR SOIL SAMPLES
RETIRED BURN PIT AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A246	0 - 6	ND
	A247	6 - 12	ND
02	A248	0 - 6	ND
	A249	6 - 12	ND
03	A250	0 - 6	ND UJ 5
	A251	6 - 12	ND
04	A252	0 - 6	ND
	A253	6 - 12	ND
05	A254	0 - 6	ND
	A256	6 - 12	ND
06	A257	0 - 6	ND
	A258	6 - 12	ND
07	A259	0 - 6	ND
	A260	6 - 12	ND
08	A261	0 - 6	ND
	A262	6 - 12	ND
09	A263	0 - 6	ND
	A264	6 - 12	ND
10	A265	0 - 6	ND
	A266	6 - 12	ND
11	A268	0 - 6	ND
	A269	6 - 12	ND

02[TG5902]D3347/54/26

Table 4-15 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
12	A270	0 - 6	ND
	A271	6 - 12	1.3
13	A272	0 - 6	6.6
	B145	6 - 12	5.3
14	A274	0 - 6	1.5
	A275	6 - 12	ND UJ[5]
15	A276	0 - 6	ND UJ[5]
	A278	6 - 12	ND UJ[5]
16	A279	0 - 6	ND
	A280	6 - 12	ND UJ[5]
17	A281	0 - 6	ND UJ[5]
	A282	6 - 12	ND
18	A283	0 - 6	ND UJ[5]
19	A285	0 - 6	ND UJ[5]
	A286	6 - 12	ND
20	A287	0 - 6	ND UJ[5]
	A288	6 - 12	ND UJ[5]
21	A290	0 - 6	ND UJ[5]
	A291	6 - 12	ND UJ[5]
22	A292	0 - 6	ND UJ[5]
	A293	6 - 12	ND
23	A294	0 - 6	ND UJ[5]
	A295	6 - 12	ND UJ[5]
24	A296	0 - 6	ND UJ[5]
	A297	6 - 12	ND UJ[5]

02[TG5902]D3347/54/26

Table 4-15 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
25	A298	0 - 6	ND UJ_5
	A299	6 - 12	ND UJ_5
26	B146	0 - 6	ND
27	B147	0 - 6	ND
28	B148	0 - 6	ND
29	B150	0 - 6	ND
30	B151	0 - 6	3.5
31	B152	0 - 6	ND
	B153	6 - 12	ND
32	B154	0 - 6	ND
	B155	6 - 12	ND
33	B156	0 - 6	ND
	B157	6 - 12	ND
34	B158	0 - 6	ND
	B159	6 - 12	ND
35	B161	0 - 6	ND
36	B163	0 - 6	ND
	B164	6 - 12	ND
37	B165	0 - 6	ND
	B166	6 - 12	ND

02[TG5902]D3347/54/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-16

PCB RESULTS FOR SOIL SAMPLES
SCRAP YARD AREA A
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A336	0 - 6	ND
02	A337	0 - 6	ND
Boreholes			
BH01	A601	0 - 24	ND T
	A602	24 - 48	1.3 T
	A603	48 - 72	ND T
	A604	72 - 96	ND T
BH02	A605	0 - 24	ND T
	A606	24 - 48	ND T
	A607	48 - 72	ND T
	A608	72 - 96	ND T
BH03	A609	0 - 24	ND T
	A610	24 - 48	ND T
	A611	48 - 72	ND T
	A612	72 - 96	ND T

02[TG5902]D3347/55/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-17

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLES
SCRAP YARD AREA A
COMPRESSOR STATION 224

		Analytical Result						
	Node:	BH01				BH02		
	Depth:	0 - 24"	24 - 48"	48 - 72"	72 - 96"	0 - 24"	24 - 48"	48 - 72"
Parameter	Sample Number:	A601	A602	A603	A604	A605	A606	A607
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	2,100	ND	ND	3,900	ND	ND
Acetone		30 B, R_{14}	38 B, R_{14}	16 B, R_{14}	30 B, R_{14}	38 B, R_{14}	23 B, R_{14}	ND
Anthracene		ND	3,100	ND	ND	6,000	ND	ND
Benzidine		ND R_3	ND R_3	ND R_3	ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene		ND	6,400	ND	ND	12,000 R_8	ND	ND
Benzo(A)Pyrene		ND	4,700	ND	ND	9,200 R_8	ND	ND
Benzo(B)Fluoranthene		ND	6,000	ND	ND	9,700 R_8	ND	ND
Benzo(G,H,I)Perylene		ND	2,600	ND	ND	4,600	ND	ND
Benzo(K)Fluoranthene		ND	1,600	ND	ND	6,800	ND	ND

02[TG5902]D3347/9/9

Table 4-17 (Cont.)

	Analytical Result						
Node:	BH01				BH02		
Depth:	0 - 24"	24 - 48"	48 - 72"	72 - 96"	0 - 24"	24 - 48"	48 - 72"
Parameter / Sample Number:	A601	A602	A603	A604	A605	A606	A607
Beta-BHC	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	6,600	ND	ND	12,000 J_8	ND	ND
Di-N-Butyl-Phthalate	ND	ND	ND	ND	ND	ND	490 B, R_{14}
Dibenzo(A,H)Anthracene	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	940	ND	ND	ND	ND	ND
Fluoranthene	ND	13,000 J_8	ND	ND	22,000 J_8	ND	ND
Fluorene	ND	1,600	ND	ND	3,200	ND	ND
Indeno(1,2,3-cd)Pyrene	ND	3,100	ND	ND	5,800	ND	ND
Methylene Chloride	3.5 B, R_{14}	12 B, R_{14}	9.8 B, R_{14}	18 B, R_{14}	9.2 B, R_{14}	8.3 B, R_{14}	9.4 B, R_{14}
Naphthalene	ND	1,400	ND	ND	3,800	ND	ND
Phenanthrene	ND	12,000 J_8	ND	ND	24,000 J_8	ND	ND
Pyrene	ND	11,000 J_8	ND	ND	29,000 J_8	ND	ND

02[TG5902]D3347/9/9

Table 4-17 (Cont.)

Parameter		Analytical Result				
	Node:	BH02	BH03			
	Depth:	72 - 96"	0 - 24"	24 - 48"	48 - 72"	72 - 96"
	Sample Number:	A608	A609	A610	A611	A612
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND
Acetone		44 B, R_{14}	32 B J, R_{14}	19 B J, R_{14}	46 B, R_{14}	24 B, R_{14}
Anthracene		ND	ND	ND	ND	ND
Benzidine		ND R_3	ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene		580	ND	ND	ND	ND
Benzo(A)Pyrene		490	ND	ND	ND	ND
Benzo(B)Fluoranthene		860	ND	ND	ND	ND
Benzo(G,H,I)Perylene		ND	ND	ND	ND	ND
Benzo(K)Fluoranthene		ND	ND	ND	ND	ND
Beta-BHC		ND	ND UJ_8	ND	ND UJ_8	ND UJ_8
Bis(2-Ethylhexyl)Phthalate		ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND

02[TG5902]D3347/9/9

Table 4-17 (Cont.)

		Analytical Result				
	Node:	BH02	BH03			
	Depth:	72 - 96"	0 - 24"	24 - 48"	48 - 72"	72 - 96"
Parameter	Sample Number:	A608	A609	A610	A611	A612
Carbon Disulfide		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Chrysene		600	ND	ND	ND	ND
Di-N-Butyl-Phthalate		ND	ND	ND	530 B, R_{14}	ND
Dibenzo(A,H)Anthracene		ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND
Fluoranthene		1,100	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene		ND	ND	ND	ND	ND
Methylene Chloride		12 B, R_{14}	11 B, R_{14}	9.4 B, R_{14}	9.1 B, R_{14}	8.2 B, R_{14}
Naphthalene		ND	ND	ND	ND	ND
Phenanthrene		900	ND	ND	ND	ND
Pyrene		1,200	ND	ND	ND	ND

02[TG5902]D3347/9/9

Note: All concentrations are in μg/kg.

Source: Ecology and Environment, Inc. 1991.

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Table 4-18

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLES
SCRAP YARD AREA A
COMPRESSOR STATION 224

		Analytical Result						
	Node:	BH01				BH02		
	Depth:	0 - 24"	24 - 48"	48 - 72"	72 - 96"	0 - 24"	24 - 48"	48 - 72"
Parameter	Sample Number:	A601	A602	A603	A604	A605	A606	A607
Aluminum		8,800	12,000	7,300	7,800	12,000	NA	9,400
Antimony		ND UJ_{10}	ND UJ_{10}	5.8 J_{10}	ND UJ_{10}	ND UJ_{10}	NA	ND UJ_{10}
Arsenic		13 J_{10}	8.8 J_{10}	18 J_{10}	12 J_{10}	12 J_{10}	NA	14 J_{10}
Barium		120 J_{11}	51 J_{11}	64 J_{11}	70 J_{11}	51 J_{11}	NA	83 J_{4}
Beryllium		0.89	0.43	0.42	0.42	0.52	NA	0.47
Cadmium		5.0	ND	ND	ND	ND	NA	ND
Calcium		7,200 J_{12}	360 J_{12}	3,300 J_{12}	2,200 J_{12}	2,100 J_{12}	NA	4,300 J_{12}
Chromium		20	15	14	14	16	NA	16
Cobalt		13 J_{11}	7.6 J_{11}	9.1 J_{11}	8.2 J_{11}	8.0 J_{11}	NA	6.6 J_{11}
Copper		12 J_{11}	14 J_{11}	22 J_{11}	21 J_{11}	14 J_{11}	NA	17 J_{11}
Iron		46,000 J_{11}	19,000 J_{11}	21,000 J_{11}	21,000 J_{11}	21,000 J_{11}	NA	19,000 J_{11}
Lead		21 J_{8}	18 J_{8}	15 J_{8}	20 J_{8}	27 J_{8}	NA	18 J_{8}
Magnesium		3,200	2,500	2,800	2,700	2,100	NA	3,000

02[TG5902]D3347/23/7

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Table 4-18 (Cont.)

Parameter		Analytical Result						
	Node:	BH01				BH02		
	Depth:	0 - 24"	24 - 48"	48 - 72"	72 - 96"	0 - 24"	24 - 48"	48 - 72"
	Sample Number:	A601	A602	A603	A604	A605	A606	A607
Manganese		1,400	540	700	550	520	NA	240
Mercury		ND	ND	ND	ND	ND	ND	ND
Nickel		26	14	20	18	13	NA	17
Potassium		1,200	580	770	700	660	NA	680
Selenium		ND UJ[10]	ND UJ[10]	ND UJ[10]	ND UJ[10]	ND UJ[10]	NA	ND UJ[10]
Silver		ND	ND	ND	ND	ND	ND	ND
Sodium		79	67	66	72	84	NA	72
Thallium		ND	ND UJ[13]	ND	ND	ND	NA	ND
Total Cyanide		ND UJ[10]	ND UJ[10]	ND UJ[10]	ND UJ[10]	ND UJ[10]	4.2 J[10]	ND UJ[10]
Vanadium		24	18	13	14	25	NA	14
Zinc		61	52	58	57	58	NA	52

02[TG5902]D3347/23/7

Table 4-18 (Cont.)

		Analytical Result				
	Node:	BH02	BH03			
	Depth:	72 - 96"	0 - 24"	24 - 48"	48 - 72"	72 - 96"
Parameter	Sample Number:	A608	A609	A610	A611	A612
Aluminum		6,500	14,000	7,800	7,300	9,700
Antimony		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	7.5 J_{10}	ND UJ_{10}
Arsenic		20 J_{10}	10 J_{10}	11 J_{10}	10 J_{10}	14 J_{10}
Barium		45 J_{11}	61 J_{11}	100 J_{11}	87 J_{11}	140 J_{11}
Beryllium		0.30	0.68	0.45	0.43	0.62
Cadmium		ND	0.66	0.64	0.62	1.2
Calcium		34,000 J_{12}	880 J_{12}	2,000 J_{12}	2,100 J_{12}	2,900 J_{12}
Chromium		12	17	14	14	17
Cobalt		7.6 J_{11}	98 J_{11}	9.2 J_{11}	8.6 J_{11}	9.5 J_{11}
Copper		24 J_{11}	15 J_{11}	22 J_{11}	18 J_{11}	20 J_{11}
Iron		18,000 J_{11}	22,000 J_{11}	21,000 J_{11}	20,000 J_{11}	23,000 J_{11}
Lead		12 J_{8}	27 J_{8}	17 J_{8}	17 J_{8}	19 J_{8}
Magnesium		6,800	2,400	2,400	2,500	2,800
Manganese		530	550	730	540	1,100
Mercury		ND	ND	ND	ND	ND

02[TG5902]D3347/23/7

Table 4-18 (Cont.)

		Analytical Result				
	Node:	BH02	BH03			
	Depth:	72 - 96"	0 - 24"	24 - 48"	48 - 72"	72 - 96"
Parameter	Sample Number:	A608	A609	A610	A611	A612
Nickel		14	18	24	18	31
Potassium		760	560	650	660	650
Selenium		0.15 R_{14}	0.18 R_{14}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Silver		ND	ND	ND	ND	ND
Sodium		120	190	180	150	180
Thallium		ND	ND	ND	ND	ND
Total Cyanide		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Vanadium		12	22	15	13	18
Zinc		54	61	53	64	57

02[TG5902]D3347/23/7

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-19

PCB RESULTS FOR SOIL SAMPLES
SCRAP YARD AREA B
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A338	0 - 6	ND
02	A339	0 - 6	ND

02[TG5902]D3347/117/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-20

PCB RESULTS FOR SOIL SAMPLES
WASTE OIL STORAGE TANK AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A362	0 - 6	2.6 (1248)
	A363	6 - 12	ND
02	A364	0 - 6	ND
	A365	6 - 12	1.3
	B216	12 - 24	ND
03	A366	0 - 6	ND
	A367	6 - 12	ND
04	A368	0 - 6	1.7 3.2 (1248)
	A369	6 - 12	ND
05	B217	0 - 6	ND
	B218	6 - 12	ND
06	B219	0 - 6	1.4
	B220	6 - 12	ND
07	B221	0 - 6	ND
08	B222	0 - 6	2.3
09	B223	0 - 6	ND
10	B224	0 - 6	1.6 4.9 (1248)
11	B225	0 - 6	ND
12	B226	0 - 6	ND

02[TG5902]D3347/118/26

Table 4-20 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
13	B227	0 - 6	6.6

02[TG5902]D3347/118/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-21

PCB RESULTS FOR SOIL SAMPLES
MISCELLANEOUS PIPELINE FACILITIES - MAINLINE GAS VALVE AREAS
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A355	0 - 6	ND
02	A357	0 - 6	ND
03	A358	0 - 6	ND

02[TG5902]D3347/114/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-22

PCB RESULTS FOR SOIL SAMPLES
MISCELLANEOUS PIPELINE FACILITIES -
SCRUBBER CHARGING AND SETTLING TANK AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
04	A359	0 - 6	ND
05	A360	0 - 6	4.6 J_5 3.8 J_5 (1248)
	B206	6 - 12	ND
06	A361	0 - 6	ND
07	B209	0 - 6	6.4
	B210	6 - 12	6.2
08	B211	0 - 6	ND
	B212	6 - 12	ND
09	B213	0 - 6	ND
	B214	6 - 12	ND
10	B207	0 - 6	7.9
	B208	6 - 12	1.2

02[TG5902]D3347/119/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-23

PCB RESULTS FOR SOIL SAMPLES
MONITORING WELLS
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
MW1	A614	0 - 6	ND
	A615	60 - 66	ND
MW2	A623	0 - 6	ND
	A624	60 - 66	ND
	A625	120 - 126	ND
MW3	A626	0 - 6	ND
	A627	60 - 66	ND
	A628	120 - 126	ND
	A629	180 - 186	ND
MW4	A616	0 - 6	ND
	A617	60 - 66	ND
	A618	120 - 126	ND
	A619	180 - 186	ND
MW5	A620	0 - 6	ND
	A621	60 - 66	2.4
	A622	120 - 126	ND

02[TG5902]D3347/115/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-24

PCB RESULTS FOR GROUNDWATER SAMPLES
MONITORING WELLS
COMPRESSOR STATION 224

Well Number	Sample Number	Analytical Result
Unfiltered Samples		
MW1	W101	ND
MW2	W103	ND
MW3	W105	ND
MW4	W107	ND
MW5	W109	ND
Filtered Samples		
MW1	W102	ND
MW2	W104	ND
MW3	W106	ND
MW4	W108	ND
MW5	W110	ND

02[TG5902]D3347/89/42

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 4-24A

SUMMARY OF GENERAL CHEMISTRY TCL RESULTS FOR UNFILTERED GROUNDWATER SAMPLES
MONITORING WELLS
COMPRESSOR STATION 224

Parameter		MW1	MW2	MW3	MW4	MW5
	Well Number:	MW1	MW2	MW3	MW4	MW5
	Sampling Round:	1	1	1	1	1
Parameter	Sample Number:	W101	W103	W105	W107	W109
Total Petroleum Hydrocarbons		ND	ND	ND	ND	ND
Total Dissolved Solids		200,000	190,000	290,000	300,000	42,000
Total Organic Carbon		9,400	17,000	17,000	16,000	53,000
Total Organic Halogen		13	15	6.7	ND	40

02[TG5902]D3347/137/14

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

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Table 4-25

SUMMARY OF ORGANIC TCL RESULTS FOR UNFILTERED GROUNDWATER SAMPLES
MONITORING WELLS
COMPRESSOR STATION 224

	Well Number:	MW1	MW2	MW3	MW4	MW5
	Sampling Round:	1	1	1	1	1
Parameter	Sample Number:	W101	W103	W105	W107	W109
Acetone		11 B, R_{14}	ND	10.0 B, R_{14}	13 B, R_{14}	12 B, R_{14}
Bis(2-Ethylhexyl)Phthalate		ND	ND	ND	ND	10 B, R_{14}
Methylene Chloride		ND	ND	7.0 B, R_{14}	6.0 B, R_{14}	10 B, R_{14}

02[TG5902]D3347/133/17

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

Table 4-26

SUMMARY OF INORGANIC TAL RESULTS FOR UNFILTERED GROUNDWATER SAMPLES
MONITORING WELLS
COMPRESSOR STATION 224

Parameter		MW1	MW2	MW3	MW4	MW5
	Well Number:	MW1	MW2	MW3	MW4	MW5
	Sampling Round:	1	1	1	1	1
Parameter	Sample Number:	W101	W103	W105	W107	W109
Aluminum		86,000	49,000	99,000	200,000	29,000
Antimony		ND UJ_8	ND UJ_8	ND UJ_8	ND UJ_8	ND UJ_8
Arsenic		92	51	71	240	24
Barium		510	250	1,100	2,500	260
Beryllium		7.1	3.9	8.0	17	2.0
Cadmium		63	36	69	120	20
Calcium		61,000	44,000	94,000	95,000	88,000
Chromium		160	93	180	320	76
Cobalt		110	59	120	260	49
Copper		140	71	150	270	56
Iron		260,000 J_8	150,000 J_8	290,000 J_8	550,000	81,000
Lead		220	85	280	610	53
Magnesium		48,000	33,000	62,000	89,000	26,000
Manganese		3,300	1,500	2,900	5,600	41,000
Mercury		ND	ND	.20	.20	ND
Nickel		230	130	250	550	100
Potassium		21,000	13,000	20,000	38,000	7,300
Selenium		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Silver		ND	ND	ND	ND UJ_8	ND
Sodium		8,300	5,900	6,100	8,200	5,600
Thallium		ND	ND	ND	ND	ND
Total Cyanide		ND	ND	ND	ND	ND
Vanadium		330	190	370	720	86
Zinc		630	340	670	1,300	200

02[TG5902]D3347/135/17

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 4-27

SUMMARY OF INORGANIC TAL RESULTS FOR FILTERED GROUNDWATER SAMPLES
MONITORING WELLS
COMPRESSOR STATION 224

Parameter	Well Number:	MW1	MW2	MW3	MW4	MW5
	Sampling Round:	1	1	1	1	1
	Sample Number:	W102	W104	W106	W108	W110
Aluminum		ND	ND	180	100	99
Antimony		ND	ND	ND	ND	ND
Arsenic		ND	ND	ND	ND	ND
Barium		22	18	58	100	89
Beryllium		ND	ND	ND	ND	ND
Cadmium		ND	ND	ND	ND	ND
Calcium		44,000	35,000	72,000	48,000	82,000
Chromium		ND	ND	ND	ND	ND
Cobalt		ND	ND	ND	ND	18
Copper		ND	ND	ND	ND	ND
Iron		72	90	300	170	4,300
Lead		ND	ND UJ_{8}	ND	ND	ND UJ_{8}
Magnesium		14,000	14,000	23,000	12,000	16,000
Manganese		79	230	140	130	39,000
Mercury		ND	ND	ND	ND	ND
Nickel		ND	ND	ND	ND	ND
Potassium		2,500	3,100	2,800	2,500	2,700
Selenium		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Silver		ND	ND	ND	ND	ND
Sodium		6,100	6,700	8,100	10,000	6,600
Thallium		ND	ND	ND	ND	ND
Total Cyanide		ND	ND	ND	ND	ND
Vanadium		ND	ND	ND	ND	ND
Zinc		9.7	7.8	19	10	32

02[TG5902]D3347/134/17

Note: All concentrations are in μg/L.

Source: Ecology and Environment, Inc. 1991.

Table 4-28

PCB RESULTS FOR SEDIMENT SAMPLE
DRAINLINE A OIL/WATER SEPARATOR
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
C01	A375	0 - 6	2.8

02[TG5902]D3347/104/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-29

PCB RESULTS FOR SOIL SAMPLE
DRAINLINE A AREA (ON SITE)
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
B01	A371	0 - 6	ND T, R_5

02[TG5902]D3347/105/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-30

PCB RESULTS FOR SOIL SAMPLE
DRAINLINE A AREA (OFF SITE)
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
A01	A373	0 - 6	ND

02[TG5902]D3347/106/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-31

PCB RESULTS FOR WATER SAMPLE
DRAINLINE A AREA (ON SITE)
COMPRESSOR STATION 224

Sample Node	Sample Number	Analytical Result
B01	A372	ND

02[TG5902]D3347/107/36

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 4-32

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLES
DRAINLINE A AREA (ON SITE)
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	B01
	Depth:	0 - 6"
	Sample No.:	A371
1,1,1-Trichloroethane		ND
1,1-Dichloroethane		ND
1,1-Dichloroethene		ND
Acenaphthene		ND
Acetone		ND
Anthracene		ND
Benzidine		3,200 R_3
Benzo(A)Anthracene		ND
Benzo(A)Pyrene		ND
Benzo(B)Fluoranthene		ND
Benzo(G,H,I)Perylene		ND
Benzo(K)Fluoranthene		ND
Beta-BHC		7.2 J_5
Bis(2-Ethylhexyl)Phthalate		680 B, R_{14}
Bromodichloromethane		ND
Carbon Disulfide		ND
Chloroform		ND
Chrysene		ND
Di-N-Butyl-Phthalate		ND
Dibenzo(A,H)Anthracene		ND
Dibenzofuran		ND
Fluoranthene		650
Fluorene		ND
Indeno(1,2,3-cd)Pyrene		ND
Methylene Chloride		14 B, R_{14}

02[TG5902]D3347/2/34

Table 4-32 (Cont.)

Parameter		Analytical Result
	Node:	B01
	Depth:	0 - 6"
	Sample No.:	A371
Naphthalene		ND
Phenanthrene		590
Pyrene		650

02[TG5902]D3347/2/34

Note: All concentrations are in μg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-33

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLE
DRAINLINE A AREA (ON SITE)
COMPRESSOR STATION 224

		Analytical Result
	Node:	B01
	Depth:	0 - 6"
Parameter	Sample Number:	A371
Aluminum		8,900
Antimony		ND UJ_8
Arsenic		11 J_{10}
Barium		53 J_{10}
Beryllium		0.58
Cadmium		3.8
Calcium		4,000 J_4
Chromium		13 J_{10}
Cobalt		8.2 J_{10}
Copper		16
Iron		19,000 J_4
Lead		36 J_8
Magnesium		2,000
Manganese		600 J_{10}
Mercury		ND
Nickel		12 J_{10}
Potassium		740
Selenium		ND UJ_{10}
Silver		ND UJ_{10}
Sodium		ND
Thallium		ND UJ_{10}
Total Cyanide		380
Vanadium		30
Zinc		120

02[TG5902]D3347/16/32

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-34

PCB RESULTS FOR SEDIMENT SAMPLES
DRAINLINE B MANHOLES
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A376	0 - 6	0.56
02	A377	0 - 6	0.99

02[TG5902]D3347/108/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-35

PCB RESULTS FOR SEDIMENT SAMPLE DRAINLINE B OIL/WATER SEPARATOR COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
E01	A379	0 - 6	2,300 580 (1248)

02[TG5902]D3347/109/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-36

PCB RESULTS FOR WATER SAMPLE
DRAINLINE B AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
D01	A382	0 - 6	0.60

02[TG5902]D3347/110/26

Notes: All concentrations are in $\mu g/L$.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-37

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLE
DRAINLINE B AREA
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	D01
	Depth:	0 - 6"
	Sample Number:	A381
1,1,1-Trichloroethane		ND
1,1-Dichloroethane		ND
1,1-Dichloroethene		ND
Acenaphthene		ND
Acetone		16 B, R_{14}
Anthracene		ND
Benzidine		ND R_3
Benzo(A)Anthracene		ND
Benzo(A)Pyrene		ND
Benzo(B)Fluoranthene		ND
Benzo(G,H,I)Perylene		ND
Benzo(K)Fluoranthene		ND
Bis(2-Ethylhexyl)Phthalate		ND
Bromodichloromethane		ND
Carbon Disulfide		ND
Chloroform		ND
Chrysene		ND
Di-N-Butyl-Phthalate		ND
Dibenzo(A,H)Anthracene		ND
Dibenzofuran		ND
Fluoranthene		ND
Fluorene		ND
Indeno(1,2,3-cd)Pyrene		ND
Methylene Chloride		12 B, R_{14}
Naphthalene		ND

02[TG5902]D3347/5/32

Table 4-37 (Cont.)

		Analytical Result
	Node:	D01
	Depth:	0 - 6"
Parameter	Sample Number:	A381
Phenanthrene		ND
Pyrene		ND

02[TG5902]D3347/5/32

Note: All concentrations are in $\mu g/kg$.

Source: Ecology and Environment, Inc. 1991.

Table 4-38

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLE
DRAINLINE B AREA
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	D01
	Depth:	0 - 6"
	Sample Number:	A381
Aluminum		10,000
Antimony		ND UJ_8
Arsenic		17 J_{10}
Barium		51 J_{10}
Beryllium		0.58 J_8
Cadmium		4.5
Calcium		1,200 J_4
Chromium		15 J_{10}
Cobalt		11 J_{10}
Copper		19
Iron		23,000 J_4
Lead		45 J_8
Magnesium		2,100
Manganese		600 J_{10}
Mercury		ND
Nickel		16 J_{10}
Potassium		580
Selenium		ND UJ_{10}
Silver		ND UJ_{10}
Sodium		ND
Thallium		ND UJ_{10}
Total Cyanide		58
Vanadium		35
Zinc		58

02[TG5902]D3347/17/33

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-39

PCB RESULTS FOR SOIL SAMPLE
DRAINLINE C AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
F01	A383	0 - 6	0.56 J_5, T

02[TG5902]D3347/112/29

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-40

SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLE
DRAINLINE C AREA
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	F01
	Depth:	0 - 6"
	Sample Number:	A383
1,1,1-Trichloroethane		ND
1,1-Dichloroethane		ND
1,1-Dichloroethene		ND
Acenaphthene		ND
Acetone		ND
Anthracene		ND
Benzidine		ND R_3
Benzo(A)Anthracene		ND
Benzo(A)Pyrene		ND
Benzo(B)Fluoranthene		ND
Benzo(G,H,I)Perylene		ND
Benzo(K)Fluoranthene		ND
Bis(2-Ethylhexyl)Phthalate		ND
Bromodichloromethane		ND
Carbon Disulfide		ND
Chloroform		ND
Chrysene		ND
Di-N-Butyl-Phthalate		ND
Dibenzo(A,H)Anthracene		ND
Dibenzofuran		ND
Fluoranthene		ND
Fluorene		ND
Indeno(1,2,3-cd)Pyrene		ND
Methylene Chloride		13 B, R_{14}
Naphthalene		ND

02[TG5902]D3347/12/32

Table 4-40 (Cont.)

		Analytical Result
	Node:	F01
	Depth:	0 - 6"
Parameter	Sample Number:	A383
Phenanthrene		ND
Pyrene		ND

02[TG5902]D3347/12/32

Note: All concentrations are in $\mu g/kg$.

Source: Ecology and Environment, Inc. 1991.

Table 4-41

SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLE
DRAINLINE C AREA
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	F01
	Depth:	0 - 6"
Parameter	Sample Number:	A383
Aluminum		6,800
Antimony		ND UJ_8
Arsenic		10 J_{10}
Barium		69 J_{10}
Beryllium		0.62 J_8
Cadmium		3.7
Calcium		4,800 J_4
Chromium		10 J_{10}
Hexavalent Chromium		ND UJ_1
Cobalt		8.0 J_{10}
Copper		13
Iron		18,000 J_4
Lead		26 J_8
Magnesium		1,600
Manganese		1,100 J_{10}
Mercury		ND
Nickel		13 J_{10}
Potassium		890
Selenium		ND UJ_{10}
Silver		ND UJ_{10}
Sodium		ND
Thallium		ND UJ_{10}
Total Cyanide		3.8
Vanadium		27
Zinc		70

02[TG5902]D3347/18/33

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-42

PCB RESULTS FOR SOIL SAMPLES
DRAINAGE DITCH C AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A347	0 - 6	ND
02	A349	0 - 6	ND
03	A350	0 - 6	ND
04	A351	0 - 6	ND
05	A352	0 - 6	ND
06	A353	0 - 6	ND
07	A354	0 - 6	ND

02[TG5902]D3347/111/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-43

PCB RESULTS FOR SOIL SAMPLES
MISCELLANEOUS SOILS
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	A496	0 - 6	ND
02	A497	0 - 6	ND
03	A498	0 - 6	ND
04	A499	0 - 6	ND

02[TG5902]D3347/123/26

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-44

PCB RESULTS FOR SOIL/SEDIMENT SAMPLES
SEPARATOR POND AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result	
G01	A385	0 - 6	8.7*	
	B167	6 - 12	2.2*	
G02	A387	0 - 6	ND*	
G03	A388	0 - 6	2.7*	
G04	A389	0 - 6	110*	
	B169	6 - 12	310*	
	B170	12 - 24	28*	
G05	A390	0 - 6	12*	
	B173	6 - 12	4.7* J_1	
	B174	12 - 24	0.28* J_1	
G06	A391	0 - 6	13*	
	B175	6 - 12	2.6*	
			0.56*	(1248)
	B176	12 - 24	0.65* J_1	
G07	A392	0 - 6	16*	
	B177	6 - 12	10*	(1248)
	B178	12 - 24	0.57* J_1	
			0.65* J_1	(1248)
G08	A400	0 - 6	3.7*	
			2.1* T	(1248)
	B179	6 - 12	5.0*	
G09	B180	0 - 6	5.4	
G10	B182	0 - 6	1.8	
	B183	6 - 12	ND	

02[TG5902]D3347/116/26

Table 4-44 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
G11	B184	0 - 6	31 J_2
	B185	6 - 12	7.4
G12	B186	0 - 6	ND J_1
	B187	6 - 12	1.4
G13	B188	0 - 6	13
	B189	6 - 12	29 J_1
G14	B190	0 - 6	30
	B191	6 - 12	9.8 J_1
G15	B193	0 - 6	2,400
	B194	6 - 12	360
G16	B195	0 - 6	1,700 780 (1248)
	B196	6 - 12	460 460 (1248)
G17	B197	0 - 6	ND UJ_1
	B198	6 - 12	ND
G18	B199	0 - 6	2.0
	B200	6 - 12	1.5
G19	B201	0 - 6	3.7
	B202	6 - 12	2.1
G20	B204	0 - 6	ND UJ1
	B205	6 - 12	ND

02[TG5902]D3347/116/26

Notes: All concentrations are in µg/L.
All concentrations are Aroclor 1254 unless otherwise noted.

*These samples were analyzed as sediment samples.

Source: Ecology and Environment, Inc. 1991.

Table 4-45

SUMMARY OF ORGANIC TCL RESULTS FOR SEDIMENT SAMPLE
SEPARATOR POND AREA
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	08
	Depth:	0 - 6"
Parameter	Sample Number:	A400
1,1,1-Trichloroethane		ND
1,1-Dichloroethane		ND
1,1-Dichloroethene		ND
Acenaphthene		ND R_1
Acetone		58 B, R_{14}
Anthracene		ND R_1
Benzidine		ND R_3
Benzo(A)Anthracene		ND R_1
Benzo(A)Pyrene		ND R_1
Benzo(B)Fluoranthene		ND R_1
Benzo(G,H,I)Perylene		ND R_1
Benzo(K)Fluoranthene		ND R_1
Bis(2-Ethylhexyl)Phthalate		470 B, R_1
Bromodichloromethane		ND
Carbon Disulfide		ND
Chloroform		ND
Chrysene		ND R_1
Di-N-Butyl-Phthalate		ND R_1
Dibenzo(A,H)Anthracene		ND R_1
Dibenzofuran		ND R_1
Fluoranthene		ND R_1
Fluorene		ND R_1
Indeno(1,2,3-cd)Pyrene		ND R_1
Methylene Chloride		14 B, R_{14}
Naphthalene		ND R_1

02[TG5902]D3347/8/30

Table 4-45 (Cont.)

Parameter	Node: / Depth: / Sample Number:	Analytical Result
	Node:	08
	Depth:	0 - 6"
Parameter	Sample Number:	A400
Phenanthrene		ND R_1
Pyrene		ND R_1

02[TG5902]D3347/8/30

Note: All concentrations are in µg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-46

SUMMARY OF INORGANIC TAL RESULTS FOR SEDIMENT SAMPLE
SEPARATOR POND AREA
COMPRESSOR STATION 224

Parameter		Analytical Result
	Node:	08
	Depth:	0 - 6"
	Sample Number:	A400
Aluminum		7,500 J_{13}
Antimony		ND UJ_{8}
Arsenic		12 J_{10}
Barium		83 J_{10}
Beryllium		0.58 J_{8}
Cadmium		3.8
Calcium		1,100 J_{4}
Chromium		17 J_{10}
Hexavalent Chromium		ND UJ_{1}
Cobalt		10 J_{10}
Copper		13
Iron		19,000 J_{4}
Lead		31 J_{8}
Magnesium		1,800
Manganese		790 J_{10}
Mercury		ND
Nickel		16 J_{10}
Potassium		820
Selenium		ND UJ_{10}
Silver		ND UJ_{10}
Sodium		ND
Thallium		ND UJ_{10}
Total Cyanide		1.6
Vanadium		29
Zinc		53

02[TG5902]D3347/22/32

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-47

PCB RESULTS FOR SEDIMENT SAMPLES
TRIBUTARY OF FRENCH CREEK
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
On-Site			
01	A402	0 - 6	9.3 J_5, T 5.3 (1248)
02	A403	0 - 6	6.7
	B230	6 - 12	2.4
03	A404	0 - 6	1.7
	B231	6 - 12	7.0 J_1
04	A405	0 - 6	0.79
	B232	6 - 12	ND
05	A406	0 - 6	0.86
	B233	6 - 12	4.7 J_1 1.0 J_1 (1248)
06	A407	0 - 6	0.35
	B234	6 - 12	1.4
07	A408	0 - 6	1.8
	B235	6 - 12	1.9 0.50 (1248)
08	A409	0 - 6	0.79
09	A410	0 - 6	ND
10	A412	0 - 6	1.1
	B237	6 - 12	0.45
11	A413	0 - 6	0.77
12	A414	0 - 6	2.3
	B240	6 - 12	0.47 0.13 (1248)

02[TG5902]D3347/120/26

Table 4-47 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result	
13	A415	0 - 6	0.16	
	B241	6 - 12	0.62	
			0.36	(1248)
14	A416	0 - 6	ND	
15	A417	0 - 6	0.25	
	B242	6 - 12	1.9	
16	A419	0 - 6	1.6 J_5, T	
			1.3	(1248)
17	A420	0 - 6	ND	
18	A421	0 - 6	ND	
19	A422	0 - 6	0.42	
	B244	6 - 12	1.5	
20	A424	0 - 6	0.52	
	B245	6 - 12	1.2 J_1	
			0.18 J_1	(1248)
21	A425	0 - 6	ND	
22	A426	0 - 6	17	
	B246	6 - 12	0.41	
			0.31	(1248)
23	A427	0 - 6	14	
	B248	6 - 12	14	
			10	(1248)
24	A428	0 - 6	0.23	
	B251	6 - 12	ND	
25	A431	0 - 6	ND T	
26	A433	0 - 6	ND R_5, T	

02[TG5902]D3347/120/26

Table 4-47 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
27	B252	0 - 6	0.58
28	B253	0 - 6	0.17
	B254	6 - 12	0.44
29	B255	0 - 6	0.58
30	B256	0 - 6	ND
31	B257	0 - 6	ND UJ_1
32	B258	0 - 6	1.6
33	B259	0 - 6	1.4 0.82 (1248)
34	B261	0 - 6	ND
35	B262	0 - 6	1.9 J_1
36	B263	0 - 6	2.6 1.3 (1248)
37	B264	0 - 6	3.6
38	B265	0 - 6	3.5 J_1
39	B266	0 - 6	ND
	B267	6 - 12	ND
40	A480	0 - 6	3.3 0.67 (1248)
41	A481	0 - 6	0.58 0.23 (1248)
42	A482	0 - 6	1.3 0.34 (1248)
43	A483	0 - 6	1.0

02[TG5902]D3347/120/26

Table 4-47 (Cont.)

