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PROJECT CLOSURE REPORT FOR THE NON-TIME-CRITICAL REMOVAL ACTION

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INSTALLATION RESTORATION PROGRAM SUB-SITE 2A
NAVAL STATION SAN DIEGO
SAN DIEGO, CALIFORNIA

DCN: FWSD-RAC-03-0759

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ABBREVIATIONS AND ACRONYMS

°F	degrees Fahrenheit
µg/dL	micrograms per deciliter
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
AM	Action Memorandum
AMP	Air Monitoring Plan
AOPC	Area of Potential Concern
ARAR	applicable or relevant and appropriate requirement
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
Basin Plan	Water Quality Control Plan for the San Diego Basin
bcy	bank cubic yards
BEWQO	Enclosed Bay and Estuaries Water Quality Objective
bgs	below ground surface
BMP	Best Management Practice
BNI	Bechtel National, Inc.
BTEX	benzene, toluene, ethylbenzene, and xylenes
Ca-HSC	California Health and Safety Code
Cal/EPA	California Environmental Protection Agency
Cal/OSHA	California Occupational Safety and Health Administration
Cal-Haz	California hazardous
CB	Construction Battalion
CCR	California Code of Regulations
CDF	controlled density fill
CDM	Camp, Dresser, & McKee, Inc.
CDU	Consolidated Diver's Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act

ABBREVIATIONS AND ACRONYMS
(Continued)

CFR	Code of Federal Regulations
cm/sec	centimeters per second
CMU	concrete masonry unit
CO	Commanding Officer
COC	chemical of concern
cpm	counts per minute
CRZ	contamination reduction zone
CST	collection, storage, and transfer
CTO	Contract Task Order
cy	cubic yards
DCB	dichlorobenzene
DCE	dichloroethene
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethene
DDT	dichlorodiphenyltrichloroethane
DEH	Department of Environmental Health
DON	Department of the Navy
DOT	Department of Transportation
D-S-P	Defense Standard Program
DTSC	Department of Toxic Substances Control
Ebasco Environmental	Ebasco Environmental Services
EE/CA	Engineering Evaluation/Cost Analysis
EFA Northwest	Engineering Field Activity Northwest
EM	electromagnetic
EPA	United States Environmental Protection Agency
EZ	exclusion zone
FCR	Field Change Request

ABBREVIATIONS AND ACRONYMS
(Continued)

FD	field duplicate
FID	flame ionization detector
FSP	Field Sampling Plan
FWENC	Foster Wheeler Environmental Corporation
GC	gas chromatograph
GPR	ground-penetrating radar
HDPE	high-density polyethylene
HI	hazard index
IAS	Initial Assessment Study
IR	Installation Restoration
IRP	Installation Restoration Program
ISSOT	Inter-surface Supply Support Operation Team
IT	International Technology Corporation
J	estimated value
LLRW	low-level radiation waste
Marietta	Martin Marietta Energy systems, Inc.
mg/kg	milligrams per kilogram
mg/L	micrograms per liter
mph	miles per hour
mR/hr	milliroentgen per hour
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
NA	not analyzed
NAD	North American Datum
NAVD	North American Vertical Datum
NAVSTA	Naval Station
NCP	National Oil and Hazardous Substances Pollution Contingency Plan

ABBREVIATIONS AND ACRONYMS
(Continued)

NE	not established
NEESA	Naval Energy and Environmental Support Activity
NFESC	Naval Facilities Engineering Service Center
NTCRA	Non-Time-Critical Removal Action
ORR	Operational Readiness Review
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
pCi/g	picocurie per gram
pg/g	picograms per gram
PID	photoionization detector
PM_{10}	particulate matter less than 10 microns
PPE	personal protective equipment
PRG	Preliminary Remediation Goal
PTES	Pacific Treatment Environmental Services
PUF	polyurethane foam
PVC	polyvinyl chloride
PWC	Public Works Center
QAPP	Quality Assurance Project Plan
QC	quality control
RAB	Restoration Advisory Board
RAC	Remedial Action Contract
RAD	radiation
RAIP	Removal Action Implementation Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
ROICC	Resident Officer in Charge of Construction

ABBREVIATIONS AND ACRONYMS
(Continued)

RPD	relative percent difference
RPM	Remedial Project Manager
RSE	Removal Site Evaluation
RWQCB	Regional Water Quality Control Board
SAM	Site Assessment and Mitigation
SAR	Site Assessment Report
SARA	Superfund Amendment and Reauthorization Act
SCAPS	Site Characterization Analysis Petroleum System
SDAPCD	San Diego Air Pollution Control District
SI	Site Inspection
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
SVOC	semivolatile organic compound
SWDIV	Southwest Division Naval Facilities Engineering Command
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
SZ	support zone
TCDD	2,3,7,8–tetrachlorodibenzo-p-dioxin
TCE	trichloroethene
TCL	target cleanup level
TCLP	Toxicity Characteristic Leaching Procedure
TO	Task Order
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons quantified as diesel
TPH-mo	total petroleum hydrocarbons quantified as motor oil
TRPH	total recoverable petroleum hydrocarbons
TSP	total suspended particulates

ABBREVIATIONS AND ACRONYMS
(Continued)

USC	United States Code
UST	underground storage tank
VOC	volatile organic compound
WESTEC	WESTEC Services, Inc.
WMP	Waste Management Plan
WWC	Woodward-Clyde Consultants

EXECUTIVE SUMMARY

This Final Project Closure Report has been prepared to describe and present the results of a Non-Time-Critical Removal Action (NTCRA) at Installation Restoration Program (IRP) Sub-Site 2A (also known as the western portion of IRP Site 2, Mole Pier), Naval Station (NAVSTA) San Diego, San Diego, California. This removal action was taken pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104 [42 United States Code (USC) 9604] and National Oil and Hazardous Substances Pollution Contingency Plan (NCP) under delegated authority of the Office of the President of the United States Executive Order 12580, which authorizes the Department of the Navy (DON) to conduct and finance removal actions as part of the response process. The DON has authority to carry out removal actions when the sole source of the release is from the DON installation and as described in Section 3.2 of the Engineering Evaluation/Cost Analysis (EE/CA) [Bechtel National, Inc. (BNI), 1999a] and the Action Memorandum (AM) DON, 1999 for this removal action. It is intended that this removal action will result in a determination that no further response action for soil is appropriate at IRP Sub-Site 2A.

The purpose of the NTCRA was to reduce contaminated soil concentrations to levels that are protective of human health, to substantially reduce or eliminate potential exposure pathways, and to provide unrestricted future land use for the site. The DON, Southwest Division Naval Facilities Engineering Command (SWDIV) contracted the services of Foster Wheeler Environmental Corporation (FWENC) as general contractor to conduct the NTCRA at IRP Sub-Site 2A.

IRP Site 2 is a 23-acre, triangular area bounded by Seventh Street to the north, Mole Road to the south, Cummings Road to the east, and a portion of the Mole Pier that is not a part of IRP Site 2, which is located to the west. IRP Site 2 was created in 1942 with hydraulically emplaced dredged fill material. From approximately 1945 to 1972, much of IRP Site 2 was used for disposal and open burning of demolition debris and hazardous waste. Waste disposal activities were believed to have occurred largely in the north-central and western portions of Mole Pier (IRP Sub-Site 2A) and were verified during the NTCRA based on materials excavated from the suspect area. Wastes identified included pilings, lumber, concrete, asphalt, and various other combustible and noncombustible materials from the former Naval Repair Base, Navy Public Works Center (PWC), and station maintenance operations. An estimated 540,000 gallons of petroleum-based fuel, including gasoline, motor oil, and diesel were transported to IRP Site 2 and used to assist with the open burning of combustible refuse and debris. Extensive remnants of this petroleum fuel were found during the NTCRA in the suspect burn area. The area was covered with fill material after waste disposal activities were discontinued in 1972.

Because of its large size and complex history of past and current activities, IRP Site 2 was subdivided into seven sub-sites (IRP Sub-Site 2A through 2G). IRP Sub-Site 2A, the subject of

the NTCRA, is approximately 6.5 acres in size and extends from the intersection of Mole Road and Seventh Street on the Mole Pier to approximately 750 feet east. Most of IRP Sub-Site 2A is paved with asphalt and concrete and presently (post-NTCRA) is developed with work areas, storage areas, parking areas, and greenbelts.

The completion of the NTCRA at IRP Sub-Site 2A has reduced soil contaminant concentrations to risk management range that are protective of human health. This was accomplished through excavation and off-site disposal of the contaminated soil at appropriate United States Environmental Protection Agency (EPA)-certified disposal facilities. The removal action has substantially eliminated the identified pathways of potential exposure to hazardous substances. The chemicals of concern (COCs) addressed by the NTCRA included arsenic; hexavalent chromium; dioxins; lead; and various polynuclear aromatic hydrocarbons (PAHs) identified as anthracene, benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene. The removal action at IRP Sub-Site 2A focused only on potentially unacceptable human health risk concerns in soils. Potential groundwater contamination was not included within the scope of this NTCRA.

Based on the *Final EE/CA for IRP Sub-Site 2A, Naval Station San Diego, San Diego, California* (BNI, 1999a), the DON prepared the *Final* AM/*Remedial Action Plan - Site 2, IRP Sub-Site 2A Naval Station San Diego, San Diego, California,* (DON, 1999) recommending that the site be remediated by means of excavation and off-site disposal of contaminated soil at an appropriate landfill facility. This Closure Report provides detailed descriptions of the NTCRA including pre-removal, removal, and restoration activities.

Site activities were performed between December 7, 1999, and February 28, 2003. Pre-removal activities included surveys and sampling, permitting, site preparation, installation of temporary fencing and barricades, monitoring well abandonment, utility surveys, exposure of underground utilities, and stormwater management activities. Removal activities included pavement demolition, shoring, contaminated soil excavation, stockpile management, utility reconstruction and support, and transportation and off-site disposal of construction debris and contaminated soil at appropriate landfill facilities. Restoration activities included backfilling/compaction, asphalt paving, and hydroseeding/sodding.

The removal action was performed in seven phases to accommodate ongoing fleet support operations, funding constraints, and increases in the scope of the contaminated soil removal in this area of the Mole Pier. These phases included Phase 1 (including 1A and 1B), Phase 2 (including 2A and 2B), Phase 3, Phase 4, Phase 5, Phase 6, and Phase 7. Phases 1 and 2 were a part of the original scope of work for the NTCRA, and Phases 3, 4, 5, 6, and 7 were added during the NTCRA based on the analytical results from pre-removal, progress, confirmation, and additional investigation sampling, which identified that the extent of contaminated soils was much greater than estimated in the EE/CA (BNI, 1999a).

The Draft Site Assessment Report (SAR) was completed by FWENC between January and May 2001 (FWENC, 2001) for Solid Waste Management Unit (SWMU) No. 6 (Phase 6) and the collection, storage, and transfer (CST) facility (Phase 7). Results from the Site Characterization identified localized areas (hot spots) with soil contamination exceeding the *Region IX Preliminary Remediation Goals* (PRGs) (EPA, 1998). Phase 6 included the excavation of six hot spots from SWMU No. 6 (including B1, B2, B4, B6, C1, and one substantial area, Excavation C5) and one hot spot to the west of the CST facility (Excavation E1), the transport and disposal of the contaminated soil, and the restoration of the excavation areas. Phase 7 included the excavation and restoration of the area formerly used as the CST facility.

The NTCRA was performed concurrently by FWENC and the PWC. FWENC performed the excavation and backfill of Phase 1A, Phase 2A, Phase 6, and Phase 7 (excluding the northwest corner) and excavated a portion of Phase 2B, the western portion of Phase 3, and Phase 4. PWC was tasked by the DON to perform the excavation and backfill activities for Phase 1B and Phase 5 and a portion of Phase 2B, Phase 3, Phase 4, and Phase 7. In addition, PWC was tasked to finish the subgrade of Phases 1, 2, 3, 4, 5, and 7, along with the placement of the aggregate base course, asphalt pavement, concrete curb, topsoil; installation of electrical conduits and irrigation system; and hydroseeding. FWENC was responsible for characterization, loading, transportation, and disposal of excavated soil including soil removed by PWC with the exception of the soil from the western half of Phase 7 that was performed by PWC.

A total of 123,470 tons of soil was removed from the seven phases including 106,594 tons of California hazardous (Cal-Haz) waste, 14,190 tons of non-hazardous waste, 1,418 tons of Resource Conservation and Recovery Act (RCRA) waste, and 1,268 tons of low-level radiation waste (LLRW). One area of low-level radioactive soil was identified during the NTCRA, northwest of Building 3224, between ground surface and 4 feet below ground surface (bgs). These soils were excavated and stockpiled separately for eventual disposal. The analytical results indicated radiation levels at 1.5 times the background, exceeding the DON action level. However, radiation levels were below the regulatory background threshold of 2.0 times background.

Additionally, 31 radioactive point sources were found during the excavation activities and were disposed of by the DON in compliance with applicable laws. These sources included miscellaneous metal pieces ranging from coin-size objects weighing less than 1 ounce to softball-size objects weighing more than 1 pound.

1.0 INTRODUCTION AND BACKGROUND

This Final Project Closure Report describes the field activities and presents the results of the Non-Time-Critical Removal Action (NTCRA) conducted at Installation Restoration Program (IRP) Sub-Site 2A located on Mole Pier at Naval Station (NAVSTA) San Diego, San Diego, California. The Department of the Navy (DON), Southwest Division Naval Facilities Engineering Command (SWDIV) directed this NTCRA in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) [United States Environmental Protection Agency (EPA), 1993]. Under the DON's directive, Foster Wheeler Environmental Corporation (FWENC) was responsible for planning and implementing the subject NTCRA. Additionally, the DON tasked the Navy Public Works Center (PWC) to concurrently work with FWENC in the demolition, excavation, backfill and compaction, and site restoration of select phases of the NTCRA.

This project was performed under Contract Task Orders (CTOs) No. 0002 and No. 0039 via the contracting mechanism of SWDIV Remedial Action Contract (RAC) N68711-98-D-5713 and Task Order (TO) No. 0014 via the contracting mechanism of Engineering Field Activity Northwest (EFA Northwest), RAC N44255-01-D-2000. The California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC), and the California Regional Water Quality Control Board (RWQCB) provided regulatory oversight and guidance for the NTCRA.

Bechtel National, Inc. (BNI) summarized previous site investigations, compared removal action alternatives, and identified the recommended alternative in the *Final Engineering Evaluation/Cost Analysis* (EE/CA) *for IR Sub-Site 2A, Naval Station San Diego, San Diego, California* (BNI, 1999a). Based on the EE/CA, the DON prepared the *Final Action Memorandum* (AM)*/Remedial Action Plan-Site 2, IR Sub-Site 2A, Naval Station San Diego, San Diego, California,* (DON, 1999), recommending excavation of soil at IRP Sub-Site 2A with contaminant concentrations exceeding cleanup goals with off-site disposal.

The Final EE/CA and the Final AM provided justification for conducting the subject NTCRA and included a description of IRP Sub-Site 2A and the results of investigations conducted to date. These previous investigations confirmed the presence of polynuclear aromatic hydrocarbons (PAHs) and metals in site soil above the May 1998 *Region IX Residential Preliminary Remediation Goals* (PRGs) (EPA, 1998) and NAVSTA background concentrations (metals only). PRGs are health-based levels of chemical concentrations in soil that represent an acceptable cancer risk to humans of 1 in 1 million (1×10^{-6}) for carcinogenic chemicals or a chronic hazard quotient of 1.0 for noncarcinogenic chemicals, whichever is lower.

The NTCRA at IRP Sub-Site 2A focused only on potentially unacceptable human health risk concerns in soil. The potential human health threats or risks associated with the soil at the site were determined by compiling and reviewing analytical results in the *Preliminary Final Revised Section 6 Removal Site Evaluation* (RSE) *at Site 2,* [Area of Potential Concern] *AOPC-1, Naval Station San Diego, San Diego, California* (Revised Section 6 RSE) by BNI (1998a). The overall residential cancer risk total was 5.2×10^{-4}, which exceeded the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) target risk range of 10^{-6} to 10^{-4} and warranted removal. Noncarcinogenic risks and the Cal/EPA pharmacokinetic model also were assessed and used to determine the dominant risk driver contaminants. No ecological risks were associated with this NTCRA.

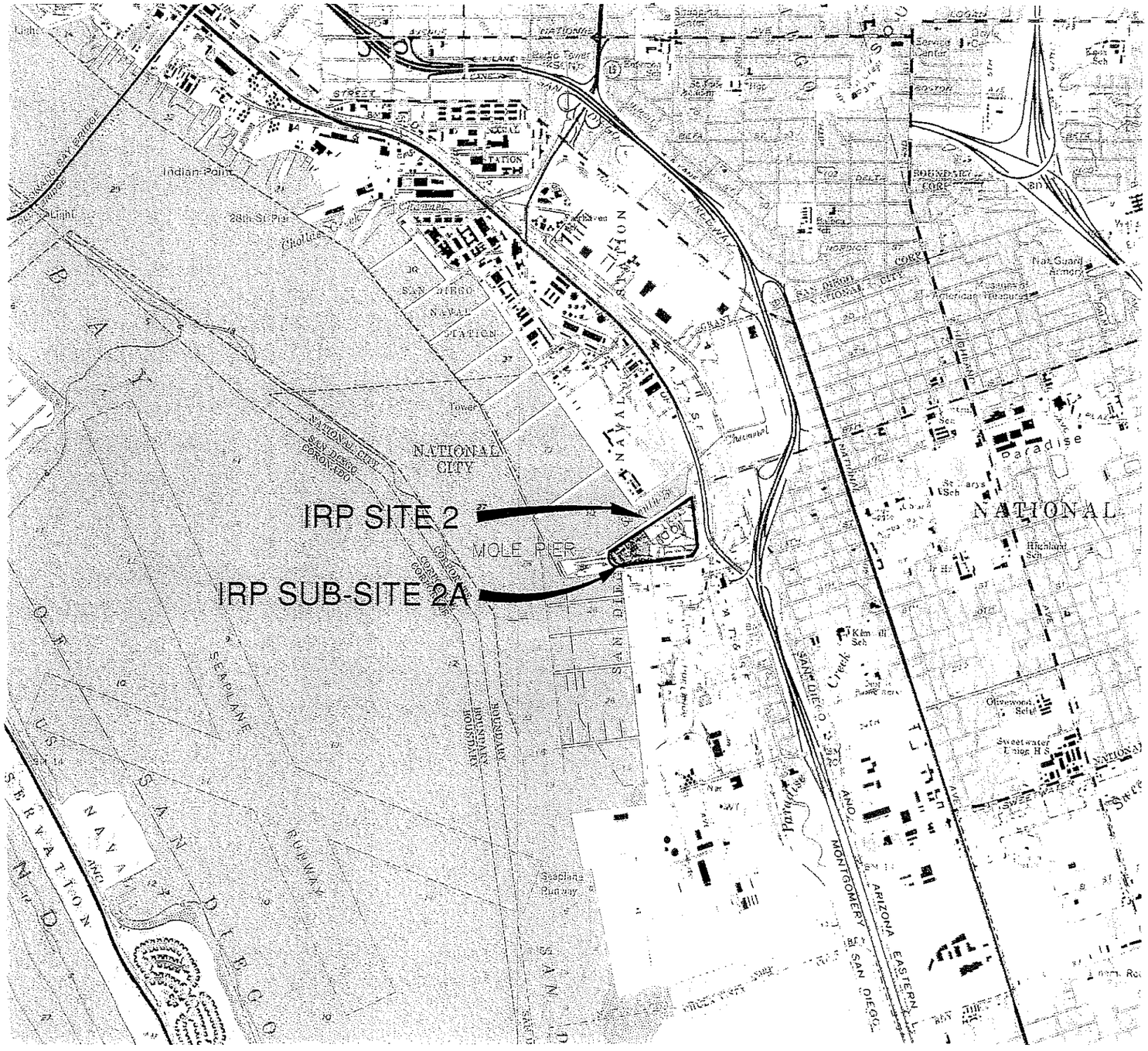
1.1 FACILITY LOCATION AND HISTORY

NAVSTA San Diego is situated south of the downtown San Diego area and includes the western portion of National City. The location of IRP Site 2 is shown on Figure 1-1. IRP Site 2 is a 23-acre, triangular area bounded by Seventh Street to the north, Mole Road to the south, and Cummings Road to the east (Figure 1-2). In 1921, the San Diego Destroyer Base began operations at IRP Site 2 for the purpose of maintaining decommissioned World War I destroyers. The size of the Base increased in subsequent years through multiple land acquisitions and facilities development, with most growth occurring after the Naval Repair Base was established in 1943. From 1943 until the end of World War II, more than 5,000 ships were sent to the Naval Repair Base for conversion, overhaul, battle damage repair, and maintenance. By 1946, the Naval Repair Base included 823 acres, when it was redesignated as NAVSTA San Diego (FWENC, 1999).

The primary mission of NAVSTA San Diego is to provide personnel and logistical support services to 25 major tenant commands. Approximately 35,000 military personnel are assigned to the Base. Out of the 35,000 Base personnel, 18,204 are military staff assigned as support for the Pacific Fleet ships. Approximately 9,900 military personnel are assigned to the ships at NAVSTA San Diego. This large population assigned to support ship, ground vehicle, and Base maintenance operations requires a variety of industrial facilities (FWENC, 1999).

1.2 SITE LOCATION AND HISTORY

Because of its large size and complex history of past and current activities, IRP Site 2 was subdivided into IRP Sub-Site 2A through IRP Sub-Site 2G. IRP Sub-Site 2A, the subject of the NTCRA activities and this Final Project Closure Report, is approximately 6.5 acres in size and extends from the intersection of Seventh Street and Mole Road to approximately 750 feet east. The majority of IRP Sub-Site 2A currently is paved with asphalt and concrete and consists of (post-removal action) work areas, storage areas, parking areas, and greenbelts.



LEGEND

IR SITE 2 BOUNDARY

-N-

SCALE: NOT TO SCALE

Figure 1-1
LOCATION MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

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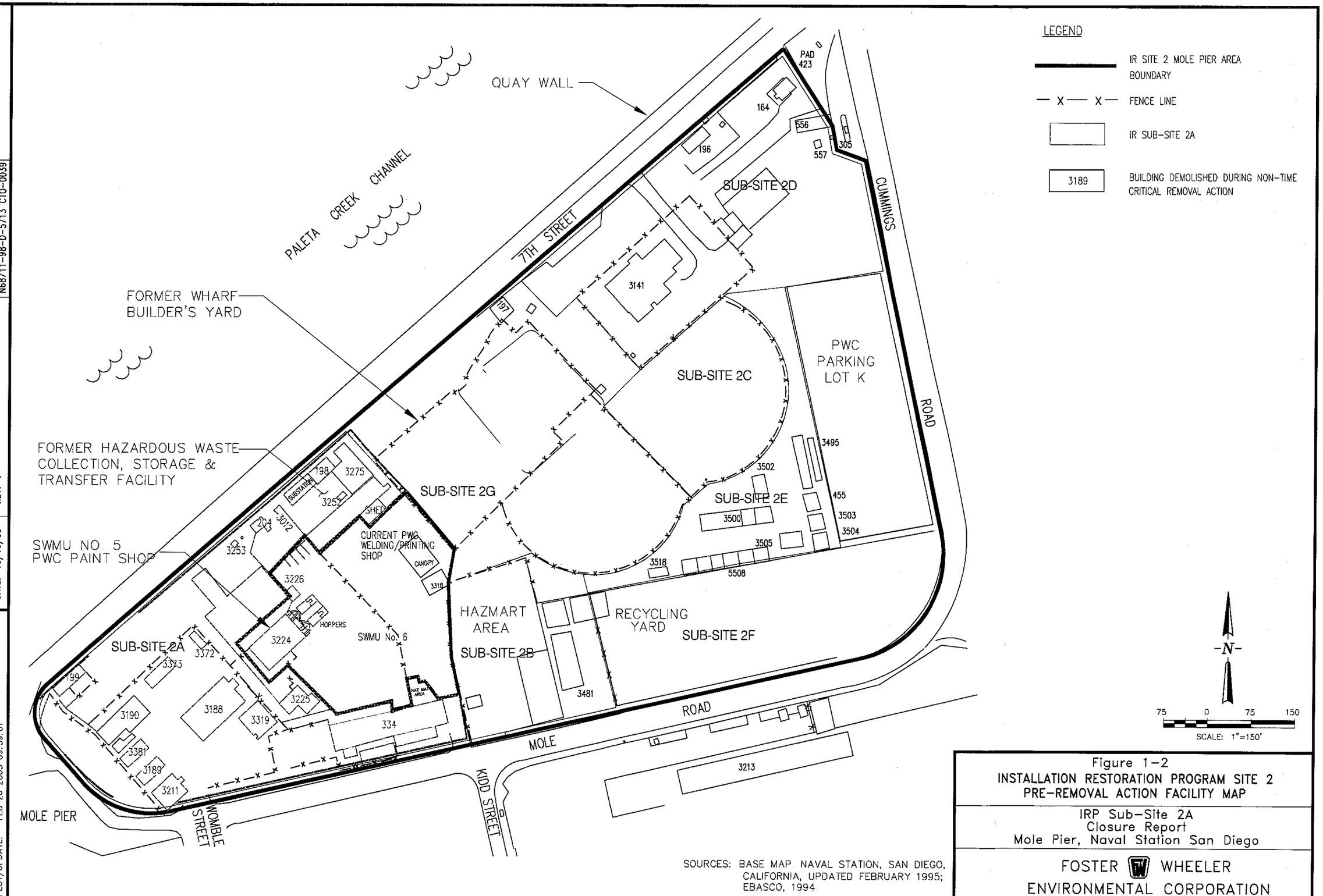

SOURCES: BASE MAP: NAVAL STATION, SAN DIEGO, CALIFORNIA, UPDATED FEBRUARY 1995; EBASCO, 1994.

Figure 1-2
INSTALLATION RESTORATION PROGRAM SITE 2
PRE-REMOVAL ACTION FACILITY MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER ENVIRONMENTAL CORPORATION

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IRP Site 2 was created in 1942 with hydraulically dredged fill material [Naval Energy and Environmental Support Activity (NEESA), 1986]. The area is delineated as a diked disposal area on a 1958 station map. Aerial photographs taken between 1949 and 1981 indicate that approximately three-fourths of the area bounded by Mole Road, Cummings Road, Seventh Street, and Mole Pier were diked.

According to the NEESA [now known as Naval Facilities Engineering Service Center (NFESC)] study (1986), most of IRP Site 2 was used for the disposal and open burning of various types of demolition debris and hazardous waste from approximately 1945 to 1972. However, based on review of 1951 and 1953 aerial photographs, previous investigations, and an interim removal action performed by Ebasco Environmental Services (Ebasco Environmental, 1994) and verified during the NTCRA from materials excavated from the suspect area, these activities were believed to be largely confined to the north-central portion (former Wharf Builder's Yard identified as IRP Sub-Site 2G, Recycling Yard identified as IRP Sub-Site 2F, and the western portion of IRP Site 2 near former Buildings 3188, 3224, 3225, and adjacent open space identified as IRP Sub-Site 2A (Figure 1-2).

Records indicate that combustible and hazardous wastes were disposed and/or burned in IRP Sub-Site 2A. Wastes disposed and/or burned included pilings, lumber, concrete, asphalt, and various other combustible and noncombustible materials from the former Naval Repair Base, PWC, and station maintenance operations. Open burning was conducted for an undetermined number of years. An estimated 540,000 gallons of petroleum-based fuel, including gasoline, motor oil, and diesel, were transported to IRP Sub-Site 2A and used to promote the open burning of combustible refuse and debris [International Technology Corporation (IT), 1992]. Remnants of this petroleum fuel were found consistently during the removal action in the suspect burn area in Phase 2A and Phase 2B (Figure 1-3).

The western disposal area (IRP Sub-Site 2A) was covered with fill material after disposal activities ceased in 1972. This area was occupied previously by various facility activities, including the former collection, storage, and transfer (CST) facility, Consolidated Diver's Unit (CDU), and the former PWC welding/paint shop (also identified as SWMU No. 5).

The former CST facility operated between March 31, 1986, and August 15, 1993, as a permitted hazardous waste storage facility. The original CST permit, issued jointly by Region IX EPA and the California Department of Health Services (now the DTSC), was effective March 31, 1986 through March 31, 1991 (Brown and Caldwell, 1994).