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
44	A484	0 - 6	0.14 J_1
45	A485	0 - 6	1.4
46	A486	0 - 6	0.62
47	A487	0 - 6	ND
48	A488	0 - 6	ND
Off-Site			
49	A489	0 - 6	ND
50	A491	0 - 6	0.33
51	A493	0 - 6	ND
52	A495	0 - 6	0.27

02[TG5902]D3347/120/26

Notes: All concentrations are in mg/kg.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-48

PCB RESULTS FOR WATER SAMPLES
TRIBUTARY OF FRENCH CREEK
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
On-Site			
01	A401		ND
16	A418		ND
25	A429		1.1
	B281		ND
26	A432		ND
Off-Site			
49	A490		ND

02[TG5902]D3347/121/26

Notes: All concentrations are in $\mu g/L$.
All concentrations are Aroclor 1254 unless otherwise noted.

Source: Ecology and Environment, Inc. 1991.

Table 4-49

SUMMARY OF ORGANIC TCL RESULTS FOR SEDIMENT SAMPLES
TRIBUTARY OF FRENCH CREEK
COMPRESSOR STATION 224

		Analytical Result			
	Node:	01	16	25	26
	Depth:	0 - 6"	0 - 6"	0 - 6"	0 - 6"
Parameter	Sample Number:	A402	A419	A431	A433
1,1,1-Trichloroethane		ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND
Acetone		560 B, J_8	70 B, R_{14}	24 B, R_{14}	32 B, R_{14}
Anthracene		ND	ND	ND	ND
Benzidine		ND R_3	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene		ND	ND	ND	ND
Benzo(A)Pyrene		ND	ND	ND	ND
Benzo(B)Fluoranthene		ND	ND	ND	ND
Benzo(G,H,I)Perylene		ND	ND	ND	ND
Benzo(K)Fluoranthene		ND	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate		ND	700 B, R_{14}	820 B, R_{14}	ND
Bromodichloromethane		ND	ND	ND	ND
Carbon Disulfide		ND	ND	ND	ND
Chloroform		ND	ND	ND	ND
Chrysene		ND	ND	ND	ND
Di-N-Butyl-Phthalate		ND	ND	ND	ND
Dibenzo(A,H)Anthracene		ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND
Fluorene		ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene		ND	ND	ND	ND
Methylene Chloride		ND	ND	14 B, R_{14}	14 B, R_{14}
Naphthalene		ND	ND	ND	ND

02(TG5902)D3347/10/14

Table 4-49 (Cont.)

		Analytical Result			
	Node:	01	16	25	26
	Depth:	0 - 6"	0 - 6"	0 - 6"	0 - 6"
Parameter	Sample Number:	A402	A419	A431	A433
Phenanthrene		ND	ND	ND	ND
Pyrene		ND	ND	ND	ND

02[TG5902]D3347/10/14

Note: All concentrations are in μg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-50

SUMMARY OF INORGANIC TAL RESULTS FOR SEDIMENT SAMPLES
TRIBUTARY OF FRENCH CREEK
COMPRESSOR STATION 224

		Analytical Result			
	Node:	01	16	25	26
	Depth:	0 - 6"	0 - 6"	0 - 6"	0 - 6"
Parameter	Sample Number:	A402	A419	A431	A433
Aluminum		8,400 J_{13}	6,800	8,400 J_{13}	7,100
Antimony		ND UJ_8	ND	ND UJ_8	ND UJ_8
Arsenic		9.3 J_{10}	6.1 J_{10}	14 J_{10}	8.8 J_{10}
Barium		78 J_{10}	33 J_{10}	100 J_{10}	79 J_{10}
Beryllium		0.88 J_8	0.46	0.77 J_8	0.56 J_8
Cadmium		4.7	2.1	4.4	3.4
Calcium		2,100	350 J_4	1,400 J_4	1,300
Chromium		27 J_{10}	7.6 J_{10}	26 J_{10}	11 J_{10}
Hexavalent Chromium		0.36 J_1	0.19 J_1	1.3 J_1	NA
Cobalt		12 J_{10}	4.3 J_{10}	13 J_{10}	11 J_{10}
Copper		16	10	14	11
Iron		23,000	11,000 J_4	24,000 J_4	19,000 J_4
Lead		45 J_8	30 J_8	44 J_8	38 J_8
Magnesium		2,000	980	2,000	1,500
Manganese		410 J_{10}	73 J_{10}	640 J_{10}	1,400 J_{10}
Mercury		ND	ND	ND	ND
Nickel		18 J_{10}	6.8 J_{10}	18 J_{10}	13 J_{10}
Potassium		910	420	880	580
Selenium		0.26 J_{10}	ND UJ_{10}	ND UJ_{10}	0.15 J_{10}
Silver		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Sodium		ND	ND	ND	ND
Thallium		ND UJ_{10}	ND UJ_{10}	ND UJ_{10}	ND UJ_{10}
Total Cyanide		ND	3.4	ND	2.2
Vanadium		34	17	34	26
Zinc		85	43	54	50

02[TG5902]D3347/25/15

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-51

TCLP MERCURY RESULTS FOR SOIL LEACHATE SAMPLES
METER BUILDING AREA
COMPRESSOR STATION 224

Sample Node	Sample Number	Sample Depth (inches)	Analytical Result
01	M001	0 - 6	ND
02	M002	0 - 6	ND

02[TG5902]D3347/124/26

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 4-52

SUMMARY OF CHROMIUM RESULTS FOR SOIL SAMPLES
JACKET WATER COOLER AREA
COMPRESSOR STATION 224

		Analytical Result						
	Node:	01		02		03		04
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"
Parameter	Sample Number:	A442	A444	A445	A446	A447	A448	A449
Chromium Total		19	18	17	16	22	22	24
Hexavalent Chromium		ND UJ_1	ND UJ_1	ND UJ_1	ND UJ_1	0.18 J_1	ND UJ_1	0.13 J_1

02[TG5902]D3347/20/9

Table 4-52 (Cont.)

		Analytical Result						
	Node:	04	05		06		07	
	Depth:	6 - 12"	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"	6 - 12"
Parameter	Sample Number:	A450	A451	A452	A454	A455	A456	A457
Chromium Total		21	120	18	100	22	80	49
Hexavalent Chromium		ND UJ_1	0.61 J_1	ND UJ_1	0.97 J_1	0.14 J_1	0.26 J_1	0.14 J_1

02[TG5902]D3347/20/9

Table 4-52 (Cont.)

Parameter		Analytical Result	
	Node:	08	
	Depth:	0 - 6"	6 - 12"
	Sample Number:	A458	A459
Chromium Total		75	25
Hexavalent Chromium		1.6 J_1	ND UJ_1

02[TG5902]D3347/20/9

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-53

SUMMARY OF CHROMIUM RESULTS FOR SOIL SAMPLES
JACKET WATER SURGE TANK AREA
COMPRESSOR STATION 224

		Analytical Result						
	Node:	01		02		03		04
	Depth:	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"	6 - 12"	0 - 6"
Parameter	Sample Number:	A460	A461	A462	A463	A465	A466	A467
Chromium Total		4.2	9.6	19	20	22	19	27
Hexavalent Chromium		ND UJ[1]	ND UJ[1]	ND UJ[1]	ND UJ[1]	ND UJ[1]	ND UJ[1]	ND UJ[1]

02[TG5902]D3347/24/9

Table 4-53 (Cont.)

Parameter		Analytical Result
	Node:	04
	Depth:	6 - 12"
	Sample Number:	A468
Chromium Total		19
Hexavalent Chromium		ND UJ_1

02[TG5902]D3347/24/9

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 4-54

SUMMARY OF CHROMIUM RESULTS FOR SOIL SAMPLES
JACKET WATER MODULATING VALVE AREA
COMPRESSOR STATION 224

		Analytical Result	
	Node:	01	
	Depth:	0 - 6"	6 - 12"
Parameter	Sample Number:	A469	A470
Chromium Total		36	150
Hexavalent Chromium		ND UJ_1	ND UJ_1

02[TG5902]D3347/21/31

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Key

IDENTIFIERS USED TO INDICATE QUALIFIED RESULTS

Identifier	Definition
ND	Not detected above detection limit.
NA	Not analyzed.
NS	Not sampled.
T	Submitted for TCL/TAL analysis.
B	Also present in blank.
D	Duplicate sample.
S	Split sample.
J	Sample value estimated.
R	Sample result unreliable.
UJ	Sample detection limit estimated.
X	Sample value exceeds calibration range.
Subscript Qualifiers	
1	Holding time limits exceeded.
2	Gas chromatograph/mass spectrometer (GC/MS) tuning requirements not met.
3	Initial calibration criteria not met.
4	Continuing calibration criteria not met.
5	Surrogate spike recovery value out of required limits.
6	Matrix spike/matrix spike duplicate criteria not met.
7	Internal standard recovery results out of QC limits.
8	Instrument performance check criteria not met.
9	Contract required detection limit (CRDL) results out of QC limits.
10	Inorganic sample spike recovery results out of QC limits.
11	Replicate analysis results out of QC limits.
12	Laboratory control sample (LCS) results out of QC limits.
13	Furnace atomic absorption (AA) post digest spike recovery results out of QC limits.
14	This analyte also found in associated method blank.

Key (Cont.)

Identifier	Definition
15	The instrument level for this analyte exceeded the calibration range in this sample.
16	Negative instrument response observed.

02[TG5901]D3380/186/23

Source: Ecology and Environment, Inc. 1991.

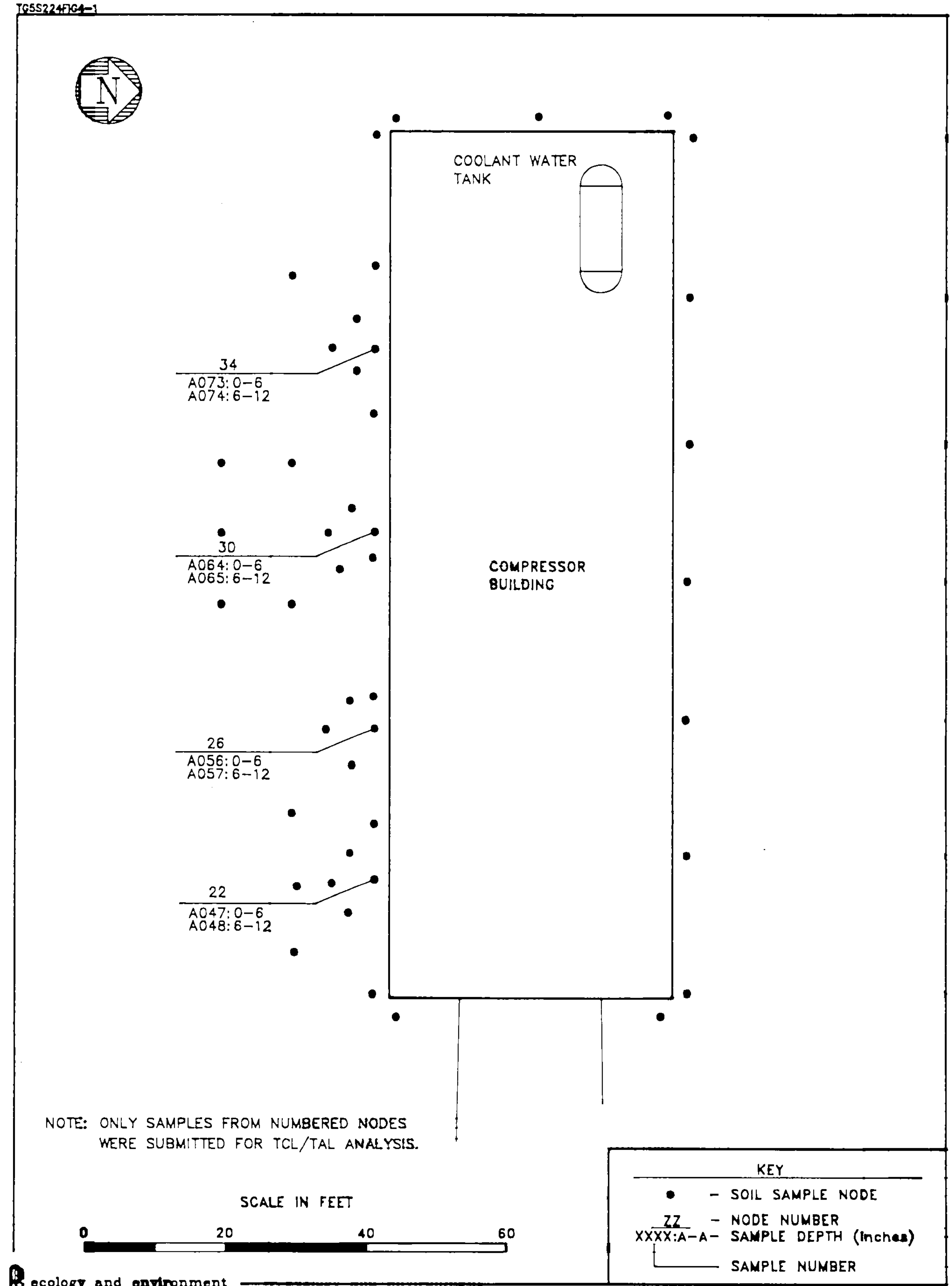

Figure 4-1 TCL/TAL SOIL SAMPLE LOCATIONS - COMPRESSOR BUILDING AREA

TG55224FIG4-2

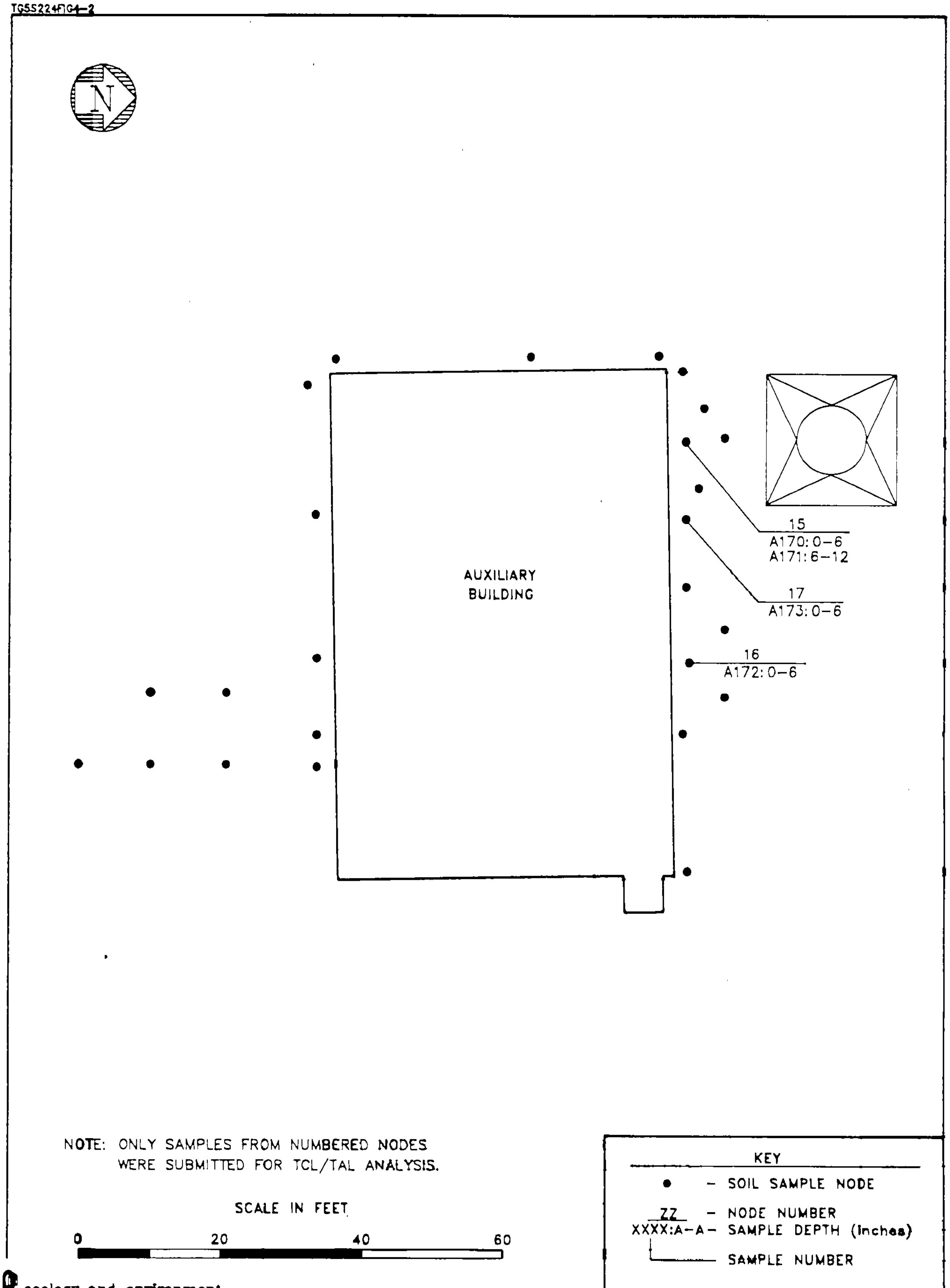

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Figure 4-2 TCL/TAL SOIL SAMPLE LOCATIONS - AUXILIARY BUILDING AREA

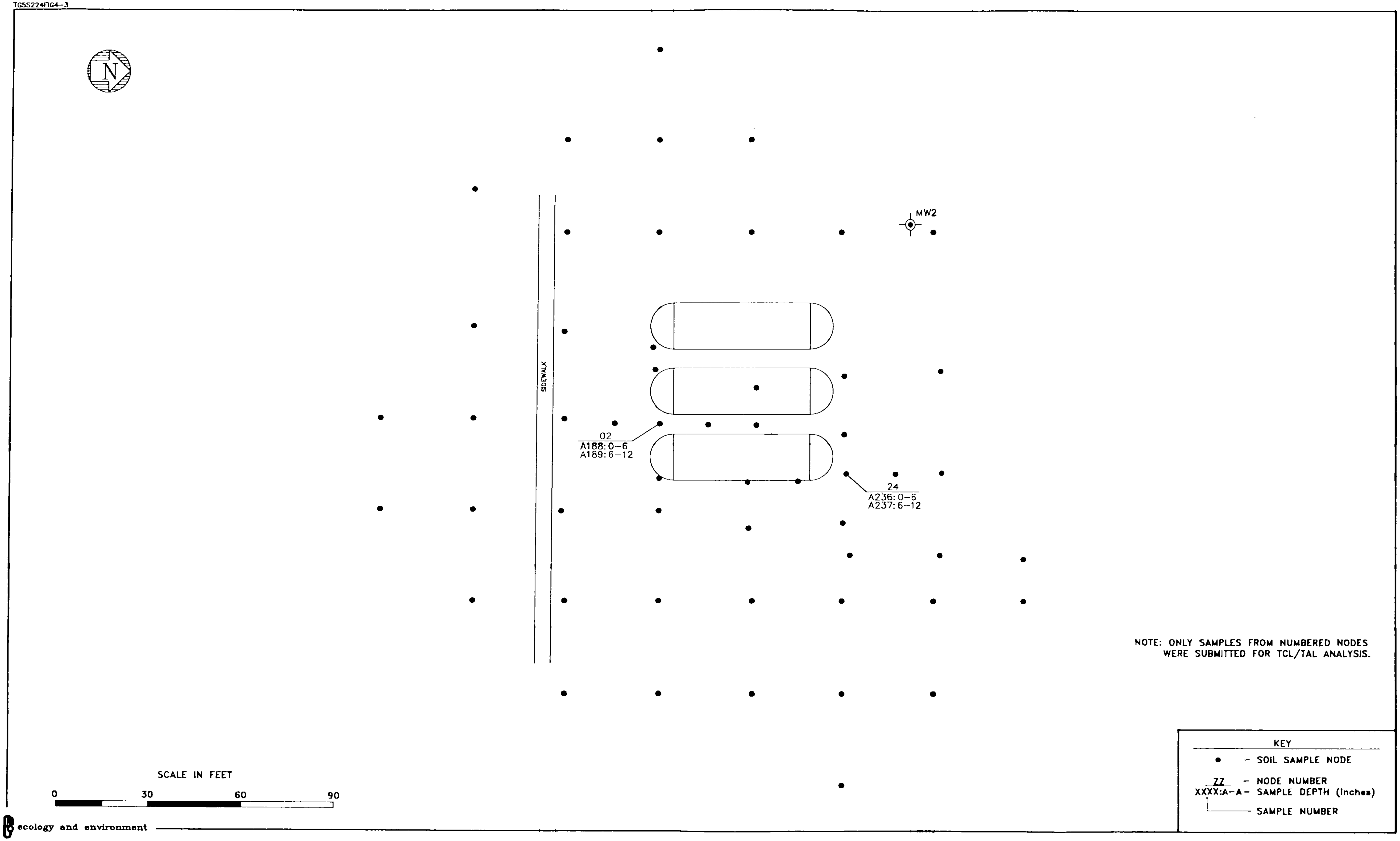

Figure 4-3 TCL/TAL SOIL SAMPLE LOCATIONS AIR RECEIVER TANK AREA

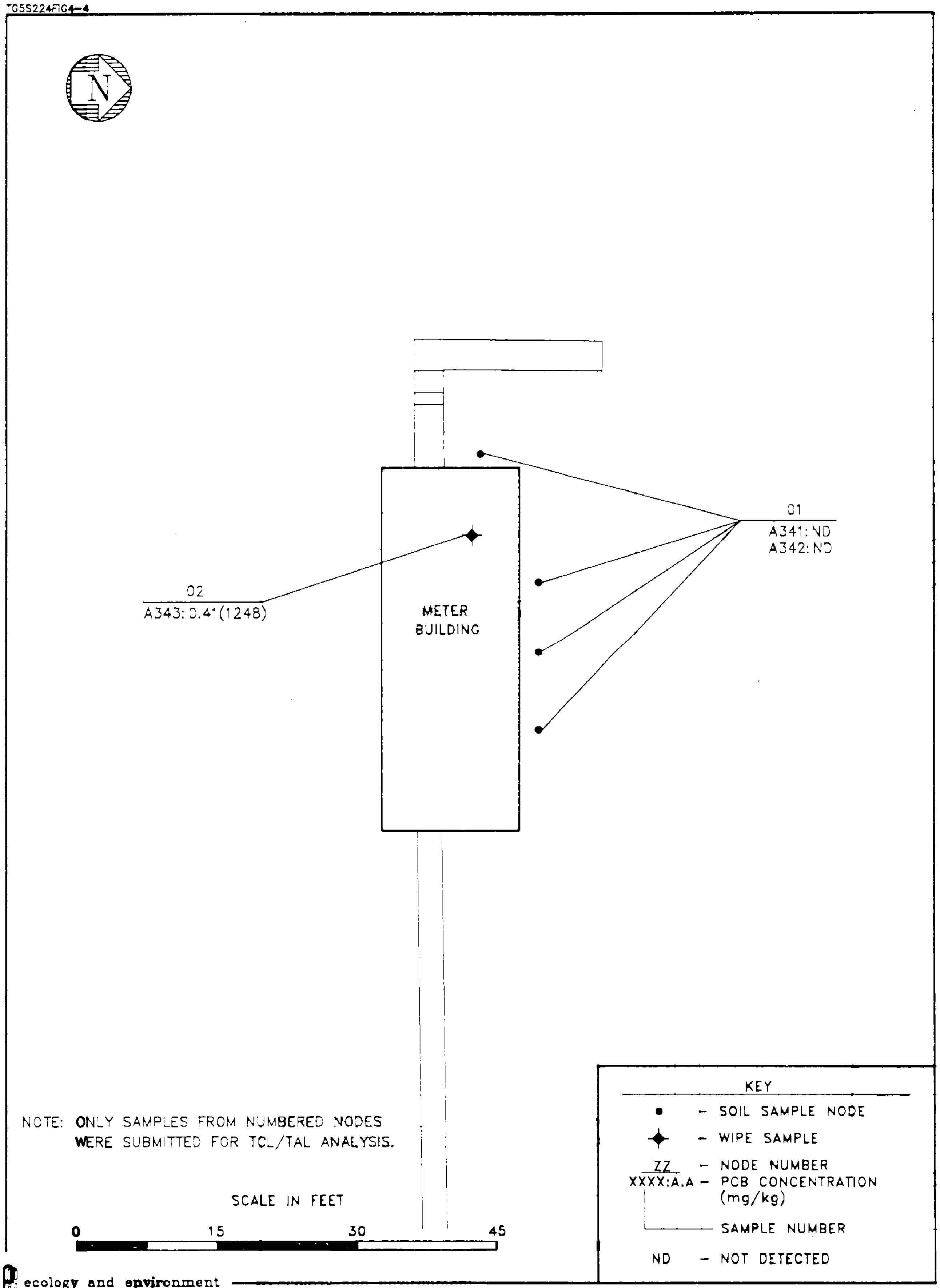

Figure 4-4 PCB SAMPLE LOCATIONS AND ANALYTICAL RESULTS - METER BUILDING AREA

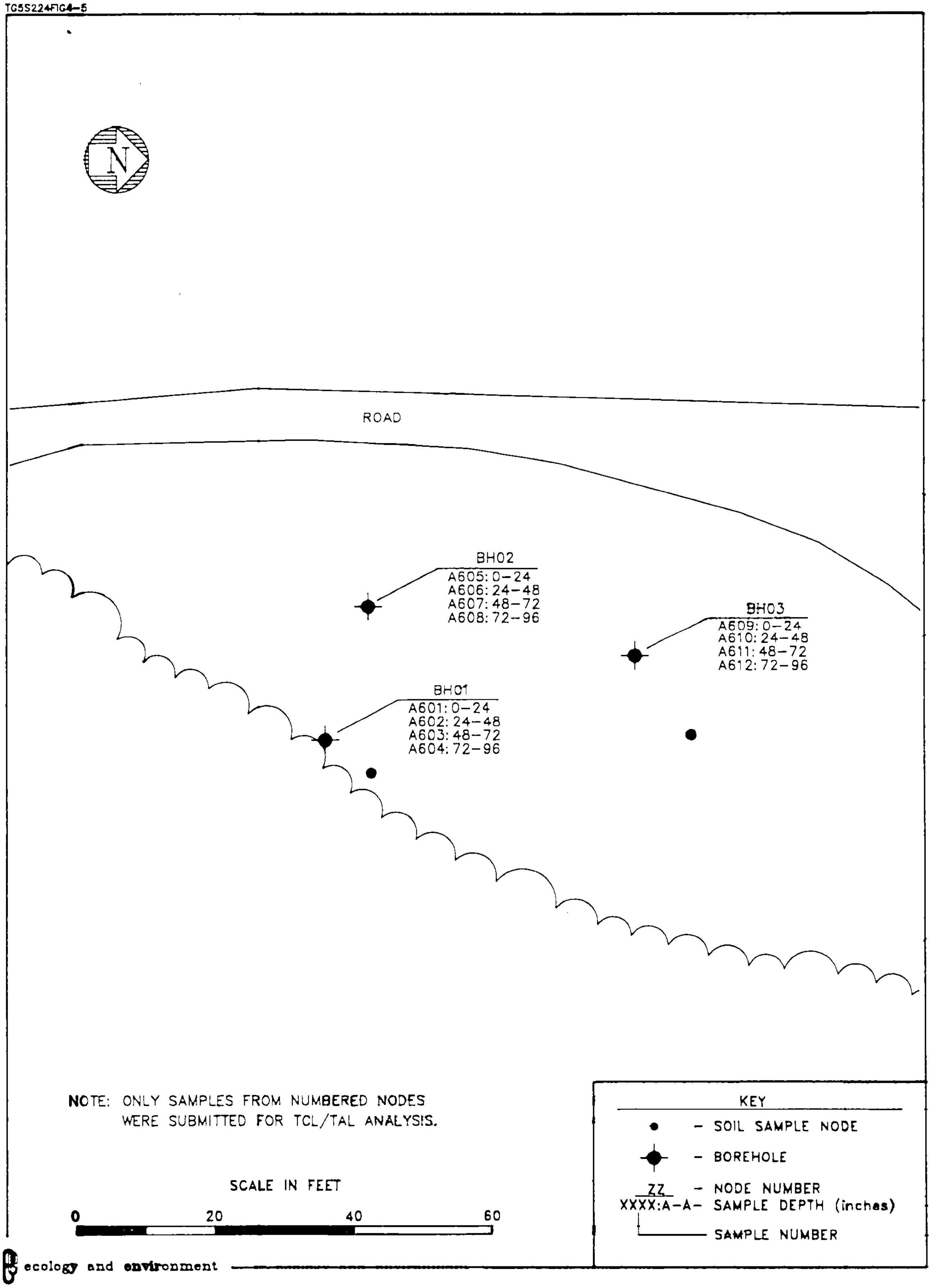

Figure 4-5 TCL/TAL SOIL SAMPLE LOCATIONS - SCRAP YARD AREA A

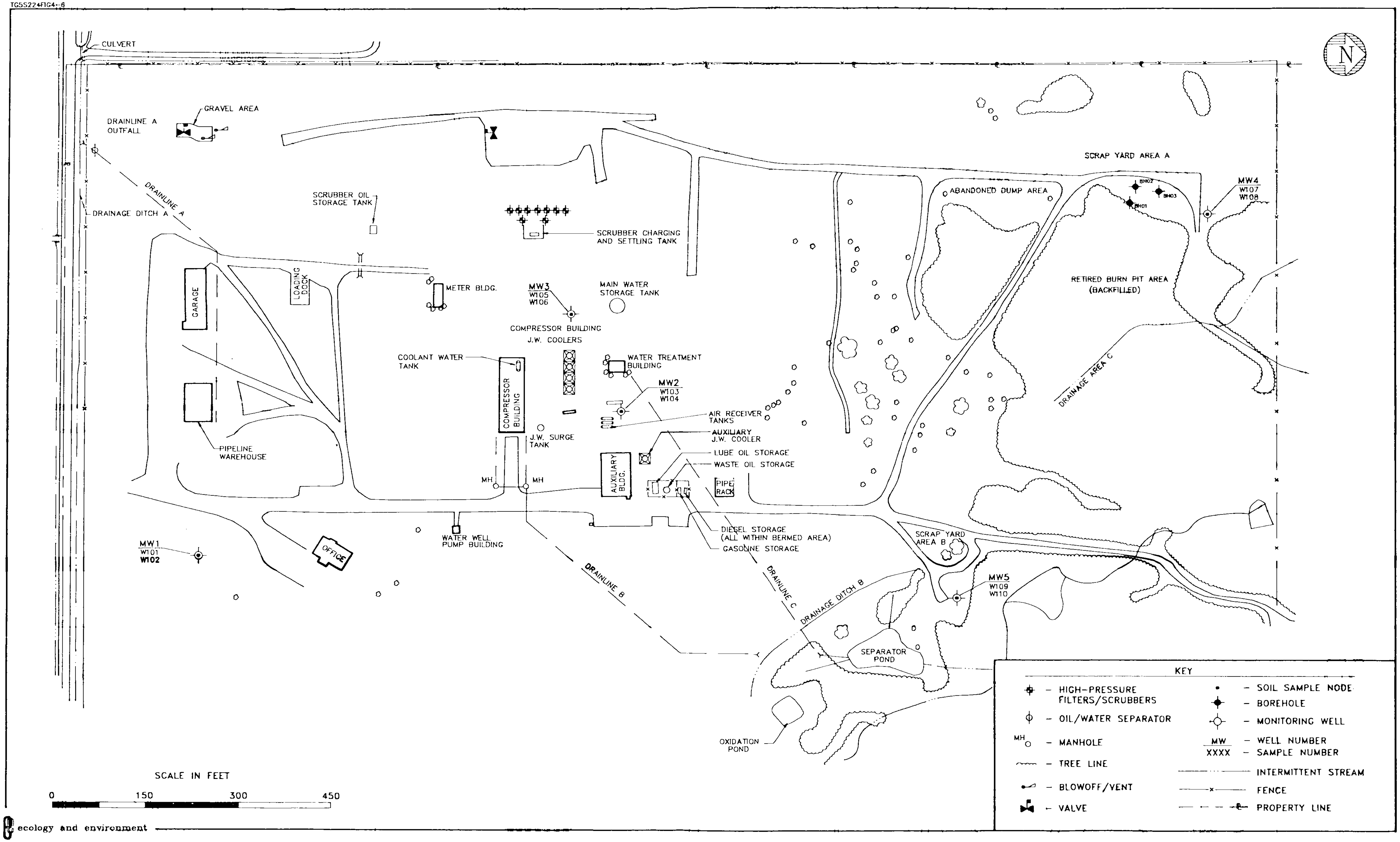

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Figure 4-6 TCL/TAL GROUNDWATER SAMPLE LOCATIONS – MONITORING WELLS

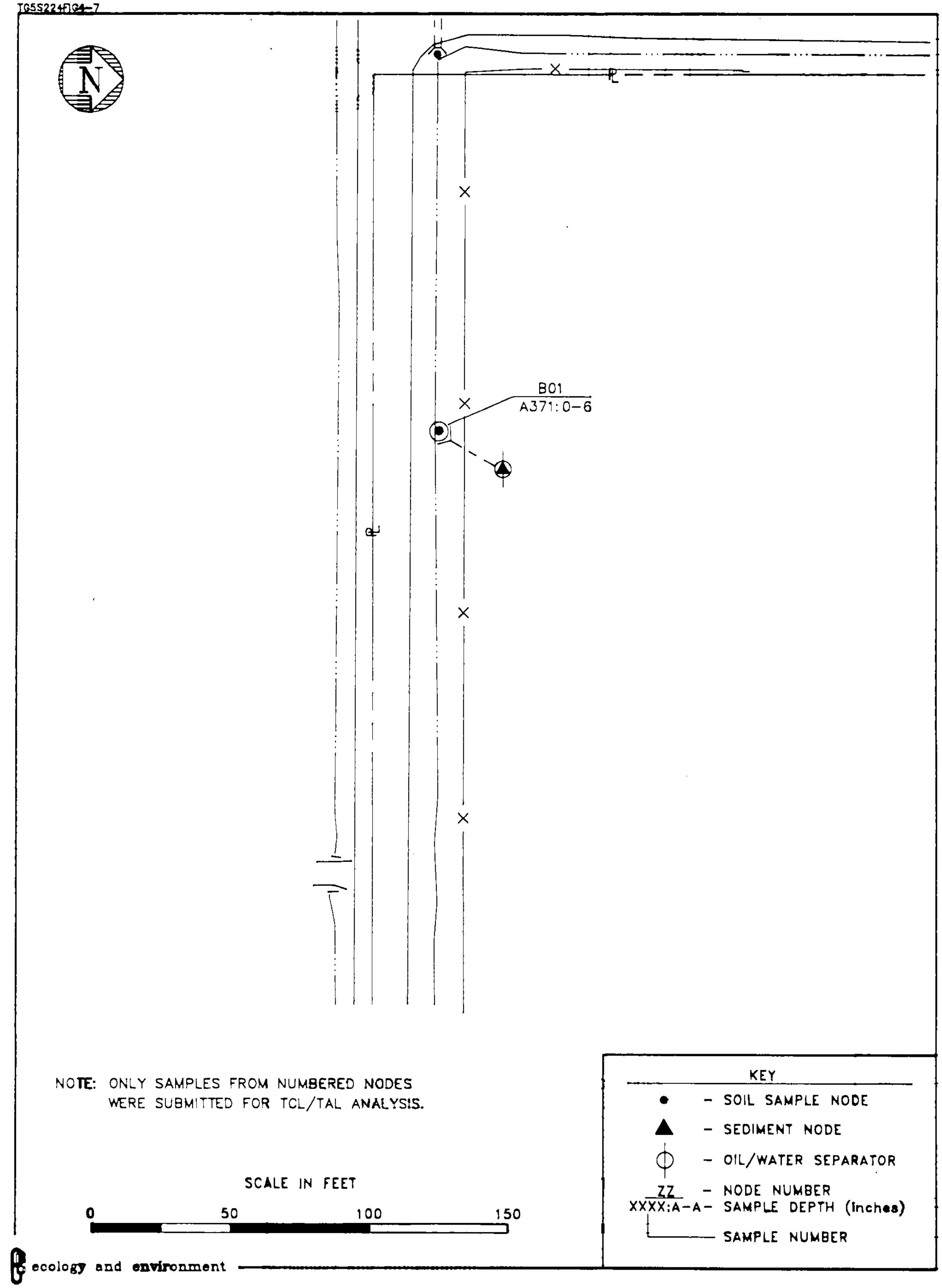

Figure 4-7 TCL/TAL SOIL SAMPLE LOCATION - DRAINLINE A AREA

TG5S224FIG4-8

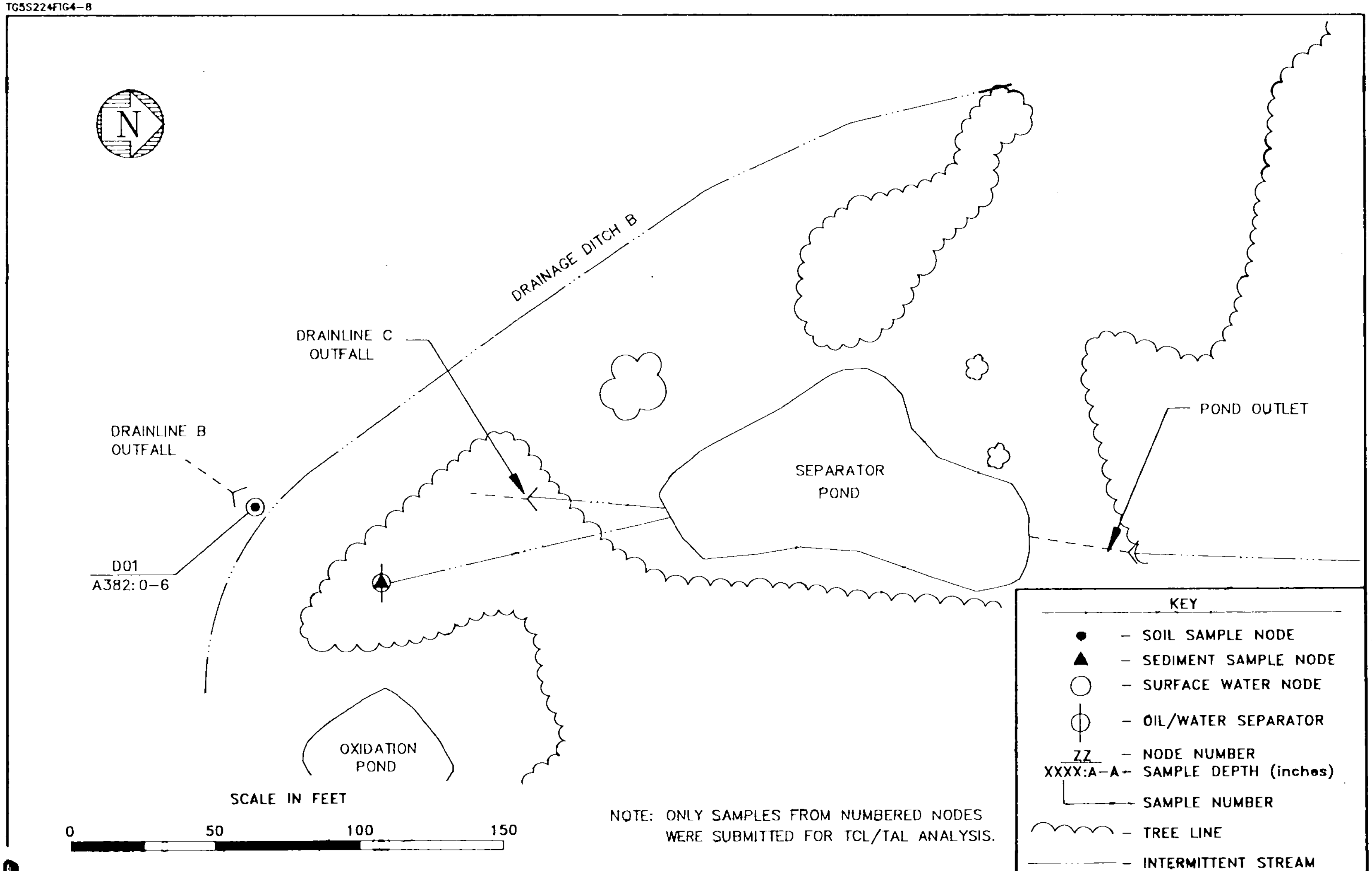

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Figure 4-8 TCL/TAL SOIL SAMPLE LOCATION - DRAINLINE B AREA

TG5S224FIG4-8B

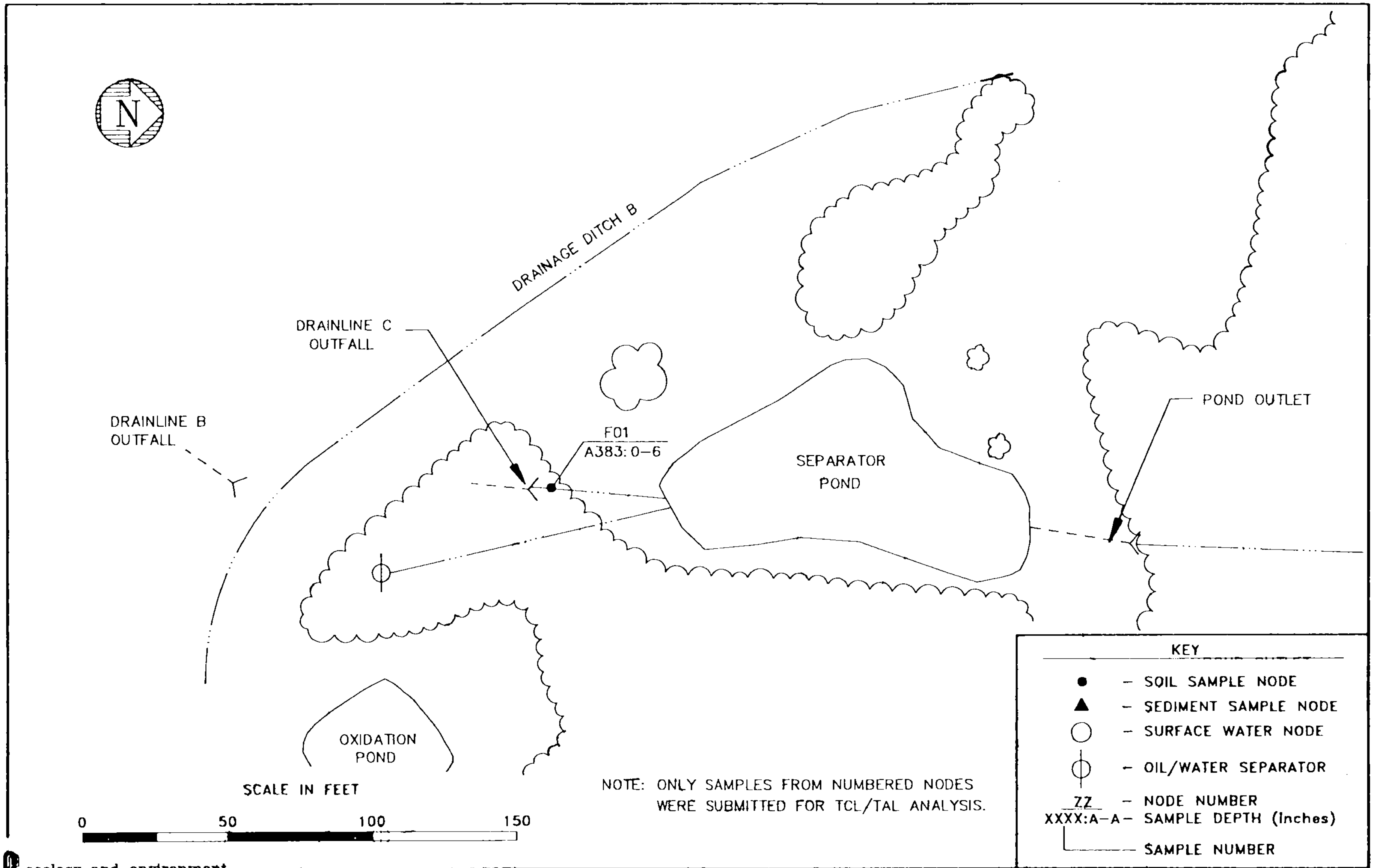

Figure 4-9 TCL/TAL SOIL SAMPLE LOCATION – DRAINLINE C AREA

TG5S224FIG4-9

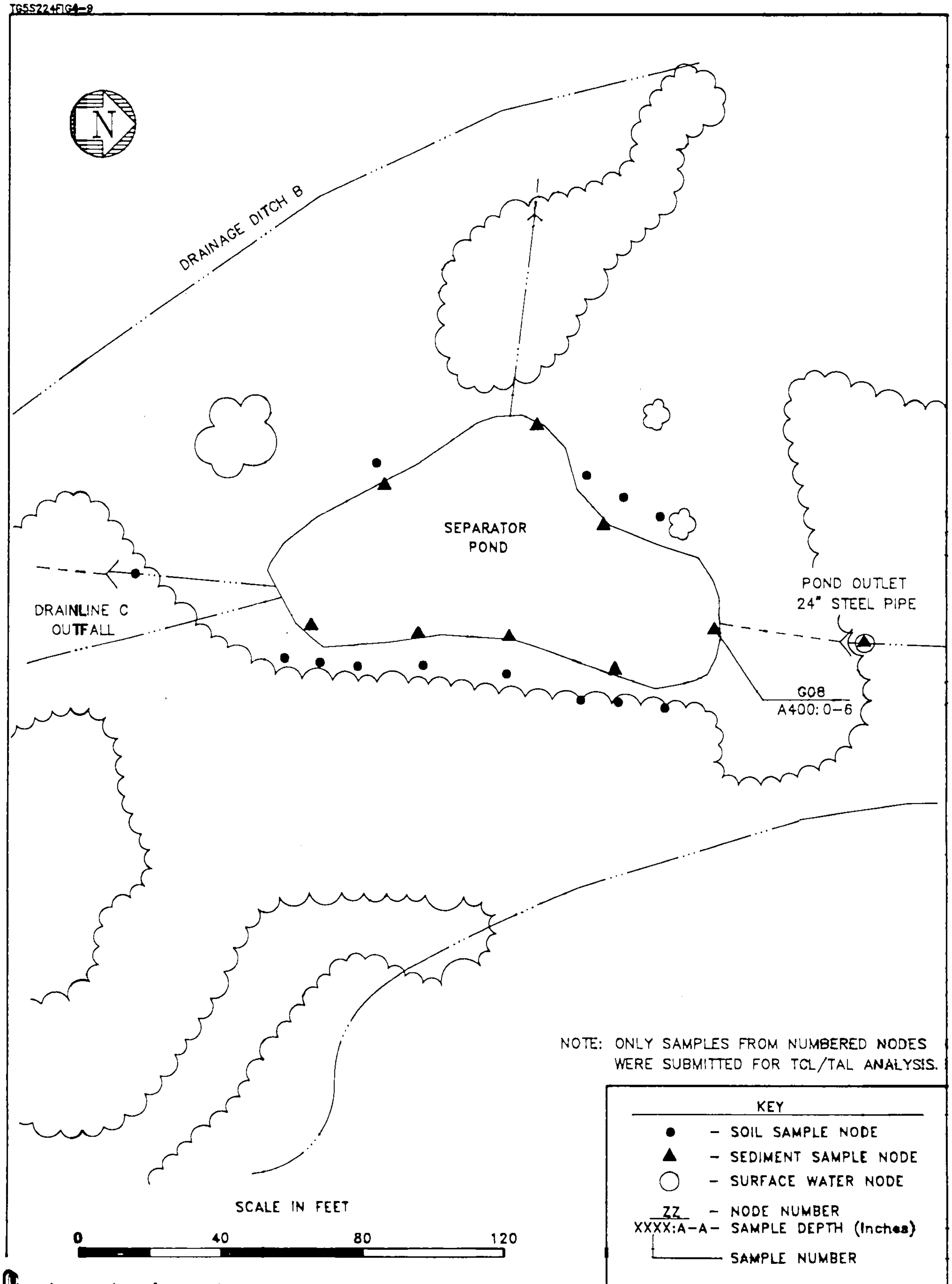

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Figure 4-10 TCL/TAL SEDIMENT SAMPLE LOCATION - SEPARATOR POND AREA

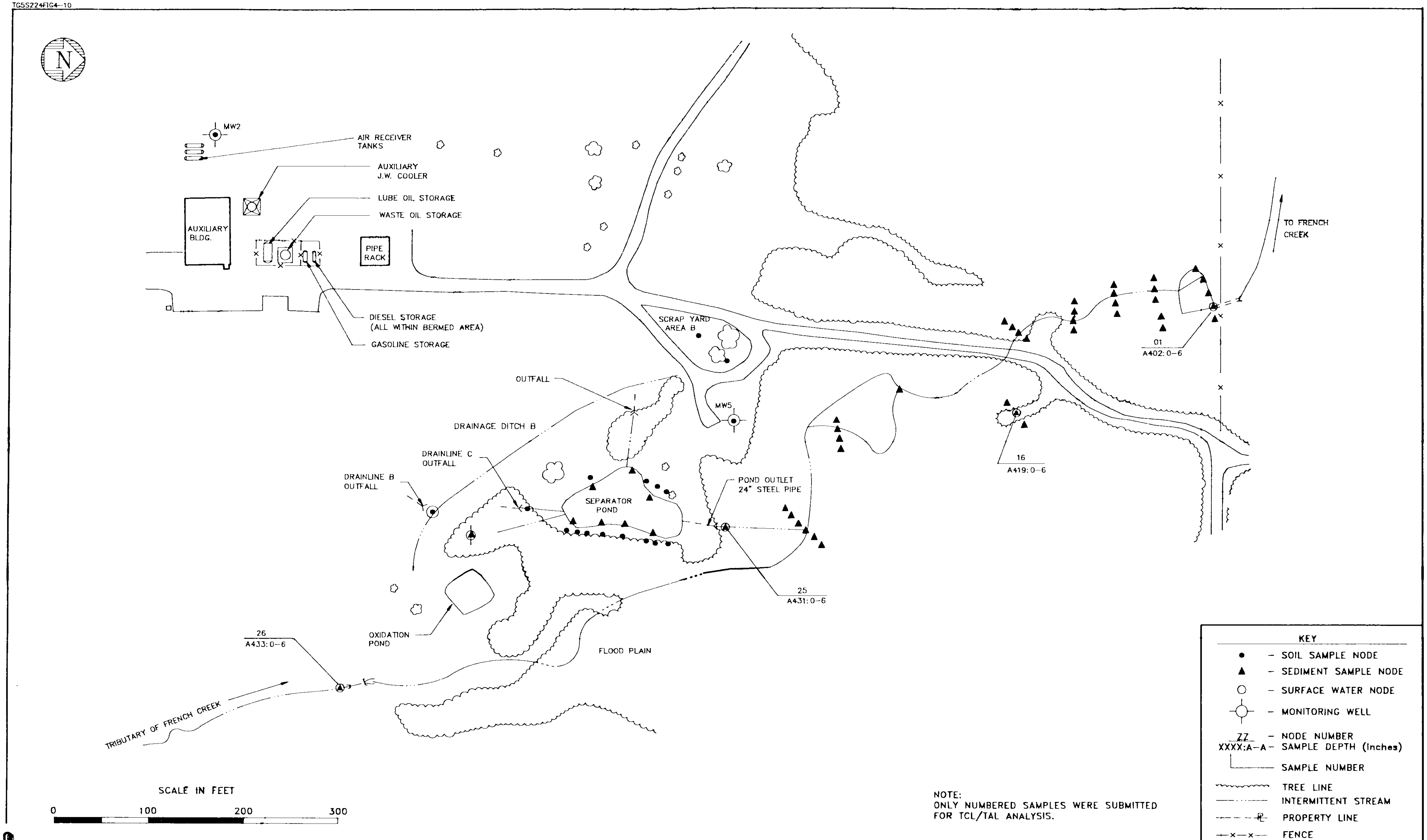

Figure 4-11 TCL/TAL SEDIMENT SAMPLE LOCATIONS - TRIBUTARY OF FRENCH CREEK

TG5S224FIG4-11

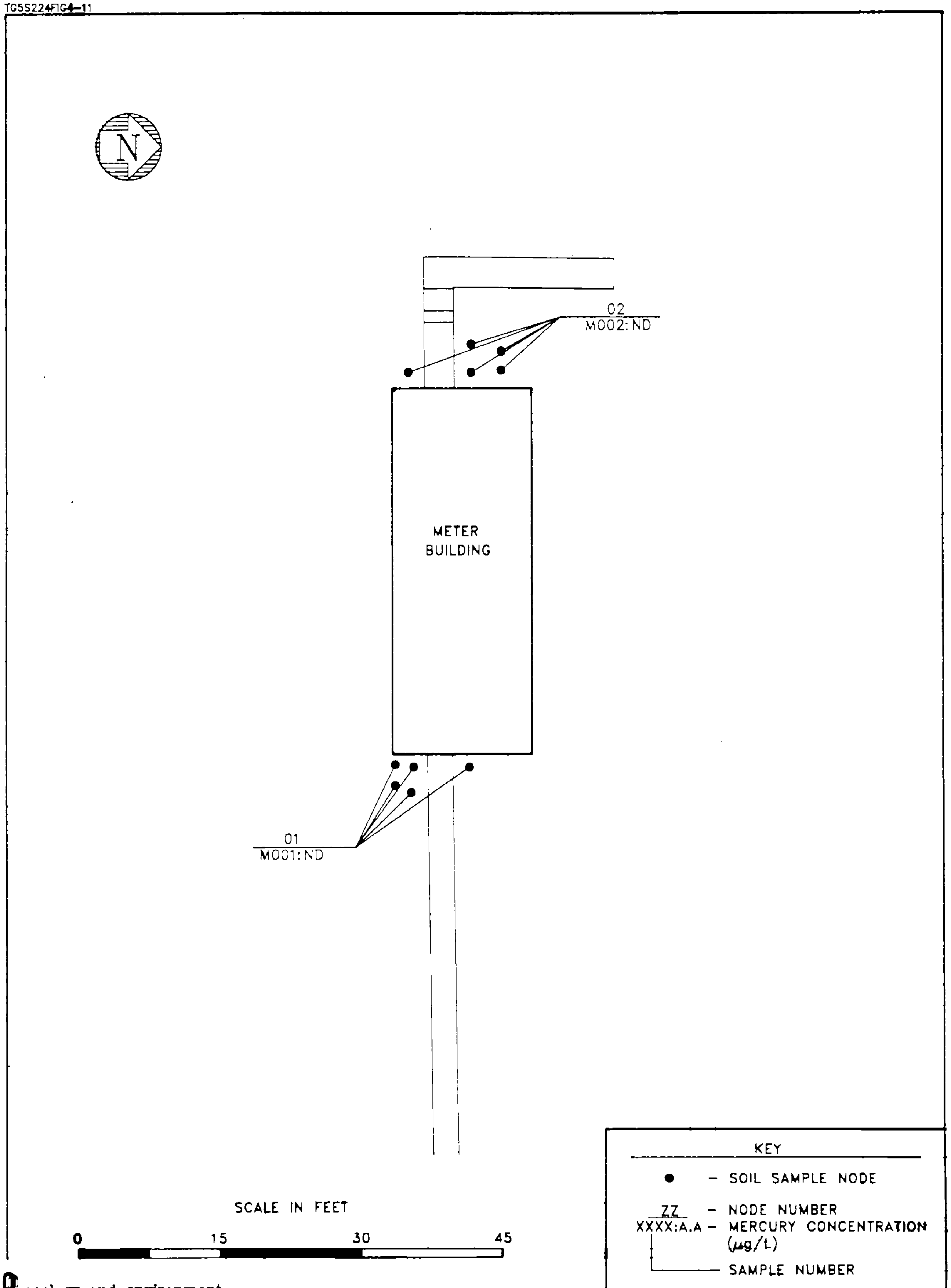

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Figure 4-12 MERCURY SAMPLE LOCATIONS AND ANALYTICAL RESULTS - METER BUILDING AREA

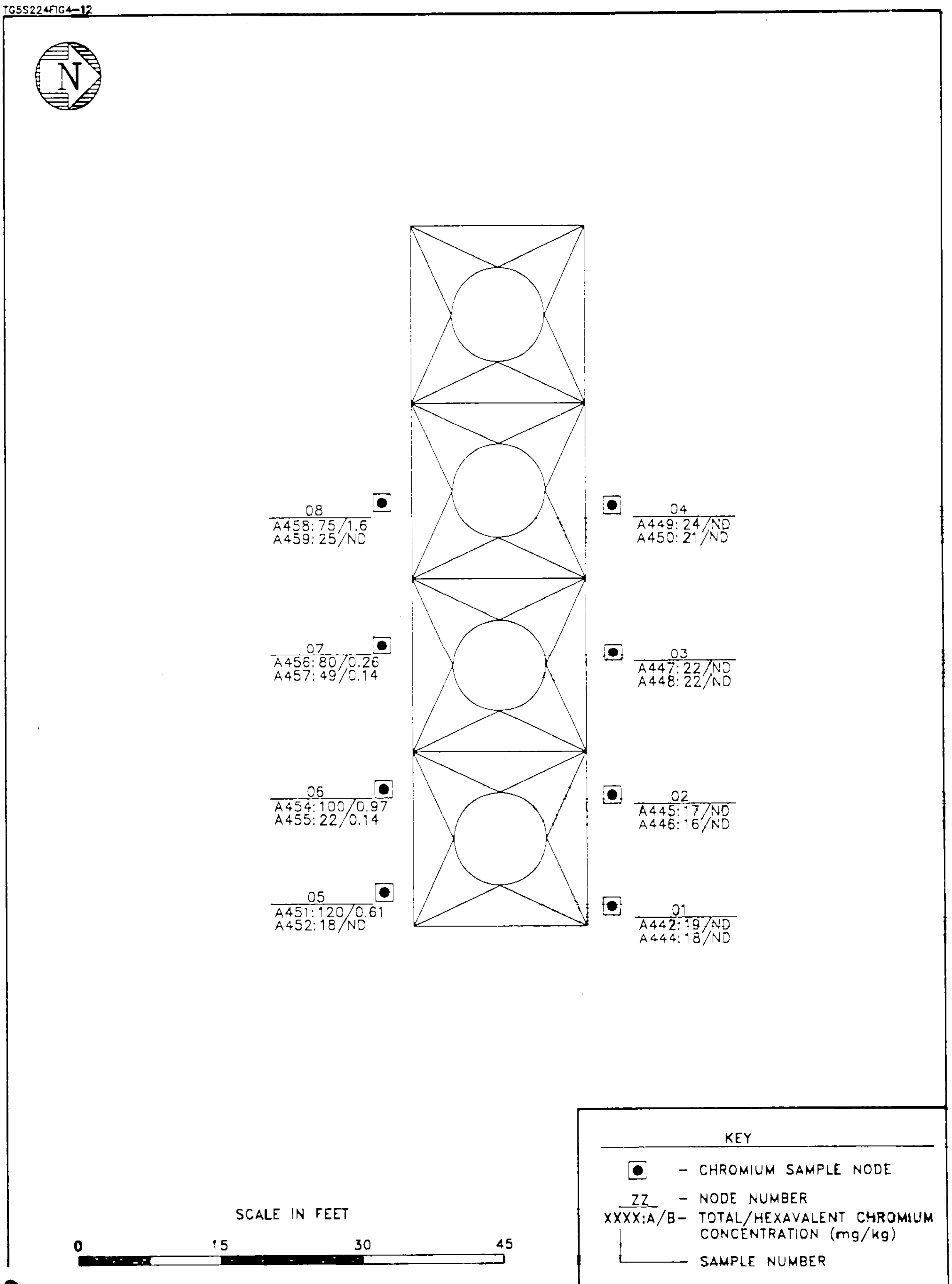

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Figure 4-13 CHROMIUM SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS – JACKET WATER COOLER AREA

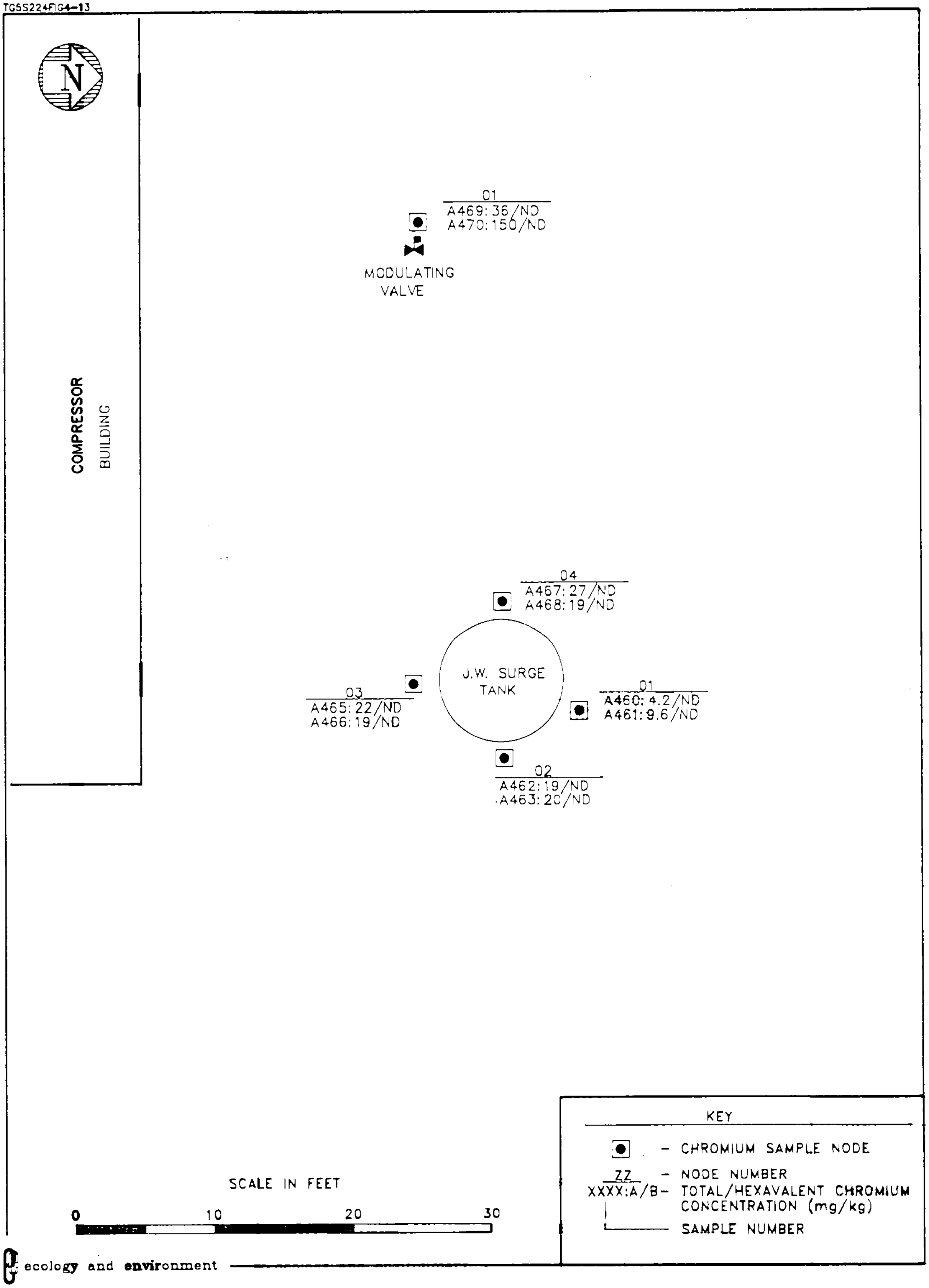

Figure 4-14 CHROMIUM SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS – JACKET WATER SURGE TANK AND MODULATING VALVE AREAS

5. QUALITY ASSURANCE/QUALITY CONTROL

5.1 INTRODUCTION

Quality assurance (QA) and quality control (QC) are two sets of procedures which work together to produce data of known and measurable quality. QC represents the set of measurement procedures used in the field and laboratory to monitor the performance of analytical instruments, pinpoint sources of contamination, and to provide information on the accuracy and precision of sample results. QA represents the set of review procedures used to ensure that quality control information is available and used properly to evaluate data quality.

This section summarizes the results of the review process used to evaluate laboratory and field data quality, reliability, and validity for Station 224. Data review for all TCL/TAL analyses was performed by independent data validators. Data review for all PCB-only analyses was performed by E & E QA chemists. Both the independent validators and E & E QA chemists utilized EPA Functional Guidelines for Evaluating Organic/Inorganic Analyses (1988). Compliance to the methods and QA/QC criteria specified in the Quality Assurance Project Plan (QAPP) was evaluated. The data review results presented in this section are used to determine data usability for the site characterization study.

5.2 FIELD QC REVIEW

Field QC samples, which include trip blanks, field blanks, rinsate blanks, and field duplicates, are used to evaluate field sampling techniques. The purpose of blank analysis is to evaluate the existence and extent of sample contamination due to field conditions, decontamination, and/or handling procedures. The purpose of field duplicate analysis is to assess the consistency of the sampling procedures and the precision of the analytical methods.

5.2.1 Blanks

Various types of blanks are used to check the cleanliness of sample handling in the field. The blanks are analyzed in the laboratory as samples for the purpose of assessing the sampling and transport procedures as possible sources of sample contamination. All blanks are treated as samples using standard labeling, packaging, and chain-of-custody procedures. Rigorous documentation of all blanks in the site logbooks is mandatory.

- **Trip Blanks** are similar to routine field blanks with the exception that they are not exposed to field conditions. Their analytical results give the overall level of contamination from everything except ambient field conditions. One trip blank was collected with every shipment of samples for volatile organic analysis. Trip blanks were prepared by filling a 40-ml vial with deionized water prior to the sampling trip, transported to the site, handled like a sample, and returned to the laboratory for analysis without being opened in the field.

- **Field Blanks** are blank samples prepared during water sampling designed to pinpoint contamination resulting from any airborne pollutants and ambient conditions. Field blanks were prepared by pouring deionized water into sample bottles in the field (some through a filter).

- **Rinsate Blanks** are blank samples designed to demonstrate that water or soil sampling equipment has been properly prepared and cleaned before field use, and that cleaning procedures between sample collection are sufficient to minimize cross contamination. The method used to prepare a soil rinsate blank during soil sampling involved scooping clean sand with a decontaminated auger head and sleeve. Once inside the auger head, the sand was poured directly into a sample jar. Water rinsate blanks were prepared by pouring deionized water through the auger head and sleeve, or through the drill rig core barrel.

Blank Results

Six trip blanks were submitted and analyzed for volatile organics. Five of the trip blanks were submitted with the soil and sediment samples. These results appear in Table 5-1. Acetone was detected in two of the blanks, but its presence is attributable to minor laboratory contamination and does not affect the sample results. One trip blank

(W115) was submitted with the groundwater samples. These results appear in Table 5-2. The low levels of methylene chloride and acetone detected in this blank are attributable to minor laboratory contamination.

Two field blanks (W113, W114) were submitted with the groundwater samples. W113 was submitted to represent the unfiltered groundwater samples. It was analyzed for PCBs, TCL/TAL parameters, and general chemistry parameters. The results appear in Tables 5-3 through 5-6. The other field blank, W114, was prepared as W113, but was also poured through the barrel filter to represent the filtered groundwater samples. It was analyzed for PCBs and TAL analytes. These results appear in Tables 5-3 and 5-5.

The low levels of methylene chloride and acetone detected in W113 can be attributed to minor laboratory contamination. Iron and manganese were present above the detection limit in both the filtered and unfiltered field blanks. With the exception of samples W102, W104, and W112, the levels of iron and manganese in the filtered and unfiltered samples were significantly higher than the levels in the field blanks, and their presence should be considered valid. The relatively low iron concentrations in samples W102, W104, and W112 are likely attributable to background field contamination. Sodium and zinc were present above the detection limit in the filtered field blank W114. The levels of sodium in the filtered samples were significantly higher than the level in the filtered field blank, and its presence in the samples should be considered valid. The levels of zinc in the filtered samples were comparable to the level of zinc in the field blank. The presence of zinc in filtered samples W102, W104, W106, W108, and W110 is most likely attributable to background field contamination.

PCBs were not present in either W113 or W114. Dissolved solids, total organic carbon, and total organic halogens were present above the detection limit in unfiltered field blank W113. All three analytes were present in the samples at comparable levels with the exception of a substantially higher level of total organic carbon in sample W109. The presence of dissolved solids, total organic carbon, and total organic halogens in unfiltered samples W101, W103, W105, and W107 is attributable to background field contamination. The presence of dissolved solids and total organic halogens in sample W109 is also attributable to background field contamination. The presence of total organic carbon in sample W109 should be considered valid.

Thirty-six soil rinsate blanks were submitted with the soil samples. Thirty-four were submitted for PCB analysis. PCBs were not present above the detection limit in any of the soil rinsate blanks. These results appear in Table 5-7. One soil rinsate blank was analyzed for total and hexavalent chromium. These results are shown in Table 5-8. With the exception of sample A460, the low level of total chromium detected in the blank does not affect the sample results because the total chromium values in the samples are greater than five times the blank result. Sample A460 had a total chromium concentration of less than five times that of the rinsate blank. Its presence is considered questionable and is most likely due to background field contamination. The likely source of chromium in this blank is the sand used to make it. One soil rinsate blank was analyzed for TCLP mercury. This result appears in Table 5-9. Mercury was not present above the detection limit in the TCLP leachate sample.

Three of the 36 soil rinsate blanks (A908, A914, and A920) were analyzed for TCL/TAL parameters. These results appear in Tables 5-10 and 5-11. The presence of methylene chloride, acetone, and bis(2-ethylhexyl)phthalate in the soil rinsate blanks is attributable to laboratory contamination. The presence of organic compounds in the samples is also attributable to laboratory contamination.