Hazardous waste operations continued at the CST facility through August 15, 1993, under an administrative permit extension granted by DTSC while the DON's permit renewal application was undergoing technical review. The application for permit renewal at Building 3275 (CST facility) was subsequently modified as a hazardous waste facility permit application for the

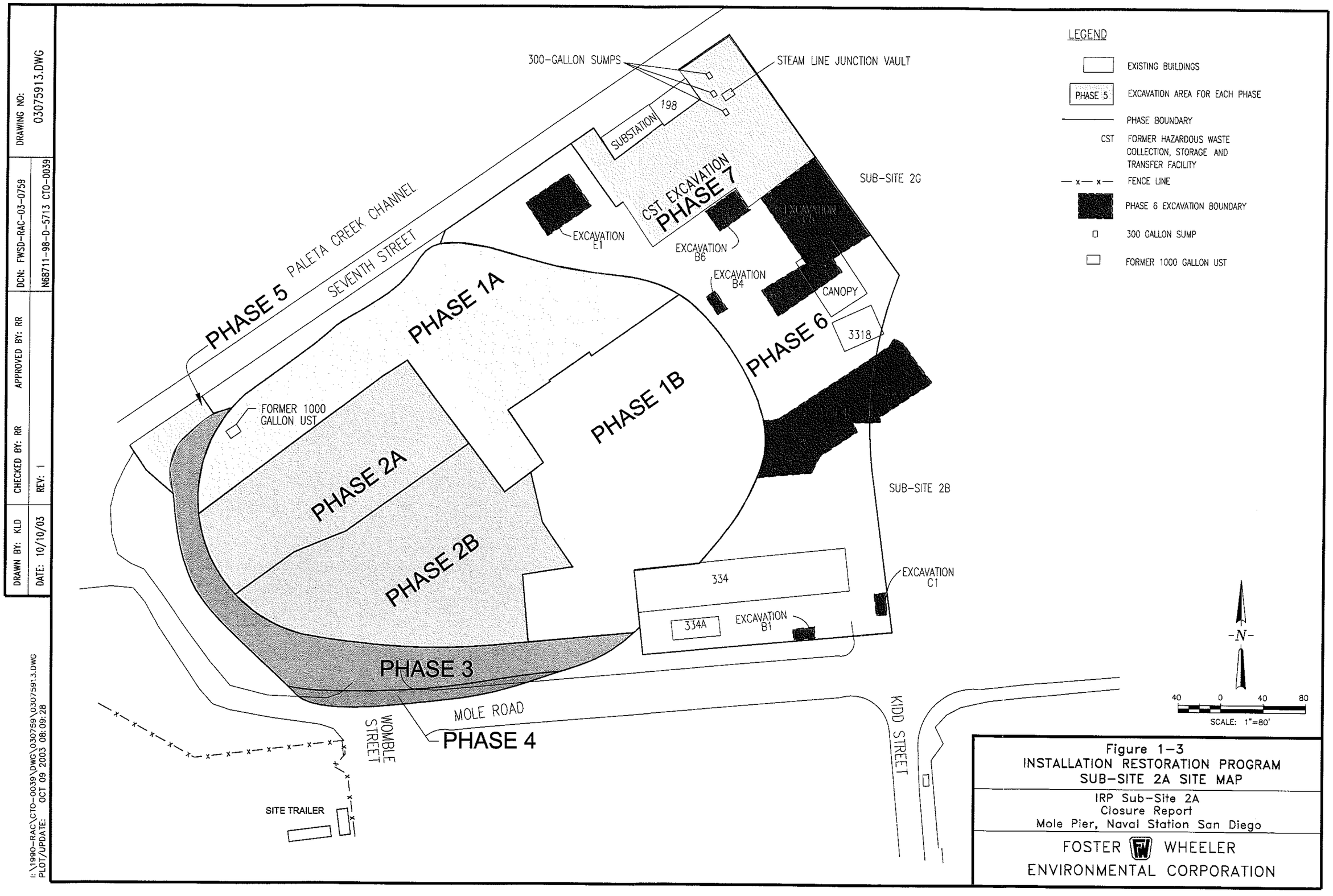

Figure 1-3
INSTALLATION RESTORATION PROGRAM
SUB-SITE 2A SITE MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

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newly constructed Building 3458 located in another area at NAVSTA San Diego. Beginning on August 16, 1993, hazardous waste storage operations were transferred to Building 3458 and regular operations at Building 3275 (CST facility) were halted (Brown and Caldwell, 1994).

The former CST facility was used for storage, consolidation, and repackaging of hazardous wastes and materials managed by PWC. PWC collected hazardous wastes and materials from PWC, NAVSTA San Diego, and ship intermediate maintenance activity generators. These wastes were stored for up to 1 year at the former CST facility. The former CST facility consisted of three main storage areas including an enclosed reactive waste storage area, an open storage outdoor area, and a roofed and fenced outdoor storage area [WESTEC Services, Inc. (WESTEC), 1988].

The CST facility's enclosed storage area was a 64-foot by 47.5-foot roofed structure surrounded by a 10-foot-high chain-link fence. Water-repellent canvas sheeting was draped from the fencing to protect outdoor stored containers from precipitation. An enclosed two-room structure was attached to the north side of the enclosed storage area. One room served as an office and the second room as the reactive materials storage room. The reactive storage room opened into the enclosed storage area and drained to a floor drain that emptied into one of three 300-gallon concrete sumps located in the northwestern portion of the former CST facility. The other two separate 300-gallon concrete sumps received surface water runoff from the enclosed storage area (see Figure 1-3 for locations of sumps). The sumps at the former CST facility were not lined (WESTEC, 1988).

The former CST facility site included an outdoor, 6-inch concrete bermed area, a 55-gallon drum open storage area to the south of the outdoor storage area, and a driveway to the former CST facility. The open storage area held the majority of the wastes stored at the former CST facility. The drum storage area consisted of a concrete slab that was used to store wastes similar to that held in the enclosed storage area. A segment of the bermed 55-gallon drum storage area was designated for storage of Resource Conservation and Recovery Act (RCRA) waste. During the visual site inspection, the 90-day storage area contained crushed cans, paint wastes, and sandblast grit. Prior to 1988, this area consisted of bare soil (Brown and Caldwell, 1994).

1.3 PROJECT OBJECTIVES

The IRP was instituted at NAVSTA San Diego in 1986 to identify, characterize, and remediate contamination from past hazardous waste disposal operations and hazardous material spills. The overall environmental goal for IRP sites at NAVSTA San Diego is to clean up, remove, or remediate contamination to an acceptable level of risk consistent with the mission and continued operation of the Base. In addition, it is the DON's desire to implement site cleanup in a manner that will provide for unrestricted land use upon completion when technologically feasible and cost-effective.

Based on CERCLA, NCP, RSE, applicable or relevant and appropriate requirements (ARARs), and Removal Action Implementation Plan (RAIP) (FWENC, 1999) requirements, along with NAVSTA San Diego IRP goals, the primary objectives of the NTCRA at IRP Sub-Site 2A included:

- Reducing soil contaminant concentrations to acceptable levels that are protective of human health
- Substantially reducing or eliminating the pathways of exposure to the hazardous substances
- Providing unrestricted future land use for the site

The DON intends for this NTCRA to complete the CERCLA/Superfund Amendment and Reauthorization Act (SARA) compliance requirements. Remedial Action Objectives were established for the NTCRA and presented in the AM (DON, 1999). Table 1-1 lists soil cleanup goals for the identified chemicals of concern (COCs) at IRP Sub-Site 2A posing the greatest human health risk at the site (DON, 1999), as well as total petroleum hydrocarbons quantified as diesel (TPH-d).

The NTCRA at IRP Sub-Site 2A was performed in seven phases, hereafter referred to as Phase 1 through Phase 7 (Figure 1-3), to accommodate ongoing fleet operations, funding constraints, and increases in the scope of the removal of contaminated soils affecting this area of the Mole Pier.

These phases included Phase 1 (including 1A and 1B), Phase 2 (including 2A and 2B), Phase 3, Phase 4, Phase 5, Phase 6, and Phase 7. Phases 1 and 2 were a part of the original scope of work for the NTCRA, and Phases 3, 4, 5, 6, and 7 were added during the NTCRA based on the analytical results from pre-construction progress, confirmation, and additional investigation sampling. These activities indicated that the extent of contaminated soils was much greater than estimated in the EE/CA (BNI, 1999a).

This Final Project Closure Report presents the procedures and results for pre-removal, removal, and restoration activities at IRP Sub-Site 2A including:

- Pre-removal surveys, sampling, and permitting
- Mobilization and site preparation
- Excavation of contaminated soil
- Confirmation soil sampling
- Off-site disposal of contaminated soil and other wastes
- Backfilling the excavation with clean soil and compaction
- Site restoration and demobilization

TABLE 1-1

CHEMICALS OF CONCERN AND THEIR RESPECTIVE TARGET CLEANUP CONCENTRATIONS

Analyte	Residential PRG[a] (mg/kg)[b]	Industrial PRG (mg/kg)	Background Threshold Value (mg/kg)	Highest Detected Concentration (mg/kg)	Cleanup Goals (mg/kg)
Arsenic	0.38	3.0	9.05	13.3	9.05[c]
Chromium, hexavalent	0.2	64	—[d]	25	0.2[e]
Lead	130[f]	1,000	94.03	923	130[e]
Anthracene	6.1[g]	—	—	11	6.1
Benz[a]anthracene	0.56	3.6	—	9.3	0.56[e]
Benzo[b]fluoranthene	0.56	3.6	—	24	0.56[e]
Benzo[a]pyrene	0.056[f]	0.36	—	6.6 J[h]	0.056[e]
Benzo[k]fluoranthene	0.61[f]	36	—	19	0.61[e]
Chrysene	6.1[f]	360	—	15	6.1[e]
Dibenz[a,h]anthracene	0.056	0.36	—	4.2 J	0.056[e]
Indeno[1,2,3-c,d]pyrene	0.56	3.6	—	16	0.56[e]
Total petroleum hydrocarbons-diesel	—	—	—	16,000	[i]
TCDD[j] equivalent[k]	0.0000038	0.00003	—	0.000164	0.0000038[e]

Notes:

[a] PRG – Preliminary Remediation Goal; United States Environmental Protection Agency (EPA) Region IX residential and industrial PRGs for soil (EPA, 1998)
[b] mg/kg – milligrams per kilogram
[c] background value proposed for cleanup goal
[d] — not applicable
[e] The soil cleanup level will be the Cal-modified PRG; if a laboratory detection limit equal to or less than the Cal-modified PRG is not available, the lowest available detection limit will be used as the cleanup level.
[f] Cal-modified PRG (EPA, 1998)
[g] Anthracene appears to be at saturation in the soil; however, it is not expected to be toxic to human receptors.
[h] J – estimated value
[i] Total petroleum hydrocarbons as diesel is a co-occurring contaminant and will be excavated during the removal action. Residual total petroleum hydrocarbons as diesel will be delineated during confirmation sampling.
[j] TCDD – 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (dioxin)
[k] toxicity equivalence concentration = (maximum concentration) X (toxicity equivalence factor)

Source: Department of the Navy, 1999 *Final Action Memorandum/Remedial Action Plan – IR Sub-Site 2A, Naval Station San Diego, San Diego, California*. December.

2.0 ENVIRONMENTAL SETTING

NAVSTA San Diego is located along the eastern shore of the San Diego Bay, occupying approximately 1,355 acres of land and water, with elevations ranging from sea level to approximately 20 feet above mean sea level (Figure 1-1). There are no significant areas of undisturbed land as dredging, construction, and other labor-related disturbances have altered most of the near-shore areas. The waterfront property consists mainly of reclaimed marshlands and tidal flats (FWENC, 1999).

IRP Site 2 is approximately 23 acres in size and was divided into seven sub-sites to facilitate investigation and cleanup activities. The seven sub-sites are identified as IRP Sub-Site 2A through Sub-Site 2G. IRP Sub-Site 2A, the focus of this NTCRA, consists of an area of relatively flat topography, sloping slightly toward the Paleta Creek Channel to the north/northwest (Figure 1-2). The elevation at IRP Sub-Site 2A is approximately 11 to 16 feet above mean sea level (FWENC, 1999). IRP Sub-Site 2A, immediately prior to the removal activities, was most recently used to support the CDU facility, Inter-surface Supply Support Operation Team (ISSOT), the CST facility, and the PWC welding/paint shop. Currently, the site is used for parking, ISSOT, and the PWC welding/paint shop.

The stratigraphy at IRP Sub-Site 2A consists of geologic units of conventionally emplaced fill, hydraulically emplaced dredged fill, and bay deposits. Groundwater beneath IRP Sub-Site 2A occurs between approximately zero and 2.5 feet mean sea level (FWENC, 1999).

NAVSTA San Diego is located within the coastal plain zone and lies within the Las Chollas drainage basin that includes Las Chollas, South Las Chollas, Switzer, and Paleta creeks, all of which, with the exception of Switzer Creek, flow through NAVSTA San Diego property. These watersheds are almost totally urbanized consisting of impermeable materials (roofs and paving), with little natural soil cover for absorption and percolation of precipitation. The areas adjacent to these creeks are subject to flooding during storms (FWENC, 1999).

Discharge of surface-water runoff from NAVSTA San Diego into San Diego Bay occurs via either the DON-owned and maintained storm drain system or via Las Chollas and Paleta creeks. The two creeks consist of unlined channels within the confines of the Base, and both have been dredged and widened west of Harbor Drive (FWENC, 1999).

2.1 GEOLOGICAL CONDITIONS

Surface soil at NAVSTA San Diego and surrounding areas consists primarily of artificially compacted fill. Additional detailed information on regional and hydrogeologic conditions are found in the Site Inspection (SI) Report (IT, 1992) and Revised Section 6 RSE (BNI, 1998a).

NAVSTA San Diego is located within the Peninsular Ranges Geomorphic Province of Southern California, which is characterized by northwest-trending fault zones and similarly trending ridges and valleys.

Although the southern portion of the Rose Canyon fault zone projects along the axis of the San Diego Bay less than 1 mile west of the Base, faults are not reportedly located at NAVSTA San Diego (Kennedy and Tan, 1975). The Rose Canyon fault zone in this vicinity consists of several north-south-trending subparallel faults, and changes to a northwest-oriented, narrow zone of enechelon faults in the region north of the downtown San Diego area. There appears to be evidence of Holocene-age movement (last 10,000 years) along the Rose Canyon fault zone north of Mission Bay (Lindvall et al., 1989). To the south in the San Diego Bay, possible Holocene-age movement is suggested by displacement of seafloor sediments observed in acoustic sub-bottom profiles (Kennedy and Welday, 1980). Further evidence that this portion of the Rose Canyon fault zone may be active was the occurrence of a series of microearthquake swarms beneath the San Diego Bay in 1985 and 1986 (Anderson et al., 1989).

The La Nacion fault zone, which is located approximately 3 miles to the east of NAVSTA San Diego (Kennedy and Tan, 1975), is currently considered potentially inactive (faulting older than 10,000 years) based on lack of surface expression or evidence of displacement of Holocene-age soils.

The surface geology at NAVSTA San Diego can be divided into two general sections. In the first section, located east of the Harbor Drive area, the Base is underlain by the Pleistocene-age Bay Point Formation, a near-shore, marine terrace deposit (Kennedy and Tan, 1975). In the other section located west of Harbor Drive, surface material consists largely of hydraulic fill dredged from the San Diego Bay (includes the project site) that was placed around the margins of the Bay to create new land areas. Also present throughout NAVSTA San Diego, are localized areas of conventionally placed, compacted fill.

Geologic units encountered at IRP Sub-Site 2A include conventionally emplaced recent fill, hydraulically emplaced dredged fill, and bay deposits. The maximum explored depth during the two previous investigations was 22 feet below ground surface (bgs). These observations are based upon boring logs from the SI Report in 1992 (IT) and from the RSE conducted by BNI in August 1997.

2.2 HYDROGEOLOGICAL CONDITIONS

The *Water Quality Control Plan for the San Diego Basin* (Basin Plan) (RWQCB, 1995) considers NAVSTA San Diego part of the Paradise and El Toyan Hydrologic Subareas of the National City Hydrologic Area in the Pueblo San Diego Hydrologic Unit. The portion of the National City Hydrologic Area, located west of Interstate Highway 5, which includes NAVSTA San Diego, is designated in the Basin Plan as having no beneficial uses for groundwater

(RWQCB, 1995). Interpreted groundwater conditions at NAVSTA San Diego (described below) are based on the general hydrogeologic setting and previous investigations that provide site- and area-specific groundwater data.

In general, unconfined groundwater occurs throughout the Base at elevations ranging from approximately zero to 2.5 feet mean sea level (FWENC, 1999) in some areas east of Harbor Drive. Based on previous studies and the general hydrogeologic setting, the general groundwater flow direction at NAVSTA San Diego is inferred to be toward either the San Diego Bay or the several creeks that flow through the Base and discharge to the bay.

Previous investigations and water-level monitoring data from former Wells MW10, MW13, and MW14 indicate that groundwater beneath IRP Sub-Site 2A occurs between approximately zero and 2.5 feet mean sea level. Site elevation typically ranges from 11 to 16 feet above mean sea level. Groundwater at IRP Site 2 has very little gradient. However, in the vicinity of IRP Sub-Site 2A, there appears to be an overall slight west-northwest gradient toward the bay and Paleta Creek Channel. It is likely that the groundwater potentiometric surface at IRP Sub-Site 2A is influenced by tides due to the presence of the quay wall along the northwest edge of the site, which acts as a barrier to shallow groundwater flow. The mean hydraulic conductivity reported for IRP Site 2 is 1.7×10^{-3} centimeters per second (cm/sec). A hydraulic conductivity of 3.6×10^{-3} cm/sec was calculated from aquifer tests conducted at former Well MW10 (IT, 1992).

Beneficial uses for coastal surface waters specified by the Basin Plan include industrial, navigational, recreational, commercial, and sport fishing activities and several ecological categories (estuarine habitat; wildlife habitat; rare, threatened, or endangered species habitat; marine habitat; migration of aquatic organisms; and shellfish harvesting) (RWQCB, 1995).

2.3 CLIMATIC CONDITIONS

The climatic conditions of IRP Site 2 have been described based on information reported by the National Oceanic and Atmospheric Administration. Based on records from the nearest weather station at the San Diego International Airport, Lindbergh Field, the average annual temperature for the area is approximately 64 degrees Fahrenheit (°F). The average annual daily minimum and maximum temperatures are about 58°F and 71°F, respectively. The average annual precipitation is approximately 9.9 inches per year. Approximately 85 percent of precipitation occurs between November and March; although, this amount may vary widely from year to year. The seasonal temperature variation is equal to or less than 12.4°F throughout the year. The average precipitation during summer months is less than 2 percent of the annual precipitation. The evaporation potential for the San Diego area is about 64 inches per year.

The predominant wind directions are toward the northwest and west-northwest. Wind speeds less than 12 miles per hour (mph) occur 87 percent of the time. The average wind speed is about 6.8 mph.

3.0 SUMMARY OF PREVIOUS INVESTIGATIONS

Several investigations have been performed to assess the potential environmental impacts of past operations and disposal practices at the NAVSTA San Diego, IRP Sub-Site 2A. Detailed descriptions of these investigations and supporting information are provided in the following documents, which are incorporated herein by reference:

- *Community Relations Plan, Update No. 1, Naval Station, San Diego* (BNI, 2000)
- *Final RSE for IRP Sites 1, 2, and 4, Naval Station San Diego, California* (BNI, 2000)
- Revised Section 6 RSE (BNI, 1998a)
- *Preliminary Final RCRA Facility Investigation Phase II Report, Southwest Division Naval Facilities Engineering Command, CLEAN Program, Naval Station San Diego* (BNI, 1998b)
- *Final Engineering Evaluation/Cost Analysis for IR Sub-Site 2A, Naval Station San Diego, San Diego, California* (BNI, 1999a)
- *Final Action Memorandum (AM)/Remedial Action Plan – Site 2, IRP Sub-Site 2A, Naval Station San Diego, San Diego, California* (DON, 1999)
- *Final [RCRA Facility Investigation] RFI II Report* (BNI, 1999b)
- *Closure Certification Report* (Brown and Caldwell, 1994)
- *Final RCRA Facility Investigation Report, Southwest Division Naval Facilities Engineering Command* (Brown and Caldwell, 1997)
- *Removal Action at Site 2, Wharf Builder's Yard and Disposal Pit* (Ebasco Environmental, 1994)
- *Final Removal Action Implementation Plan (RAIP), Sub-Site 2A, Naval Station San Diego, San Diego, California* (FWENC, 1999)
- *Final Field Sampling Plan (FSP), Sub-Site 2A, Naval Station San Diego, San Diego, California* (FWENC, 1999)
- *Draft Site Assessment Report (SAR), IRP Sub-Site 2A, Mole Pier, Naval Station San Diego, San Diego, California* (FWENC, 2001)
- *Final Site Inspection Report (SI) for San Diego Naval Station* (IT, 1992)
- *Final Site Inspection Work Plan for Naval Station San Diego* [Martin Marietta Energy Systems, Inc. (Marietta), 1990]
- *Initial Assessment Study (IAS) of Naval Station, San Diego, California* (NEESA, 1986)
- *Soil Sample Analysis Results, Rehabilitation of Hazardous Materials Rest Room, Site 2, Naval Station San Diego, California* (PWC, 1994a)

- *Part B Permit Application for PWC San Diego Naval Station Hazardous Materials/Hazardous Wastes CST Facility and* [polychlorinated biphenyl] *PCB Facility* (WESTEC, 1988)
- *Site Assessment Report, Subsurface Contamination and Asbestos, Public Works Shop R-072, Naval Station, San Diego* [Woodward-Clyde Consultants (WWC), 1986]

The SI Report (IT, 1992), SAR (WWC, 1986), and the IAS (NEESA, 1986) provide a comprehensive history of IRP Site 2 and are summarized in Section 1.2 of this Final Project Closure Report. Background information pertinent to the IRP Sub-Site 2A NTCRA includes the site-specific features: history of hazardous material disposal; site geology and hydrogeology, including soil and groundwater characteristics; climatic conditions; and the extent of soil contamination as defined by the results of previous sampling and chemical analysis. The background information has been summarized from the above-referenced documents and is included in Table 3-1. Other pertinent information on geology, hydrology, the nature and extent of contamination, and the health risk evaluation are summarized from information provided in the EE/CA (BNI, 1999a).

Data collected during the previous investigations have been used as the basis for the NTCRA at IRP Sub-Site 2A. The following tables and figures included in this Final Project Closure Report present a summary of the previous investigations:

Table 3-1	Pre-removal Action Summary of Previous Investigations
Table 3-2	Maximum Reported Soil Sample Analytical Results – RSE Data Set - 1996
Table 3-3	Pre-removal Action Estimated Total Cancer Risk for Chemicals of Concern
Table 3-4	Pre-removal Action Estimated Total Residential and Industrial Hazard Index for Chemicals of Concern
Table 3-5	Pre-removal Action Estimates of Cancer Risk and Hazard Index for Chemicals of Concern in Soil
Figure 3-1	Sample Locations from Investigations Between 1986 and 1997 – Site 2
Figure 3-2	Dioxins, Pesticides, and PCBs Detected in Soil – 1996 Removal Site Evaluation
Figure 3-3	Volatile and Semivolatile Organic Compounds detected in Soil – 1996 Removal Site Evaluation
Figure 3-4	Inorganics Detected in Soil – 1996 Removal Site Evaluation
Figure 3-5	Resource Conservation and Recovery Act Facility Investigation Phase 2 Soil Analytical Results for Solid Waste Management Unit No. 6.

TABLE 3-1

PRE-REMOVAL ACTION SUMMARY OF PREVIOUS INVESTIGATIONS

Investigation	Scope	Comments
NEESA. 1986. *Initial Assessment Study of Naval Station, San Diego, California.*	Preliminary records search and on-site survey to identify sites posing potential human health and/or environmental threats from past hazardous materials operations.	IR Sub-Site 2A (SWMU No. 6[a,b] vicinity) included among the sites recommended for further evaluation.
Woodward-Clyde Consultants. 1986. *Site Assessment Report, Subsurface Contamination and Asbestos, Public Works Shop R-072, Naval Station, San Diego.*	Drilled/installed 14 soil borings, 10 wells; soil and groundwater samples analyzed for TPH, VOCs, SVOCs, and CCR Title 22 metals.	Low concentrations of TCE (<1 part per million) in soil samples from Borings B-3 and MW-4. Elevated lead and copper concentrations in B-3 were at 3.5 feet bgs. PCE was at 8 µg/L in the MW-4 groundwater sample.
IT. 1992. *Final Site Inspection Report for San Diego Naval Station.*	SI at five IRP sites included 15 soil borings and 3 wells at IRP Site 2. Soil and groundwater samples analyzed for VOCs, SVOCs, TPH, pesticides, PCBs, CCR Title 22 metals, dioxins, and cyanide.	TPH-d was reported in soil samples from BH-01 through BH-6. Several VOCs and SVOCs were also reported in most of these borings and in MW-10. Elevated lead and copper levels were in soil samples from BH-02 and MW-10. Approximately 1.7 mg/L of diesel reported in MW-10 groundwater sample.
PRC Environmental Management, Inc. 1992. *Draft PWC San Diego Naval Station, RCRA Facility Assessment.*	Preliminary data review and visual inspection under the RCRA permit process to identify actual or potential releases from SWMUs; assessed whether corrective action or further investigation was needed.	Thirty SWMUs, five IRP sites, and two AOPCs were identified and described. SWMU No. 6[a,b] was among a group of seven SWMUs recommended for further investigation.
Brown and Caldwell. 1994. *Closure Certification Report.* Hazardous Waste Collection, Storage, and Transfer Facility, Building 3275, Naval Station, San Diego.	Soil and other media sampling in support of collection, storage, and transfer facility closure at Building 3275. Drilled 18 soil borings, including 14 around the facility and 4 at background locations. Samples analyzed for VOCs, SVOCs, pesticides, TPH, and CCR Title 22 metals.	The closest samples to SWMU No. 6[a,b] were collected from Borings B16 and B17. No VOCs, SVOCs, pesticides, or elevated metals concentrations were reported, except beryllium and thallium, slightly above background, in a B16 sample.
PWC. 1994a. *Soil Sample Analysis Results, Rehabilitation of Hazardous Materials Rest Room, Site 2, Naval Station San Diego, California.* May.	Soil sampling performed prior to excavation for a sewer pipeline at and near SWMU No. 6[a,b]. Samples analyzed for VOCs, SVOCs, TPH, TRPH, BTEX, pesticides and PCBs, and CCR Title 22 metals.	No VOCs, SVOCs, TPH, pesticides, or elevated metals concentrations were reported in any samples. TRPH was reported at 3,100 mg/kg in the 5-foot-bgs sample at SWMU No. 6.
PWC. 1994b. *PWC Soil Sampling Activities*: June 1992; September 1992; September 1993.	Limited to soil and other solid media (i.e., sandblast grit, paint chips, asphalt, and loose surface soil) sampling. Primarily analyzed for total and soluble metals concentrations.	Elevated concentrations of copper, lead, zinc, and other metals in sandblast grit, paint chips, and loose surface soil. Metals in near-surface soil samples typically at background concentrations.