Sodium was present in these three soil rinsate blanks, but was not present above the detection limit in any of the 12 field samples. The likely source of sodium in these blanks is the sand used to make them. With the exception of cadmium, chromium, magnesium, and potassium, most of the metals detected in the sand rinsate blanks were detected at significantly higher levels in the samples. Therefore, their presence in the samples is considered valid. The levels of cadmium in samples A236 and A237; calcium and magnesium in all 12 samples associated with these three rinsate blanks; and chromium in sample A419 were less than five times the levels in the soil rinsate blanks. Potassium in sample A419 was less than five times the level in rinsate blank A920. Therefore, the presence of these metals in the corresponding samples is questionable and most likely due to background field contamination.

One water rinsate blank (A921) and one sample of the water used during drilling (A801) were submitted with the water and soil samples, respectively. Rinsate blank A921 was prepared by pouring deionized water through the auger head and sleeve. PCBs were not present above the detection limit in the rinsate blank. Rinsate blank A921 was also analyzed for TCL/TAL parameters. The results appear in Tables 5-12 through 5-14. Although beta-BHC was present in rinsate blank A921, it was not present in the associated field samples. Laboratory contaminants methylene chloride and bis(2-ethylhexyl)phthalate were present in rinsate blank A921. Calcium, lead, sodium, and zinc were also present but have no impact on the field sample results which were significantly higher for these metals. Drill water sample A801 was also submitted for PCB and TCL/TAL analysis. These results appear in Tables 5-15 through 5-17. PCBs were not detected in the drill water sample. The low levels of bromodichloromethane, chloroform, and chlorodibromomethane detected in this sample can be attributed to drilling water obtained from a chlorinated water source. Methylene chloride, acetone, and beta-BHC were detected in sample A801, and were also detected in the laboratory method blank. Their presence in the drill water sample is attributable to laboratory contamination. In general, the presence of metals in the drill water did not contribute significantly to the presence of metals in the soil samples.

Two water field blank samples (A915 and B282) were collected during the surface water sampling and analyzed for PCBs. These results appear in Table 5-18. No PCBs were present in either water field blank.

5.2.2 Field Duplicates

Description of Field Duplicates

Field duplicates are samples collected independently at a single sampling location during a single sampling event. In some instances, the field duplicate is a blind duplicate indistinguishable from other analytical samples so that personnel performing the analyses are not able to identify it.

Field duplicates are designed to assess the consistency of the sampling procedures and the precision of the analytical method. Thus, the results can be expected to have higher variability than the results of laboratory replicates, which measure laboratory precision only. However, since there are no established EPA criteria for the evaluation of field duplicate samples, laboratory replicate criteria have been used as guidelines. As a measure of precision, the relative percent difference (RPD) between sample result "a" and field duplicate result "b" is calculated.

$$RPD = \frac{|a - b| \times 100}{(a + b)/2}$$

RPDs of 35% for soil and sediment samples and 20% for water samples were the guidelines used as upper limits of acceptability. The judgment of the reviewer is required when evaluating the significance of field duplicate results. RPDs were not calculated for duplicate pairs in which an analyte was detected in one sample and not the other, or when one or both sample values are qualified for any reason.

Field Duplicate Results

Sixty-one soil and sediment field duplicate pairs were collected and analyzed for PCBs. These results appear in Table 5-19. Overall, the results indicate acceptable field and laboratory precision with no effect on data usability. PCBs were present above detection limits in 23 of these, and RPDs were calculated for 18. Seven of the RPD results were less than 35%. The highest RPD value calculated was 184% for sediment duplicate pair A065 and A066.

In five duplicate pairs, PCBs were present above detection limits in one sample each but not in the other.

Two soil field duplicate pairs were collected and analyzed for total and hexavalent chromium. These results appear in Table 5-20. RPDs ranged from 0% to 10.5%.

Two soil field duplicate pairs were collected and analyzed for TCL/TAL analytes. RPD results for metals ranged in value from 7.4% to 101%. These results appear in Tables 5-21 and 5-22.

Two groundwater field duplicate pairs were collected. One pair (W101, W111) was unfiltered and analyzed for PCBs, TCL/TAL substances, and general chemistry parameters. These results appear in Tables 5-23 through 5-25, and Table 5-27. No PCBs or other organic compounds, except for the laboratory contaminants methylene chloride and acetone, were present above detection limits in the samples. RPDs exceeded 20% for 15 metals, and for TOX and dissolved solids. The filtered duplicate pair (W102, W112) was submitted for PCB and TAL analyses. These results appear in Tables 5-23 and 5-26. PCBs were not present above detection limits in these samples. All of the RPDs for the TAL analytes in the filtered samples were less than 20%.

One drill water duplicate pair was collected during sampling activities. The samples (A801 and A802) were analyzed for PCBs and TCL/TAL analytes. The duplicate results appear in Tables 5-28 through 5-30. No PCBs were present above detection limits in the samples; however, beta-BHC was present in sample A802. Chloroform, bromodichloromethane, acetone, and methylene chloride were present in both samples. Chlorodibromomethane was present in sample A801 only. Of the two RPDs calculated for these analytes, both were less than 20%. The RPDs for the inorganic analyses ranged from 0% to 24.0%.

One water sample duplicate pair was collected from the tributary of French Creek and analyzed for PCBs. These results appear in Table 5-28. The calculated RPD for the PCB levels was 87.2%.

5.3 LABORATORY QC REVIEW FOR TCL/TAL DATA

Laboratory factors which influence the quality of environmental sample results fall into three categories. The first category includes the treatment of samples prior to analysis to ensure analytical results accurately represent concentrations in a sample at the time of collection (i.e., sample handling, storage, and holding times). The second category includes the analysis of QC samples which provide information on individual sample results and matrix effects (i.e., method blanks, surrogate spikes, matrix spikes, replicates, and laboratory control samples). The third category includes the analysis of QC samples which monitor the performance of analytical instruments (i.e., tuning standards, calibration standards, and interference check samples).

The following sections describe how all three categories influence data quality. As previously stated, the RPD between duplicate results sometimes exceeds the 35% (soils) and 20% (water) criteria established for laboratory replicate analysis. This is due to a multitude of variables including sample inhomogeneity, sampling technique, sample preparation, analyst technique, and the purity of reagents used for analysis. These variables can lead to a degree of imprecision. Therefore, the quality of the data has not been affected by the few field duplicates whose RPDs exceeded laboratory criteria.

5.3.1 Volatile and Semivolatile Organic Analysis by Gas Chromatography/Mass Spectrometry (GC/MS)

Holding Times

Exceeding the holding time prior to the analysis for volatile or semivolatile organics causes a gradual loss of the analyte due to evaporation and/or degradation. Therefore, sample results have been qualified as estimated and flagged with a J_1 if NYSDEC holding time criteria have been exceeded. Furthermore, if holding times have been grossly exceeded, sample results have been qualified as unreliable and flagged with an R_1. The professional judgment of the validators determines a gross holding time violation.

Instrument Tuning

GC/MS analysis for volatile and semivolatile organics begins with the analysis of a tuning standard to optimize the resolution, identification, and sensitivity capabilities of the mass spectrometer detection system. Known quantities of decafluorotriphenylphosphine (DFTPP) for semivolatile organics and bromofluorobenzene (BFB) for volatile organics are analyzed on separate GC/MS instruments. Instrument calibration and subsequent sample analysis should not proceed until specific DFTPP and BFB criteria are met. If tuning criteria are not met and samples are run, sample results may be qualified as unreliable and flagged with an R_2.

Instrument Calibration

Instrument calibration establishes the numerical relationship of the mass spectrometer detection system's response to a known amount of analyte, thereby ensuring the instrument is capable of producing acceptable quantitative data. If specific criteria are not met in order to prove a linear relationship between the detection system's response and a specific concentration of analyte, sample results may be inaccurate and flagged with a J_3. A continuing calibration is performed to ensure that the initial response has not changed over time. If the continuing calibration criteria are not met, sample results may be inaccurate and flagged with a J_4.

Method Blanks

Method blanks consist of analyte-free water and are subjected to every step of the analytical procedure to determine possible contamination. The presence of an analyte is only considered attributable to laboratory contamination when its level in a sample is less than 10 times its level in an associated blank. When this has occurred, the sample result is flagged with an R_{14}. If the sample contained a compound at greater than 10 times the concentration in the associated blank, it was flagged with a J_{14}. In all cases when a compound detected in a sample was also detected in the associated blank, the data were flagged with a B by the laboratory.

The commonly used solvents acetone and methylene chloride were detected in some samples at levels less than 10 times their levels in associated blanks and were therefore attributable to laboratory contamination.

Surrogate Spikes

The purpose of surrogate spike analysis is to evaluate laboratory performance on individual samples. Compounds similar in chemical structure to compounds of interest, referred to as "surrogates," are added to all samples prior to preparation. Surrogate compounds are chosen so that they behave in chemically similar ways to groups of volatile or semivolatile compounds. The recovery of a surrogate compound reflects the recovery of similar analytes from the sample matrix.

Sample results may be qualified as estimated and flagged with a J_5 if surrogate recoveries are not within acceptable limits due to such factors as matrix interferences.

Matrix Spike/Matrix Spike Duplicates

The purpose of organic compound matrix spike analysis is to determine overall precision and accuracy of the analytical method on various matrices. Organic matrix spike data must be used in conjunction with other QC data including reference standard results to justify qualification. Reference standard data indicate whether or not the instrumental analysis was within control limits. Reference standards are deionized water spiked with the same spiking solution used for the matrix spike analysis. If matrix spike recoveries are not within acceptable limits this may be the result of matrix effects inherent in the sample or a problem with the laboratory's performance on that sample. The reference standard results can be used to determine which of the two is the cause. If matrix spike/matrix spike duplicate criteria are not met, the results are flagged with a J_6.

5.3.2 Organochlorine Pesticides/Polychlorinated Biphenyl (PCB) Analysis by Gas Chromatography/Electron Capture Detector (GC/ECD)

Holding Times

Exceeding the holding time by a few days prior to the analysis for pesticides and PCBs generally allows for very little loss of PCBs due to evaporation. However, a gross violation of holding times could eventually result in evaporation or degradation of certain pesticides. Furthermore, due to the complex and varied nature of environmental samples, other matrix effects may influence analyte levels over time. Therefore sample results have been qualified as estimated and flagged with a J_1 if NYSDEC holding time criteria have been exceeded, or qualified as unreliable and flagged with an R_1 if holding times were grossly exceeded.

Instrument Calibration

Initial instrument calibration establishes the numerical relationship of the ECD system's response to a known amount of analyte, thereby ensuring the instrument is capable of producing acceptable quantitative data. A continuing calibration check is performed to ensure that the initial response has not changed. If specific calibration criteria are not met in order to prove a linear relationship between the detection system's response and a specific concentration of analyte, sample results may be imprecise and flagged with a J_3 for the initial calibration or a J_4 for the continuing calibration.

Instrument Performance

Several requirements involving analyte retention times and degradation are established to ensure that adequate chromatographic resolution and instrument sensitivity are achieved by the gas chromatograph. If these requirements are not met, sample results may be qualified as estimated and flagged with a J_8, or unreliable and flagged with an R_8.

Method Blanks

Pesticides and PCBs are not often found in laboratory method blanks. However, contamination may occur due to improper glassware cleaning or sample carry-over if a high level sample was previously analyzed. According to EPA's <u>Functional Guidelines for Evaluating Organic/Inorganic Analyses</u> (1988) the presence of pesticides or PCBs is to be considered attributable to laboratory contamination when their level in a sample is less than five times their level in an associated blank. When this has occurred, the sample result has been flagged with an R_{14}. If the sample result is greater than five times the concentration in the associated method blank, it is flagged with a J_{14}.

Surrogate Spikes

As described in Section 5.3.1., sample results may be qualified as estimated and flagged with a J_5 or qualified as unreliable and flagged with an R_5 if surrogate recoveries are not within acceptable limits.

Matrix Spike/Matrix Spike Duplicates

As described in Section 5.3.1., matrix spike data are used to determine overall precision and accuracy of the analytical method on various matrices. When organic matrix spike data has been used in conjunction with other quality control data to justify qualification, sample results have been qualified as estimated and flagged with a J_6.

5.3.3 Inorganic Analysis

Holding Times

Exceeding the holding time prior to the analysis for most metals does not result in much loss of analyte due to evaporation. One exception to this may be mercury. Chromium in the hexavalent state is susceptible to reduction to the trivalent state. Holding time criteria have only been established for water samples. These criteria have been applied to soil samples with the understanding that the reduction of Cr^{3+} is much less likely to occur in soils and, therefore, a minor holding time violation is not justification for rejecting data. Sample results have been qualified as estimated and flagged with a J_1 if NYSDEC holding-time criteria have been exceeded. Sample results may have been qualified as unreliable and flagged with an R_1 if holding times have been grossly exceeded.

Calibration

Similar to organic analysis by GC/MS, sample results may be qualified as inaccurate and flagged with a J_3 if the linearity of the AA or ICP system is not correctly established.

Blanks

The presence of metals in a sample is considered to be attributable to laboratory contamination when their level in a sample is less than five times their level in an associated blank. When this has occurred, the sample result has been flagged with an R_{14}. When the level in the sample was greater than five times the level in the associated blank, the sample result was flagged with a J_{14}.

Interference Check Sample (ICS) for Inductively Coupled Plasma (ICP) Analysis

After the calibration of the ICP instrument, the ICS is run to verify the laboratory's interelement and background correction factors thereby revealing the potential for false positive or false negative results. If the ICS results do not meet certain criteria, sample results may be qualified as estimated and flagged with a J_{13}.

Laboratory Control Sample (LCS)

An LCS is analyzed to monitor the efficiency of the digestion (sample preparation) procedure without the complications caused by sample matrix effects. If LCS results do not meet specific percent recovery criteria, sample results may be qualified as estimated and flagged with a J_{12}.

Replicate Sample Analysis

The purpose of analyzing a sample twice is to evaluate the precision of the analytical method. Inorganic sample results may be qualified as estimated and flagged with a J_{11} if replicate analysis results are not within acceptable limits.

Matrix Spike

Matrix spike analysis is performed to provide information about the effect of the sample matrix on the digestion and measurement methodology. Therefore, sample results have been qualified as estimated and flagged with a J_{10} if matrix spike recoveries are not within acceptable limits.

5.4 LABORATORY QC REVIEW OF PCB-ONLY DATA

PCB samples were to be extracted within 14 days of being collected and were to be analyzed within 40 days of being extracted. When the holding time for a sample analysis or extraction has been violated, positive sample results are considered estimated, and are flagged on the analytical summary tables with a J_1. For samples in which PCBs are not present above detection limits, the detection limits are considered estimated, and are flagged on the analytical summary tables with a UJ_1.

All PCB method blanks were free of contamination.

Matrix spike/matrix spike duplicate pairs (MS/MSDs) and blank spike recoveries were within control limits.

A suitable surrogate spike compound was under development during initial sampling, and a surrogate was not added to these samples. The recoveries of the surrogate compound hexabromobenzene (HBB) were within control limits for most samples to which it was added. In some instances, the HBB was diluted out of the sample, or the HBB recovery was affected by matrix interferences. For samples with low surrogate recoveries, the sample results have been qualified as estimated and flagged with a J_5. Non-detect (ND) results have been qualified to reflect an estimated detection limit and have been flagged UJ_5.

5.5 SAMPLE NOMENCLATURE

A protocol for sample nomenclature was developed to ensure proper sample documentation and to facilitate sample management in the Tennessee database. Some sample numbers and suffixes were relabeled to be consistent with the standard nomenclature. They are listed in Appendix B, which includes all samples collected and is organized by sampling area (i.e., Compressor Building Area). The seventh column of the appendix lists the original sample numbers as written on the chain-of-custody form for the samples whose ID numbers have been relabeled. The eighth column of the appendix lists the lab sample number.

Table 5-1

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR SOIL AND SEDIMENT SAMPLE
TRIP BLANKS
COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result				
		A903	A906	A909	A916	A919
Acetone		22 B, R_{14}	ND	15 B, R_{14}	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
Chlorodibromomethane		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND

02[TG5902]D3347/32/22

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-2

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR GROUNDWATER SAMPLE
TRIP BLANK
COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result W115
Acetone		18 B, R_{14}
Methylene Chloride		5.0 B, R_{14}

02[TG5902]D3347/90/30

Note: All concentrations are in μg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-3

QA/QC SUMMARY OF
PCB RESULTS FOR GROUNDWATER SAMPLE
FIELD BLANKS
COMPRESSOR STATION 224

Sample Number	Analytical Result
W113	ND
W114	ND

02[TG5902]D3347/91/40

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 5-4

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR UNFILTERED GROUNDWATER SAMPLE FIELD BLANK COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result
		W113
Acetone		13 B, R_{14}
Methylene Chloride		11 B, R_{14}

02[TG5902]D3347/92/34

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-5

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR
GROUNDWATER SAMPLE
FIELD BLANKS
COMPRESSOR STATION 224

		Analytical Result	
Parameter	Sample Number:	W113	W114
Aluminum		ND	ND
Antimony		ND	ND
Arsenic		ND	ND
Barium		ND	ND
Beryllium		ND	ND
Cadmium		ND	ND
Calcium		ND	ND
Chromium		ND	ND
Cobalt		ND	ND
Copper		ND	ND
Iron		54	26
Lead		ND	ND
Magnesium		ND	ND
Manganese		3.2	2.2
Mercury		ND	ND
Nickel		ND	ND
Potassium		ND	ND
Selenium		ND UJ_{10}	ND UJ_{10}
Silver		ND	ND
Sodium		ND	840
Thallium		ND	ND
Total Cyanide		ND	NA
Vanadium		ND	ND
Zinc		ND	13

02[TG5902]D3347/93/29

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-6

QA/QC SUMMARY OF GENERAL CHEMISTRY RESULTS FOR UNFILTERED GROUNDWATER SAMPLE FIELD BLANK COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result W113
Total Petroleum Hydrocarbons		ND
Total Dissolved Solids		170,000
Total Organic Carbon		4,500
Total Organic Halogen		14

02[TG5902]D3347/94/34

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 5-7

QA/QC SUMMARY OF PCB RESULTS FOR SOIL SAMPLE RINSATE BLANKS COMPRESSOR STATION 224

Sample Number	Analytical Result
9901	ND
9902	ND
9903	ND
9150	ND
9151	ND
A901	ND
A902	ND
A904	ND
A905	ND
A907	ND
A908	ND
A911	ND
A912	ND
A913	ND
A914	ND R_5
A917	ND
A918	ND
A920	ND R_5
A922	ND
A923	ND
A924	ND
A925	ND
B269	ND UJ_1
B270	ND
B271	ND
B272	ND
B273	ND
B274	ND
B275	ND

02[TG5902]D3347/26/37

Table 5-7 (Cont.)

Sample Number	Analytical Result
B276	ND
B277	ND
B278	ND
B279	ND
B280	ND

02[TG5902]D3347/26/37

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 5-8

QA/QC SUMMARY OF CHROMIUM RESULTS FOR SOIL SAMPLE
RINSATE BLANK
COMPRESSOR STATION 224

		Analytical Result
Parameter	Sample Number:	A910
Chromium Total		1.9
Chromium +6		ND UJ_1

02[TG5902]D3347/126/35

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 5-9

**QA/QC SUMMARY OF MERCURY RESULTS FOR LEACHATE SAMPLE
RINSATE BLANK
COMPRESSOR STATION 224**

Sample Number	Analytical Result
M101	ND

02[TG5902]D3347/127/35

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 5-10

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLE
RINSATE BLANKS
COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result A908	A914	A920
Aluminum		79	ND	ND
Antimony		ND UJ_{16}	ND	ND
Arsenic		0.42 J_{10}	0.36 J_{10}	0.36 J_{10}
Barium		6.8	6.0 J_{10}	6.1 J_{10}
Beryllium		ND	ND	ND
Cadmium		0.88 J_{11}	ND	ND
Calcium		340,000	34,000	34,000
Chromium		1.8	2.0 J_{10}	2.1 J_{10}
Chromium +6		NA	NA	ND UJ_{1}
Cobalt		ND	ND UJ_{10}	ND UJ_{10}
Copper		ND	ND	ND
Iron		32	47 J_{4}	30 J_{4}
Lead		0.18 R_{14}	ND UJ_{13}	0.21 J_{13}
Magnesium		1,200 J_{11}	1,300	1,300
Manganese		0.61	1.2 J_{10}	0.95 J_{10}
Mercury		ND	ND	ND
Nickel		ND	ND UJ_{10}	ND UJ_{10}
Potassium		ND	82	110
Selenium		ND	ND UJ_{13}	ND UJ_{13}
Silver		ND	ND UJ_{10}	ND UJ_{10}
Sodium		2,200	2,400	2,400
Thallium		ND UJ_{13}	ND UJ_{13}	ND UJ_{13}
Total Cyanide		2.7	ND	ND
Vanadium		ND	1.5	1.1
Zinc		ND	2.2	1.9

02[TG5902]D3347/36/23

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 5-11

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLE
RINSATE BLANKS
COMPRESSOR STATION 224

Parameter	Analytical Result		
Sample Number:	A908	A914	A920
1,2,4-Trichlorobenzene	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND
2-Nitroaniline	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
3-Nitroaniline	ND	ND	ND
4-Bromophenyl Phenyl Ether	ND	ND	ND
4-Chloroaniline	ND	ND	ND
4-Chlorophenyl Phenyl Ether	ND	ND	ND
4-Nitroaniline	ND	ND	ND
Acenaphthene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acetone	ND	15 B, R_{14}	16 B, R_{14}
Anthracene	ND	ND	ND
Benzidine	ND R_3	ND R_3	ND R_3
Benzo(A)Anthracene	ND	ND	ND
Benzo(A)Pyrene	ND	ND	ND
Benzo(B)Fluoranthene	ND	ND	ND
Benzo(K)Fluoranthene	ND	ND	ND
Benzyl Alcohol	ND	ND	ND
Beta-BHC	ND	ND R_5	ND R_5
Bis(2-Chloroethyl)Ether	ND	ND	ND
Bis(2-Ethylhexyl)Phthalate	ND	560 B, R_{14}	ND

02[TG5902]D3347/30/22

Table 5-11 (Cont.)

Parameter	Sample Number:	Analytical Result A908	A914	A920
Bromodichloromethane		ND	ND	ND
Butyl Benzyl Phthalate		ND	ND	ND
Chloroform		ND	ND	ND
Chrysene		ND	ND	ND
Di-N-Butyl-Phthalate		ND	ND	ND
Di-N-Octyl Phthalate		ND	ND	ND
Dibenzo(A,H)Anthracene		ND	ND	ND
Dibenzofuran		ND	ND	ND
Dimethyl Phthalate		ND	ND	ND
Fluoranthene		ND	ND	ND
Fluorene		ND	ND	ND
Hexachlorobenzene		ND	ND	ND
Hexachlorobutadiene		ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND
Hexachloroethane		ND	ND	ND
Indeno(1,2,3-cd)Pyrene		ND	ND	ND
Isophorone		ND	ND	ND
Methylene Chloride		ND	11 B, R_{14}	ND
N-Nitrosodiphenylamine		ND	ND	ND
N-Nitrosodipropylamine		ND	ND	ND
Naphthalene		ND	ND	ND
Phenanthrene		ND	ND	ND
Pyrene		ND	ND	ND

02[TG5902]D3347/30/22

Note: All concentrations are in μg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 5-12

QA/QC SUMMARY OF PCB RESULT FOR WATER SAMPLE
RINSATE BLANK
COMPRESSOR STATION 224

Sample Number	Analytical Result
A921	ND •

02[TG5902]D3347/139/40

Note: All concentrations are in μg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-13

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR WATER SAMPLE
RINSATE BLANK
COMPRESSOR STATION 224

		Analytical Result
Parameter	Sample Number:	A921
1,2,4-Trichlorobenzene		ND R_1
1,2-Dichlorobenzene		ND R_1
1,3-Dichlorobenzene		ND R_1
1,4-Dichlorobenzene		ND R_1
2,4-Dinitrotoluene		ND R_1
2,6-Dinitrotoluene		ND R_1
2-Chloronaphthalene		ND R_1
2-Methylnaphthalene		ND R_1
2-Nitroaniline		ND R_1
3,3'-Dichlorobenzidine		ND R_1
3-Nitroaniline		ND R_1
4-Bromophenyl Phenyl Ether		ND R_1
4-Chloroaniline		ND R_1
4-Chlorophenyl Phenyl Ether		ND R_1
4-Nitroaniline		ND R_1
Acenaphthene		ND R_1
Acenaphthylene		ND R_1
Acetone		ND
Anthracene		ND R_1
Benzidine		ND R_1
Benzo(A)Anthracene		ND R_1
Benzo(A)Pyrene		ND R_1
Benzo(B)Fluoranthene		ND R_1
Benzo(G,H,I)Perlyene		ND R_1
Benzo(K)Fluoranthene		ND R_1
Benzyl Alcohol		ND R_1
Beta-BHC		0.12 B, R_{14}
Bis(2-Chloroethoxy)Methane		ND R_1

02[TG5902]D3347/31/32

Table 5-13 (Cont.)

Parameter	Sample Number:	Analytical Result A921
Bis(2-Chloroethyl)Ether		ND R_1
Bis(2-Chloroisopropyl)Ether		ND R_1
Bis(2-Ethylhexyl)Phthalate		11 B, R_1
Bromodichloromethane		ND
Butyl Benzyl Phthalate		ND R_1
Chlorodibromomethane		ND
Chloroform		ND
Chrysene		ND R_1
Di-N-Butyl-Phthalate		ND R_1
Di-N-Octyl Phthalate		ND R_1
Dibenzo(A,H)Anthracene		ND R_1
Dibenzofuran		ND R_1
Diethyl Phthalate		ND R_1
Dimethyl Phthalate		ND R_1
Fluoranthene		ND R_1
Fluorene		ND R_1
Hexachlorobenzene		ND R_1
Hexachlorobutadiene		ND R_1
Hexachlorocyclopentadiene		ND R_1
Hexachloroethane		ND R_1
Indeno(1,2,3-cd)Pyrene		ND R_1
Isophorone		ND R_1
Methylene Chloride		6.8 B, R_{14}
N-Nitrosodiphenylamine		ND R_1
N-Nitrosodipropylamine		ND R_1
Naphthalene		ND R_1
Phenanthrene		ND R_1
Pyrene		ND R_1

02[TG5902]D3347/31/32

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 5-14

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR WATER SAMPLE
RINSATE BLANK
COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result A921
Aluminum		ND
Antimony		ND
Arsenic		ND
Barium		ND
Beryllium		ND
Cadmium		ND
Calcium		600
Chromium		ND
Cobalt		ND
Copper		ND
Iron		ND
Lead		1.7 J_{13}
Magnesium		ND
Manganese		ND
Mercury		ND
Nickel		ND
Potassium		ND
Selenium		ND
Silver		ND
Sodium		1,100
Thallium		ND
Vanadium		ND
Zinc		4.3

02[TG5902]D3347/37/32

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 5-15

QA/QC SUMMARY OF
PCB RESULTS FOR SOIL SAMPLE
DRILL WATER
COMPRESSOR STATION 224

Sample Number	Analytical Result
A801	ND T

02[TG5902]D3347/100/40

Source: Ecology and Environment, Inc. 1991.

Table 5-16

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLE
DRILL WATER
COMPRESSOR STATION 224

Parameter	Sample Number:	Analytical Result A801
1,1,1-Trichloroethane		ND
1,1-Dichloroethane		ND
1,1-Dichloroethene		ND
Acenaphthene		ND R_1
Acetone		13 B, R_{14}
Anthracene		ND R_1
Benzidine		ND R_1
Benzo(A)Anthracene		ND R_1
Benzo(A)Pyrene		ND R_1
Benzo(B)Fluoranthene		ND R_1
Benzo(K)Fluoranthene		ND R_1
Beta-BHC		ND
Bis(2-Ethylhexyl)Phthalate		ND R_1
Bromodichloromethane		10
Carbon Disulfide		ND
Chlorodibromomethane		5.2
Chloroform		29
Chrysene		ND R_1
Di-N-Butyl-Phthalate		ND R_1
Dibenzo(A,H)Anthracene		ND R_1
Dibenzofuran		ND R_1
Fluoranthene		ND R_1
Fluorene		ND R_1
Indeno(1,2,3-cd)Pyrene		ND R_1
Methylene Chloride		7.6 B, R_{14}
Naphthalene		ND R_1

02[TG5902]D3347/7/32

Table 5-16 (Cont.)

Parameter	Sample Number:	Analytical Result A801
Phenanthrene		ND R_1
Pyrene		ND R_1

02[TG5902]D3347/7/32

Note: All concentrations are in μg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-17

QA/QC SUMMARY OF
INORGANIC TAL RESULTS FOR SOIL SAMPLE
DRILL WATER
COMPRESSOR STATION 224

		Analytical Result
Parameter	Sample Number:	A801
Aluminum		100
Antimony		ND
Arsenic		ND
Barium		14
Beryllium		ND
Cadmium		ND
Calcium		34,000
Chromium		ND
Cobalt		ND
Copper		15
Iron		2,900
Lead		7.4 J_{13}
Magnesium		6,200
Manganese		19
Mercury		ND
Nickel		ND
Potassium		1,100
Selenium		ND
Silver		ND
Sodium		30,000
Thallium		ND
Vanadium		ND
Zinc		110

02[TG5902]D3447/19/35

Note: All concentrations are in μg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-18

QA/QC SUMMARY OF PCB RESULTS FOR WATER SAMPLE
FIELD BLANKS
COMPRESSOR STATION 224

Sample Number	Analytical Result
A915	ND
B282	ND

02[TG5902]D3347/27/37

Note: All concentrations are in $\mu g/L$.

Source: Ecology and Environment, Inc. 1991.

Table 5-19

QA/QC SUMMARY OF PCB RESULTS FOR SOIL/SEDIMENT SAMPLE DUPLICATES
COMPRESSOR STATION 224

Area	Original Sample Number	Results	Duplicate Sample Number	Results	Relative Percent Difference (RPD)
Grid Area (Composite)	9010	ND	9011	ND	--
	9021	ND	9022	ND	--
	9043	ND	9044	ND	--
	9065	ND	9066	ND	--
	9098	ND	9099	ND	--
Grid Area (Discrete)	9109	ND	9110	ND	--
	9120	ND	9121	ND	--
	9134	ND	9135	ND	--
	9145	ND	9146	ND	--
Auxiliary Building Area	A140	ND	A141	ND	--
	A151	ND	A152	ND	--
	B088	ND	B089	ND	--
	B096	1.7	B097	ND	*
Air Receiver Tank Area	A195	33 ND (1248)	A196	9.8 6.8 (1248)	108 *
	A206	2.0	A207	2.4	18.2
	A217	ND	A218	2.7	*
	A228	76	A229	66	14.1
	B010	22 5.3 (1248)	B011	130 ND (1248)	142 *
	B021	ND	B022	ND	--
	B033	ND	B034	ND	--
	B045	ND	B046	ND	--
	B055	1.8	B056	2.3	24.4
	B068	ND	B069	ND	--
	B077	ND	B078	ND	--

02[TG5902]D3347/28/13

Table 5-19 (Cont.)

Area	Original Sample Number	Results	Duplicate Sample Number	Results	Relative Percent Difference (RPD)
Compressor Building Area	A010	ND	A011	ND	--
	A021	ND	A022	ND	--
	A032	ND	A033	ND	--
	A054	ND	A055	ND	--
	A065	5.3	A066	130	184
	A076	ND	A077	ND	--
	B107	ND	B108	ND	--
	B117	ND	B118	ND	--
	B128	ND	B129	ND	--
	B137	ND	B138	ND	--
Drainage Ditch C	A347	ND	A348	ND	--
Drainline A Outfall (off site)	A373	ND	A374	ND	--
Mainline Valves	A355	ND	A356	ND	--
Separator Pond Area	A385	8.7	A386	2.4	114
	B170	28	B171	ND	*
	B180	5.4	B181	2.9	60.2
	B191	9.8	B192	29	99.0
	B202	2.1	B203	2.0	4.9
Retired Burn Pit Area	A254	ND	A255	ND	--
	A266	ND	A267	ND	--
	A276	ND	A277	ND	--
	A288	ND	A289	ND	--
	A299	ND	A300	ND	--
	B148	ND	B149	ND	--
	B159	ND	B160	ND	--

02[TG5902]D3347/28/13

Table 5-19 (Cont.)

Area	Original Sample Number	Results	Duplicate Sample Number	Results	Relative Percent Difference (RPD)
Scrap Yard Area A	A612	ND	A613	ND	--
Scrap Yard Area B	A339	ND	A340	ND	--
Waste Oil Storage Tank	A369	ND	A370	ND	--
	B227	6.6	B228	4.6	35.7
Scrubber Charging and Settling Tank Area	B214	ND	B215	ND	--
Tributary of French Creek	A410	ND	A411	ND	--
	A422	0.42	A423	0.35	18.2
	B237	0.45	B239	1.2	90.9
	B248	14 10 (1248)	B250	2.4 4.3 (1248)	141 79.7
	B259	1.4 0.82 (1248)	B260	1.1 0.35 (1248)	24.0 80.3
	B267	ND	B268	ND	--
	A491	0.33	A492	0.34	3.0

02[TG5902]D3347/28/13

Notes: All concentrations are in mg/kg.
All results are Aroclor 1254 unless otherwise noted.

*RPD not calculated when one value is ND, or when values are qualified.

Source: Ecology and Environment, Inc. 1991.

Table 5-20

QA/QC SUMMARY OF CHROMIUM RESULTS FOR SOIL SAMPLE
DUPLICATES
COMPRESSOR STATION 224

Parameter	Original Sample Number	Results	Duplicate Sample Number	Results	Relative Percent Difference (RPD)
Jacket Water Cooler					
Chromium Total	A442	19	A443	19	0
	A452	18	A453	20	10.5
Chromium +6	A442	ND UJ_1	A443	ND UJ_1	--
	A452	ND UJ_1	A453	ND UJ_1	--
Jacket Water Surge Tank					
Chromium Total	A463	20	A464	20	0
Chromium +6	A463	ND UJ_1	A464	ND UJ_1	--

02[TG5902]D3347/40/20

Note: All concentrations are in mg/kg.

Source: Ecology and Environment, Inc. 1991.

Table 5-21

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR SOIL SAMPLE DUPLICATES
COMPRESSOR STATION 224

Parameter	Analytical Results					
	Compressor Building Area			Scrap Yard Area A		
	Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
1,2,4-Trichlorobenzene	ND	ND	--	ND	ND	--
1,2-Dichlorobenzene	ND	ND	--	ND	ND	--
1,3-Dichlorobenzene	ND	ND	--	ND	ND	--
1,4-Dichlorobenzene	ND	ND	--	ND	ND	--
2,4-Dinitrotoluene	ND	ND	--	ND	ND	--
2,6-Dinitrotoluene	ND	ND	--	ND	ND	--
2-Chloronaphthalene	ND	ND	--	ND	ND	--
2-Methylnaphthalene	ND	ND	--	ND	ND	--
2-Nitroaniline	ND	ND	--	ND	ND	--
3,3'-Dichlorobenzidine	ND	ND	--	ND	ND	--
3-Nitroaniline	ND	ND	--	ND	ND	--

02[TG5902]D3347/33/12

Table 5-21 (Cont.)

Parameter	Analytical Results					
	Compressor Building Area			Scrap Yard Area A		
	Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
4-Bromophenyl Phenyl Ether	ND	ND	—	ND	ND	—
4-Chloroaniline	ND	ND	—	ND	ND	—
4-Chlorophenyl Phenyl Ether	ND	ND	—	ND	ND	—
4-Nitroaniline	ND	ND	—	ND	ND	—
Acenaphthene	ND	ND	—	ND	ND	—
Acenaphthylene	ND	ND	—	ND	ND	—
Acetone	19 B, R_{14}	ND	*	24 B, R_{14}	36 B, R_{14}	*
Anthracene	ND	ND	—	ND	ND	—
Benzidine	ND R_3	ND R_3	*	ND R_3	ND R_3	*
Benzo(A)Anthracene	ND	ND	—	ND	ND	—
Benzo(A)Pyrene	ND	ND	—	ND	ND	—
Benzo(B)Fluoranthene	ND	ND	—	ND	ND	—
Benzo(K)Fluoranthene	ND	ND	—	ND	ND	—

02[TG5902]D3347/33/12

Table 5-21 (Cont.)

Parameter	Analytical Results					
	Compressor Building Area			Scrap Yard Area A		
	Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
Benzyl Alcohol	ND	ND	--	ND	ND	--
Beta-BHC	ND	ND	--	ND UJ_8	ND UJ_8	*
Bis(2-Chloroethyl)Ether	ND	ND	--	ND	ND	--
Bis(2-Ethylhexyl)Phthalate	ND	ND	--	ND	ND	--
Bromodichloromethane	ND	ND	--	ND	ND	--
Butyl Benzyl Phthalate	ND	ND	--	ND	ND	--
Chloroform	ND	ND	--	ND	ND	--
Chrysene	ND	ND	--	ND	ND	--
Di-N-Butyl-Phthalate	ND	ND	--	ND	ND	--
Di-N-Octyl Phthalate	ND	ND	--	ND	ND	--
Dibenzo(A,H)Anthracene	ND	ND	--	ND	ND	--
Dibenzofuran	ND	ND	--	ND	ND	--
Dimethyl Phthalate	ND	ND	--	ND	ND	--

02[TG5902]D3347/33/12

Table 5-21 (Cont.)

Parameter	Analytical Results: Compressor Building Area — Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Scrap Yard Area A — Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
Fluoranthene	ND	ND	--	ND	ND	--
Fluorene	ND	ND	--	ND	ND	--
Hexachlorobenzene	ND	ND	--	ND	ND	--
Hexachlorobutadiene	ND	ND	--	ND	ND	--
Hexachlorocyclopentadiene	ND	ND	--	ND	ND	--
Hexachloroethane	ND	ND	--	ND	ND	--
Indeno(1,2,3-cd)Pyrene	ND	ND	--	ND	ND	--
Isophorone	ND	ND	--	ND	ND	--
Methylene Chloride	8.7 B, R_{14}	7.6 B, R_{14}	*	8.2 B, R_{14}	9.4 B, R_{14}	*
N-Nitrosodiphenylamine	ND	ND	--	ND	ND	--
N-Nitrosodipropylamine	ND	ND	--	ND	ND	--
Naphthalene	ND	ND	--	ND	ND	--

02[TG5902]D3347/33/12

Table 5-21 (Cont.)

	Analytical Results					
	Compressor Building Area			Scrap Yard Area A		
Parameter	Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
Phenanthrene	ND	ND	--	ND	ND	--
Pyrene	ND	ND	--	ND	ND	--

02[TG5902]D3347/33/12

Note: All concentrations are in $\mu g/kg$.

*RPD not calculated for qualified values or when one value is ND.

Source: Ecology and Environment, Inc. 1991.

Table 5-22

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR SOIL SAMPLE DUPLICATES
COMPRESSOR STATION 224

	Analytical Result					
	Compressor Building Area			Scrap Yard Area A		
Parameter	Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
Aluminum	14,000 J_{11}	14,000 J_{11}	*	9,700	6,400	41.0
Antimony	ND UJ_{10}	ND UJ_{10}	*	ND UJ_{10}	7.4 J_{10}	*
Arsenic	7.1 J_{10}	10 J_{10}	*	14 J_{10}	13 J_{10}	*
Barium	93 J_{11}	85 J_{11}	*	140 J_{11}	57 J_{11}	*
Beryllium	0.46	0.57	21.4	0.62	0.33	61.1
Cadmium	5.8 J_{11}	5.9 J_{11}	*	1.2	ND	*
Calcium	3,100 J_{11}	5,400 J_{11}	*	2,900 J_{12}	6,900 J_{12}	*
Chromium	32 J_{10}	23 J_{10}	*	17	13	26.7
Cobalt	12 J_{11}	16 J_{11}	*	9.5 J_{11}	6.9 J_{11}	*
Copper	28 J_{11}	28 J_{11}	*	20 J_{11}	18 J_{11}	*
Iron	34,000 J_{11}	32,000 J_{11}	*	23,000 J_{11}	18,000 J_{11}	*
Lead	70 J_{11}	36 J_{11}	*	19 J_8	16 J_8	*

02[TG5902]D3347/38/15

Table 5-22 (Cont.)

Parameter	Analytical Result					
	Compressor Building Area			Scrap Yard Area A		
	Original Sample Number A065	Duplicate Sample Number A066	Relative Percent Difference (RPD)	Original Sample Number A612	Duplicate Sample Number A613	Relative Percent Difference (RPD)
Magnesium	3,600 J_{11}	3,800 J_{11}	*	2,800	3,700	27.7
Manganese	500 J_{11}	710 J_{11}	*	1,100	360	101
Mercury	ND	ND	--	ND	ND	--
Nickel	27 J_{11}	27 J_{11}	*	31	16	63.8
Potassium	1,900 J_{11}	1,700 J_{11}	*	650	700	7.4
Sodium	81	ND	*	180	200	10.5
Silver	ND	ND	--	ND	ND	--
Selenium	1.2 J_{13}	ND UJ_{13}	*	ND UJ_{10}	ND UJ_{10}	*
Thallium	ND UJ_{13}	ND UJ_{13}	*	ND	ND	--
Total Cyanide	10	13	26.1	ND UJ_{10}	ND UJ_{10}	*
Vanadium	24 J_{11}	26 J_{11}	*	18	11	48.3
Zinc	600 J_{10}	1,300 J_{10}	*	57	48	17.1

02[TG5902]D3347/38/15

Note: All concentrations are in mg/kg.

*RPD not calculated when one value is ND or when values are qualified.

Source: Ecology and Environment, Inc. 1991.

Table 5-23

QA/QC SUMMARY OF PCB RESULTS FOR GROUNDWATER SAMPLE
DUPLICATES
COMPRESSOR STATION 224

Sample Number	Result	Duplicate Number	Result	Relative Percent Difference (RPD)
W101	ND	W111	ND	--
W102	ND	W112	ND	--

02[TG5902]D3347/98/27

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-24

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR UNFILTERED GROUNDWATER SAMPLE DUPLICATE
COMPRESSOR STATION 224

Parameter	Analytical Result: Sample Number W101	Duplicate Number W111	Relative Percent Difference (RPD)
Acetone	11 B, R_{14}	14 B, R_{14}	*
Methylene Chloride	ND	51 B, R_{14}	*

02[TG5902]D3347/97/23

Note: All concentrations are in µg/L.

*RPD is not calculated for qualified values or when one value is ND.

Source: Ecology and Environment, Inc. 1991.

Table 5-25

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR UNFILTERED GROUNDWATER SAMPLE DUPLICATE COMPRESSOR STATION 224

Parameter	Analytical Result: Sample Number W101	Duplicate Number W111	Relative Percent Difference (RPD)
Aluminum	86,000	68,000	23.4
Antimony	ND UJ_8	ND UJ_8	*
Arsenic	92	42	74.6
Barium	510	380	29.2
Beryllium	7.1	4.9	36.7
Cadmium	63	44	35.5
Calcium	61,000	56,000	8.5
Chromium	160	110	37.0
Cobalt	110	82	29.2
Copper	140	91	42.4
Iron	260,000	200,000	26.1
Lead	220 J_8	180 J_8	*
Magnesium	48,000	40,000	18.2
Manganese	3,300	2,400	31.6
Mercury	ND	ND	--
Nickel	230	150	42.1
Potassium	21,000	16,000	27.0
Selenium	ND UJ_{10}	ND UJ_{10}	*
Silver	ND	ND	--
Sodium	8,300	6,400	25.9
Thallium	ND	ND	--
Vanadium	330	250	27.6
Zinc	630	450	33.3

02[TG5902]D3347/95/27

Note: All concentrations are in µg/L.

*RPD not calculated for qualified values or when one value is ND.

Source: Ecology and Environment, Inc. 1991.

Table 5-26

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR FILTERED GROUNDWATER SAMPLE DUPLICATE
COMPRESSOR STATION 224

Parameter	Analytical Result: Sample Number W102	Analytical Result: Duplicate Number W112	Relative Percent Difference (RPD)
Aluminum	ND	ND	--
Antimony	ND	ND	--
Arsenic	ND	ND	--
Barium	22	19	14.6
Beryllium	ND	ND	--
Cadmium	ND	ND	--
Calcium	44,000	44,000	0
Chromium	ND	ND	--
Cobalt	ND	ND	--
Copper	ND	ND	--
Iron	72	65	10.2
Lead	ND	ND UJ_{8}	--
Magnesium	14,000	14,000	0
Manganese	79	75	5.2
Mercury	ND	ND	--
Nickel	ND	ND	--
Potassium	2,500	2,200	12.8
Selenium	ND UJ_{10}	ND UJ_{10}	*
Silver	ND	ND	--
Sodium	6,100	6,400	4.8
Thallium	ND	ND UJ_{13}	*
Vanadium	ND	ND	--
Zinc	9.7	ND	*

02[TG5902]D3347/96/23

Note: All concentrations are in µg/L.

*RPD not calculated when one value is ND.

Source: Ecology and Environment, Inc. 1991.

Table 5-27

QA/QC SUMMARY OF GENERAL CHEMISTRY RESULTS FOR
UNFILTERED GROUNDWATER SAMPLE
DUPLICATE
COMPRESSOR STATION 224

	Analytical Result		
Parameter	Sample Number W101	Duplicate Number W111	Relative Percent Difference (RPD)
Solids Dissolved	200,000	300,000	40.0
TOC	9,400	10,000	6.2
TOX	13	17	26.7

02[TG5902]D3347/99/22

Note: All concentrations are in µg/L.

Source: Ecology and Environment, Inc. 1991.

Table 5-28

QA/QC SUMMARY OF PCB RESULTS FOR WATER SAMPLE DUPLICATES
COMPRESSOR STATION 224

Area	Original Sample Number	Results	Duplicate Sample Number	Results	Relative Percent Difference (RPD)
Tributary of French Creek	A429	1.1	A430	2.8	87.2
Drillwater	A801	ND	A802	ND	--

02[TG5902]D3347/29/13

Notes: All concentrations are in $\mu g/L$.
Results are of Aroclor 1254 unless otherwise specified.

Source: Ecology and Environment, Inc. 1991.

Table 5-29

QA/QC SUMMARY OF ORGANIC TCL RESULTS FOR WATER SAMPLE
DRILL WATER DUPLICATE
COMPRESSOR STATION 224

Parameter	Analytical Result: Sample Number A801	Analytical Result: Duplicate Number A802	Relative Percent Difference (RPD)
1,2,4-Trichlorobenzene	ND R_1	ND R_1	*
1,2-Dichlorobenzene	ND R_1	ND R_1	*
1,3-Dichlorobenzene	ND R_1	ND R_1	*
1,4-Dichlorobenzene	ND R_1	ND R_1	*
2,4-Dinitrotoluene	ND R_1	ND R_1	*
2,6-Dinitrotoluene	ND R_1	ND R_1	*
2-Chloronaphthalene	ND R_1	ND R_1	*
2-Methylnaphthalene	ND R_1	ND R_1	*
2-Nitroaniline	ND R_1	ND R_1	*
3,3'-Dichlorobenzidine	ND R_1	ND R_1	*
3-Nitroaniline	ND R_1	ND R_1	*
4-Bromophenyl Phenyl Ether	ND R_1	ND R_1	*
4-Chloroaniline	ND R_1	ND R_1	*
4-Chlorophenyl Phenyl Ether	ND R_1	ND R_1	*
4-Nitroaniline	ND R_1	ND R_1	*
Acenaphthene	ND R_1	ND R_1	*
Acenaphthylene	ND R_1	ND R_1	*
Acetone	13 B, R_{14}	15 B, R_{14}	*
Anthracene	ND R_1	ND R_1	*
Benzidine	ND R_1	ND R_1	*
Benzo(A)Anthracene	ND R_1	ND R_1	*
Benzo(A)Pyrene	ND R_1	ND R_1	*
Benzo(B)Fluoranthene	ND R_1	ND R_1	*
Benzo(G,H,I)Perlyene	ND R_1	ND R_1	*
Benzo(K)Fluoranthene	ND R_1	ND R_1	*
Benzyl Alcohol	ND R_1	ND R_1	*

02[TG5902]D3347/34/23

Table 5-29 (Cont.)

Parameter	Analytical Result: Sample Number A801	Analytical Result: Duplicate Number A802	Relative Percent Difference (RPD)
Beta-BHC	ND	0.055 B, R_{14}	*
Bis(2-Chloroethoxy)Methane	ND R_1	ND R_1	*
Bis(2-Chloroethyl)Ether	ND R_1	ND R_1	*
Bis(2-Chloroisopropyl)Ether	ND R_1	ND R_1	*
Bis(2-Ethylhexyl)Phthalate	ND R_1	ND R_1	*
Bromodichloromethane	10	9.2	8.3
Butyl Benzyl Phthalate	ND R_1	ND R_1	*
Chlorodibromomethane	5.2	ND	*
Chloroform	29	26	10.9
Chrysene	ND R_1	ND R_1	*
Di-N-Butyl-Phthalate	ND R_1	ND R_1	*
Di-N-Octyl Phthalate	ND R_1	ND R_1	*
Dibenzo(A,H)Anthracene	ND R_1	ND R_1	*
Dibenzofuran	ND R_1	ND R_1	*
Diethyl Phthalate	ND R_1	ND R_1	*
Dimethyl Phthalate	ND R_1	ND R_1	*
Fluoranthene	ND R_1	ND R_1	*
Fluorene	ND R_1	ND R_1	*
Hexachlorobenzene	ND R_1	ND R_1	*
Hexachlorobutadiene	ND R_1	ND R_1	*
Hexachlorocyclopentadiene	ND R_1	ND R_1	*
Hexachloroethane	ND R_1	ND R_1	*
Indeno(1,2,3-cd)Pyrene	ND R_1	ND R_1	*
Isophorone	ND R_1	ND R_1	*
Methylene Chloride	7.6 B, R_{14}	7.1 B, R_{14}	*
N-Nitrosodiphenylamine	ND R_1	ND R_1	*
N-Nitrosodipropylamine	ND R_1	ND R_1	*
Naphthalene	ND R_1	ND R_1	*

02[TG5902]D3347/34/23

Table 5-29 (Cont.)

Parameter	Analytical Result: Sample Number A801	Analytical Result: Duplicate Number A802	Relative Percent Difference (RPD)
Phenanthrene	ND R_1	ND R_1	*
Pyrene	ND R_1	ND R_1	*

02[TG5902]D3347/34/23

Note: All concentrations µg/L.

*RPD not calculated when one value is ND or for qualified values.

Source: Ecology and Environment, Inc. 1991.

Table 5-30

QA/QC SUMMARY OF INORGANIC TAL RESULTS FOR WATER SAMPLE
DRILL WATER DUPLICATE
COMPRESSOR STATION 224

Parameter	Analytical Result: Sample Number A801	Analytical Result: Duplicate Number A802	Relative Percent Difference (RPD)
Aluminum	100	92	8.3
Antimony	ND	ND	--
Arsenic	ND	1.1	*
Barium	14	14	0
Beryllium	ND	ND	--
Cadmium	ND	ND	--
Calcium	34,000	35,000	2.9
Chromium	ND	ND	--
Cobalt	ND	ND	--
Copper	15	16	6.5
Iron	2,900	2,800	3.5
Lead	7.4 J_{13}	8.8 J_{13}	*
Magnesium	6,200	6,200	0
Manganese	19	22	14.6
Mercury	ND	ND	--
Nickel	ND	ND	--
Potassium	1,100	1,000	9.5
Selenium	ND	ND	--
Silver	ND	ND	--
Sodium	30,000	32,000	6.5
Thallium	ND	ND	--
Vanadium	ND	ND	--
Zinc	110	140	24.0

02[TG5902]D3347/39/30

Note: All concentrations are in µg/L.

*RPD not calculated when one value is ND, or when values are qualified.

Source: Ecology and Environment, Inc. 1991.

Key

IDENTIFIERS USED TO INDICATE QUALIFIED RESULTS

Identifier	Definition
ND	Not detected above detection limit.
NA	Not analyzed.
NS	Not sampled.
T	Submitted for TCL/TAL analysis.
B	Also present in blank.
D	Duplicate sample.
S	Split sample.
J	Sample value estimated.
R	Sample result unreliable.
UJ	Sample detection limit estimated.
X	Sample value exceeds calibration range.
Subscript Qualifiers	
1	Holding time limits exceeded.
2	Gas chromatograph/mass spectrometer (GC/MS) tuning requirements not met.
3	Initial calibration criteria not met.
4	Continuing calibration criteria not met.
5	Surrogate spike recovery value out of required limits.
6	Matrix spike/matrix spike duplicate criteria not met.
7	Internal standard recovery results out of QC limits.
8	Instrument performance check criteria not met.
9	Contract required detection limit (CRDL) results out of QC limits.
10	Inorganic sample spike recovery results out of QC limits.
11	Replicate analysis results out of QC limits.
12	Laboratory control sample (LCS) results out of QC limits.
13	Furnace atomic absorption (AA) post digest spike recovery results out of QC limits.
14	This analyte also found in associated method blank.

Key (Cont.)

Identifier	Definition
15	The instrument level for this analyte exceeded the calibration range in this sample.
16	Negative instrument response observed.

02[TG5901]D3380/186/23

Source: Ecology and Environment, Inc. 1991.

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APPENDIX A

BORING LOGS

DRILLING LOG of WELL No. MW01

State	NEW YORK	Start Date	11/8/90
Location	CLYMER, NEW YORK	Completion Date	11/9/90
Drilling Firm	E & E DRILLING	Ground Elevation	1630.83
Type of Drill	DIEDRICH D-50	Groundwater Depth	
Driller	PAUL BARTH	at completion	0.75
		on 1/8/91	3.20
Geologist	BOB MEYERS	Total Depth of Boring	21.0'
			Lock #3247

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks	Well Const.
1630.83		Ground Surface					Stickup = 2.29	
1630	1	0.0'-0.9': SILTY CLAY (CL): silty clay loam with roots and few pebbles		A614			CME Run 1: 0.0'-2.5' 2.4' recovery. Refusal at 3.5'. Water at 2.5'. Sample from 0.0'-0.5' TG-A614-224-MW1 (PCB) Augered to 5.0' with stinger bit.	
	2, 3, 4	0.9'-2.4': CLAYEY SILT (ML): clayey silt with 25% rounded pebbles and few rounded cobbles						
1625	5, 6	5.0'-6.8': SILTY CLAY (CL): brown, plastic, cohesive		A615			CME Run 2: 5.0'-10.0' 5.0' recovery. Wet areas throughout. Sample from 5.0'-5.5' TG-A615-224-MW1 (PCB)	
	7, 8	6.8'-8.4': CLAYEY SILT (ML): gray and rust mottled with some highly weathered siltstone						
	9	8.4'-10.0': SILTSTONE: weathered with horizontal bedding; 20% clay layers and some thin 0.1" shale layers; rust (iron) staining along bedding planes						

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL NO. MW01

State NEW YORK Location CLYMER, NEW YORK

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks	Well Const.
1620	11	* No Observations from 10' - 12.5'					CME Run 3: 10.0'-11.0' Refusal at 11.0'. No recovery. Augered with stinger bit from 11.0'-12.5'.	
1615	12–21	12.5'-21.0': SHALE: gray, highly weathered; no pieces >2" in length; numerous clay-lined horizontal fractures and nearly vertical fractures; a single 0.15' segment of limestone in the center of the recovered core, approximately 17.5'-17.65'					0% RQD. Core Run 1: 12.5'-21.0' Water flowing out of the well (artesian). Water is gaseous (bubbling).	
1610	21							

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL No. MW02

State	NEW YORK	Start Date	11/13/90
Location	CLYMER, NEW YORK	Completion Date	11/14/90
Drilling Firm	E & E DRILLING	Ground Elevation	1625.40
Type of Drill	DIEDRICH D-50	Groundwater Depth	
Driller	PAUL BARTH	at completion	5.35 ▽
Geologist	BOB MEYERS	on 1/8/91	7.90 ▼
		Total Depth of Boring	20.0'

Lock #3247

Elev.	Depth	Description	Lithology	Sample No. and Symbol	Blow Count	Remarks	Well Const.
1625.40		Ground Surface				Stickup - 2.57	
1625	0–1	0.0'-2.9': SILTY CLAY (CL): mottled gray and rust, cohesive, slightly plastic, few rounded pebbles		A623		CME Run 1: 0.0'-5.0' 5.0' recovery. Dry to moist. Sample from 0.0'-0.5' TG-A623-224-MW2 (PCB)	
	3–4	2.9'-5.0': SILTY CLAY (CL): grayish-brown, rust mottling, cohesive, plastic, few pebbles					
1620	5	5.0'-8.4': SILTY CLAY (CL): same as above		A624		CME Run 2: 5.0'-10.0' 5.0' recovery. Moist. Sample from 5.0'-5.5' TG-A624-224-MW2 (PCB)	
	9	8.4'-10.0': SILTY CLAY (CL): brown with 35% siltstone					

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL NO. MW02

State NEW YORK Location CLYMER, NEW YORK

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks	Well Const.
1615	11	10.0'-11.2': SILTY CLAY (CL): same as above, saturated		A625			CME Run 3: 10.0'-15.0' 4.7' recovery. Saturated then moist. Sample from 10.0'-10.5': TG-A625-224-MW2 (PCB)	
	12, 13, 14, 15	11.2'-15.0': SHALE: gray, highly weathered, horizontal and vertical clay seams						
1610	16, 17, 18, 19, 20	15.0'-20.0': SHALE: gray, highly weathered					Core Run 1: 15.0'-19.0' 0.2' recovery. Water flowed from diverter pipe for 20 minutes (artesian well). Augered with stinger bit to 20.0'. Lost 3.8' of core due to weathered nature of the upper bedrock.	

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL No. MW03

State	NEW YORK	Start Date	11/14/90
Location	CLYMER, NEW YORK	Completion Date	11/15/90
Drilling Firm	E & E DRILLING	Ground Elevation	1624.00
Type of Drill	DIEDRICH D-50	Groundwater Depth	
Driller	PAUL BARTH	at completion	5.30 ▽
		on 1/8/91	7.60 ▼
Geologist	BOB MEYERS	Total Depth of Boring	25.0'
			Lock #3247

Elev.	Depth	Description	Lithology	Sample No. and Symbol	Blow Count	Remarks	Well Const.
1624.00		Ground Surface				Stickup = 2.52	
		0.0'-0.5': CLAYEY SILT LOAM (ML): brown, moist		A626		CME Run 1: 0.0'-5.0' 4.0' recovery. Moist. Sample from 0.0'-0.5' TG-A626-224-MW3 (PCB)	
	1	0.5'-5.0': SILTY CLAY (CL): mix of brown and gray with rust mottling, slightly plastic, cohesive, some rounded pebbles					
	2						
	3						
1620	4						
	5	5.0'-10.0': CLAYEY SILT (ML): brown, slightly moist, non-plastic, slightly cohesive, few pebbles		A627		CME Run 2: 5.0'-10.0' 2.1' recovery. Slightly moist. Sample from 5.0'-5.5' TG-A627-224-MW3 (PCB)	
	6						
	7						
	8						
1615	9						

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL NO. MW03

State NEW YORK Location CLYMER, NEW YORK

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks	Well Const.
	11, 12	10.0'-12.2': CLAYEY SILT (ML): brown with 40% shale fragments; wet and dry areas		A528			CME Run 3: 10.0'-15.0'; 4.7' recovery. Wet and dry areas. Sample from 10.0'-10.5': TG-A528-224-MW3 (PCB)	
1610	13, 14, 15	12.2'-15.0': SHALE: 55% shale fragments with gray clay and silt; with the exception of horizontally-lying shale at 13.6'; no horizontal bedding						
1605	16, 17, 18, 19, 20	15.0'-20.0': SHALE: same as above, becoming highly weathered		A529			CME Run 4: 15.0'-20.0'; 5.0' recovery. Saturated. Sample from 15.0'-15.5': TG-A529-224-MW3 (PCB)	
		* No Observations were recorded from 20.0' - 25.0'					CME Run 5: 20.0'-25.0'	

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL No. MW04

State	NEW YORK	Start Date	11/10/90
Location	CLYMER, NEW YORK	Completion Date	11/11/90
Drilling Firm	E & E DRILLING	Ground Elevation	1604.25
Type of Drill	DIEDRICH D-50	Groundwater Depth	
Driller	PAUL BARTH	at completion	3.75 ▽
		on 1/8/91	6.80 ▼
Geologist	BOB MEYERS	Total Depth of Boring	20.0'
			Lock #3247

Elev.	Depth	Description	Lithology	Sample No. and Symbol	Blow Count	Remarks	Well Const.
1604.25		Ground Surface				Stick-up = 2.92	
	0–5	0.0'-0.5': SILTY CLAY LOAM (CL): medium brown 0.5'-5.0': SILTY CLAY (CL): brown with rust mottling, moderately plastic, cohesive, some shale and siltstone fragments; moist		A616		CME Run 1: 0.0'-5.0' 5.0' recovery. Sample from 0.0'-0.5' TG-A616-224-MW4 (PCB)	
1600							
	5–8.1	5.0'-8.1': CLAYEY SILT (ML): medium brown with 15% shale and siltstone fragments; moist, becoming wet at 9.8'		A617		CME Run 2: 5.0'-10.0' 4.4' recovery. Sample from 5.0'-5.5' TG-A617-224-MW4 (PCB)	
1595	8.1–10	8.1'-10.0': SHALE : rust staining, highly weathered, 20% clay seams					

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL NO. MW04

State NEW YORK Location CLYMER, NEW YORK

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks	Well Const.
	10.0–12.4	10.0'-12.4': SHALE: rust staining, highly weathered, (60%); and brown silty clay (40%)		A518			CME Run 3: 10.0'-15.0' 4.7' recovery. Saturated throughout. Sample from 10.0'-10.5': TG-A518-224-MW4 (PCB)	
1590	12.4–15.0	12.4'-15.0': SHALE AND CLAY: gray, extremely weathered						
	15.0–18.0	15.0'-18.0': SHALE AND CLAY: same as above		A519			CME Run 4: 15.0'-18.0' 3.0' recovery. Refusal at 18.0'.	
	18						Augered with stinger bit to 20.0'.	

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL No. MW05

State	NEW YORK	Start Date	11/12/90
Location	CLYMER, NEW YORK	Completion Date	11/12/90
Drilling Firm	E & E DRILLING	Ground Elevation	1607.03
Type of Drill	DIEDRICH D-50	Groundwater Depth	
Driller	PAUL BARTH	at completion	5.60 ▽
		on 1/8/91	9.00 ▼
Geologist	BOB MEYERS	Total Depth of Boring	20.0'
			Lock #3247

Elev.	Depth	Description	Lithology	Sample No. and Symbol	Blow Count	Remarks	Well Const.
1607.03		Ground Surface				Stickup = 3.11	
	0–2	0.0'-3.0': FILL: disturbed fill material: silty brown clay with some pebbles and small cobbles, moist; hit concrete at 3.0' and broke through with stinger bit at 5.0'		A620		CME Run 1: 0.0'-3.0' 2.8' recovery. Sample from 0.0'-0.5' TG-A620-224-MW5 (PCB)	
	3–5	5.0'-10.0': FILL: fill material: mix of gray silt and brown silty clay with rust mottling and large wood fragments, moist; hit a tree at approximately 6.5'-8.0' and augered through with stinger bit				Augered with stinger bit to 5.0'.	
	5–6			A621		CME Run 2: 5.0'-10.0' 1.9' recovery. Sample from 5.0'-5.5' TG-A621-224-MW5 (PCB)	▽
1600	7						
	8						
	9						▼

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of WELL NO. MW05

State NEW YORK Location CLYMER, NEW YORK

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks	Well Const.
1600	11, 12, 13	10.0'-13.8': SILTSTONE AND SHALE: brown with 40% silty clay; saturated		A622			CME Run 3: 10.0'-15.0' 4.8' recovery. Water at approximately 9.5'. Sample from 10.0'-15.0': TG-A622-224-MW5 (PCB)	
1595	14, 15	13.8'-15.0': SHALE: gray, highly weathered, 25% gray clay; all bedding is horizontal						
	15, 16, 17, 18	15.0'-18.1': SHALE: highly weathered with numerous gray clay seams; saturated					CME Run 4: 15.0'-18.1' 3.1' recovery. Refusal at 18.1'. Augered with stinger bit to 20.0'.	

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of BORING No. BH01

State	NEW YORK	Start Date	11/11/90
Location	CLYMER, NEW YORK	Completion Date	11/11/90
Drilling Firm	E & E DRILLING	Ground Elevation	
Type of Drill	DIEDRICH D-50	Total Depth of Boring	8.0'
Driller	PAUL BARTH		
Geologist	BOB MEYERS		

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks
		Ground Surface					
	0–2	0.0'-0.2': SILT CLAY LOAM (CL): medium brown, moist 0.2'-0.9': SILTY CLAY (CL): brown with some rounded pebbles		A601			Spl Spn Run 1: 0.0'-2.0' 0.9' recovery. Sample from 0.0'-2.0': TG-A601-224-BP (TAL, TCL)
	2–4	2.0'-4.0': CLAYEY SILT (ML): brown, slightly plastic, cohesive, few rounded pebbles, saturated		A602			Spl Spn Run 2: 2.0'-4.0' 1.5' recovery. Sample from 2.0'-4.0': TG-A602-224-BP (TAL, TCL)
	4–6	4.0'-6.0': CLAYEY SILT: (ML): same as above, saturated		A603			Spl Spn Run 3: 4.0'-6.0' 1.1' recovery. Sample from 4.0'-6.0': TG-A603-224-BP (TAL, TCL)
	6–8	6.0'-8.0': CLAYEY SILT (ML): same as above with some shale fragments, saturated		A604			Spl Spn Run 4: 6.0'-8.0' 0.8' recovery. Sample from 6.0'-8.0': TG-A604-224-BP (TAL, TCL)

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of BORING No. BH-02

State	NEW YORK	Start Date	11/11/90
Location	CLYMER, NEW YORK	Completion Date	11/11/90
Drilling Firm	E & E DRILLING	Ground Elevation	
Type of Drill	DIEDRICH D-50	Total Depth of Boring	8.0'
Driller	PAUL BARTH		
Geologist	BOB MEYERS		

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks
		Ground Surface					
	0–2	0.0'-2.0': SILTY CLAY (CL): brown, non-plastic, cohesive, numerous rounded pebbles, moist		A605			Spl Spn Run 1: 0.0'-2.0' 1.7' recovery. Pushed spoons. Sample from 0.0'-2.0': TG-A605-224-BP (TAL, TCL)
	2–4	2.0'-4.0': CLAYEY SILT (ML): brown with rust mottling, few pebbles, moist		A606			Spl Spn Run 2: 2.0'-4.0' 0.6' recovery. Sample from 2.0'-4.0': TG-A606-224-BP (TAL, TCL)
	4–6	4.0'-6.0': CLAYEY SILT: (ML): same as above, wet		A607			Spl Spn Run 3: 4.0'-6.0' 1.8' recovery, wet at 5.0'. Sample from 4.0'-6.0': TG-A607-224-BP (TAL, TCL)
	6–8	6.0'-8.0': SILT (ML): fine silt with few inclusions, saturated		A608			Spl Spn Run 4: 6.0'-8.0' 2.0' recovery. Sample from 6.0'-8.0': TG-A608-224-BP (TAL, TCL)

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

DRILLING LOG of BORING No. BH03

State	NEW YORK	Start Date	11/11/90
Location	CLYMER, NEW YORK	Completion Date	11/11/90
Drilling Firm	E & E DRILLING	Ground Elevation	
Type of Drill	DIEDRICH D-50	Total Depth of Boring	8.0'
Driller	PAUL BARTH		
Geologist	BOB MEYERS		

Elev.	Depth	Description	Lithology	Sample No. and	Symbol	Blow Count	Remarks
		Ground Surface					
	0–1	0.0'-0.4': SILT LOAM (OL): medium brown		A601			Spl Spn Run 1: 0.0'-2.0' 1.7' recovery. Pushed spoons. Sample from 0.0'-2.0': TG-A609-224-BP (TAL, TCL)
	1–2	0.4'-1.7': CLAYEY SILT (ML): brown with rust mottling, fine sand, rounded gravel, moist					
	2–4	2.0'-4.0': CLAYEY SILT (ML): same as above		A610 511			Spl Spn Run 2: 2.0'-4.0' 1.1' recovery. Sample from 2.0'-4.0': TG-A610-224-BP (TAL, TCL) TG-A611-224-BP (TAL, TCL)
	4–6	4.0'-6.0': SILTY CLAY (CL): brown with shale fragments, moist		A612			Spl Spn Run 3: 4.0'-6.0' 1.3' recovery. Sample from 4.0'-6.0': TG-A612-224-BP (TAL, TCL)
	6–8	6.0'-8.0': SILT (ML): brown, fine, few angular shale fragments, saturated		A613			Spl Spn Run 4: 6.0'-8.0' 1.8' recovery. Sample from 6.0'-8.0': TG-A613-224-BP (TAL, TCL)

TENNESSEE GAS COMPRESSOR STATION 224

Ecology and Environment, Inc. Buffalo, New York

APPENDIX B

SAMPLE DESCRIPTIONS AND DATA CROSS REFERENCE

Table B-1

SAMPLE SUFFIX IDENTIFICATION TABLE

Suffix	Area
AB	Auxiliary Building Area
AT	Air Receiver Tank Area
BKFS	Sand Field Blanks
BKFW	Water Field Blanks
BKTB	Trip Blanks
CB	Compressor Building Area
CCO	Crankcase Oil Samples
DDCO	Drainage Ditch C Area
DLAO	Drainline A Outfall Area (on site)
DLAF	Drainline A Outfall Area (off site)
DLAS	Drainline A Oil/Water Separator
DLBM	Drainline B Manholes
DLBO	Drainline B Outfall Area
DLBS	Drainline B Oil/Water Separator
DLCO	Drainline C Outfall Area
DW	Drill Water Sample
GSA	Composite Grid Sampling
GSB	Discrete Grid Sampling
JW	Jacket Water Cooler Area
JWMV	Jacket Water Modulating Valve Area
MB	Meter Building
MLMV	Mainline Gas Valve Areas
MW	Monitoring Well Soil Samples
MWU	Unfiltered Groundwater Samples
MWF	Filtered Groundwater Samples
OSA	Miscellaneous Soil Samples
POA	Separator Pond Area
PTAB	Retired Burn Pit Area
SCA	Scrap Yard Area A
SCB	Scrap Yard Area B

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Table B-1 (Cont.)