TABLE 3-1

PRE-REMOVAL ACTION SUMMARY OF PREVIOUS INVESTIGATIONS

Investigation	Scope	Comments
Pacific Treatment Environmental Services. 1995. *Limited Subsurface Soil Assessments, Site 2, Naval Station San Diego.*	Limited soil assessments at specific areas of Mole Pier. These areas included the PWC paint shop, CDU, and the recycling yard. Samples collected at 1 and 5 feet bgs from eight locations.	No VOCs was detected. Three SVOCs were detected; 2-methyl naphthalene, phenanthrene, and bis(2-ethylhexyl)phthalate. TRPH was reported at 7,650 mg/kg in one sample at 1 foot bgs. Metal concentration was below residential PRGs and calculated NAVSTA background values.
Brown and Caldwell 1997. *RCRA Facility Investigation Report, Southwest Division Naval Air Facilities Engineering Command.*	Sampling of air, soil, groundwater, and sediment. Samples were analyzed for VOCs, CCR Title 22 metals, organotin compounds, and total organic carbon.	No VOCs or metals concentrations exceeded residential PRGs and NAVSTA background values. Concentrations of the organotin compound tributyltin were found in three samples at or above the California Enclosed Bays and Estuaries Water Quality Objective.
Ebasco Environmental. 1994. *Removal Action at Site 2, Wharf Builder's Yard and Disposal Pit.*	Investigation/delineation of metals contamination in shallow soil at Wharf Builder's Yard. Soil and groundwater investigation/delineation at the Disposal Pit. Evaluation and implementation of remedial actions at both sites.	Removal/off-site disposal of metals-contaminated soil were found at Wharf Builder's Yard; on-site thermal treatment of TRPH-impacted soil was performed at Disposal Pit.
Bechtel National, Inc. 1997. *Draft* RSE for *IR Sites 1, 2, and 4, Naval Station, San Diego, California.*	Removal site evaluation included IRP Site 2, AOPC-1 [a,b]. Installed seven direct-push soil borings and two groundwater wells. Analyses included VOCs, SVOCs, pesticides and PCBs, target analyte list metals, and dioxins.	An area of PAH and lead contamination was identified and apparently limited to the south of SWMU No. 6 [a,b]. Approximately 2 mg/L of TPH-d were reported in MW-10 and MW-13. Removal action recommended for hot spots at AOPC-1 [a,b]
Bechtel National, Inc. 1998[b]. *Preliminary Final RCRA Facility Investigation, Phase II Report, Southwest Division Naval Facilities Engineering Command, CLEAN Program, Naval Station San Diego.*	Collection and analysis of surface/subsurface soil and in situ groundwater samples. Analysis included VOCs and CCR Title 22 metals.	Lead concentrations exceeded the NAVSTA background values and residential PRGs in surface and subsurface soil. Hexavalent chromium exceeded the residential PRGs in surface and subsurface soil. Arsenic exceeded the NAVSTA background value in one surface soil sample. The most commonly occurring VOCs in groundwater were 1,2-DCE, TCE, 1,2-DCB, and benzene. Groundwater samples were analyzed from unfiltered samples and were elevated due to sample turbidity and were not believed to be representative of dissolved concentrations in groundwater.

TABLE 3-1

PRE-REMOVAL ACTION SUMMARY OF PREVIOUS INVESTIGATIONS

Investigation	Scope	Comments
Foster Wheeler Environmental Corporation. 2001. *Draft Site Assessment Report, IR Sub-site 2A, Mole Pier, Naval Station San Diego, San Diego, California.*	Collection and analysis of surface/subsurface soil for VOCs, SVOCs, CCR Title 22 metals, PCBs, dioxin, and hexavalent chromium. Combine data from the site assessment sampling with data from previous investigations (CCR; Brown and Caldwell, 1994; and Bechtel National, Inc., 1997) to identify areas with concentrations exceeding residential PRGs and NAVSTA background values.	Thirteen chemicals of concern were identified from the combined data. Hexavalent chromium, PCBs, PAHs, and dioxin concentrations exceeded residential PRGs. Arsenic, antimony, lead, and thallium exceeded residential PRGs and/or NAVSTA background values.

Notes:

[a] AOPC-1 and SWMU-6 are located within the boundaries of IR Sub-Site 2A.

[b] IR Sub-Site 2A was referenced in previous documents as AOPC-1 and SWMU No. 6.

µg/L – micrograms per liter
AOPC – area of potential concern
bgs – below ground surface
BTEX – benzene, toluene, ethylbenzene, and xylenes
CCR – California Code of Regulations
CDU – Consolidated Diver's Unit
DCB – dichlorobenzene
DCE – dichloroethene
IR – Installation Restoration
IRP – Installation Restoration Program
IT – International Technology Corporation
mg/kg – milligrams per kilogram
mg/L – milligrams per liter
NAVSTA – Naval Station
NEESA – Naval Energy and Environmental Support Activity
PAH – polynuclear aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCE – tetrachloroethene
PRG – Preliminary Residential Goal
PWC – Public Works Center
RCRA – Resource Conservation and Recovery Act
RSE – Removal Site Evaluation
SI – Site Inspection
SVOC – semivolatile organic compound
SWMU – Solid Waste Management Unit
TCE – trichloroethene
TPH – total petroleum hydrocarbons
TPH-d – total petroleum hydrocarbons quantified as diesel
TRPH – total recoverable petroleum hydrocarbons
VOC – volatile organic compound

Source: Preliminary Final RCRA Facility Investigation, Phase II Report (Bechtel National, Inc., 1998b)

TABLE 3-2

MAXIMUM REPORTED SOIL SAMPLE ANALYTICAL RESULTS - RSE DATA SET - 1996

Analyte	Residential PRGs	Industrial PRGs	Station ID	Maximum Results	Depth (feet)	Number of Detections	Samples Analyzed	Percent Detection
Volatile Organic Compounds								
1,1,2-trichloroethane	0.65	1.5	MW13	0.002	7.5	1	20	5
2-butanone	7,100	27,000	MW13	0.43	7.5	3	20	15
2-hexanone	---[b]	---	MW13	0.017	7.5	2	20	10
4-methyl-2-pentanone	2,800	770	MW13	0.006	7.5	4	20	20
Acetone	2,100	8,800	SB01	0.17	0.5	3	20	15
Benzene	0.63	1.4	SB01	0.002	8.5	1	20	5
Carbon disulfide	7.5	2.4	SB02	0.004	0.5	2	20	10
Ethylbenzene[c]	230	230	SB01	0.16	8.5	2	20	10
Methylene chloride	7.8	18	MW13	0.004	7.5	1	20	5
tetrachloroethene[d]	5.4	17	MW13	0.013	7.5	1	20	5
Toluene	790	880	MW13	0.006	7.5	2	20	10
Total xylenes	320	320	MW13	0.005	7.5	3	20	15
Semivolatile Organic Compounds								
2-methylnaphthalene	---	---	SB02	66	8.5	3	23	13
4-chlorophenyl phenyl ether	---	---	SB02	4.6	8.5	1	23	4
4-methylphenol	330	3,400	SB01	0.82	0.5	1	21	5
Acenaphthylene[c]	110	110	SB01	2	0.5	1	23	4
Anthracene[c]	5.7	5.7	SB02	11	8.5	2	23	9
Benz[a]anthracene	0.61	2.6	SB01	9.3	0.5	6	23	26
Benzo[a]pyrene	0.06	0.26	SB01	6.6	0.5	7	23	30
Benzo[b]fluoranthene	0.61	2.6	SB01	24	0.5	7	23	30
Benz[g,h,i]perylene	---	---	SB01	17	0.5	8	23	35
Benzo[k]fluoranthene	0.61	26	SB01	19	0.5	8	23	35
bis(2-ethylhexyl)phthalate	32	140	MW14	0.1	0.5	1	23	4
Carbazole	22	95	SB01	1.3	0.5	1	23	4
Chrysene[d]	6.1	7.2	SB01	15	0.5	9	23	39
Dibenz[a,h]anthracene	0.061	0.26	SB01	4.2	0.5	4	23	17
Dibenzofuran[d]	140	140	MW13	2.2	7.5	1	23	4
Fluoranthene	2,600	27,000	SB01	15	0.5	7	23	30
Fluorene	90	90	MW13	5.2	7.5	1	23	4

TABLE 3-2

MAXIMUM REPORTED SOIL SAMPLE ANALYTICAL RESULTS - RSE DATA SET - 1996

Analyte	Residential PRGs	Industrial PRGs	Station ID	Maximum Results	Depth (feet)	Number of Detections	Samples Analyzed	Percent Detection
Indeno[1,2,3-c,d]pyrene	0.61	2.6	SB01	16	0.5	8	23	35
Naphthalene	240	240	SB02	17	8.5	4	23	17
Phenanthrene	---	---	SB02	16	8.5	5	23	22
Phenol	39,000	100,000	SB01	26	0.5	6	21	29
Pyrene	100	100	SB01	26	0.5	9	23	39
Pesticides								
4,4'-DDE[e]	1.9	7.9	SB01	0.025	0.5	7	20	35
4,4'-DDE[f]	1.3	5.6	MW14	0.01	0.5	7	20	35
4,4'-DDT[g]	1.3	5.6	SB01	0.027	0.5	7	20	35
Aldrin	0.026	0.11	SB01	0.0033	0.5	5	20	25
alpha-chlordane[h]	0.34	1.5	SB01	0.0012	0.5	5	20	25
Aroclor 1260[i]	0.066	0.34	SB02	0.077	0.5	2	20	10
beta-BHC[j]	0.25	1.1	MW13	0.0038	7.5	6	20	30
delta-BHC[k]	0.25	1.1	SB01	0.0007	0.5	2	20	10
Dieldrin	0.028	0.12	SB02	0.0023	0.5	4	20	20
Endosulfan I[l]	390	4,100	SB02	0.0013	0.5	3	20	15
Endosulfan II[l]	390	4,100	SB01	0.015	0.5	6	20	30
Endosulfan sulfate[l]	390	4,100	SB01	0.0033	0.5	1	20	5
Endrin	20	200	SB04	0.00095	0.5	5	20	25
Endrin aldehyde[m]	20	200	SB01	0.0068	0.5	4	20	20
Endrin ketone[m]	20	200	SB01	0.017	0.5	3	20	15
gamma-BHC (lindane)	0.34	1.5	MW13	0.002	7.5	1	20	5
gamma-chlordane[h]	0.34	1.5	SB02	0.0023	0.5	5	20	25
Heptachlor	0.099	0.42	SB02	0.00052	0.5	4	20	20
Heptachlor epoxide	0.049	0.21	SB02	0.0016	0.5	3	20	15
Methoxychlor	330	3,400	SB01	19	0.5	3	20	15
Dioxins								
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	---	---	SB01	0.00848	0.5	11	20	55
1,2,3,4,6,7,8,9-octachlorodibenzofuran	---	---	SB01	0.00028	0.5	4	20	20
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	---	---	SB01	0.00097	0.5	4	20	20
1,2,3,4,6,7,8-heptachlorodibenzofuran	---	---	SB01	0.00066	0.5	4	20	20

TABLE 3-2

MAXIMUM REPORTED SOIL SAMPLE ANALYTICAL RESULTS - RSE DATA SET - 1996

Analyte	Residential PRGs	Industrial PRGs	Station ID	Maximum Results	Depth (feet)	Number of Detections	Samples Analyzed	Percent Detection
1,2,3,4,7,8,9-heptachlorodibenzofuran	---	---	SB01	0.000025	0.5	1	20	5
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	---	---	SB01	0.000028	0.5	2	20	10
1,2,3,4,7,8-hexachlorodibenzofuran	---	---	SB01	0.00027	0.5	2	20	10
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	---	---	SB01	0.000047	0.5	2	20	10
1,2,3,6,7,8-hexachlorodibenzofuran	---	---	SB01	0.000084	0.5	2	20	10
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	---	---	SB01	0.00011	0.5	2	20	10
1,2,3,7,8-pentachlorodibenzo-p-dioxin	---	---	SB01	0.000021	0.5	2	20	10
1,2,3,7,8-pentachlorodibenzofuran	---	---	SB01	0.000034	0.5	2	20	10
2,3,4,6,7,8-hexachlorodibenzofuran	---	---	SB01	0.00013	0.5	2	20	10
2,3,4,7,8-pentachlorodibenzofuran	---	---	SB01	0.000075	0.5	2	20	10
2,3,7,8-tetrachlorodibenzo-p-dioxin	0.0000038	0.000024	SB01	0.0000068	0.5	2	20	10
2,3,7,8-tetrachlorodibenzofuran	---	---	SB01	0.00015	0.5	2	20	10
Heptachlorodibenzo-p-dioxins	---	---	SB01	0.00288	0.5	7	20	35
Heptachlorodibenzofurans	---	---	SB01	0.00116	0.5	6	20	30
Hexachlorodibenzo-p-dioxins	---	---	SB01	0.00061	0.5	3	20	15
Hexachlorodibenzofurans	---	---	SB01	0.00128	0.5	5	20	25
Pentachlorodibenzo-p-dioxins	---	---	SB01	0.00011	0.5	2	20	10
Pentachlorodibenzofurans	---	---	SB01	0.000996	0.5	6	20	30
Tetrachlorodibenzo-p-dioxins	---	---	SB01	0.00014	0.5	2	20	10
Tetrachlorodibenzofurans	---	---	SB01	0.00083	0.5	6	20	30
2,3,7,8-TCDD (dioxin)-equivalent concentration[n]	0.0000038	0.000024	---	0.00015[n]	---	---	---	---
Metals								
Aluminum	77,000	100,000[o]	SB01	14,700	8.5	20	23	87
Antimony	31	68	SB03	6	0.5	2	23	9
Arsenic[p]	0.38	2.4	SB05	13.3	0.5	20	23	87
Barium	5,300	100,000[o]	MW13	208	0.5	20	23	87
Beryllium	0.14	1.1	SB05	0.63	0.5	4	23	17
Cadmium[d]	9	850	SB01	1.5	0.5	5	23	22
Chromium	210	450	SB03	77.1	0.5	20	23	87
Cobalt	4,600	97,000	SB03	14.4	0.5	17	23	74
Copper	2,800	63,000	SB03	2,000	0.5	13	23	57

TABLE 3-2

MAXIMUM REPORTED SOIL SAMPLE ANALYTICAL RESULTS - RSE DATA SET - 1996

Analyte	Residential PRGs	Industrial PRGs	Station ID	Maximum Results	Depth (feet)	Number of Detections	Samples Analyzed	Percent Detection
Lead[d]	130	1,000	SB03	923	0.5	20	23	87
Manganese	3,200	43,000	SB03	735	0.5	20	23	87
Mercury[q]	6.5	68	SB01	6.8	0.5	4	23	17
Nickel[d]	150	34,000	SB03	138	0.5	13	23	57
Selenium	380	8,500	SB05	3.4	0.5	4	23	17
Thallium[r]	5.4	120	SB01	0.33	8.5	2	23	9
Vanadium	540	12,000	SB01	67.3	8.5	20	23	87
Zinc	23,000	100000[o]	SB03	1,800	0.5	20	23	87
Hexavalent chromium[d]	0.2	64	SB01	25	0.5	6	22	27

Notes:

[a] PRG - Preliminary Remediation Goal; United States Environmental Protection Agency Region IX residential and industrial PRGs for soil (EPA, 1998)

[b] --- no PRG value identified

[c] soil saturation

[d] California Environmental Protection Agency-modified PRG (EPA, 1996)

[e] DDD - dichlorodiphenyldichloroethane

[f] DDE - dichlorodiphenyldichloroethene

[g] DDT - dichlorodiphenyltrichloroethane

[h] PRG value for chlordane used as surrogate value

[i] PRG value for polychlorinated biphenyls used as surrogate value for Aroclor 1260

[j] BHC - hexachlorocyclohexane (HCCH)

[k] PRG value for HCCH-technical used as surrogate value for delta-BHC

[l] PRG value for endosulfan used as surrogate value

[m] PRG value for endrin used as surrogate value

[n] toxicity equivalent concentration = (maximum concentration) x (toxicity equivalence factor)

[o] maximum industrial PRG value

[p] arsenic (cancer endpoint) PRG value used

[q] PRG value for mercury (methyl) used as surrogate value for mercury

[r] PRG value for thallic oxide used as surrogate value for thallium

TABLE 3-3

PRE-REMOVAL ACTION ESTIMATED TOTAL CANCER RISK FOR CHEMICALS OF CONCERN

Analyte	Maximum Concentration (mg/kg)[a]	RESIDENTIAL					INDUSTRIAL	
		PRG[b] (mg/kg)	Carcinogenic Risk	Cal-modified Risk	Background Risk	Incremental Risk	PRG (mg/kg)	Carcinogenic Risk
Volatile Organic Compounds								
1,1,2-trichloroethane	0.002	0.82	2.44E-09	2.44E-09	N/A[c]	N/A	1.9	1.05E-09
1,4-dichlorobenzene	0.056	3	1.87E-08	1.87E-08	N/A	N/A	7.3	7.67E-09
Benzene	0.003	0.62	4.84E-09	4.84E-09	N/A	N/A	1.4	2.14E-09
Chloromethane	0.001	1.2	8.33E-10	8.33E-10	N/A	N/A	2.7	3.70E-10
Methylene chloride	0.004	8.5	4.71E-10	4.71E-10	N/A	N/A	20	2.00E-10
Tetrachloroethene	0.815	4.7	1.73E-07	1.73E-07	N/A	N/A	16	5.09E-08
Trichloroethene	0.17	2.7	6.30E-08	6.30E-08	N/A	N/A	6.1	2.79E-08
Class Sum			**2.64E-07**	**2.64E-07**	**0.00E+00**	**0.00E+00**		**9.02E-08**
Semivolatile Organic Compounds								
Benz[a]anthracene[d]	9.3	0.56	**1.66E-05**	**1.66E-05**	N/A	N/A	3.6	**2.58E-06**
Benz[a]pyrene[d]	6.6	0.056	**1.18E-04**	**1.18E-04**	N/A	N/A	0.36	**1.83E-05**
Benzo[b]fluoranthene[d]	24	0.56	**4.29E-05**	**4.29E-05**	N/A	N/A	3.6	**6.67E-06**
Benzo[k]fluoranthene[d]	19	0.61[e]	**3.39E-06**	**3.11E-05**	N/A	N/A	36	5.28E-07
bis(2-ethylhexyl)phthalate	4.84	32	1.51E-07	1.51E-07	N/A	N/A	210	2.30E-08
Chrysene[d]	15	6.1[e]	**2.68E-07**	**2.46E-06**	N/A	N/A	360	4.17E-08
Dibenz[a,h]anthracene[d]	4.2	0.056	**7.50E-05**	**7.50E-05**	N/A	N/A	0.36	**1.17E-05**
Indeno[1,2,3-c,d]pyrene	16	0.56	**2.86E-05**	**2.86E-05**	N/A	N/A	3.6	**4.44E-06**
Class Sum			**2.85E-04**	**3.15E-04**	**0.00E+00**	**0.00E+00**		**4.42E-05**
Pesticides and PCBs[f]								
4,4'-DDD[g]	0.17	2.4	7.08E-08	7.08E-08	N/A	N/A	19	8.59E-09
4,4'-DDE[h]	0.17	1.7	1.00E-07	1.00E-07	N/A	N/A	13	1.31E-08
4,4'-DDT[i]	0.14	1.7	8.24E-08	8.24E-08	N/A	N/A	13	1.08E-08
Aldrin	0.0033	0.026	1.27E-07	1.27E-07	N/A	N/A	0.18	1.83E-08
alpha-chlordane	0.0012	1.6	7.50E-10	7.50E-10	N/A	N/A	12	1.00E-10
Aroclor 1260	0.077	0.2	3.85E-07	3.85E-07	N/A	N/A	1.3	5.92E-08
beta-BHC[i]	0.0038	0.3	1.27E-08	1.27E-08	N/A	N/A	2.3	1.66E-09
Carazole	1.3	22	5.91E-08	5.91E-08	N/A	N/A	150	8.67E-09
delat-BHC	0.0007	0.42	1.67E-09	1.67E-09	N/A	N/A	3.2	2.19E-10

TABLE 3-3

PRE-REMOVAL ACTION ESTIMATED TOTAL CANCER RISK FOR CHEMICALS OF CONCERN

Analyte	Maximum Concentration (mg/kg)[a]	RESIDENTIAL					INDUSTRIAL	
		PRG[b] (mg/kg)	Carcinogenic Risk	Cal-modified Risk	Background Risk	Incremental Risk	PRG (mg/kg)	Carcinogenic Risk
Dieldrin	0.0023	0.028	8.21E-08	8.21E-08	N/A	N/A	0.19	1.21E-08
gamma-BHC (Lindane)	0.002	0.42	4.76E-09	4.76E-09	N/A	N/A	3.2	6.25E-10
gamma-chlordane	0.0023	1.6	1.44E-09	1.44E-09	N/A	N/A	12	1.92E-10
Heptachlor	0.00052	0.099	5.25E-09	5.25E-09	N/A	N/A	0.67	7.76E-10
Heptachlor epoxide	0.0016	0.049	3.27E-08	3.27E-08	N/A	N/A	0.33	4.85E-09
Class Sum			**9.66E-07**	**9.66E-07**	**0.00E+00**	**0.00E+00**		**1.40E-07**
Dioxins and Furans								
2,3,7,8-TCDD (dioxin) equivalent[k,d]	**0.000164**	**0.0000038**	4.32E-05	4.32E-05	N/A	N/A	0.00003	**5.47E-06**
Class Sum			**4.32E-05**	**4.32E-05**	**0.00E+00**	**0.00E+00**		**5.47E-06**
Metals								
Arsenic[d]	13.3	0.38	**3.50E-05**	**3.50E-05**	2.38E-05	**1.12E-05**	3	**4.43E-06**
Cadmium	6.8	9[e]	4.86E-09	7.56E-07	N/A	N/A	3,000	2.27E-09
Chromium, total	114	210	5.43E-07	5.43E-07	2.06E-07	3.37E-07	450	2.53E-07
Chromium, hexavalent[d]	25	0.2[e]	**8.33E-07**	**1.25E-04**	N/A	N/A	64	3.91E-07
Nickel	138	150[e]	N/A	9.20E-07	N/A	N/A		**N/A**
Class Sum			**3.64E-05**	**1.62E-04**	**2.40E-05**	**1.38E-04**		**5.07956E-06**
Total Residential and Industrial Cancer Risk			**3.65E-04**	**5.21E-04**	**2.40E-05**	**4.97E-04**		**5.51E-05**

Notes:

[a] mg/kg - milligrams per kilogram

[b] PRG - Preliminary Remediation Goal; United States Environmental Protection Agency Region IX industrial and residential PRGs for soil (EPA, 1998)

[c] N/A - not applicable

[d] bold indicates primary risk drivers using residential or industrial PRG values

[e] Cal-modified PRG (EPA, 1998)

[f] PCB - polychlorinated biphenyl

[g] DDD - dichlorodiphenyldichloroethane

[h] DDE - dichlorodiphenyldichloroethene

[i] DDT - dichlorodiphenyltrichloroethane

[j] BHC - benzene hexachloride

[k] toxicity equivalence concentration = (maximum concentration) x (toxicity equivalence factor)

TABLE 3-4

PRE-REMOVAL ACTION ESTIMATED TOTAL RESIDENTIAL AND INDUSTRIAL HAZARD INDEX FOR CHEMICALS OF CONCERN

Analyte	Maximum Concentration (mg/kg)[a]	Background Concentration (mg/kg)	RESIDENTIAL		INDUSTRIAL	
			Noncancer Residential PRG[b] (mg/kg)	Residential Hazard Index	Noncancer Industrial PRG (mg/kg)	Industrial Hazard Index
Volatile Organic Compounds						
1,1,2-trichloroethane	0.002		39	0.00005	150	0.00001
1,2,4-trichlorobenzene	0.02		480	0.00004	5,700	0.000004
1,2,4-trimethylbenzene	0.68		51	0.01	170	0.004
1,2-dichloroethylene	0.046		42	0.001	150	0.0003
1,3,5-trimethylbenzene	0.14		21	0.007	70	0.002
1,3-dichlorobenzene	0.002		41	0.00005	140	0.00001
2-butanone	0.043		690	0.00006	27,000	0.000002
2-hexanone	0.017		120	0.0001	400[c]	0.00004
4-methyl-2-pentanone	0.006		750	0.000008	2,800	0.000002
Acetone	0.35		1,400	0.0003	6,100	0.00006
Benzene	0.003		7.1	0.0004	24	0.0001
Carbon disulfide	0.043		350	0.00012	1,200	0.00004
Chloromethane	0.001		4,700[c]	0.0000002	18,400[c]	0.0000001
Isopropylbenzene	0.037		160	0.0002	520	0.00007
Methylene chloride	0.004		1,600	0.000003	9,100	0.0000004
n-butylbenzene	0.12		1,300	0.00009	550	0.0002
n-propylbenzene	0.091		1,300	0.00007	550	0.0002
p-isopropyltolune	0.03		160	0.0002	520	0.00006
sec-butylbenzene	0.1		100	0.001	410	0.0002
Tetrachloroethene	0.815		280	0.003	1,600	0.0005
Toluene	0.22		580	0.0004	2,000	0.0001
Trichloroethene	0.17		23	0.007	79	0.002
Class Sum				**0.03**		**0.01**

TABLE 3-4

PRE-REMOVAL ACTION ESTIMATED TOTAL RESIDENTIAL AND INDUSTRIAL HAZARD INDEX FOR CHEMICALS OF CONCERN

Analyte	Maximum Concentration (mg/kg)[a]	Background Concentration (mg/kg)	RESIDENTIAL		INDUSTRIAL	
			Noncancer Residential PRG[b] (mg/kg)	Residential Hazard Index	Noncancer Industrial PRG (mg/kg)	Industrial Hazard Index
Semivolatile Organic Compounds						
4-methylphenol	0.82		270	0.003	5,300	0.0002
Benz[a]anthracene	9.3		14,333[c]	0.001	222,306[c]	0.00004
Benz[a]pyrene	6.6		1,483[c]	0.004	26,472[c]	0.0002
Benzo[b]fluoranthene	24		1,998[c]	0.01	37,404[c]	0.0006
Benzo[g,h,i]perylene	17		1,500	0.01	26,000	0.0007
Benzo[k]fluoranthene	19		1,998[c]	0.01	37,403[c]	0.0005
bis(2-ethylhexyl)phthalate	4.84		1,100	0.004	21,000	0.0002
Chrysene	15		14,333[c]	0.001	222,306[c]	0.00007
di-n-butyl phthalate	0.17		5.50E+03	0.00003	110,000	0.000002
Dibenz[a,h]anthracene	4.2		14,333[c]	0.0003	222,306[c]	0.00002
Fluoranthene	15		2,000	0.008	37,000	0.0004
Indeno[1,2,3-c,d]pyrene	16		1,998[c]	0.008	37,403[c]	0.0004
Phenol	26		33,000	0.001	640,000	0.00004
Class Sum				**0.06**		**0.003**
Pesticides and PCBs[d]						
4,4'-DDD[f]	0.17		35[c]	0.005	800[c]	0.0002
4,4'-DDE[f]	0.17		35[c]	0.005	800[c]	0.0002
4,4'-DDT[g]	0.14		35	0.004	800	0.0002
Aldrin	0.0033		1.6	0.002	32	0.0001
alpha-chlordane	0.0012		33	0.00004	750	0.000002
Aroclor 1260	0.077		1	0.08	18	0.004
beta-BHC[h]	0.0038		20[c]	0.0002	449[c]	0.00001
Carazole	1.3		1,363[c]	0.001	26,722[c]	0.00005
delta-BHC	0.0007		20	0.00004	450	0.000002

TABLE 3-4

PRE-REMOVAL ACTION ESTIMATED TOTAL RESIDENTIAL AND INDUSTRIAL HAZARD INDEX FOR CHEMICALS OF CONCERN

Analyte	Maximum Concentration (mg/kg)[a]	Background Concentration (mg/kg)	RESIDENTIAL		INDUSTRIAL	
			Noncancer Residential PRG[b] (mg/kg)	Residential Hazard Index	Noncancer Industrial PRG (mg/kg)	Industrial Hazard Index
Dieldrin	0.0023		2.7	0.0009	53	0.00004
Endosulfan I	0.0013		330	0.000004	6,400	0.0000002
Endosulfan II	0.015		330	0.00005	6,400	0.000002
Endosulfan sulfate	0.0033		330	0.00001	6,400	0.000001
Endrin	0.00095		16	0.0001	320	0.000003
Endrin aldehyde	0.0068		16	0.0004	320	0.00002
Endrin ketone	0.017		16	0.001	320	0.00005
gamma-BHC (Lindane)	0.002		20	0.0001	450	0.000004
gamma-chlordane	0.0023		33	0.0001	750	0.000003
Heptachlor	0.00052		2.70E-01	0.00002	530	0.000001
Heptachlor epoxide	0.0016		0.71	0.002	14	0.0001
Methyoxychlor	0.019		270	0.0001	5,300	0.000004
Class Sum				**0.1**		**0.005**
Dioxins and Furans						
Dibenzofuran	2.2		210	0.01	3,200	0.0007
Class Sum				**0.01**		**0.0007**
Metals						
Aluminum	14,700		75,000	0.20	1,900,000	0.008
Antimony	17		30	0.57	750	0.02
Arsenic	13.3	9.05	21	0.63	480	0.03
Barium	233		5,200	0.04	120,000	0.002
Beryllium	5.65	3.55	150	0.04	3,700	0.002
Cadmium	6.8		38	0.18	930	0.007
Chromium, hexavalent	25		370	0.07	9,400	0.003
Cobalt	33		3,300	0.01	29,000	0.001