Suffix	Area
TKCC	Scrubber Charging and Settling Tank Area
TKBJ	Jacket Water Surge Tank Area
TKAW	Waste Oil Storage Tank Area
TRAO	Tributary of French Creek (on site)
TRAF	Tributary of French Creek (off site)

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APPENDIX B

SAMPLE DESCRIPTIONS AND DATA CROSS REFERENCE
COMPRESSOR STATION 224

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A131-0224-AB	01	0 - 6	Soil	D N E PCB		A131	EE95205	9003.003	12/12/90
TG-A132-0224-AB	01	6 - 12	Soil	D N E PCB		A132	EE95206	9003.003	12/12/90
TG-A133-0224-AB	02	0 - 6	Soil	D N E PCB		A133	EE95207	9003.003	12/12/90
TG-A134-0224-AB	02	6 - 12	Soil	D N E PCB		A134	EE95208	9003.003	12/12/90
TG-A135-0224-AB	03	0 - 6	Soil	D N E PCB		A135	EE95209	9003.003	12/12/90
TG-A136-0224-AB	03	6 - 12	Soil	D N E PCB		A136	EE95210	9003.003	12/12/90
TG-A137-0224-AB	04	0 - 6	Soil	D N E PCB		A137	EE95211	9003.003	12/12/90
TG-A138-0224-AB	04	6 - 12	Soil	D N E PCB		A138	EE95212	9003.003	12/12/90
TG-A139-0224-AB	05	0 - 6	Soil	D N E PCB		A139	EE95213	9003.003	12/12/90
TG-A140-0224-AB	05	6 - 12	Soil	D N E PCB		A140	EE95214	9003.003	12/12/90
TG-A141-0224-AB	05	6 - 12	Soil	D D E PCB		A141	EE95215	9003.003	12/12/90
TG-A142-0224-AB	06	0 - 6	Soil	D N E PCB		A142	EE95216	9003.003	12/12/90
TG-A143-0224-AB	06	6 - 12	Soil	D N E PCB		A143	EE95217	9003.003	12/12/90
TG-A144-0224-AB	07	0 - 6	Soil	D N E PCB		A144	EE95218	9003.003	12/12/90
TG-A145-0224-AB	07	6 - 12	Soil	D N E PCB		A145	EE95219	9003.003	12/12/90
TG-A146-0224-AB	08	0 - 6	Soil	D N E PCB		A146	EE95220	9003.003	12/12/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A147-0224-AB	08	6 - 12	Soil	D N E PCB		A147	EE95221	9003.003	12/12/90
TG-A148-0224-AB	09	0 - 6	Soil	D N E PCB		A148	EE95222	9003.003	12/12/90
TG-A149-0224-AB	09	6 - 12	Soil	D N E PCB		A149	EE95223	9003.003	12/12/90
TG-A150-0224-AB	10	0 - 6	Soil	D N E PCB		A150	EE95224	9003.003	12/12/90
TG-A151-0224-AB	10	6 - 12	Soil	D N E PCB		A151	EE95225	9003.003	12/12/90
TG-A152-0224-AB	10	6 - 12	Soil	D D E PCB		A152	EE95226	9003.003	12/12/90
TG-A153-0224-AB	11	0 - 6	Soil	D N E PCB		A153	EE95227	9003.003	12/12/90
TG-A154-0224-AB	11	6 - 12	Soil	D N E PCB		A154	EE95228	9003.003	12/12/90
TG-A155-0224-AB	12	0 - 6	Soil	D N E PCB		A155	EE95229	9003.003	12/12/90
TG-A156-0224-AB	12	6 - 12	Soil	D N E PCB		A156	EE95230	9003.003	12/12/90
TG-A157-0224-AB	13	0 - 6	Soil	D N E PCB		A157	EE95231	9003.003	12/12/90
TG-A158-0224-AB	13	6 - 12	Soil	D N E PCB		A158	EE95232	9003.003	12/12/90
TG-A159-0224-AB	14	0 - 6	Soil	D N E PCB		A159	EE95233	9003.003	12/12/90
TG-A160-0224-AB	14	6 - 12	Soil	D N E PCB		A160	EE95234	9003.003	12/12/90
TG-A170-0224-AB	15	0 - 6	Soil	D N E TCL		A170	EE95244	9003.004	12/12/90
TG-A171-0224-AB	15	6 - 12	Soil	D N E TCL		A171	EE95245	9003.004	12/12/90
TG-A172-0224-AB	16	0 - 6	Soil	D N E TCL		A172	EE95246	9003.004	12/12/90
TG-A173-0224-AB	17	0 - 6	Soil	D N E TCL		A173	EE95247	9003.004	12/12/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B085-0224-AB	11	12 - 24	Soil	D N E PCB		B085	EE06810	9100.719	03/27/91
TG-B086-0224-AB	11	24 - 36	Soil	D N E PCB		B086	EE06811	9100.719	03/27/91
TG-B087-0224-AB	15	12 - 24	Soil	D N E PCB		B087	EE06812	9100.719	03/27/91
TG-B088-0224-AB	16	6 - 12	Soil	D N E PCB		B088	EE06813	9100.719	03/27/91
TG-B089-0224-AB	16	6 - 12	Soil	D D E PCB		B089	EE06814	9100.719	03/27/91
TG-B090-0224-AB	18	0 - 6	Soil	D N E PCB		B090	EE06815	9100.719	03/27/91
TG-B091-0224-AB	18	6 - 12	Soil	D N E PCB		B091	EE06816	9100.719	03/27/91
TG-B092-0224-AB	18	12 - 24	Soil	D N E PCB		B092	EE06817	9100.719	03/27/91
TG-B093-0224-AB	19	0 - 6	Soil	D N E PCB		B093	EE06818	9100.719	03/27/91
TG-B094-0224-AB	19	6 - 12	Soil	D N E PCB		B094	EE06819	9100.719	03/27/91
TG-B095-0224-AB	19	12 - 24	Soil	D N E PCB		B095	EE06820	9100.719	03/27/91
TG-B096-0224-AB	20	0 - 6	Soil	D N E PCB		B096	EE06821	9100.719	03/27/91
TG-B097-0224-AB	20	0 - 6	Soil	D D E PCB		B097	EE06822	9100.719	03/27/91
TG-B098-0224-AB	20	6 - 12	Soil	D N E PCB		B098	EE06823	9100.719	03/27/91
TG-B101-0224-AB	21	0 - 6	Soil	D N E PCB		B101	EE06824	9100.719	03/27/91
TG-B102-0224-AB	21	6 - 12	Soil	D N E PCB		B102	EE06825	9100.719	03/27/91
TG-B103-0224-AB	22	0 - 6	Soil	D N E PCB		B103	EE06826	9100.719	03/27/91
TG-B104-0224-AB	23	0 - 6	Soil	D N E PCB		B104	EE06827	9100.719	03/27/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B105-0224-AB	24	0 - 6	Soil	D N E PCB		B105	EE06828	9100.719	03/27/91
TG-B106-0224-AB	25	0 - 6	Soil	D N E PCB		B106	EE06829	9100.719	03/27/91
TG-A186-0224-AT	01	0 - 6	Soil	D N E PCB		A186	EE95427	9003.017	12/13/90
TG-A187-0224-AT	01	6 - 12	Soil	D N E PCB		A187	EE95428	9003.017	12/13/90
TG-A188-0224-AT	02	0 - 6	Soil	D N E TCL		A188	EE95533	9003.018	12/13/90
TG-A189-0224-AT	02	6 - 12	Soil	D N E TCL		A189	EE95534	9003.018	12/13/90
TG-A190-0224-AT	03	0 - 6	Soil	D N E PCB		A190	EE95429	9003.017	12/13/90
TG-A191-0224-AT	03	6 - 12	Soil	D N E PCB		A191	EE95430	9003.017	12/13/90
TG-A192-0224-AT	04	0 - 6	Soil	D N E PCB		A192	EE95431	9003.017	12/13/90
TG-A193-0224-AT	04	6 - 12	Soil	D N E PCB		A193	EE95432	9003.017	12/13/90
TG-A194-0224-AT	05	0 - 6	Soil	D N E PCB		A194	EE95433	9003.017	12/13/90
TG-A195-0224-AT	05	6 - 12	Soil	D N E PCB		A195	EE95434	9003.017	12/13/90
TG-A196-0224-AT	05	6 - 12	Soil	D D E PCB		A196	EE95435	9003.017	12/13/90
TG-A197-0224-AT	06	0 - 6	Soil	D N E PCB		A197	EE95436	9003.017	12/13/90
TG-A198-0224-AT	06	6 - 12	Soil	D N E PCB		A198	EE95437	9003.017	12/13/90
TG-A199-0224-AT	07	0 - 6	Soil	D N E PCB		A199	EE95438	9003.017	12/13/90
TG-A200-0224-AT	07	6 - 12	Soil	D N E PCB		A200	EE95439	9003.017	12/13/90
TG-A201-0224-AT	08	0 - 6	Soil	D N E PCB		A201	EE95440	9003.017	12/13/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A202-0224-AT	08	6 - 12	Soil	D N E PCB		A202	EE95441	9003.017	12/13/90
TG-A203-0224-AT	09	0 - 6	Soil	D N E PCB		A203	EE95442	9003.017	12/13/90
TG-A204-0224-AT	09	6 - 12	Soil	D N E PCB		A204	EE95443	9003.017	12/13/90
TG-A205-0224-AT	10	0 - 6	Soil	D N E PCB		A205	EE95444	9003.017	12/13/90
TG-A206-0224-AT	10	6 - 12	Soil	D N E PCB		A206	EE95445	9003.017	12/13/90
TG-A207-0224-AT	10	6 - 12	Soil	D D E PCB		A207	EE95446	9003.017	12/13/90
TG-A208-0224-AT	11	0 - 6	Soil	D N E PCB		A208	EE95447	9003.017	12/13/90
TG-A209-0224-AT	11	6 - 12	Soil	D N E PCB		A209	EE95448	9003.017	12/13/90
TG-A210-0224-AT	12	0 - 6	Soil	D N E PCB		A210	EE95449	9003.017	12/13/90
TG-A211-0224-AT	12	6 - 12	Soil	D N E PCB		A211	EE95450	9003.017	12/13/90
TG-A212-0224-AT	13	0 - 6	Soil	D N E PCB		A212	EE95451	9003.017	12/13/90
TG-A213-0224-AT	13	6 - 12	Soil	D N E PCB		A213	EE95452	9003.017	12/13/90
TG-A214-0224-AT	14	0 - 6	Soil	D N E PCB		A214	EE95453	9003.017	12/13/90
TG-A215-0224-AT	14	6 - 12	Soil	D N E PCB		A215	EE95454	9003.017	12/13/90
TG-A216-0224-AT	15	0 - 6	Soil	D N E PCB		A216	EE95455	9003.017	12/13/90
TG-A217-0224-AT	15	6 - 12	Soil	D N E PCB		A217	EE95456	9003.017	12/13/90
TG-A218-0224-AT	15	6 - 12	Soil	D D E PCB		A218	EE95457	9003.017	12/13/90
TG-A219-0224-AT	16	0 - 6	Soil	D N E PCB		A219	EE95458	9003.017	12/13/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A220-0224-AT	16	6 - 12	Soil	D N E PCB		A220	EE95459	9003.017	12/13/90
TG-A221-0224-AT	17	0 - 6	Soil	D N E PCB		A221	EE95460	9003.017	12/13/90
TG-A222-0224-AT	17	6 - 12	Soil	D N E PCB		A222	EE95461	9003.017	12/13/90
TG-A223-0224-AT	18	0 - 6	Soil	D N E PCB		A223	EE95462	9003.017	12/13/90
TG-A224-0224-AT	18	6 - 12	Soil	D N E PCB		A224	EE95463	9003.017	12/13/90
TG-A225-0224-AT	19	0 - 6	Soil	D N E PCB		A225	EE95464	9003.017	12/13/90
TG-A226-0224-AT	19	6 - 12	Soil	D N E PCB		A226	EE95465	9003.017	12/13/90
TG-A227-0224-AT	20	0 - 6	Soil	D N E PCB		A227	EE95466	9003.017	12/13/90
TG-A228-0224-AT	20	6 - 12	Soil	D N E PCB		A228	EE95467	9003.017	12/13/90
TG-A229-0224-AT	20	6 - 12	Soil	D D E PCB		A229	EE95468	9003.017	12/13/90
TG-A230-0224-AT	21	0 - 6	Soil	D N E PCB		A230	EE95469	9003.017	12/13/90
TG-A231-0224-AT	21	6 - 12	Soil	D N E PCB		A231	EE95470	9003.017	12/13/90
TG-A232-0224-AT	22	0 - 6	Soil	D N E PCB		A232	EE95471	9003.017	12/13/90
TG-A233-0224-AT	22	6 - 12	Soil	D N E PCB		A233	EE95472	9003.017	12/13/90
TG-A234-0224-AT	23	0 - 6	Soil	D N E PCB		A234	EE95473	9003.017	12/13/90
TG-A235-0224-AT	23	6 - 12	Soil	D N E PCB		A235	EE95474	9003.017	12/13/90
TG-A236-0224-AT	24	0 - 6	Soil	D N E TCL		A236	EE95535	9003.018	12/13/90
TG-A237-0224-AT	24	6 - 12	Soil	D N E TCL		A237	EE95536	9003.018	12/13/90

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B001-0224-AT	01	12 - 24	Soil	D N E PCB		B001	EE06342	9100.704	03/26/91
TG-B002-0224-AT	02	12 - 24	Soil	D N E PCB		B002	EE06343	9100.704	03/26/91
TG-B003-0224-AT	02	24 - 36	Soil	D N E PCB		B003	EE06344	9100.704	03/26/91
TG-B004-0224-AT	02	36 - 48	Soil	D N E PCB		B004	EE06345	9100.704	03/26/91
TG-B005-0224-AT	03	12 - 24	Soil	D N E PCB		B005	EE06346	9100.704	03/26/91
TG-B006-0224-AT	03	24 - 36	Soil	D N E PCB		B006	EE06347	9100.704	03/26/91
TG-B007-0224-AT	05	12 - 24	Soil	D N E PCB		B007	EE06348	9100.704	03/26/91
TG-B008-0224-AT	05	24 - 36	Soil	D N E PCB		B008	EE06349	9100.704	03/26/91
TG-B009-0224-AT	06	12 - 24	Soil	D N E PCB		B009	EE06350	9100.704	03/26/91
TG-B010-0224-AT	07	12 - 24	Soil	D N E PCB		B010	EE06351	9100.704	03/26/91
TG-B011-0224-AT	07	12 - 24	Soil	D D E PCB		B011	EE06352	9100.704	03/26/91
TG-B012-0224-AT	08	12 - 24	Soil	D N E PCB		B012	EE06353	9100.704	03/26/91
TG-B013-0224-AT	08	24 - 36	Soil	D N E PCB		B013	EE06354	9100.704	03/26/91
TG-B014-0224-AT	09	12 - 24	Soil	D N E PCB		B014	EE06355	9100.704	03/26/91
TG-B015-0224-AT	09	24 - 36	Soil	D N E PCB		B015	EE06356	9100.704	03/26/91
TG-B016-0224-AT	09	36 - 48	Soil	D N E PCB		B016	EE06357	9100.704	03/26/91
TG-B017-0224-AT	10	12 - 24	Soil	D N E PCB		B017	EE06358	9100.704	03/26/91
TG-B018-0224-AT	16	12 - 24	Soil	D N E PCB		B018	EE06359	9100.704	03/26/91

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B019-0224-AT	16	24 - 36	Soil	D N E PCB		B019	EE06360	9100.704	03/26/91
TG-B020-0224-AT	16	36 - 48	Soil	D N E PCB		B020	EE06361	9100.704	03/26/91
TG-B021-0224-AT	17	12 - 24	Soil	D N E PCB		B021	EE06362	9100.704	03/26/91
TG-B022-0224-AT	17	12 - 24	Soil	D D E PCB		B022	EE06363	9100.704	03/26/91
TG-B023-0224-AT	17	24 - 36	Soil	D N E PCB		B023	EE06364	9100.704	03/26/91
TG-B024-0224-AT	17	36 - 48	Soil	D N E PCB		B024	EE06365	9100.704	03/26/91
TG-B025-0224-AT	18	12 - 24	Soil	D N E PCB		B025	EE06366	9100.704	03/26/91
TG-B026-0224-AT	19	12 - 24	Soil	D N E PCB		B026	EE06367	9100.704	03/26/91
TG-B027-0224-AT	20	12 - 24	Soil	D N E PCB		B027	EE06368	9100.704	03/26/91
TG-B028-0224-AT	20	24 - 36	Soil	D N E PCB		B028	EE06369	9100.704	03/26/91
TG-B029-0224-AT	21	12 - 24	Soil	D N E PCB		B029	EE06370	9100.704	03/26/91
TG-B030-0224-AT	24	12 - 24	Soil	D N E PCB		B030	EE06371	9100.704	03/26/91
TG-B031-0224-AT	24	24 - 36	Soil	D N E PCB		B031	EE06372	9100.704	03/26/91
TG-B032-0224-AT	24	36 - 48	Soil	D N E PCB		B032	EE06373	9100.704	03/26/91
TG-B033-0224-AT	25	0 - 6	Soil	D N E PCB		B033	EE06374	9100.704	03/26/91
TG-B034-0224-AT	25	0 - 6	Soil	D D E PCB		B034	EE06375	9100.704	03/26/91
TG-B035-0224-AT	26	0 - 6	Soil	D N E PCB		B035	EE06376	9100.704	03/26/91
TG-B036-0224-AT	26	6 - 12	Soil	D N E PCB		B036	EE06377	9100.704	03/26/91

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B037-0224-AT	27	0 - 6	Soil	D N E PCB		B037	EE06378	9100.704	03/26/91
TG-B038-0224-AT	28	0 - 6	Soil	D N E PCB		B038	EE06379	9100.704	03/26/91
TG-B039-0224-AT	28	6 - 12	Soil	D N E PCB		B039	EE06380	9100.704	03/26/91
TG-B040-0224-AT	29	0 - 6	Soil	D N E PCB		B040	EE06381	9100.704	03/26/91
TG-B041-0224-AT	29	6 - 12	Soil	D N E PCB		B041	EE06382	9100.704	03/26/91
TG-B042-0224-AT	29	12 - 24	Soil	D N E PCB		B042	EE06383	9100.704	03/26/91
TG-B043-0224-AT	30	0 - 6	Soil	D N E PCB		B043	EE06384	9100.704	03/26/91
TG-B044-0224-AT	30	6 - 12	Soil	D N E PCB		B044	EE06385	9100.704	03/26/91
TG-B045-0224-AT	31	0 - 6	Soil	D N E PCB		B045	EE06386	9100.704	03/26/91
TG-B046-0224-AT	31	0 - 6	Soil	D D E PCB		B046	EE06387	9100.704	03/26/91
TG-B047-0224-AT	32	0 - 6	Soil	D N E PCB		B047	EE06388	9100.704	03/26/91
TG-B048-0224-AT	33	0 - 6	Soil	D N E PCB		B048	EE06389	9100.704	03/26/91
TG-B049-0224-AT	33	6 - 12	Soil	D N E PCB		B049	EE06390	9100.704	03/26/91
TG-B050-0224-AT	34	0 - 6	Soil	D N E PCB		B050	EE06391	9100.704	03/26/91
TG-B051-0224-AT	34	6 - 12	Soil	D N E PCB		B051	EE06392	9100.704	03/26/91
TG-B052-0224-AT	35	0 - 6	Soil	D N E PCB		B052	EE06393	9100.704	03/26/91
TG-B053-0224-AT	36	0 - 6	Soil	D N E PCB		B053	EE06394	9100.704	03/26/91
TG-B054-0224-AT	37	0 - 6	Soil	D N E PCB		B054	EE06395	9100.704	03/26/91

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B055-0224-AT	37	6 - 12	Soil	D N E PCB		B055	EE06396	9100.704	03/26/91
TG-B056-0224-AT	37	6 - 12	Soil	D D E PCB		B056	EE06397	9100.704	03/26/91
TG-B057-0224-AT	38	0 - 6	Soil	D N E PCB		B057	EE06398	9100.704	03/26/91
TG-B058-0224-AT	38	6 - 12	Soil	D N E PCB		B058	EE06399	9100.704	03/26/91
TG-B059-0224-AT	38	12 - 24	Soil	D N E PCB		B059	EE06400	9100.704	03/26/91
TG-B060-0224-AT	39	0 - 6	Soil	D N E PCB		B060	EE06401	9100.704	03/26/91
TG-B061-0224-AT	39	6 - 12	Soil	D N E PCB		B061	EE06402	9100.704	03/26/91
TG-B062-0224-AT	40	0 - 6	Soil	D N E PCB		B062	EE06403	9100.704	03/26/91
TG-B063-0224-AT	41	0 - 6	Soil	D N E PCB		B063	EE06404	9100.704	03/26/91
TG-B064-0224-AT	42	0 - 6	Soil	D N E PCB		B064	EE06405	9100.704	03/26/91
TG-B065-0224-AT	42	6 - 12	Soil	D N E PCB		B065	EE06406	9100.704	03/26/91
TG-B066-0224-AT	43	0 - 6	Soil	D N E PCB		B066	EE06407	9100.704	03/26/91
TG-B067-0224-AT	43	6 - 12	Soil	D N E PCB		B067	EE06408	9100.704	03/26/91
TG-B068-0224-AT	44	0 - 6	Soil	D N E PCB		B068	EE06409	9100.704	03/26/91
TG-B069-0224-AT	44	0 - 6	Soil	D D E PCB		B069	EE06410	9100.704	03/26/91
TG-B070-0224-AT	45	0 - 6	Soil	D N E PCB		B070	EE06411	9100.704	03/26/91
TG-B071-0224-AT	46	0 - 6	Soil	D N E PCB		B071	EE06412	9100.704	03/26/91
TG-B072-0224-AT	46	6 - 12	Soil	D N E PCB		B072	EE06413	9100.704	03/26/91

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B073-0224-AT	47	0 - 6	Soil	D N E PCB		B073	EE06414	9100.704	03/26/91
TG-B074-0224-AT	47	6 - 12	Soil	D N E PCB		B074	EE06415	9100.704	03/26/91
TG-B075-0224-AT	47	12 - 24	Soil	D N E PCB		B075	EE06416	9100.704	03/26/91
TG-B076-0224-AT	48	0 - 6	Soil	D N E PCB		B076	EE06417	9100.704	03/26/91
TG-B077-0224-AT	49	0 - 6	Soil	D N E PCB		B077	EE06418	9100.704	03/26/91
TG-B078-0224-AT	49	0 - 6	Soil	D D E PCB		B078	EE06419	9100.704	03/26/91
TG-B079-0224-AT	50	0 - 6	Soil	D N E PCB		B079	EE06420	9100.704	03/26/91
TG-B080-0224-AT	50	6 - 12	Soil	D N E PCB		B080	EE06421	9100.704	03/26/91
TG-B081-0224-AT	51	0 - 6	Soil	D N E PCB		B081	EE06422	9100.704	03/26/91
TG-B082-0224-AT	52	0 - 6	Soil	D N E PCB		B082	EE06423	9100.704	03/26/91
TG-B083-0224-AT	53	0 - 6	Soil	D N E PCB		B083	EE06424	9100.704	03/26/91
TG-B084-0224-AT	53	6 - 12	Soil	D N E PCB		B084	EE06425	9100.704	03/26/91
TG-9150-0224-BKFS			Soil	D F E PCB		9150	EE07181	9100.731	03/29/91
TG-9151-0224-BKFS			Soil	D F E PCB		9151	EE07182	9100.731	03/29/91
TG-9901-0224-BKFS			Soil	D F E PCB		9901	EE95746	9003.045	12/17/90
TG-9902-0224-BKFS			Soil	D F E PCB		9902	EE95907	9003.060	12/18/90
TG-9903-0224-BKFS			Soil	D F E PCB		9903	EE95908	9003.060	12/18/90
TG-A901-0224-BKFS			Soil	D F E PCB		A901	EE95088	9002.987	12/11/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A902-0224-BKFS			Soil	D F E PCB		A902	EE95089	9002.987	12/11/90
TG-A903-0224-BKTB			Water	D T E VOA		A903	EE95092	9002.988	12/11/90
TG-A904-0224-BKFS			Soil	D F E PCB		A904	EE95235	9003.003	12/12/90
TG-A905-0224-BKFS			Soil	D F E PCB		A905	EE95236	9003.003	12/12/90
TG-A906-0224-BKTB			Water	D T E VOA		A906	EE95248	9003.004	12/12/90
TG-A907-0224-BKFS			Soil	D F E PCB		A907	EE95475	9003.017	12/13/90
TG-A908-0224-BKFS			Soil	D F E TCL		A908	EE95537	9003.018	12/13/90
TG-A909-0224-BKTB			Water	D T E VOA		A909	EE95538	9003.018	12/13/90
TG-A910-0224-BKFS			Soil	D F E CHR		A910	EE95532	9003.017	12/14/90
TG-A911-0224-BKFS			Soil	D F E PCB		A911	EE95476	9003.017	12/13/90
TG-A912-0224-BKFS			Soil	D F E PCB		9121	EE95747	9003.045	12/17/90
TG-A913-0224-BKFS			Soil	D F E PCB		A913	EE91826	9002.761	11/13/90
TG-A914-0224-BKFS			Soil	D F E TCL		A914	EE95825	9003.059	12/19/90
TG-A915-0224-BKFW			Water	D F E PCB		A915	EE95916	9003.060	12/19/90
TG-A916-0224-BKTB			Water	D T E VOA		A916	EE95827	9003.059	12/19/90
TG-A917-0224-BKFS			Soil	D F E PCB		A917	EE95901	9003.060	12/20/90
TG-A918-0224-BKFS			Soil	D F E PCB		A918	EE95902	9003.060	12/20/90
TG-A919-0224-BKTB			Water	D T E VOA		A919	EE95828	9003.059	12/21/90