TABLE 3-4

PRE-REMOVAL ACTION ESTIMATED TOTAL RESIDENTIAL AND INDUSTRIAL HAZARD INDEX FOR CHEMICALS OF CONCERN

Analyte	Maximum Concentration (mg/kg)[a]	Background Concentration (mg/kg)	RESIDENTIAL		INDUSTRIAL	
			Noncancer Residential PRG[b] (mg/kg)	Residential Hazard Index	Noncancer Industrial PRG (mg/kg)	Industrial Hazard Index
Copper	2,000	189	2,800	0.71	7,000	0.29
Manganese	735		3,100	0.24	45,000	0.016
Molybdenum	91.7		370	0.25	9,400	0.01
Nickel	138		1,500	0.09	37,000	0.004
Selenium	16.8		370	0.05	9,400	0.002
Silver	2		370	0.01	9,400	0.0002
Thallium	15.5	11.1	5	2.98	130	0.12
Vanadium	101		520	0.19	13,000	0.008
Zinc	1,800		22,000	0.08	560,000	0.003
Class Sum				**6.33**		**0.52**
Total Hazard Index				**6.54**		**0.54**

Notes:

[a] mg/kg - milligrams per kilogram

[b] PRG - Preliminary Remediation Goal; United States Environmental Protection Agency Region IX residential and industrial PRGs for soil (EPA, 1998)

[c] value based on surrogate PRG

[d] PCB - polychlorinated biphenyl

[e] DDD - dichlorodiphenyldichloroethane

[f] DDE - dichlorodiphenyldichloroethene

[g] DDT - dichlorodiphenyltrichloroethane

[h] BHC - benzene hexachloride

[i] bold indicates primary risk driver using industrial PRG values

TABLE 3-5

PRE-REMOVAL ACTION ESTIMATES OF CANCER RISK AND HAZARD INDEX FOR CHEMICALS OF CONCERN IN SOIL

RESIDENTIAL SCENARIO						
	EPA Cancer Risk[a]	Cal/EPA Cancer Risk[a]	Background Cancer Risk	Incremental Cal/EPA Cancer Risk[b]		
Total Cancer Risk	3.84E-04	5.40E-04	4.91E-05	4.91E-04	Total Hazard Index[c]	6.23
Cancer Risk Drivers	Cancer Risk Values, Percentage of Cancer Risk				Hazard Drivers	Hazard Indices, Percentage of Hazard Index
Chromium, hexavalent	N/A [d]	1.00E-04 23%		1.00E-04 25%	Thallium	2.53E+00 41%
Benzo[a]pyrene	1.00E-04 28%	1.00E-04 20%		1.00E-04 22%	Copper	7.02E-01 11%
Dibenz[a,h]anthracene	7.00E-05 18%	7.00E-05 13%		7.00E-05 14%	Arsenic	6.01E-01 10%
Dioxin-like-compounds[e]	4.00E-05 11%	4.00E-05 8%		4.00E-05 9%	Antimony	5.54E-01 9%
Beryllium	4.00E-05 10%	4.00E-05 7%	2.00E-05 51%	1.00E-05 3%	Mercury	2.96E-01 5%
Benzo[b]fluoranthene	4.00E-05 10%	4.00E-05 7%		4.00E-05 8%	Manganese	2.31E-01 4%
Arsenic	3.00E-06 9%	3.00E-06 7%	2.00E-05 49%	1.00E-05 2%	Molybdenum	2.39E-01 4%
Benzo[k]fluoranthene	3.00E-05 1%	3.00E-05 6%		3.00E-05 6%	Aluminum	1.92E-01 4%
Indeno[1,2,3-c,d]pyrene	2.00E-05 7%	2.00E-05 5%		2.00E-05 5%	Other metals	7.15E-01 11%
Benz[a]anthracene	2.00E-05 4%	2.00E-06 3%		2.00E-06 3%		
Chrysene	N/A [d]	2.00E-06 0.46%		2.00E-06 1%		
Aroclor 1260	1.00E-06 0.31%	1.00E-06 0.22%		1.00E-06 0.24%		

Notes:

[a] risk estimates are based on carcinogenic residential PRG values

[b] incremental Cal/EPA cancer risk was calculated by subtracting the background cancer risk from the total cancer risk

[c] hazard indices are based on noncancer residential PRG values

[d] not applicable; COC is not identified as a cancer risk driver (i.e., risk is estimated below 1E-6)

[e] chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans

Cal/EPA - California Environmental Protection Agency
COC - chemical of concern
EPA - U.S. Environmental Protection Agency
PRG - Preliminary Remediation Goal

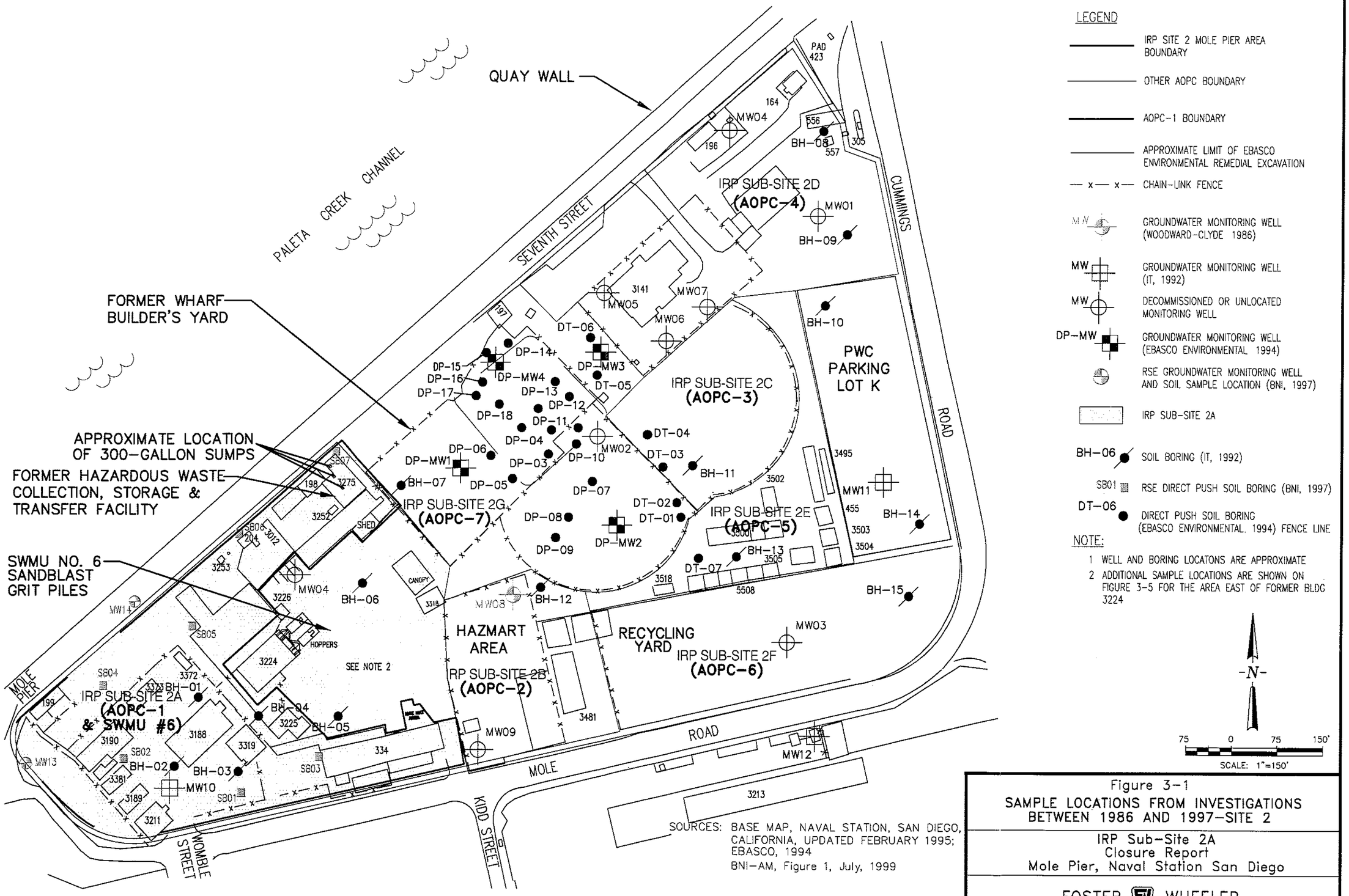

Figure 3-1
SAMPLE LOCATIONS FROM INVESTIGATIONS BETWEEN 1986 AND 1997-SITE 2

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER ENVIRONMENTAL CORPORATION

DRAWING NO: 03075931.DWG
DCN: FWSD-RAC-03-0759
N68711-98-D-5713 CTO-0039
APPROVED BY: RR
CHECKED BY: RR
REV: i
DRAWN BY: KLD
DATE: 10/10/03

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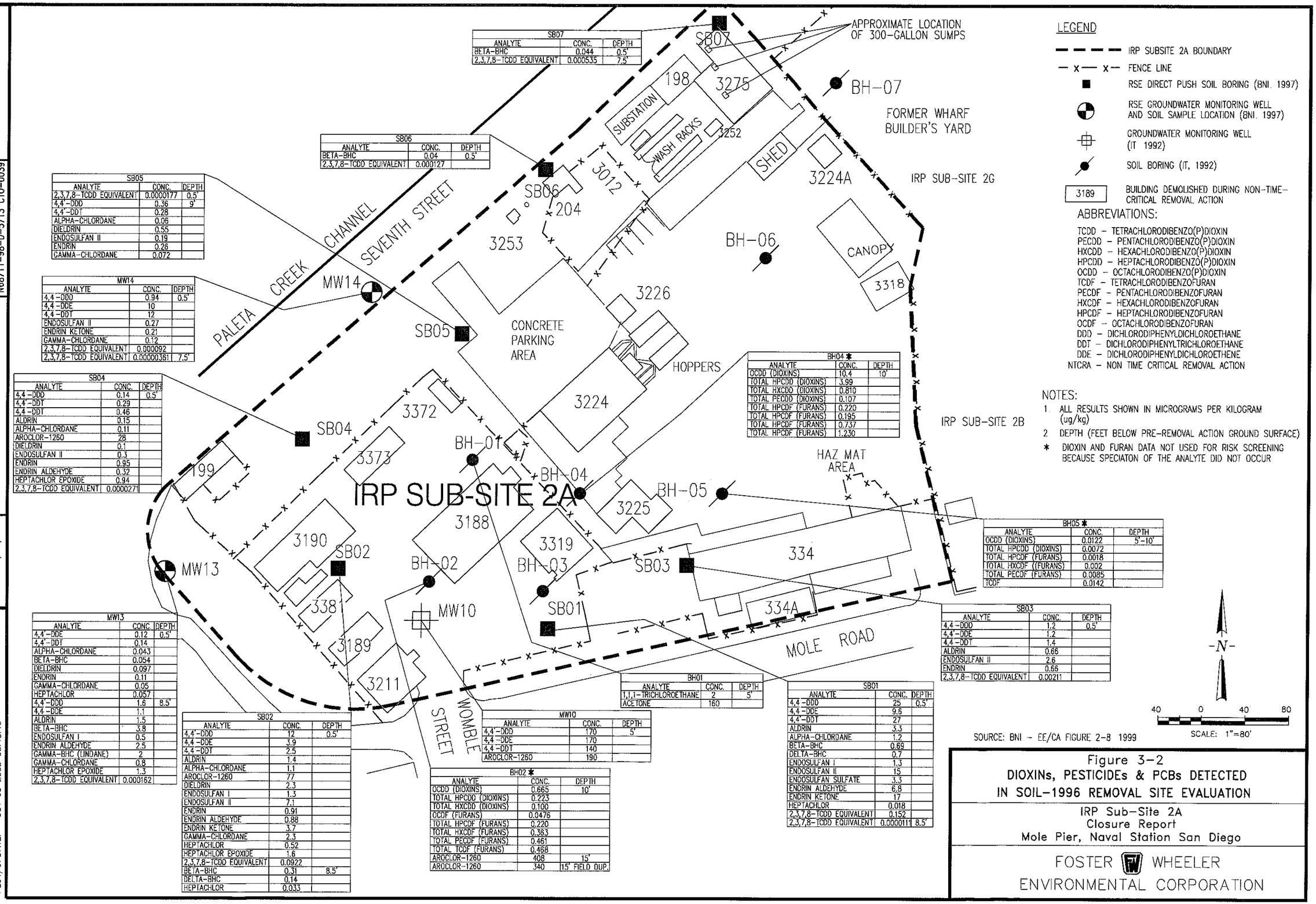
PLOT/UPDATE: OCT 09 2003 08:10:36



SB07		
ANALYTE	CONC.	DEPTH
BETA-BHC	0.044	0.5'
2,3,7,8-TCDD EQUIVALENT	0.000535	7.5'

SB06		
ANALYTE	CONC.	DEPTH
BETA-BHC	0.04	0.5'
2,3,7,8-TCDD EQUIVALENT	0.000127	

SB05		
ANALYTE	CONC.	DEPTH
2,3,7,8-TCDD EQUIVALENT	0.0000177	0.5'
4,4'-DDD	0.36	9'
4,4'-DDT	0.28	
ALPHA-CHLORDANE	0.06	
DIELDRIN	0.55	
ENDOSULFAN II	0.19	
ENDRIN	0.26	
GAMMA-CHLORDANE	0.072	

MW14		
ANALYTE	CONC.	DEPTH
4,4'-DDD	0.94	0.5'
4,4'-DDE	10	
4,4'-DDT	12	
ENDOSULFAN II	0.27	
ENDRIN KETONE	0.21	
GAMMA-CHLORDANE	0.12	
2,3,7,8-TCDD EQUIVALENT	0.000092	
2,3,7,8-TCDD EQUIVALENT	0.00000361	7.5'

SB04		
ANALYTE	CONC.	DEPTH
4,4'-DDD	0.14	0.5'
4,4'-DDT	0.29	
4,4'-DDT	0.46	
ALDRIN	0.15	
ALPHA-CHLORDANE	0.11	
AROCLOR-1260	28	
DIELDRIN	0.1	
ENDOSULFAN II	0.3	
ENDRIN	0.95	
ENDRIN ALDEHYDE	0.32	
HEPTACHLOR EPOXIDE	0.94	
2,3,7,8-TCDD EQUIVALENT	0.0000271	

BH04 *		
ANALYTE	CONC.	DEPTH
OCDD (DIOXINS)	10.4	10'
TOTAL HPCDD (DIOXINS)	3.99	
TOTAL HXCDD (DIOXINS)	0.810	
TOTAL PECDD (DIOXINS)	0.107	
TOTAL HPCDF (FURANS)	0.220	
TOTAL HPCDF (FURANS)	0.195	
TOTAL HPCDF (FURANS)	0.737	
TOTAL HPCDF (FURANS)	1.230	