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A920-0224-BKFS			Soil	D F E TCL,CHR		A920	EE95826	9003.059	12/21/90
TG-A921-0224-BKFW			Water	D F E TCL,TPH,CYN		A803	EE91139	9002.735	11/10/90
TG-A922-0224-BKFS			Soil	D F E PCB		A910	EE91124	9002.733	11/10/90
TG-A923-0224-BKFS			Soil	D F E PCB		A911	EE91685	9002.754	11/11/90
TG-A924-0224-BKFS			Soil	D F E PCB		A914	EE92402	9002.799	11/14/90
TG-A925-0224-BKFS			Soil	D F E PCB		A912	EE91686	9002.754	11/12/90
TG-B269-0224-BKFS			Soil	D F E PCB		B269	EE06426	9100.704	03/26/91
TG-B270-0224-BKFS			Soil	D F E PCB		B270	EE06427	9100.704	03/26/91
TG-B271-0224-BKFS			Soil	D F E PCB		B271	EE06428	9100.704	03/26/91
TG-B272-0224-BKFS			Soil	D F E PCB		B272	EE06429	9100.704	03/26/91
TG-B273-0224-BKFS			Soil	D F E PCB		B273	EE06875	9100.719	03/27/91
TG-B274-0224-BKFS			Soil	D F E PCB		B274	EE06876	9100.719	03/27/91
TG-B275-0224-BKFS			Soil	D F E PCB		B275	EE06877	9100.719	03/27/91
TG-B276-0224-BKFS			Soil	D F E PCB		B276	EE07115	9100.731	03/28/91
TG-B277-0224-BKFS			Soil	D F E PCB		B277	EE07116	9100.731	03/28/91
TG-B278-0224-BKFS			Sediment	D F E PCB		B278	EE07117	9100.731	03/28/91
TG-B279-0224-BKFS			Sediment	D F E PCB		B279	EE07338	9100.751	04/02/91
TG-B280-0224-BKFS			Sediment	D F E PCB		B280	EE07339	9100.751	04/02/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B282-0224-BKFW			Water	D F E PCB		B282	EE07302	9100.750	04/02/91
TG-A001-0224-CB	01	0 - 6	Soil	D N E PCB		A001	EE95040	9002.987	12/11/90
TG-A002-0224-CB	01	6 - 12	Soil	D N E PCB		A002	EE95041	9002.987	12/11/90
TG-A003-0224-CB	02	0 - 6	Soil	D N E PCB		A003	EE95042	9002.987	12/11/90
TG-A004-0224-CB	02	6 - 12	Soil	D N E PCB		A004	EE95043	9002.987	12/11/90
TG-A005-0224-CB	03	0 - 6	Soil	D N E PCB		A005	EE95044	9002.987	12/11/90
TG-A006-0224-CB	03	6 - 12	Soil	D N E PCB		A006	EE95045	9002.987	12/11/90
TG-A007-0224-CB	04	0 - 6	Soil	D N E PCB		A007	EE95046	9002.987	12/11/90
TG-A008-0224-CB	04	6 - 12	Soil	D N E PCB		A008	EE95047	9002.987	12/11/90
TG-A009-0224-CB	05	0 - 6	Soil	D N E PCB		A009	EE95048	9002.987	12/11/90
TG-A010-0224-CB	05	6 - 12	Soil	D N E PCB		A010	EE95049	9002.987	12/11/90
TG-A011-0224-CB	05	6 - 12	Soil	D D E PCB		A011	EE95050	9002.987	12/11/90
TG-A012-0224-CB	06	0 - 6	Soil	D N E PCB		A012	EE95051	9002.987	12/11/90
TG-A013-0224-CB	06	6 - 12	Soil	D N E PCB		A013	EE95052	9002.987	12/11/90
TG-A014-0224-CB	07	0 - 6	Soil	D N E PCB		A014	EE95053	9002.987	12/11/90
TG-A015-0224-CB	07	6 - 12	Soil	D N E PCB		A015	EE95054	9002.987	12/11/90
TG-A016-0224-CB	08	0 - 6	Soil	D N E PCB		A016	EE95055	9002.987	12/11/90
TG-A017-0224-CB	08	6 - 12	Soil	D N E PCB		A017	EE95056	9002.987	12/11/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A018-0224-CB	09	0 - 6	Soil	D N E PCB		A018	EE95057	9002.987	12/11/90
TG-A019-0224-CB	09	6 - 12	Soil	D N E PCB		A019	EE95058	9002.987	12/11/90
TG-A020-0224-CB	10	0 - 6	Soil	D N E PCB		A020	EE95059	9002.987	12/11/90
TG-A021-0224-CB	10	6 - 12	Soil	D N E PCB		A021	EE95060	9002.987	12/11/90
TG-A022-0224-CB	10	6 - 12	Soil	D D E PCB		A022	EE95061	9002.987	12/11/90
TG-A023-0224-CB	11	0 - 6	Soil	D N E PCB		A023	EE95062	9002.987	12/11/90
TG-A024-0224-CB	11	6 - 12	Soil	D N E PCB		A024	EE95063	9002.987	12/11/90
TG-A025-0224-CB	12	0 - 6	Soil	D N E PCB		A025	EE95064	9002.987	12/11/90
TG-A026-0224-CB	12	6 - 12	Soil	D N E PCB		A026	EE95065	9002.987	12/11/90
TG-A027-0224-CB	13	0 - 6	Soil	D N E PCB		A027	EE95066	9002.987	12/11/90
TG-A028-0224-CB	13	6 - 12	Soil	D N E PCB		A028	EE95067	9002.987	12/11/90
TG-A029-0224-CB	14	0 - 6	Soil	D N E PCB		A029	EE95068	9002.987	12/11/90
TG-A030-0224-CB	14	6 - 12	Soil	D N E PCB		A030	EE95069	9002.987	12/11/90
TG-A031-0224-CB	15	0 - 6	Soil	D N E PCB		A031	EE95070	9002.987	12/11/90
TG-A032-0224-CB	15	6 - 12	Soil	D N E PCB		A032	EE95071	9002.987	12/11/90
TG-A033-0224-CB	15	6 - 12	Soil	D D E PCB		A033	EE95072	9002.987	12/11/90
TG-A034-0224-CB	16	0 - 6	Soil	D N E PCB		A034	EE95073	9002.987	12/11/90
TG-A035-0224-CB	16	6 - 12	Soil	D N E PCB		A035	EE95074	9002.987	12/11/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A036-0224-CB	17	0 - 6	Soil	D N E PCB		A036	EE95075	9002.987	12/11/90
TG-A037-0224-CB	17	6 - 12	Soil	D N E PCB		A037	EE95076	9002.987	12/11/90
TG-A038-0224-CB	18	0 - 6	Soil	D N E PCB		A038	EE95077	9002.987	12/11/90
TG-A039-0224-CB	18	6 - 12	Soil	D N E PCB		A039	EE95078	9002.987	12/11/90
TG-A040-0224-CB	19	0 - 6	Soil	D N E PCB		A040	EE95079	9002.987	12/11/90
TG-A041-0224-CB	19	6 - 12	Soil	D N E PCB		A041	EE95080	9002.987	12/11/90
TG-A047-0224-CB	22	0 - 6	Soil	D N E TCL		A047	EE95090	9002.988	12/11/90
TG-A048-0224-CB	22	6 - 12	Soil	D N E TCL		A048	EE95091	9002.988	12/11/90
TG-A049-0224-CB	23	0 - 6	Soil	D N E PCB		A049	EE95081	9002.987	12/11/90
TG-A050-0224-CB	23	6 - 12	Soil	D N E PCB		A050	EE95082	9002.987	12/11/90
TG-A051-0224-CB	24	0 - 6	Soil	D N E PCB		A051	EE95083	9002.987	12/11/90
TG-A052-0224-CB	24	6 - 12	Soil	D N E PCB		A052	EE95084	9002.987	12/11/90
TG-A053-0224-CB	25	0 - 6	Soil	D N E PCB		A053	EE95085	9002.987	12/11/90
TG-A054-0224-CB	25	6 - 12	Soil	D N E PCB		A054	EE95086	9002.987	12/11/90
TG-A055-0224-CB	25	6 - 12	Soil	D D E PCB		A055	EE95087	9002.987	12/11/90
TG-A056-0224-CB	26	0 - 6	Soil	D N E TCL		A056	EE95237	9003.004	12/12/90
TG-A057-0224-CB	26	6 - 12	Soil	D N E TCL		A057	EE95238	9003.004	12/12/90
TG-A058-0224-CB	27	0 - 6	Soil	D N E PCB		A058	EE95186	9003.003	12/12/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A059-0224-CB	27	6 - 12	Soil	D N E PCB		A059	EE95187	9003.003	12/12/90
TG-A060-0224-CB	28	0 - 6	Soil	D N E PCB		A060	EE95188	9003.003	12/12/90
TG-A061-0224-CB	28	6 - 12	Soil	D N E PCB		A061	EE95189	9003.003	12/12/90
TG-A062-0224-CB	29	0 - 6	Soil	D N E PCB		A062	EE95190	9003.003	12/12/90
TG-A063-0224-CB	29	6 - 12	Soil	D N E PCB		A063	EE95191	9003.003	12/12/90
TG-A064-0224-CB	30	0 - 6	Soil	D N E TCL		A064	EE95239	9003.004	12/12/90
TG-A065-0224-CB	30	6 - 12	Soil	D N E TCL		A065	EE95240	9003.004	12/12/90
TG-A066-0224-CB	30	6 - 12	Soil	D D E TCL		A066	EE95241	9003.004	12/12/90
TG-A067-0224-CB	31	0 - 6	Soil	D N E PCB		A067	EE95192	9003.003	12/12/90
TG-A068-0224-CB	31	6 - 12	Soil	D N E PCB		A068	EE95193	9003.003	12/12/90
TG-A069-0224-CB	32	0 - 6	Soil	D N E PCB		A069	EE95194	9003.003	12/12/90
TG-A070-0224-CB	32	6 - 12	Soil	D N E PCB		A070	EE95195	9003.003	12/12/90
TG-A071-0224-CB	33	0 - 6	Soil	D N E PCB		A071	EE95196	9003.003	12/12/90
TG-A072-0224-CB	33	6 - 12	Soil	D N E PCB		A072	EE95197	9003.003	12/12/90
TG-A073-0224-CB	34	0 - 6	Soil	D N E TCL		A073	EE95242	9003.004	12/12/90
TG-A074-0224-CB	34	6 - 12	Soil	D N E TCL		A074	EE95243	9003.004	12/12/90
TG-A075-0224-CB	35	0 - 6	Soil	D N E PCB		A075	EE95198	9003.003	12/12/90
TG-A076-0224-CB	35	6 - 12	Soil	D N E PCB		A076	EE95199	9003.003	12/12/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A077-0224-CB	35	6 - 12	Soil	D D E PCB		A077	EE95200	9003.003	12/12/90
TG-A078-0224-CB	36	0 - 6	Soil	D N E PCB		A078	EE95201	9003.003	12/12/90
TG-A079-0224-CB	36	6 - 12	Soil	D N E PCB		A079	EE95202	9003.003	12/12/90
TG-A080-0224-CB	37	0 - 6	Soil	D N E PCB		A080	EE95203	9003.003	12/12/90
TG-A081-0224-CB	37	6 - 12	Soil	D N E PCB		A081	EE95204	9003.003	12/12/90
TG-B107-0224-CB	16	12 - 24	Soil	D N E PCB		B107	EE06830	9100.719	03/27/91
TG-B108-0224-CB	16	12 - 24	Soil	D D E PCB		B108	EE06831	9100.719	03/27/91
TG-B109-0224-CB	22	12 - 24	Soil	D N E PCB		B109	EE06832	9100.719	03/27/91
TG-B110-0224-CB	22	24 - 36	Soil	D N E PCB		B110	EE06833	9100.719	03/27/91
TG-B111-0224-CB	24	12 - 24	Soil	D N E PCB		B111	EE06834	9100.719	03/27/91
TG-B112-0224-CB	26	12 - 24	Soil	D N E PCB		B112	EE06835	9100.719	03/27/91
TG-B113-0224-CB	28	12 - 24	Soil	D N E PCB		B113	EE06836	9100.719	03/27/91
TG-B114-0224-CB	30	12 - 24	Soil	D N E PCB		B114	EE06837	9100.719	03/27/91
TG-B117-0224-CB	33	12 - 24	Soil	D N E PCB		B117	EE06838	9100.719	03/27/91
TG-B118-0224-CB	33	12 - 24	Soil	D D E PCB		B118	EE06839	9100.719	03/27/91
TG-B119-0224-CB	36	12 - 24	Soil	D N E PCB		B119	EE06840	9100.719	03/27/91
TG-B120-0224-CB	38	0 - 6	Soil	D N E PCB		B120	EE06841	9100.719	03/27/91
TG-B123-0224-CB	40	0 - 6	Soil	D N E PCB		B123	EE06842	9100.719	03/27/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B124-0224-CB	40	6 - 12	Soil	D N E PCB		B124	EE06843	9100.719	03/27/91
TG-B128-0224-CB	42	0 - 6	Soil	D N E PCB		B128	EE06844	9100.719	03/27/91
TG-B129-0224-CB	42	0 - 6	Soil	D D E PCB		B129	EE06845	9100.719	03/27/91
TG-B130-0224-CB	42	6 - 12	Soil	D N E PCB		B130	EE06846	9100.719	03/27/91
TG-B131-0224-CB	43	0 - 6	Soil	D N E PCB		B131	EE06847	9100.719	03/27/91
TG-B132-0224-CB	44	0 - 6	Soil	D N E PCB		B132	EE06848	9100.719	03/29/91
TG-B133-0224-CB	44	6 - 12	Soil	D N E PCB		B133	EE06849	9100.719	03/27/91
TG-B134-0224-CB	45	0 - 6	Soil	D N E PCB		B134	EE06850	9100.719	03/27/91
TG-B137-0224-CB	47	0 - 6	Soil	D N E PCB		B137	EE06851	9100.719	03/27/91
TG-B138-0224-CB	47	0 - 6	Soil	D D E PCB		B138	EE06852	9100.719	03/27/91
TG-B139-0224-CB	47	6 - 12	Soil	D N E PCB		B139	EE06853	9100.719	03/27/91
TG-B140-0224-CB	48	0 - 6	Soil	D N E PCB		B140	EE06854	9100.719	03/27/91
TG-B141-0224-CB	48	6 - 12	Soil	D N E PCB		B141	EE06855	9100.719	03/27/91
TG-B142-0224-CB	49	0 - 6	Soil	D N E PCB		B142	EE06856	9100.719	03/27/91
TG-B143-0224-CB	49	6 - 12	Soil	D N E PCB		B143	EE06857	9100.719	03/27/91
TG-A440-0224-CCO	01		Oil	D N E PCB		A440	EE95831	9003.060	12/19/90
TG-A441-0224-CCO	02		Oil	D N E PCB		A441	EE95832	9003.060	12/19/90
TG-A347-0224-DDCO	01	0 - 6	Soil	D N E PCB		A347	EE95840	9003.060	12/19/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A348-0224-DDCO	01	0 – 6	Soil	D D E PCB		A348	EE95841	9003.060	12/19/90
TG-A349-0224-DDCO	02	0 – 6	Soil	D N E PCB		A349	EE95842	9003.060	12/19/90
TG-A350-0224-DDCO	03	0 – 6	Soil	D N E PCB		A350	EE95843	9003.060	12/19/90
TG-A351-0224-DDCO	04	0 – 6	Soil	D N E PCB		A351	EE95844	9003.060	12/19/90
TG-A352-0224-DDCO	05	0 – 6	Soil	D N E PCB		A352	EE95845	9003.060	12/19/90
TG-A353-0224-DDCO	06	0 – 6	Soil	D N E PCB		A353	EE95846	9003.060	12/19/90
TG-A354-0224-DDCO	07	0 – 6	Soil	D N E PCB		A354	EE95847	9003.060	12/19/90
TG-A371-0224-DLAO	B01	0 – 6	Soil	D N E TCL		A371	EE95817	9003.059	12/19/90
TG-A372-0224-DLAO	B01		Water	D N E PCB		A372	EE95909	9003.060	12/19/90
TG-A373-0224-DLAF	A01	0 – 6	Soil	D N E PCB		A373	EE95864	9003.060	12/19/90
TG-A374-0224-DLAF	A01	0 – 6	Soil	D D E PCB		A374	EE95865	9003.060	12/19/90
TG-A375-0224-DLAS	C01	0 – 6	Sediment	D N E PCB		A375	EE95866	9003.060	12/19/90
TG-A376-0224-DLBM	01	0 – 6	Sediment	D N E PCB		A376	EE95867	9003.060	12/19/90
TG-A377-0224-DLBM	02	0 – 6	Sediment	D N E PCB		A377	EE95868	9003.060	12/19/90
TG-A379-0224-DLBS	E01	0 – 6	Sediment	D N E PCB		A379	EE95830	9003.060	12/19/90
TG-A381-0224-DLBO	D01	0 – 6	Soil	D N E TCL		A381	EE95818	9003.059	12/19/90
TG-A382-0224-DLBO	D01		Water	D N E PCB		A382	EE95910	9003.060	12/19/90
TG-A383-0224-DLCO	F01	0 – 6	Soil	D N E TCL,CHR		A383	EE95819	9003.059	12/21/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A801-0224-DW			Water	D N E TCL,TPH,CYN		A801	EE91138	9002.735	11/10/90
TG-A802-0224-DW			Water	D D E TCL,TPH,CYN		A802	EE91137	9002.735	11/10/90
TG-9001-0224-GSA		0 – 6	Soil	C N E PCB	T2,T3,U2,U3	9001	EE95720	9003.045	12/17/90
TG-9002-0224-GSA		0 – 6	Soil	C N E PCB	R2,R3,S2,S3	9002	EE95721	9003.045	12/17/90
TG-9003-0224-GSA		0 – 6	Soil	C N E PCB	P2,P3,Q2,Q3	9003	EE95722	9003.045	12/17/90
TG-9004-0224-GSA		0 – 6	Soil	C N E PCB	N2,N3,O2,O3	9004	EE95749	9003.047	12/18/90
TG-9005-0224-GSA		0 – 6	Soil	C N E PCB	L2,L3,M2,M3	9005	EE95750	9003.047	12/18/90
TG-9006-0224-GSA		0 – 6	Soil	C N E PCB	J2,J3,K2,K3	9006	EE95751	9003.047	12/18/90
TG-9007-0224-GSA		0 – 6	Soil	C N E PCB	H2,H3,I2,I3	9007	EE95752	9003.047	12/18/90
TG-9008-0224-GSA		0 – 6	Soil	C N E PCB	F2,F3,G2,G3	9008	EE95753	9003.047	12/18/90
TG-9009-0224-GSA		0 – 6	Soil	C N E PCB	D2,D3,E2,E3	9009	EE95754	9003.047	12/18/90
TG-9010-0224-GSA		0 – 6	Soil	C N E PCB	B2,B3,C2,C3	9010	EE95755	9003.047	12/18/90
TG-9011-0224-GSA		0 – 6	Soil	C D E PCB	B2,B3,C2,C3	9011	EE95756	9003.047	12/18/90
TG-9015-0224-GSA		0 – 6	Soil	C N E PCB	H4,H5,I4,I5	9015	EE95757	9003.047	12/18/90
TG-9016-0224-GSA		0 – 6	Soil	C N E PCB	J4,J5,K4,K5	9016	EE95758	9003.047	12/18/90
TG-9017-0224-GSA		0 – 6	Soil	C N E PCB	L4,L5,M4	9017	EE95759	9003.047	12/18/90
TG-9018-0224-GSA		0 – 6	Soil	C N E PCB	N4,N5,O4,O5	9018	EE95760	9003.047	12/18/90
TG-9019-0224-GSA		0 – 6	Soil	C N E PCB	P4,Q4,Q5	9019	EE95723	9003.045	12/17/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-9020-0224-GSA		0 - 6	Soil	C N E PCB	R4,R5,S4,S5	9020	EE95724	9003.045	12/17/90
TG-9021-0224-GSA		0 - 6	Soil	C N E PCB	T4,U4,U5	9021	EE95725	9003.045	12/17/90
TG-9022-0224-GSA		0 - 6	Soil	C D E PCB	T4,U4,U5	9022	EE95726	9003.045	12/17/90
TG-9023-0224-GSA		0 - 6	Soil	C N E PCB	U6,U7	9023	EE95727	9003.045	12/17/90
TG-9024-0224-GSA		0 - 6	Soil	C N E PCB	R6,R7,S6,S7	9024	EE95728	9003.045	12/17/90
TG-9025-0224-GSA		0 - 6	Soil	C N E PCB	P6,P7,Q6,Q7	9025	EE95729	9003.045	12/17/90
TG-9026-0224-GSA		0 - 6	Soil	C N E PCB	N7,O6,O7	9026	EE95761	9003.047	12/18/90
TG-9027-0224-GSA		0 - 6	Soil	C N E PCB	L6,L7,M7	9027	EE95762	9003.047	12/18/90
TG-9028-0224-GSA		0 - 6	Soil	C N E PCB	J6,J7,K6,K7	9028	EE95763	9003.047	12/18/90
TG-9029-0224-GSA		0 - 6	Soil	C N E PCB	H6,H7,I6,I7	9029	EE95764	9003.047	12/18/90
TG-9030-0224-GSA		0 - 6	Soil	C N E PCB	G6,G7	9030	EE95765	9003.047	12/18/90
TG-9036-0224-GSA		0 - 6	Soil	C N E PCB	F8,G8	9036	EE95766	9003.047	12/18/90
TG-9037-0224-GSA		0 - 6	Soil	C N E PCB	H8,H9,I8,I9	9037	EE95767	9003.047	12/18/90
TG-9038-0224-GSA		0 - 6	Soil	C N E PCB	J8,J9,K8,K9	9038	EE95768	9003.047	12/18/90
TG-9039-0224-GSA		0 - 6	Soil	C N E PCB	L8,L9,M9	9039	EE95769	9003.047	12/18/90
TG-9040-0224-GSA		0 - 6	Soil	C N E PCB	N8,N9,O8,O9	9040	EE95770	9003.047	12/18/90
TG-9041-0224-GSA		0 - 6	Soil	C N E PCB	P8,P9,Q8,Q9	9041	EE95730	9003.045	12/17/90
TG-9042-0224-GSA		0 - 6	Soil	C N E PCB	R8,R9,S8,S9	9042	EE95731	9003.045	12/17/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-9043-0224-GSA		0 - 6	Soil	C N E PCB	T8,T9,U9	9043	EE95732	9003.045	12/17/90
TG-9044-0224-GSA		0 - 6	Soil	C D E PCB	T8,T9,U9	9044	EE95733	9003.045	12/17/90
TG-9045-0224-GSA		0 - 6	Soil	C N E PCB	T10,T11,U10,U11	9045	EE95734	9003.045	12/17/90
TG-9046-0224-GSA		0 - 6	Soil	C N E PCB	R10,R11,S10,S11	9046	EE95735	9003.045	12/17/90
TG-9047-0224-GSA		0 - 6	Soil	C N E PCB	P10,P11,Q10,Q11	9047	EE95736	9003.045	12/17/90
TG-9048-0224-GSA		0 - 6	Soil	C N E PCB	N10,N11,O10,O11	9048	EE95771	9003.047	12/18/90
TG-9049-0224-GSA		0 - 6	Soil	C N E PCB	L10,L11,M10,M11	9049	EE95772	9003.047	12/18/90
TG-9050-0224-GSA		0 - 6	Soil	C N E PCB	J10,J11,K10	9050	EE95773	9003.047	12/18/90
TG-9051-0224-GSA		0 - 6	Soil	C N E PCB	H10	9051	EE95774	9003.047	12/18/90
TG-9060-0224-GSA		0 - 6	Soil	C N E PCB	K12,K13	9060	EE95775	9003.047	12/18/90
TG-9061-0224-GSA		0 - 6	Soil	C N E PCB	L12,L13,M12,M13	9061	EE95776	9003.047	12/18/90
TG-9062-0224-GSA		0 - 6	Soil	C N E PCB	N12,N13,O12,O13	9062	EE95777	9003.047	12/18/90
TG-9063-0224-GSA		0 - 6	Soil	C N E PCB	P12,P13,Q12,Q13	9063	EE95737	9003.045	12/17/90
TG-9064-0224-GSA		0 - 6	Soil	C N E PCB	R12,R13,S12,S13	9064	EE95738	9003.045	12/17/90
TG-9065-0224-GSA		0 - 6	Soil	C N E PCB	T12,T13,U12,U13	9065	EE95739	9003.045	12/17/90
TG-9066-0224-GSA		0 - 6	Soil	C D E PCB	T12,T13,U12,U13	9066	EE95740	9003.045	12/17/90
TG-9067-0224-GSA		0 - 6	Soil	C N E PCB	T14,T15,U14,U15	9067	EE95741	9003.045	12/17/90
TG-9068-0224-GSA		0 - 6	Soil	C N E PCB	R14,R15,S14,S15	9068	EE95742	9003.045	12/17/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-9069-0224-GSA		0 - 6	Soil	C N E PCB	P14,P15,Q14,Q15	9069	EE95743	9003.045	12/17/90
TG-9070-0224-GSA		0 - 6	Soil	C N E PCB	N14,N15,O14,O15	9070	EE95778	9003.047	12/18/90
TG-9071-0224-GSA		0 - 6	Soil	C N E PCB	L14,L15,M14,M15	9071	EE95779	9003.047	12/18/90
TG-9072-0224-GSA		0 - 6	Soil	C N E PCB	K14,K15	9072	EE95780	9003.047	12/18/90
TG-9086-0224-GSA		0 - 6	Soil	C N E PCB	J16,J17,K16,K17	9086	EE95904	9003.060	12/18/90
TG-9090-0224-GSA		0 - 6	Soil	C N E PCB	L16,L17,M16,M17	9090	EE95905	9003.060	12/18/90
TG-9091-0224-GSA		0 - 6	Soil	C N E PCB	N16,N17,O16,O17	9091	EE95906	9003.060	12/18/90
TG-9094-0224-GSA		0 - 6	Soil	C N E PCB	P16,P17,Q16,Q17	9094	EE95744	9003.045	12/17/90
TG-9095-0224-GSA		0 - 6	Soil	C N E PCB	R16,R17,S16,S17	9095	EE95745	9003.045	12/17/90
TG-9098-0224-GSA		0 - 6	Soil	C N E PCB	T16,T17,U16,U17	9098	EE95781	9003.047	12/18/90
TG-9099-0224-GSA		0 - 6	Soil	C D E PCB	T16,T17,U16,U17	9099	EE95782	9003.047	12/18/90
TG-9100-0224-GSB	A01	0 - 6	Soil	D N E PCB		9100	EE07136	9100.731	03/26/91
TG-9101-0224-GSB	A02	0 - 6	Soil	D N E PCB		9101	EE07137	9100.731	03/26/91
TG-9102-0224-GSB	A03	0 - 6	Soil	D N E PCB		9102	EE07138	9100.731	03/26/91
TG-9103-0224-GSB	A04	0 - 6	Soil	D N E PCB		9103	EE07139	9100.731	03/26/91
TG-9104-0224-GSB	A05	0 - 6	Soil	D N E PCB		9104	EE07140	9100.731	03/26/91
TG-9105-0224-GSB	A06	0 - 6	Soil	D N E PCB		9105	EE07141	9100.731	03/26/91
TG-9106-0224-GSB	A07	0 - 6	Soil	D N E PCB		9106	EE07142	9100.731	03/26/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-9107-0224-GSB	A08	0 - 6	Soil	D N E PCB		9107	EE07143	9100.731	03/26/91
TG-9109-0224-GSB	A10	0 - 6	Soil	D N E PCB		9109	EE07144	9100.731	03/26/91
TG-9110-0224-GSB	A10	0 - 6	Soil	D D E PCB		9110	EE07145	9100.731	03/26/91
TG-9112-0224-GSB	A12	0 - 6	Soil	D N E PCB		9112	EE07146	9100.731	03/26/91
TG-9113-0224-GSB	A13	0 - 6	Soil	D N E PCB		9113	EE07147	9100.731	03/26/91
TG-9114-0224-GSB	A14	0 - 6	Soil	D N E PCB		9114	EE07148	9100.731	03/26/91
TG-9115-0224-GSB	A15	0 - 6	Soil	D N E PCB		9115	EE07149	9100.731	03/26/91
TG-9117-0224-GSB	A17	0 - 6	Soil	D N E PCB		9117	EE07150	9100.731	03/26/91
TG-9118-0224-GSB	A18	0 - 6	Soil	D N E PCB		9118	EE07151	9100.731	03/26/91
TG-9119-0224-GSB	A19	0 - 6	Soil	D N E PCB		9119	EE07152	9100.731	03/26/91
TG-9120-0224-GSB	A20	0 - 6	Soil	D N E PCB		9120	EE07153	9100.731	03/26/91
TG-9121-0224-GSB	A20	0 - 6	Soil	D D E PCB		9121	EE07154	9100.731	03/26/91
TG-9124-0224-GSB	A23	0 - 6	Soil	D N E PCB		9124	EE07155	9100.731	03/26/91
TG-9125-0224-GSB	B01	0 - 6	Soil	D N E PCB		9125	EE07156	9100.731	03/29/91
TG-9126-0224-GSB	B02	0 - 6	Soil	D N E PCB		9126	EE07157	9100.731	03/29/91
TG-9127-0224-GSB	B03	0 - 6	Soil	D N E PCB		9127	EE07158	9100.731	03/29/91
TG-9128-0224-GSB	B04	0 - 6	Soil	D N E PCB		9128	EE07159	9100.731	03/29/91
TG-9129-0224-GSB	B05	0 - 6	Soil	D N E PCB		9129	EE07160	9100.731	03/29/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-9130-0224-GSB	B06	0 - 6	Soil	D N E PCB		9130	EE07161	9100.731	03/29/91
TG-9131-0224-GSB	B07	0 - 6	Soil	D N E PCB		9131	EE07162	9100.731	03/29/91
TG-9132-0224-GSB	B08	0 - 6	Soil	D N E PCB		9132	EE07163	9100.731	03/29/91
TG-9133-0224-GSB	B09	0 - 6	Soil	D N E PCB		9133	EE07164	9100.731	03/29/91
TG-9134-0224-GSB	B10	0 - 6	Soil	D N E PCB		9134	EE07165	9100.731	03/29/91
TG-9135-0224-GSB	B10	0 - 6	Soil	D D E PCB		9135	EE07166	9100.731	03/29/91
TG-9136-0224-GSB	B11	0 - 6	Soil	D N E PCB		9136	EE07167	9100.731	03/29/91
TG-9137-0224-GSB	B12	0 - 6	Soil	D N E PCB		9137	EE07168	9100.731	03/29/91
TG-9138-0224-GSB	B13	0 - 6	Soil	D N E PCB		9138	EE07169	9100.731	03/29/91
TG-9139-0224-GSB	B14	0 - 6	Soil	D N E PCB		9139	EE07170	9100.731	03/29/91
TG-9140-0224-GSB	B15	0 - 6	Soil	D N E PCB		9140	EE07171	9100.731	03/29/91
TG-9141-0224-GSB	B16	0 - 6	Soil	D N E PCB		9141	EE07172	9100.731	03/29/91
TG-9142-0224-GSB	B17	0 - 6	Soil	D N E PCB		9142	EE07173	9100.731	03/29/91
TG-9143-0224-GSB	B18	0 - 6	Soil	D N E PCB		9143	EE07174	9100.731	03/29/91
TG-9144-0224-GSB	B19	0 - 6	Soil	D N E PCB		9144	EE07175	9100.731	03/29/91
TG-9145-0224-GSB	B20	0 - 6	Soil	D N E PCB		9145	EE07176	9100.731	03/29/91
TG-9146-0224-GSB	B20	0 - 6	Soil	D D E PCB		9146	EE07177	9100.731	03/29/91
TG-9147-0224-GSB	B21	0 - 6	Soil	D N E PCB		9147	EE07178	9100.731	03/29/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-9148-0224-GSB	B22	0 - 6	Soil	D N E PCB		9148	EE07179	9100.731	03/29/91
TG-9149-0224-GSB	B23	0 - 6	Soil	D N E PCB		9149	EE07180	9100.731	03/29/91
TG-A442-0224-JW	01	0 - 6	Soil	D N E CHR		A442	EE95503	9003.017	12/14/90
TG-A443-0224-JW	01	0 - 6	Soil	D D E CHR		A443	EE95504	9003.017	12/14/90
TG-A444-0224-JW	01	6 - 12	Soil	D N E CHR		A444.	EE95505	9003.017	12/14/90
TG-A445-0224-JW	02	0 - 6	Soil	D N E CHR		A445	EE95506	9003.017	12/14/90
TG-A446-0224-JW	02	6 - 12	Soil	D N E CHR		A446	EE95507	9003.017	12/14/90
TG-A447-0224-JW	03	0 - 6	Soil	D N E CHR		A447	EE95508	9003.017	12/14/90
TG-A448-0224-JW	03	6 - 12	Soil	D N E CHR		A448	EE95509	9003.017	12/14/90
TG-A449-0224-JW	04	0 - 6	Soil	D N E CHR		A449	EE95510	9003.017	12/14/90
TG-A450-0224-JW	04	6 - 12	Soil	D N E CHR		A450	EE95511	9003.017	12/14/90
TG-A451-0224-JW	05	0 - 6	Soil	D N E CHR		A451	EE95512	9003.017	12/14/90
TG-A452-0224-JW	05	6 - 12	Soil	D N E CHR		A452	EE95513	9003.017	12/14/90
TG-A453-0224-JW	05	6 - 12	Soil	D D E CHR		A453	EE95514	9003.017	12/14/90
TG-A454-0224-JW	06	0 - 6	Soil	D N E CHR		A454	EE95515	9003.017	12/14/90
TG-A455-0224-JW	06	6 - 12	Soil	D N E CHR		A455	EE95516	9003.017	12/14/90
TG-A456-0224-JW	07	0 - 6	Soil	D N E CHR		A456	EE95517	9003.017	12/14/90
TG-A457-0224-JW	07	6 - 12	Soil	D N E CHR		A457	EE95518	9003.017	12/14/90

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Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A458-0224-JW	08	0 - 6	Soil	D N E CHR		A458	EE95519	9003.017	12/14/90
TG-A459-0224-JW	08	6 - 12	Soil	D N E CHR		A459	EE95520	9003.017	12/14/90
TG-A469-0224-JWMV	01	0 - 6	Soil	D N E CHR		A469	EE95530	9003.017	12/14/90
TG-A470-0224-JWMV	01	6 - 12	Soil	D N E CHR		A470	EE95531	9003.017	12/14/90
TG-A341-0224-MB	01	0 - 6	Soil	C N E PCB		A341	EE95838	9003.060	12/19/90
TG-A342-0224-MB	01	6 - 12	Soil	C N E PCB		A342	EE95839	9003.060	12/19/90
TG-A343-0224-MB	02		Hexane Wipe	D N E PCB		A343	EE95829	9003.060	12/19/90
TG-M001-0224-MB	01	0 - 6	Soil	C N E MER		M001	EE00477	9100.053	01/08/91
TG-M002-0224-MB	02	0 - 6	Soil	C N E MER		M002	EE00478	9100.053	01/08/91
TG-M101-0224-BKFS			Soil	D F E MER		M101	EE00479	9100.053	01/08/91
TG-A355-0224-MLMV	01	0 - 6	Soil	D N E PCB		A355	EE95848	9003.060	12/19/90
TG-A356-0224-MLMV	01	0 - 6	Soil	D D E PCB		A356	EE95849	9003.060	12/19/90
TG-A357-0224-MLMV	02	0 - 6	Soil	D N E PCB		A357	EE95850	9003.060	12/19/90
TG-A358-0224-MLMV	03	0 - 6	Soil	D N E PCB		A358	EE95851	9003.060	12/19/90
TG-A614-0224-MW	01MW	0 - 6	Soil	D N E PCB		A614	EE91125	9002.733	11/10/90
TG-A615-0224-MW	01MW	60 - 66	Soil	D N E PCB		A615	EE91126	9002.733	11/10/90
TG-A616-0224-MW	04MW	0 - 6	Soil	D N E PCB		A616	EE91681	9002.754	11/10/90
TG-A617-0224-MW	04MW	60 - 66	Soil	D N E PCB		A617	EE91682	9002.754	11/10/90

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Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A618-0224-MW	04MW	120 - 126	Soil	D N E PCB		A618	EE91683	9002.754	11/10/90
TG-A619-0224-MW	04MW	180 - 186	Soil	D N E PCB		A619	EE91684	9002.754	11/10/90
TG-A620-0224-MW	05MW	0 - 6	Soil	D N E PCB		A620	EE91823	9002.761	11/12/90
TG-A621-0224-MW	05MW	60 - 66	Soil	D N E PCB		A621	EE91824	9002.761	11/12/90
TG-A622-0224-MW	05MW	120 - 126	Soil	D N E PCB		A622	EE91825	9002.761	11/12/90
TG-A623-0224-MW	02MW	0 - 6	Soil	D N E PCB		A623	EE91827	9002.761	11/13/90
TG-A624-0224-MW	02MW	60 - 66	Soil	D N E PCB		A624	EE91828	9002.761	11/13/90
TG-A625-0224-MW	02MW	120 - 126	Soil	D N E PCB		A625	EE91829	9002.761	11/13/90
TG-A626-0224-MW	03MW	0 - 6	Soil	D N E PCB		A626	EE92403	9002.799	11/14/90
TG-A627-0224-MW	03MW	60 - 66	Soil	D N E PCB		A627	EE92404	9002.799	11/14/90
TG-A628-0224-MW	03MW	120 - 126	Soil	D N E PCB		A628	EE92405	9002.799	11/14/90
TG-A629-0224-MW	03MW	180 - 186	Soil	D N E PCB		A629	EE92406	9002.799	11/14/90
TG-W101-0224-MWU	01MW		Water	D N E TCL,TAL,TOX,TPH		W101	EE00462	9100.052	01/08/91
TG-W102-0224-MWF	01MW		Water	D N E PCB,MET		W102	EE00470	9100.052	01/08/91
TG-W103-0224-MWU	02MW		Water	D N E TOX,TCL,CYN		W103	EE00463	9100.052	01/08/91
TG-W104-0224-MWF	02MW		Water	D N E PCB,MET		W104	EE00471	9100.052	01/08/91
TG-W105-0224-MWU	03MW		Water	D N E TOX,TCL,CYN		W105	EE00464	9100.052	01/08/91
TG-W106-0224-MWF	03MW		Water	D N E PCB,MET		W106	EE00472	9100.052	01/09/91

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Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-W107-0224-MWU	04MW		Water	D N E TOX,TCL,CYN		W107	EE00465	9100.052	01/09/91
TG-W108-0224-MWF	04MW		Water	D N E PCB,MET		W108	EE00473	9100.052	01/09/91
TG-W109-0224-MWU	05MW		Water	D N E TOX,TCL,CYN		W109	EE00466	9100.052	01/09/91
TG-W110-0224-MWF	05MW		Water	D N E PCB,MET		W110	EE00474	9100.052	01/08/91
TG-W111-0224-MWU	01MW		Water	D D E TOX,TCL,CYN		W111	EE00467	9100.052	01/08/91
TG-W112-0224-MWF	01MW		Water	D D E PCB,MET		W112	EE00475	9100.052	01/08/91
TG-W113-0224-BKFW			Water	D F E TOX,TCL,CYN		W113	EE00468	9100.052	01/08/91
TG-W114-0224-BKFW			Water	D F E PCB,MET		W114	EE00476	9100.052	01/08/91
TG-W115-0224-BKTW			Water	D T E VOA		W115	EE00469	9100.052	01/08/91
TG-A496-0224-OSA	01	0 – 6	Soil	D N E PCB		B496	EE07132	9100.731	03/29/91
TG-A497-0224-OSA	02	0 – 6	Soil	D N E PCB		B497	EE07133	9100.731	03/29/91
TG-A498-0224-OSA	03	0 – 6	Soil	D N E PCB		B498	EE07134	9100.731	03/29/91
TG-A499-0224-OSA	04	0 – 6	Soil	D N E PCB		B499	EE07135	9100.731	03/29/91
TG-A385-0224-POA	G01	0 – 6	Sediment	D N E PCB		A385	EE95869	9003.060	12/20/90
TG-A386-0224-POA	G01	0 – 6	Sediment	D D E PCB		A386	EE95870	9003.060	12/20/90
TG-A387-0224-POA	G02	0 – 6	Sediment	D N E PCB		A387	EE95871	9003.060	12/20/90
TG-A388-0224-POA	G03	0 – 6	Sediment	D N E PCB		A388	EE95872	9003.060	12/20/90
TG-A389-0224-POA	G04	0 – 6	Sediment	D N E PCB		A389	EE95873	9003.060	12/20/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A390-0224-POA	G05	0 - 6	Sediment	D N E PCB		A390	EE95874	9003.060	12/20/90
TG-A391-0224-POA	G06	0 - 6	Sediment	D N E PCB		A391	EE95875	9003.060	12/20/90
TG-A392-0224-POA	G07	0 - 6	Sediment	D N E PCB		A392	EE95876	9003.060	12/20/90
TG-A400-0224-POA	G08	0 - 6	Sediment	D N E TCL,CHR		A400	EE95820	9003.059	12/21/90
TG-B167-0224-POA	G01	6 - 12	Sediment	D N E PCB		B167	EE07055	9100.731	03/28/91
TG-B169-0224-POA	G04	6 - 12	Sediment	D N E PCB		B169	EE07056	9100.731	03/28/91
TG-B170-0224-POA	G04	12 - 24	Sediment	D N E PCB		B170	EE07057	9100.731	03/28/91
TG-B171-0224-POA	G04	12 - 24	Sediment	D D E PCB		B171	EE07058	9100.731	03/28/91
TG-B173-0224-POA	G05	6 - 12	Sediment	D N E PCB		B173	EE07059	9100.731	03/28/91
TG-B174-0224-POA	G05	12 - 24	Sediment	D N E PCB		B174	EE07060	9100.731	03/28/91
TG-B175-0224-POA	G06	6 - 12	Sediment	D N E PCB		B175	EE07061	9100.731	03/28/91
TG-B176-0224-POA	G06	12 - 24	Sediment	D N E PCB		B176	EE07062	9100.731	03/28/91
TG-B177-0224-POA	G07	6 - 12	Sediment	D N E PCB		B177	EE07063	9100.731	03/28/91
TG-B178-0224-POA	G07	12 - 24	Sediment	D N E PCB		B178	EE07064	9100.731	03/28/91
TG-B179-0224-POA	G08	6 - 12	Sediment	D N E PCB		B179	EE07065	9100.731	03/28/91
TG-B180-0224-POA	G09	0 - 6	Soil	D N E PCB		B180	EE07066	9100.731	03/28/91
TG-B181-0224-POA	G09	0 - 6	Soil	D D E PCB		B181	EE07067	9100.731	03/28/91
TG-B182-0224-POA	G10	0 - 6	Soil	D N E PCB		B182	EE07068	9100.731	03/28/91

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Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B183-0224-POA	G10	6 - 12	Soil	D N E PCB		B183	EE07069	9100.731	03/28/91
TG-B184-0224-POA	G11	0 - 6	Soil	D N E PCB		B184	EE07070	9100.731	03/28/91
TG-B185-0224-POA	G11	6 - 12	Soil	D N E PCB		B185	EE07071	9100.731	03/28/91
TG-B186-0224-POA	G12	0 - 6	Soil	D N E PCB		B186	EE07072	9100.731	03/28/91
TG-B187-0224-POA	G12	6 - 12	Soil	D N E PCB		B187	EE07073	9100.731	03/28/91
TG-B188-0224-POA	G13	0 - 6	Soil	D N E PCB		B188	EE07074	9100.731	03/28/91
TG-B189-0224-POA	G13	6 - 12	Soil	D N E PCB		B189	EE07075	9100.731	03/28/91
TG-B190-0224-POA	G14	0 - 6	Soil	D N E PCB		B190	EE07076	9100.731	03/28/91
TG-B191-0224-POA	G14	6 - 12	Soil	D N E PCB		B191	EE07077	9100.731	03/28/91
TG-B192-0224-POA	G14	6 - 12	Soil	D D E PCB		B192	EE07078	9100.731	03/28/91
TG-B193-0224-POA	G15	0 - 6	Soil	D N E PCB		B193	EE07079	9100.731	03/28/91
TG-B194-0224-POA	G15	6 - 12	Soil	D N E PCB		B194	EE07080	9100.731	03/28/91
TG-B195-0224-POA	G16	0 - 6	Soil	D N E PCB		B195	EE07081	9100.731	03/28/91
TG-B196-0224-POA	G16	6 - 12	Soil	D N E PCB		B196	EE07082	9100.731	03/28/91
TG-B197-0224-POA	G17	0 - 6	Soil	D N E PCB		B197	EE07083	9100.731	03/28/91
TG-B198-0224-POA	G17	6 - 12	Soil	D N E PCB		B198	EE07084	9100.731	03/28/91
TG-B199-0224-POA	G18	0 - 6	Soil	D N E PCB		B199	EE07085	9100.731	03/28/91
TG-B200-0224-POA	G18	6 - 12	Soil	D N E PCB		B200	EE07086	9100.731	03/28/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B201-0224-POA	G19	0 - 6	Soil	D N E PCB		B201	EE07087	9100.731	03/28/91
TG-B202-0224-POA	G19	6 - 12	Soil	D N E PCB		B202	EE07088	9100.731	03/28/91
TG-B203-0224-POA	G19	6 - 12	Soil	D D E PCB		B203	EE07089	9100.731	03/28/91
TG-B204-0224-POA	G20	0 - 6	Soil	D N E PCB		B204	EE07090	9100.731	03/28/91
TG-B205-0224-POA	G20	6 - 12	Soil	D N E PCB		B205	EE07091	9100.731	03/28/91
TG-A246-0224-PTAB	01	0 - 6	Soil	D N E PCB		A246	EE95477	9003.017	12/14/90
TG-A247-0224-PTAB	01	6 - 12	Soil	D N E PCB		A247	EE95478	9003.017	12/14/90
TG-A248-0224-PTAB	02	0 - 6	Soil	D N E PCB		A248	EE95479	9003.017	12/14/90
TG-A249-0224-PTAB	02	6 - 12	Soil	D N E PCB		A249	EE95480	9003.017	12/14/90
TG-A250-0224-PTAB	03	0 - 6	Soil	D N E PCB		A250	EE95481	9003.017	12/14/90
TG-A251-0224-PTAB	03	6 - 12	Soil	D N E PCB		A251	EE95482	9003.017	12/14/90
TG-A252-0224-PTAB	04	0 - 6	Soil	D N E PCB		A252	EE95483	9003.017	12/14/90
TG-A253-0224-PTAB	04	6 - 12	Soil	D N E PCB		A253	EE95484	9003.017	12/14/90
TG-A254-0224-PTAB	05	0 - 6	Soil	D N E PCB		A254	EE95485	9003.017	12/14/90
TG-A255-0224-PTAB	05	0 - 6	Soil	D D E PCB		A255	EE95486	9003.017	12/14/90
TG-A256-0224-PTAB	05	6 - 12	Soil	D N E PCB		A256	EE95487	9003.017	12/14/90
TG-A257-0224-PTAB	06	0 - 6	Soil	D N E PCB		A257	EE95488	9003.017	12/14/90
TG-A258-0224-PTAB	06	6 - 12	Soil	D N E PCB		A258	EE95489	9003.017	12/14/90

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Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A259-0224-PTAB	07	0 - 6	Soil	D N E PCB		A259	EE95490	9003.017	12/14/90
TG-A260-0224-PTAB	07	6 - 12	Soil	D N E PCB		A260	EE95491	9003.017	12/14/90
TG-A261-0224-PTAB	08	0 - 6	Soil	D N E PCB		A261	EE95492	9003.017	12/14/90
TG-A262-0224-PTAB	08	6 - 12	Soil	D N E PCB		A262	EE95493	9003.017	12/14/90
TG-A263-0224-PTAB	09	0 - 6	Soil	D N E PCB		A263	EE95494	9003.017	12/14/90
TG-A264-0224-PTAB	09	6 - 12	Soil	D N E PCB		A264	EE95495	9003.017	12/14/90
TG-A265-0224-PTAB	10	0 - 6	Soil	D N E PCB		A265	EE95496	9003.017	12/14/90
TG-A266-0224-PTAB	10	6 - 12	Soil	D N E PCB		A266	EE95497	9003.017	12/14/90
TG-A267-0224-PTAB	10	6 - 12	Soil	D D E PCB		A267	EE95498	9003.017	12/14/90
TG-A268-0224-PTAB	11	0 - 6	Soil	D N E PCB		A268	EE95499	9003.017	12/14/90
TG-A269-0224-PTAB	11	6 - 12	Soil	D N E PCB		A269	EE95500	9003.017	12/14/90
TG-A270-0224-PTAB	12	0 - 6	Soil	D N E PCB		A270	EE95501	9003.017	12/14/90
TG-A271-0224-PTAB	12	6 - 12	Soil	D N E PCB		A271	EE95502	9003.017	12/14/90
TG-A272-0224-PTAB	13	0 - 6	Soil	D N E PCB		A272	EE95693	9003.045	12/17/90
TG-A274-0224-PTAB	14	0 - 6	Soil	D N E PCB		A274	EE95694	9003.045	12/17/90
TG-A275-0224-PTAB	14	6 - 12	Soil	D N E PCB		A275	EE95695	9003.045	12/17/90
TG-A276-0224-PTAB	15	0 - 6	Soil	D N E PCB		A276	EE95696	9003.045	12/17/90
TG-A277-0224-PTAB	15	0 - 6	Soil	D D E PCB		A277	EE95697	9003.045	12/17/90

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Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A278-0224-PTAB	15	6 - 12	Soil	D N E PCB		A278	EE95698	9003.045	12/17/90
TG-A279-0224-PTAB	16	0 - 6	Soil	D N E PCB		A279	EE95699	9003.045	12/17/90
TG-A280-0224-PTAB	16	6 - 12	Soil	D N E PCB		A280	EE95700	9003.045	12/17/90
TG-A281-0224-PTAB	17	0 - 6	Soil	D N E PCB		A281	EE95701	9003.045	12/17/90
TG-A282-0224-PTAB	17	6 - 12	Soil	D N E PCB		A282	EE95702	9003.045	12/17/90
TG-A283-0224-PTAB	18	0 - 6	Soil	D N E PCB		A283	EE95703	9003.045	12/17/90
TG-A285-0224-PTAB	19	0 - 6	Soil	D N E PCB		A285	EE95704	9003.045	12/17/90
TG-A286-0224-PTAB	19	6 - 12	Soil	D N E PCB		A286	EE95705	9003.045	12/17/90
TG-A287-0224-PTAB	20	0 - 6	Soil	D N E PCB		A287	EE95706	9003.045	12/17/90
TG-A288-0224-PTAB	20	6 - 12	Soil	D N E PCB		A288	EE95707	9003.045	12/17/90
TG-A289-0224-PTAB	20	6 - 12	Soil	D D E PCB		A289	EE95708	9003.045	12/17/90
TG-A290-0224-PTAB	21	0 - 6	Soil	D N E PCB		A290	EE95709	9003.045	12/17/90
TG-A291-0224-PTAB	21	6 - 12	Soil	D N E PCB		A291	EE95710	9003.045	12/17/90
TG-A292-0224-PTAB	22	0 - 6	Soil	D N E PCB		A292	EE95711	9003.045	12/17/90
TG-A293-0224-PTAB	22	6 - 12	Soil	D N E PCB		A293	EE95712	9003.045	12/17/90
TG-A294-0224-PTAB	23	0 - 6	Soil	D N E PCB		A294	EE95713	9003.045	12/17/90
TG-A295-0224-PTAB	23	6 - 12	Soil	D N E PCB		A295	EE95714	9003.045	12/17/90
TG-A296-0224-PTAB	24	0 - 6	Soil	D N E PCB		A296	EE95715	9003.045	12/17/90

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A297-0224-PTAB	24	6 - 12	Soil	D N E PCB		A297	EE95716	9003.045	12/17/90
TG-A298-0224-PTAB	25	0 - 6	Soil	D N E PCB		A298	EE95717	9003.045	12/17/90
TG-A299-0224-PTAB	25	6 - 12	Soil	D N E PCB		A299	EE95718	9003.045	12/17/90
TG-A300-0224-PTAB	25	6 - 12	Soil	D D E PCB		A300	EE95719	9003.045	12/17/90
TG-B145-0224-PTAB	13	6 - 12	Soil	D N E PCB		B145	EE06858	9100.719	03/27/91
TG-B146-0224-PTAB	26	0 - 6	Soil	D N E PCB		B146	EE06859	9100.719	03/27/91
TG-B147-0224-PTAB	27	0 - 6	Soil	D N E PCB		B147	EE06860	9100.719	03/27/91
TG-B148-0224-PTAB	28	0 - 6	Soil	D N E PCB		B148	EE06861	9100.719	03/27/91
TG-B149-0224-PTAB	28	0 - 6	Soil	D D E PCB		B149	EE06862	9100.719	03/27/91
TG-B150-0224-PTAB	29	0 - 6	Soil	D N E PCB		B150	EE06863	9100.719	03/27/91
TG-B151-0224-PTAB	30	0 - 6	Soil	D N E PCB		B151	EE06864	9100.719	03/27/91
TG-B152-0224-PTAB	31	0 - 6	Soil	D N E PCB		B152	EE06865	9100.719	03/27/91
TG-B153-0224-PTAB	31	6 - 12	Soil	D N E PCB		B153	EE06866	9100.719	03/27/91
TG-B154-0224-PTAB	32	0 - 6	Soil	D N E PCB		B154	EE06867	9100.719	03/27/91
TG-B155-0224-PTAB	32	6 - 12	Soil	D N E PCB		B155	EE06868	9100.719	03/27/91
TG-B156-0224-PTAB	33	0 - 6	Soil	D N E PCB		B156	EE06869	9100.719	03/27/91
TG-B157-0224-PTAB	33	6 - 12	Soil	D N E PCB		B157	EE06870	9100.719	03/27/91
TG-B158-0224-PTAB	34	0 - 6	Soil	D N E PCB		B158	EE06871	9100.719	03/27/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B159-0224-PTAB	34	6 - 12	Soil	D N E PCB		B159	EE06872	9100.719	03/27/91
TG-B160-0224-PTAB	34	6 - 12	Soil	D D E PCB		B160	EE06873	9100.719	03/27/91
TG-B161-0224-PTAB	35	0 - 6	Soil	D N E PCB		B161	EE06874	9100.719	03/27/91
TG-B163-0224-PTAB	36	0 - 6	Soil	D N E PCB		B163	EE07051	9100.731	03/28/91
TG-B164-0224-PTAB	36	6 - 12	Soil	D N E PCB		B164	EE07052	9100.731	03/28/91
TG-B165-0224-PTAB	37	0 - 6	Soil	D N E PCB		B165	EE07053	9100.731	03/28/91
TG-B166-0224-PTAB	37	6 - 12	Soil	D N E PCB		B166	EE07054	9100.731	03/28/91
TG-A336-0224-SCA	01	0 - 6	Soil	D N E PCB		A336	EE95833	9003.060	12/19/90
TG-A337-0224-SCA	02	0 - 6	Soil	D N E PCB		A337	EE95834	9003.060	12/19/90
TG-A601-0224-SCA	01BH	0 - 24	Soil	D N E TCL		A601	EE91695	9002.755	11/11/90
TG-A602-0224-SCA	01BH	24 - 48	Soil	D N E TCL		A602	EE91696	9002.755	11/11/90
TG-A603-0224-SCA	01BH	48 - 72	Soil	D N E TCL		A603	EE91697	9002.755	11/11/90
TG-A604-0224-SCA	01BH	72 - 96	Soil	D N E TCL		A604	EE91698	9002.755	11/11/90
TG-A605-0224-SCA	02BH	0 - 24	Soil	D N E TCL		A605	EE91692	9002.755	11/11/90
TG-A606-0224-SCA	02BH	24 - 48	Soil	D N E TCL		A606	EE91693	9002.755	11/11/90
TG-A607-0224-SCA	02BH	48 - 72	Soil	D N E TCL		A607	EE91699	9002.755	11/11/90
TG-A608-0224-SCA	02BH	72 - 96	Soil	D N E TCL		A608	EE91694	9002.755	11/11/90
TG-A609-0224-SCA	03BH	0 - 24	Soil	D N E TCL		A609	EE91687	9002.755	11/11/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A610-0224-SCA	03BH	24 - 48	Soil	D N E TCL		A610	EE91688	9002.755	11/11/90
TG-A611-0224-SCA	03BH	48 - 72	Soil	D N E TCL		A611	EE91689	9002.755	11/11/90
TG-A612-0224-SCA	03BH	72 - 96	Soil	D N E TCL		A612	EE91690	9002.755	11/11/90
TG-A613-0224-SCA	03BH	72 - 96	Soil	D D E TCL		A613	EE91691	9002.755	11/11/90
TG-A338-0224-SCB	01	0 - 6	Soil	D N E PCB		A338	EE95835	9003.060	12/19/90
TG-A339-0224-SCB	02	0 - 6	Soil	D N E PCB		A339	EE95836	9003.060	12/19/90
TG-A340-0224-SCB	02	0 - 6	Soil	D D E PCB		A340	EE95837	9003.060	12/19/90
TG-A359-0224-TKCC	04	0 - 6	Soil	D N E PCB		A359	EE95852	9003.060	12/19/90
TG-A360-0224-TKCC	05	0 - 6	Soil	D N E PCB		A360	EE95853	9003.060	12/19/90
TG-A361-0224-TKCC	06	0 - 6	Soil	D N E PCB		A361	EE95854	9003.060	12/19/90
TG-A362-0224-TKAW	01	0 - 6	Soil	D N E PCB		A362	EE95855	9003.060	12/19/90
TG-A363-0224-TKAW	01	6 - 12	Soil	D N E PCB		A363	EE95856	9003.060	12/19/90
TG-A364-0224-TKAW	02	0 - 6	Soil	D N E PCB		A364	EE95857	9003.060	12/19/90
TG-A365-0224-TKAW	02	6 - 12	Soil	D N E PCB		A365	EE95858	9003.060	12/19/90
TG-A366-0224-TKAW	03	0 - 6	Soil	D N E PCB		A366	EE95859	9003.060	12/19/90
TG-A367-0224-TKAW	03	6 - 12	Soil	D N E PCB		A367	EE95860	9003.060	12/19/90
TG-A368-0224-TKAW	04	0 - 6	Soil	D N E PCB		A368	EE95861	9003.060	12/19/90
TG-A369-0224-TKAW	04	6 - 12	Soil	D N E PCB		A369	EE95862	9003.060	12/19/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A422-0224-TRAO	19	0 - 6	Sediment	D N E PCB		A422	EE95894	9003.060	12/20/90
TG-A423-0224-TRAO	19	0 - 6	Sediment	D D E PCB		A423	EE95895	9003.060	12/20/90
TG-A424-0224-TRAO	20	0 - 6	Sediment	D N E PCB		A424	EE95896	9003.060	12/20/90
TG-A425-0224-TRAO	21	0 - 6	Sediment	D N E PCB		A425	EE95897	9003.060	12/20/90
TG-A426-0224-TRAO	22	0 - 6	Sediment	D N E PCB		A426	EE95898	9003.060	12/20/90
TG-A427-0224-TRAO	23	0 - 6	Sediment	D N E PCB		A427	EE95899	9003.060	12/20/90
TG-A428-0224-TRAO	24	0 - 6	Sediment	D N E PCB		A428	EE95900	9003.060	12/20/90
TG-A429-0224-TRAO	25		Water	D N E PCB		A429	EE95913	9003.060	12/20/90
TG-A430-0224-TRAO	25		Water	D D E PCB		A430	EE95914	9003.060	12/20/90
TG-A431-0224-TRAO	25	0 - 6	Sediment	D N E TCL,CHR		A431	EE95823	9003.059	12/21/90
TG-A432-0224-TRAO	26		Water	D N E PCB		A432	EE95915	9003.060	12/20/90
TG-A433-0224-TRAO	26	0 - 6	Sediment	D N E TCL		A433	EE95824	9003.059	12/21/90
TG-A480-0224-TRAO	40	0 - 6	Sediment	D N E PCB		B480	EE07118	9100.731	03/29/91
TG-A481-0224-TRAO	41	0 - 6	Sediment	D N E PCB		B481	EE07119	9100.731	03/29/91
TG-A482-0224-TRAO	42	0 - 6	Sediment	D N E PCB		B482	EE07120	9100.731	03/28/91
TG-A483-0224-TRAO	43	0 - 6	Sediment	D N E PCB		B483	EE07121	9100.731	03/28/91
TG-A484-0224-TRAO	44	0 - 6	Sediment	D N E PCB		B484	EE07122	9100.731	03/28/91
TG-A485-0224-TRAO	45	0 - 6	Sediment	D N E PCB		B485	EE07123	9100.731	03/29/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B214-0224-TKCC	09	6 - 12	Soil	D N E PCB		B214	EE07100	9100.731	03/28/91
TG-B215-0224-TKCC	09	6 - 12	Soil	D D E PCB		B215	EE07101	9100.731	03/28/91
TG-B216-0224-TKAW	02	12 - 24	Soil	D N E PCB		B216	EE07102	9100.731	03/28/91
TG-B217-0224-TKAW	05	0 - 6	Soil	D N E PCB		B217	EE07103	9100.731	03/28/91
TG-B218-0224-TKAW	05	6 - 12	Soil	D N E PCB		B218	EE07104	9100.731	03/28/91
TG-B219-0224-TKAW	06	0 - 6	Soil	D N E PCB		B219	EE07105	9100.731	03/28/91
TG-B220-0224-TKAW	06	6 - 12	Soil	D N E PCB		B220	EE07106	9100.731	03/28/91
TG-B221-0224-TKAW	07	0 - 6	Soil	D N E PCB		B221	EE07107	9100.731	03/28/91
TG-B222-0224-TKAW	08	0 - 6	Soil	D N E PCB		B222	EE07108	9100.731	03/28/91
TG-B223-0224-TKAW	09	0 - 6	Soil	D N E PCB		B223	EE07109	9100.731	03/28/91
TG-B224-0224-TKAW	10	0 - 6	Soil	D N E PCB		B224	EE07110	9100.731	03/28/91
TG-B225-0224-TKAW	11	0 - 6	Soil	D N E PCB		B225	EE07111	9100.731	03/28/91
TG-B226-0224-TKAW	12	0 - 6	Soil	D N E PCB		B226	EE07112	9100.731	03/28/91
TG-B227-0224-TKAW	13	0 - 6	Soil	D N E PCB		B227	EE07113	9100.731	03/28/91
TG-B228-0224-TKAW	13	0 - 6	Soil	D D E PCB		B228	EE07114	9100.731	03/28/91
TG-A401-0224-TRAO	01		Water	D N E PCB		A401	EE95911	9003.060	12/20/90
TG-A402-0224-TRAO	01	0 - 6	Sediment	D N E TCL,CHR		A402	EE95821	9003.059	12/21/90
TG-A403-0224-TRAO	02	0 - 6	Sediment	D N E PCB		A403	EE95877	9003.060	12/20/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A404-0224-TRAO	03	0 - 6	Sediment	D N E PCB		A404	EE95878	9003.060	12/20/90
TG-A405-0224-TRAO	04	0 - 6	Sediment	D N E PCB		A405	EE95879	9003.060	12/20/90
TG-A406-0224-TRAO	05	0 - 6	Sediment	D N E PCB		A406	EE95880	9003.060	12/20/90
TG-A407-0224-TRAO	06	0 - 6	Sediment	D N E PCB		A407	EE95881	9003.060	12/20/90
TG-A408-0224-TRAO	07	0 - 6	Sediment	D N E PCB		A408	EE95882	9003.060	12/20/90
TG-A409-0224-TRAO	08	0 - 6	Sediment	D N E PCB		A409	EE95883	9003.060	12/20/90
TG-A410-0224-TRAO	09	0 - 6	Sediment	D N E PCB		A410	EE95884	9003.060	12/20/90
TG-A411-0224-TRAO	09	0 - 6	Sediment	D D E PCB		A411	EE95885	9003.060	12/20/90
TG-A412-0224-TRAO	10	0 - 6	Sediment	D N E PCB		A412	EE95886	9003.060	12/20/90
TG-A413-0224-TRAO	11	0 - 6	Sediment	D N E PCB		A413	EE95887	9003.060	12/20/90
TG-A414-0224-TRAO	12	0 - 6	Sediment	D N E PCB		A414	EE95888	9003.060	12/20/90
TG-A415-0224-TRAO	13	0 - 6	Sediment	D N E PCB		A415	EE95889	9003.060	12/20/90
TG-A416-0224-TRAO	14	0 - 6	Sediment	D N E PCB		A416	EE95890	9003.060	12/20/90
TG-A417-0224-TRAO	15	0 - 6	Sediment	D N E PCB		A417	EE95891	9003.060	12/20/90
TG-A418-0224-TRAO	16		Water	D N E PCB		A418	EE95912	9003.060	12/20/90
TG-A419-0224-TRAO	16	0 - 6	Sediment	D N E TCL,CHR		A419	EE95822	9003.059	12/21/90
TG-A420-0224-TRAO	17	0 - 6	Sediment	D N E PCB		A420	EE95892	9003.060	12/20/90
TG-A421-0224-TRAO	18	0 - 6	Sediment	D N E PCB		A421	EE95893	9003.060	12/20/90

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A422-0224-TRAO	19	0 - 6	Sediment	D N E PCB		A422	EE95894	9003.060	12/20/90
TG-A423-0224-TRAO	19	0 - 6	Sediment	D D E PCB		A423	EE95895	9003.060	12/20/90
TG-A424-0224-TRAO	20	0 - 6	Sediment	D N E PCB		A424	EE95896	9003.060	12/20/90
TG-A425-0224-TRAO	21	0 - 6	Sediment	D N E PCB		A425	EE95897	9003.060	12/20/90
TG-A426-0224-TRAO	22	0 - 6	Sediment	D N E PCB		A426	EE95898	9003.060	12/20/90
TG-A427-0224-TRAO	23	0 - 6	Sediment	D N E PCB		A427	EE95899	9003.060	12/20/90
TG-A428-0224-TRAO	24	0 - 6	Sediment	D N E PCB		A428	EE95900	9003.060	12/20/90
TG-A429-0224-TRAO	25		Water	D N E PCB		A429	EE95913	9003.060	12/20/90
TG-A430-0224-TRAO	25		Water	D D E PCB		A430	EE95914	9003.060	12/20/90
TG-A431-0224-TRAO	25	0 - 6	Sediment	D N E TCL,CHR		A431	EE95823	9003.059	12/21/90
TG-A432-0224-TRAO	26		Water	D N E PCB		A432	EE95915	9003.060	12/20/90
TG-A433-0224-TRAO	26	0 - 6	Sediment	D N E TCL		A433	EE95824	9003.059	12/21/90
TG-A480-0224-TRAO	40	0 - 6	Sediment	D N E PCB		B480	EE07118	9100.731	03/29/91
TG-A481-0224-TRAO	41	0 - 6	Sediment	D N E PCB		B481	EE07119	9100.731	03/29/91
TG-A482-0224-TRAO	42	0 - 6	Sediment	D N E PCB		B482	EE07120	9100.731	03/28/91
TG-A483-0224-TRAO	43	0 - 6	Sediment	D N E PCB		B483	EE07121	9100.731	03/28/91
TG-A484-0224-TRAO	44	0 - 6	Sediment	D N E PCB		B484	EE07122	9100.731	03/28/91
TG-A485-0224-TRAO	45	0 - 6	Sediment	D N E PCB		B485	EE07123	9100.731	03/29/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-A486-0224-TRAO	46	0 - 6	Sediment	D N E PCB		B486	EE07124	9100.731	03/29/91
TG-A487-0224-TRAO	47	0 - 6	Sediment	D N E PCB		B487	EE07125	9100.731	03/29/91
TG-A488-0224-TRAO	48	0 - 6	Sediment	D N E PCB		B488	EE07126	9100.731	03/28/91
TG-A489-0224-TRAF	49	0 - 6	Sediment	D N E PCB		B489	EE07127	9100.731	03/29/91
TG-A490-0224-TRAF	49		Water	D N E PCB		A490	EE07303	9100.750	04/02/91
TG-A491-0224-TRAF	50	0 - 6	Sediment	D N E PCB		B491	EE07128	9100.731	03/29/91
TG-A492-0224-TRAF	50	0 - 6	Sediment	D D E PCB		B492	EE07129	9100.731	03/29/91
TG-A493-0224-TRAF	51	0 - 6	Sediment	D N E PCB		B493	EE07130	9100.731	03/29/91
TG-A495-0224-TRAF	52	0 - 6	Sediment	D N E PCB		B495	EE07131	9100.731	03/29/91
TG-B230-0224-TRAO	02	6 - 12	Sediment	D N E PCB		B230	EE07304	9100.751	04/02/91
TG-B231-0224-TRAO	03	6 - 12	Sediment	D N E PCB		B231	EE07305	9100.751	04/02/91
TG-B232-0224-TRAO	04	6 - 12	Sediment	D N E PCB		B232	EE07306	9100.751	04/02/91
TG-B233-0224-TRAO	05	6 - 12	Sediment	D N E PCB		B233	EE07307	9100.751	04/02/91
TG-B234-0224-TRAO	06	6 - 12	Sediment	D N E PCB		B234	EE07308	9100.751	04/02/91
TG-B235-0224-TRAO	07	6 - 12	Sediment	D N E PCB		B235	EE07309	9100.751	04/02/91
TG-B237-0224-TRAO	10	6 - 12	Sediment	D N E PCB		B237	EE07310	9100.751	04/02/91
TG-B239-0224-TRAO	10	6 - 12	Sediment	D D E PCB		B239	EE07311	9100.751	04/02/91
TG-B240-0224-TRAO	12	6 - 12	Sediment	D N E PCB		B240	EE07312	9100.751	04/02/91

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Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*	Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B241-0224-TRAO	13	6 - 12	Sediment	D N E PCB		B241	EE07313	9100.751	04/02/91
TG-B242-0224-TRAO	15	6 - 12	Sediment	D N E PCB		B242	EE07314	9100.751	04/02/91
TG-B244-0224-TRAO	19	6 - 12	Sediment	D N E PCB		B244	EE07315	9100.751	04/02/91
TG-B245-0224-TRAO	20	6 - 12	Sediment	D N E PCB		B245	EE07316	9100.751	04/02/91
TG-B246-0224-TRAO	22	6 - 12	Sediment	D N E PCB		B246	EE07317	9100.751	04/02/91
TG-B248-0224-TRAO	23	6 - 12	Sediment	D N E PCB		B248	EE07318	9100.751	04/02/91
TG-B250-0224-TRAO	23	6 - 12	Sediment	D D E PCB		B250	EE07319	9100.751	04/02/91
TG-B251-0224-TRAO	24	6 - 12	Sediment	D N E PCB		B251	EE07320	9100.751	04/02/91
TG-B252-0224-TRAO	27	0 - 6	Sediment	D N E PCB		B252	EE07321	9100.751	04/02/91
TG-B253-0224-TRAO	28	0 - 6	Sediment	D N E PCB		B253	EE07322	9100.751	04/02/91
TG-B254-0224-TRAO	28	6 - 12	Sediment	D N E PCB		B254	EE07323	9100.751	04/02/91
TG-B255-0224-TRAO	29	0 - 6	Sediment	D N E PCB		B255	EE07324	9100.751	04/02/91
TG-B256-0224-TRAO	30	0 - 6	Sediment	D N E PCB		B256	EE07325	9100.751	04/02/91
TG-B257-0224-TRAO	31	0 - 6	Sediment	D N E PCB		B257	EE07326	9100.751	04/02/91
TG-B258-0224-TRAO	32	0 - 6	Sediment	D N E PCB		B258	EE07327	9100.751	04/02/91
TG-B259-0224-TRAO	33	0 - 6	Sediment	D N E PCB		B259	EE07328	9100.751	04/02/91
TG-B260-0224-TRAO	33	0 - 6	Sediment	D D E PCB		B260	EE07329	9100.751	04/02/91
TG-B261-0224-TRAO	34	0 - 6	Sediment	D N E PCB		B261	EE07330	9100.751	04/02/91

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Key at end of table.

Appendix B (Cont.)

Sample Number	Sample Node	Sample Depth (inches)	Matrix	Sample Description*				Composite Sample Nodes	Original Sample Number	Lab Sample Number	Lab Job Number	Sample Date
TG-B262-0224-TRAO	35	0 - 6	Sediment	D	N	E	PCB		B262	EE07331	9100.751	04/02/91
TG-B263-0224-TRAO	36	0 - 6	Sediment	D	N	E	PCB		B263	EE07332	9100.751	04/02/91
TG-B264-0224-TRAO	37	0 - 6	Sediment	D	N	E	PCB		B264	EE07333	9100.751	04/02/91
TG-B265-0224-TRAO	38	0 - 6	Sediment	D	N	E	PCB		B265	EE07334	9100.751	04/02/91
TG-B266-0224-TRAO	39	0 - 6	Sediment	D	N	E	PCB		B266	EE07335	9100.751	04/02/91
TG-B267-0224-TRAO	39	6 - 12	Sediment	D	N	E	PCB		B267	EE07336	9100.751	04/02/91
TG-B268-0224-TRAO	39	6 - 12	Sediment	D	D	E	PCB		B268	EE07337	9100.751	04/02/91
TG-B281-0224-TRAO	25		Water	D	N	E	PCB		B281	EE07301	9100.750	04/02/91

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Key:

*Sample description is divided into four columns.

Column 1: Type

C = Composite
D = Discrete

Column 2: QA/QC

D = Duplicate
F = Field/rinsate blank
N = Not a QA/QC sample
S = Split
T = Trip blank

Column 3: Lab

E = E & E ASC
S = Subcontractor lab

Column 4: Analysis

CHR = Chromium
CYN = Total cyanide
GCH = General chemistry (TOC, TOX, TDS, TPH)
TCL = Target Compound List/Target Analyte List
MER = Mercury
MET = Metals only
PCB = Polychlorinated biphenyls
VOA = Volatile organic analytes

Source: Ecology and Environment, Inc. 1991.

APPENDIX C

ANALYTICAL PROCEDURES

ANALYTICAL PROCEDURES

All analyses for TCL/TAL compounds were performed according to analytical procedures for RCRA samples as specified in Test Methods for Evaluating Solid Waste (Physical/Chemical Methods), SW-846, Third Edition, September 1986. For PCB-only analysis of soil samples, analytical procedures have been modified to be consistent with the data quality objectives.

Table C-1 lists all analyses which were performed by E & E's ASC for this project. For each analysis, the following information is listed:

- o Parameter name;
- o Reference and method numbers;
- o A brief description of the method;
- o The matrix (soil [S] or water [W]) applicable to that method; and
- o The detection limit.

Tables C-2 through C-5 list detection limits (DL) for all multi-component analyses. Specific DLs for PCBs are highly matrix-dependent and those provided may not always be achievable. In the event that the DLs listed are not met, DLs will be determined pursuant to 40 CFR, Part 136, Appendix B.

Methodology references contain specific QC criteria associated with the particular methods. These specific requirements include calibration, tuning, and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

Table C-1

QA OBJECTIVE SUMMARY

Method Reference	Method Number	Brief Description of Method	Matrix (S/W/Sed)	Detection Limit
Cyanide-Total				
EP	335.2	Spectrophotometric	W	0.01 mg/L
SW	9010	Colorimetric	S	1 mg/kg
Petroleum Hydrocarbons				
EP	418.1	Total Recoverable Spectrophotometric Infrared	W	1 mg/L
Residue-TDS				
EP	160.1	Filterable Gravimetric Dried 180°C	W	10 mg/L
TOC				
EP	415.1	Catalytic Com- bustion, Infrared Detection	W	1 mg/L
TOX				
SW	9020	Carbon Adsorption, Microcoulometric titration	W	5 µg/L
Aluminum				
SW	6010	ICP	W	100 µg/L
SW	6010	ICP	S	20 mg/kg
Antimony				
SW	6010	ICP	W	60 µg/L
SW	6010	ICP	S	6 mg/kg
Arsenic				
SW	7060	FurnaceAA	W	5 µg/L
SW	7060	Furnace AA	S	0.1 mg/kg
SW	6010	ICP	W	200 µg/L

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Table C-1 (Cont.)

Method Reference	Method Number	Brief Description of Method	Matrix (S/W/Sed)	Detection Limit
Barium				
SW	6010	ICP	W	10 μg/L
SW	6010	ICP	S	1.0 mg/kg
Beryllium				
SW	6010	ICP	W	2 μg/L
SW	6010	ICP	S	0.5 mg/kg
Cadmium				
SW	6010	ICP	W	5 μg/L
SW	6010	ICP	S	0.5 mg/kg
Calcium				
SW	6010	ICP	W	1,000 μg/L
SW	6010	ICP	S	100 mg/kg
Chromium				
SW	6010	ICP	W	10 μg/L
SW	6010	ICP	S	1.0 mg/kg
Chromium - Hexavalent				
SW	7195		W	10 μg/L
			S	2.0 mg/kg
Cobalt				
SW	6010	ICP	W	10 μg/L
SW	6010	ICP	S	1.0 mg/kg
Copper				
SW	6010	ICP	W	10 μg/L
SW	6010	ICP	S	1.0 mg/kg
Iron				
SW	6010	ICP	S	2.5 mg/kg

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Table C-1 (Cont.)

Method Reference	Method Number	Brief Description of Method	Matrix (S/W/Sed)	Detection Limit
Lead				
SW	7421	Furnace AA	W	5 μg/L
SW	7421	Furnace AA	S	0.5 mg/kg
SW	6010	ICP	W	50 μg/L
SW	6010	ICP	S	5.0 mg/kg
Magnesium				
SW	6010	ICP	W	1,000 μg/L
SW	6010	ICP	S	100 mg/kg
Manganese				
SW	6010	ICP	W	5 μg/L
SW	6010	ICP	S	0.5 mg/kg
Mercury				
SW	7470	Cold Vapor-Liquid	W	0.2 μg/L
SW	7471	Cold Vapor-Solid	S	0.1 mg/kg
Nickel				
SW	6010	ICP	W	15 μg/L
SW	6010	ICP	S	1.5 mg/kg
Potassium				
SW	6010	ICP	W	1,000 μg/L
SW	6010	ICP	S	100 mg/kg
Selenium				
SW	7740	Furnace AA	W	5 μg/L
SW	7740	Furnace AA	S	0.5 mg/kg
SW	6010	ICP	W	200 μg/L
Silver				
SW	6010	ICP	W	10 μg/L
SW	6010	ICP	S	1.0 mg/kg

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Table C-1 (Cont.)

Method Reference	Method Number	Brief Description of Method	Matrix (S/W/Sed)	Detection Limit
Sodium				
SW	6010	ICP	W	1,000 µg/L
SW	6010	ICP	S	100 mg/kg
Thallium				
SW	7841	Furnace AA	W	5 µg/L
SW	7841	Furnace AA	S	0.5 mg/kg
Vanadium				
SW	6010	ICP	W	10 µg/L
SW	6010	ICP	S	1.0 mg/kg
Zinc				
SW	6010	ICP	W	10 µg/L
SW	6010	ICP	S	1.0 mg/kg
Base/Neutral/Acid Extractables				
SW	8270	Extraction, GC/MS	S/W	C-2/C-3
Volatile Organic Compounds				
SW	8240	Purge and trap, GC/MS	S/W	C-4
Pesticides/PCBs				
SW	8080	Extraction, GC/ECD	S/W	C-5
PCBs				
SW	8080*	Extraction, GC/ECD	W	0.5 µg/L
SW	8080*	Extraction, GC/ECD	S	1.0 mg/kg
SW	8080*	Extraction, GC/ECD	Sed	0.1 mg/kg

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Detection limits are target values and may be affected by matrix. Completeness objectives for all parameters 95% unless stated otherwise.

*Method modified based on project objectives.

Key: Method reference abbreviations as follows:

EP: EPA "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, Revised March 1983.

SW: EPA "Test Methods for Evaluating Solid Wastes," SW-846, Third edition, September 1986.

Table C-3

TCL ACID EXTRACTABLES

Compound	Detection Limits Water (µg/L)	Detection Limits Soil/Sediment (µg/kg)
Phenol	10	330
2-Chlorophenol	10	330
2-Methylphenol	10	330
4-Methylphenol	10	330
2-Nitrophenol	10	330
2,4-Dimethylphenol	10	330
2,4-Dichlorophenol	10	330
4-Chloro-3-methylphenol (para-chloro-meta-cresol)	10	330
2,4,6-Trichlorophenol	10	330
2,4,5-Trichlorophenol	10	330
2,4-Dinitrophenol	50	1,600
4,6-Dinitro-2-methylphenol	50	1,600
4-Nitrophenol	50	1,600
Pentachlorophenol	50	1,600
Benzoic Acid	50	1,600

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Table C-4

TCL VOLATILE ORGANICS

Compound	Detection Limits Water (µg/L)	Soil/ Sediment (µg/kg)
Chloromethane	10	10
Bromomethane	10	10
Vinyl Chloride	10	10
Chloroethane	10	10
Methylene Chloride	5	5
Acetone	10	10
Carbon Disulfide	5	5
1,1-Dichloroethene	5	5
1,1-Dichloroethane	5	5
1,2-Dichloroethene total	5	5
Chloroform	5	5
1,2-Dichloroethane	5	5
2-Butanone	10	10
1,1,1-Trichloroethane	5	5
Carbon Tetrachloride	5	5
Vinyl Acetate	10	10
Bromodichloromethane	5	5
1,1,2,2-Tetrachloroethane	5	5
1,2-Dichloropropane	5	5
trans-1,3-Dichloropropene	5	5
Trichloroethene	5	5
Dibromochloromethane	5	5
1,1,2-Trichloroethane	5	5
Benzene	5	5
cis-1,3-Dichloropropene	5	5
Bromoform	5	5
2-Hexanone	10	10
4-Methyl-2-pentanone	10	10
Tetrachloroethene	5	5
Toluene	5	5

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Table C-4 (Cont.)

Compound	Detection Limits Water ($\mu g/L$)	Soil/ Sediment ($\mu g/kg$)
Chlorobenzene	5	5
Ethyl Benzene	5	5
Styrene	5	5
Total Xylenes	5	5

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Table C-5

TCL PESTICIDES/PCBs

Compound	Detection Limits* 608/8080 Water ($\mu g/L$)	8080 Soil (mg/kg)
Aldrin	0.025	0.001
a-BHC	0.025	0.001
b-BHC	0.025	0.001
g-BHC	0.025	0.001
d-BHC	0.025	0.001
Chlordane	0.20	0.008
4,4'-DDD	0.05	0.002
4,4'-DDE	0.05	0.002
4,4'-DDT	0.10	0.005
Dieldrin	0.05	0.002
Endosulfan I	0.05	0.002
Endosulfan II	0.05	0.002
Endosulfan sulfate	0.10	0.005
Endrin	0.05	0.002
Endrin aldehyde	0.10	0.005
Heptachlor	0.025	0.001
Heptachlor epoxide	0.05	0.001
Methoxychlor	0.40	0.016
PCB - 1016	0.50	0.020
PCB - 1221	0.50	0.020
PCB - 1232	0.50	0.020
PCB - 1242	0.50	0.020
PCB - 1248	0.50	0.020
PCB - 1254	0.50	0.020
PCB - 1260	0.50	0.020
Toxaphene	1.0	0.050

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*Specific detection limits are highly matrix-dependent. The detection limits listed herein are provided for guidance and may not always be achievable.

APPENDIX D

LABORATORY REPORTS

(SUPPLIED IN FOUR VOLUMES INCLUDING A GROUNDWATER DATA SUPPLEMENT, ALL BOUND SEPARATELY)