BH05 *		
ANALYTE	CONC.	DEPTH
OCDD (DIOXINS)	0.0122	5'-10'
TOTAL HPCDD (DIOXINS)	0.0072	
TOTAL HPCDF (FURANS)	0.0018	
TOTAL HXCDF ((FURANS)	0.002	
TOTAL PECDF (FURANS)	0.0085	
TCDF	0.0142	

SB03		
ANALYTE	CONC.	DEPTH
4,4'-DDD	1.2	0.5'
4,4'-DDE	1.2	
4,4'-DDT	1.4	
ALDRIN	0.66	
ENDOSULFAN II	2.6	
ENDRIN	0.66	
2,3,7,8-TCDD EQUIVALENT	0.00211	

MW13		
ANALYTE	CONC.	DEPTH
4,4'-DDE	0.12	0.5'
4,4'-DDT	0.14	
ALPHA-CHLORDANE	0.043	
BETA-BHC	0.054	
DIELDRIN	0.097	
ENDRIN	0.11	
GAMMA-CHLORDANE	0.05	
HEPTACHLOR	0.057	
4,4'-DDD	1.6	8.5'
4,4'-DDE	1.1	
ALDRIN	1.5	
BETA-BHC	3.8	
ENDOSULFAN I	0.5	
ENDRIN ALDEHYDE	2.5	
GAMMA-BHC (LINDANE)	2	
GAMMA-CHLORDANE	0.8	
HEPTACHLOR EPOXIDE	1.3	
2,3,7,8-TCDD EQUIVALENT	0.000162	

SB02		
ANALYTE	CONC.	DEPTH
4,4'-DDD	12	0.5'
4,4'-DDE	3.9	
4,4'-DDT	2.5	
ALDRIN	1.4	
ALPHA-CHLORDANE	1.1	
AROCLOR-1260	77	
DIELDRIN	2.3	
ENDOSULFAN I	1.3	
ENDOSULFAN II	7.1	
ENDRIN	0.91	
ENDRIN ALDEHYDE	0.88	
ENDRIN KETONE	3.7	
GAMMA-CHLORDANE	2.3	
HEPTACHLOR	0.52	
HEPTACHLOR EPOXIDE	1.6	
2,3,7,8-TCDD EQUIVALENT	0.0922	
BETA-BHC	0.31	8.5'
DELTA-BHC	0.14	
HEPTACHLOR	0.033	

BH01		
ANALYTE	CONC.	DEPTH
1,1,1-TRICHLOROETHANE	2	5'
ACETONE	160	

MW10		
ANALYTE	CONC.	DEPTH
4,4'-DDD	170	5'
4,4'-DDE	170	
4,4'-DDT	140	
AROCLOR-1260	190	

BH02 *		
ANALYTE	CONC.	DEPTH
OCDD (DIOXINS)	0.665	10'
TOTAL HPCDD (DIOXINS)	0.223	
TOTAL HXCDD (DIOXINS)	0.100	
OCDF (FURANS)	0.0476	
TOTAL HPCDF (FURANS)	0.220	
TOTAL HXCDF (FURANS)	0.363	
TOTAL PECDF (FURANS)	0.461	
TOTAL TCDF (FURANS)	0.468	
AROCLOR-1260	408	15'
AROCLOR-1260	340	15' FIELD DUP.

SB01		
ANALYTE	CONC.	DEPTH
4,4'-DDD	25	0.5'
4,4'-DDE	9.6	
4,4'-DDT	27	
ALDRIN	3.3	
ALPHA-CHLORDANE	1.2	
BETA-BHC	0.69	
DELTA-BHC	0.7	
ENDOSULFAN I	1.3	
ENDOSULFAN II	15	
ENDOSULFAN SULFATE	3.3	
ENDRIN ALDEHYDE	6.8	
ENDRIN KETONE	17	
HEPTACHLOR	0.018	
2,3,7,8-TCDD EQUIVALENT	0.152	
2,3,7,8-TCDD EQUIVALENT	0.0000111	8.5'

LEGEND

- IRP SUBSITE 2A BOUNDARY
- FENCE LINE
- RSE DIRECT PUSH SOIL BORING (BNI. 1997)
- RSE GROUNDWATER MONITORING WELL AND SOIL SAMPLE LOCATION (BNI. 1997)
- GROUNDWATER MONITORING WELL (IT 1992)
- SOIL BORING (IT, 1992)
- 3189 BUILDING DEMOLISHED DURING NON-TIME-CRITICAL REMOVAL ACTION

ABBREVIATIONS:

TCDD – TETRACHLORODIBENZO(P)DIOXIN
PECDD – PENTACHLORODIBENZO(P)DIOXIN
HXCDD – HEXACHLORODIBENZO(P)DIOXIN
HPCDD – HEPTACHLORODIBENZO(P)DIOXIN
OCDD – OCTACHLORODIBENZO(P)DIOXIN
TCDF – TETRACHLORODIBENZOFURAN
PECDF – PENTACHLORODIBENZOFURAN
HXCDF – HEXACHLORODIBENZOFURAN
HPCDF – HEPTACHLORODIBENZOFURAN
OCDF – OCTACHLORODIBENZOFURAN
DDD – DICHLORODIPHENYLDICHLOROETHANE
DDT – DICHLORODIPHENYLTRICHLOROETHANE
DDE – DICHLORODIPHENYLDICHLOROETHENE
NTCRA – NON TIME CRITICAL REMOVAL ACTION

NOTES:

1. ALL RESULTS SHOWN IN MICROGRAMS PER KILOGRAM (ug/kg)
2. DEPTH (FEET BELOW PRE-REMOVAL ACTION GROUND SURFACE)

* DIOXIN AND FURAN DATA NOT USED FOR RISK SCREENING BECAUSE SPECIATON OF THE ANALYTE DID NOT OCCUR

SOURCE: BNI – EE/CA FIGURE 2-8 1999

Figure 3-2
DIOXINs, PESTICIDEs & PCBs DETECTED IN SOIL-1996 REMOVAL SITE EVALUATION

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER ENVIRONMENTAL CORPORATION

DRAWING NO: 03075932.DWG
DCN: FWSD-RAC-03-0759
N68711-98-D-5713 CTO-0039
APPROVED BY: RR
CHECKED BY: RR
REV: i
DRAWN BY: KLD
DATE: 10/10/03

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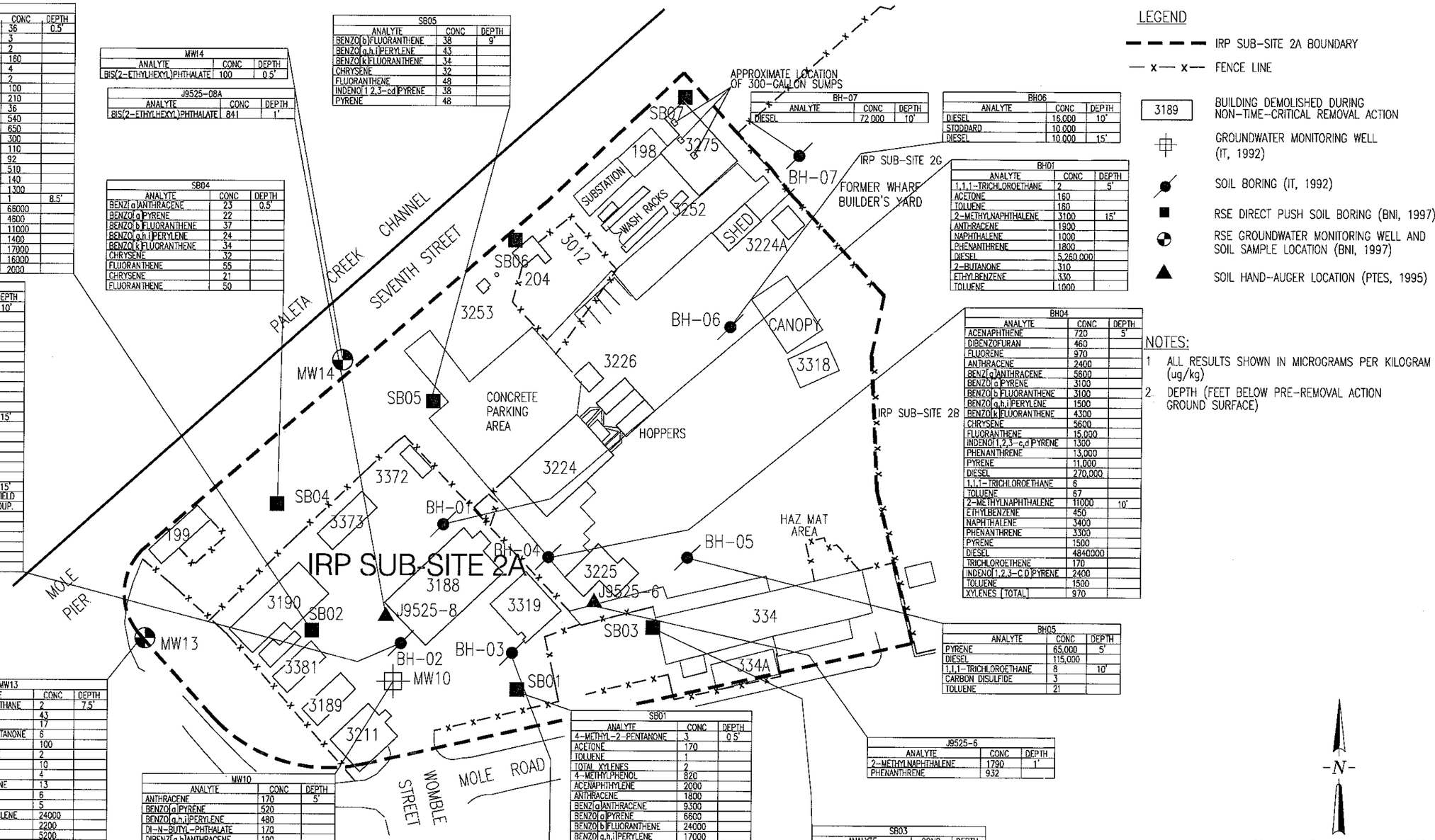

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DCN: FWSD-RAC-03-0759 N68711-98-D-5713 CTO-0039

APPROVED BY: RR

CHECKED BY: RR

REV: i

DRAWN BY: KLD

DATE: 10/10/03

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PLOT/UPDATE: OCT 09 2003 08:15:29

SB02		
ANALYTE	CONC	DEPTH
2-BUTANONE	36	0.5'
2-HEXANONE	3	
4-METHYL-2-PENTANONE	2	
ACETONE	160	
CARBON DISULFIDE	4	
TOTAL XYLENES	2	
BENZ[a]ANTHRACENE	100	
BENZO[a]PYRENE	210	
BENZO[b]FLUORANTHENE	36	
BENZO[g,h,i]PERYLENE	540	
BENZO[k]FLUORANTHENE	650	
CHRYSENE	300	
DIBENZ[a,h]ANTHRACENE	110	
FLUORANTHENE	92	
INDENO[1 2 3-cd]PYRENE	510	
PHENOL	140	
PYRENE	1300	
4-METHYL-2-PENTANONE	1	8.5'
2-METHYLNAPHTHALENE	66000	
4-CHLOROPHENYL PHENYLETHER	4600	
ANTHRACENE	11000	
CHRYSENE	1400	
NAPHTHALENE	17000	
PHENANTHRENE	16000	
PHENOL	2000	

MW14		
ANALYTE	CONC	DEPTH
BIS(2-ETHYLHEXYL)PHTHALATE	100	0.5'

J9525-08A		
ANALYTE	CONC	DEPTH
BIS(2-ETHYLHEXYL)PHTHALATE	841	1'

SB05		
ANALYTE	CONC	DEPTH
BENZO[b]FLUORANTHENE	38	9'
BENZO[g,h,i]PERYLENE	43	
BENZO[k]FLUORANTHENE	34	
CHRYSENE	32	
FLUORANTHENE	48	
INDENO[1 2,3-cd]PYRENE	38	
PYRENE	48	

SB04		
ANALYTE	CONC	DEPTH
BENZ[a]ANTHRACENE	23	0.5'
BENZO[a]PYRENE	22	
BENZO[b]FLUORANTHENE	37	
BENZO[g,h,i]PERYLENE	24	
BENZO[k]FLUORANTHENE	34	
CHRYSENE	32	
FLUORANTHENE	55	
CHRYSENE	21	
FLUORANTHENE	50	

BH02		
ANALYTE	CONC	DEPTH
ETHYLBENZENE	14	10'
TOTAL XYLENE ISOMERS	23	
2-METHYLNAPHTHALENE	6600	
ANTHRACENE	1700	
NAPHTHALENE	1900	
PHENANTHRENE	1600	
DIESEL	5920000	
XYLENES	23	
ACETONE	150	
ETHYLBENZENE	14	
TOLUENE	220	
2-METHYLNAPHTHALENE	18000	15'
FLUORENE	2800	
NAPHTHALENE	6100	
PHENANTHRENE	4600	
DIESEL	9940000	
TOLUENE	4400	
XYLENES	690	
1,2-DICHLOROBENZENE	870	15'
2-METHYLNAPHTHALENE	15000	FIELD
FLUORANTHENE	1000	DUP.
FLUORENE	2400	
NAPHTHALENE	5700	
PHENANTHRENE	3600	
PYRENE	1000	
DIESEL	7500000	
TOLUENE	800	

BH07		
ANALYTE	CONC	DEPTH
DIESEL	72,000	10'

BH06		
ANALYTE	CONC	DEPTH
DIESEL	16,000	10'
STODDARD	10,000	
DIESEL	10,000	15'

BH01		
ANALYTE	CONC	DEPTH
1,1,1-TRICHLOROETHANE	2	5'
ACETONE	160	
TOLUENE	160	
2-METHYLNAPHTHALENE	3100	15'
ANTHRACENE	1900	
NAPHTHALENE	1000	
PHENANTHRENE	1800	
DIESEL	5,260,000	
2-BUTANONE	310	
ETHYLBENZENE	330	
TOLUENE	1000	

BH04		
ANALYTE	CONC	DEPTH
ACENAPHTHENE	720	5'
DIBENZOFURAN	460	
FLUORENE	970	
ANTHRACENE	2400	
BENZ[a]ANTHRACENE	5600	
BENZO[a]PYRENE	3100	
BENZO[b]FLUORANTHENE	3100	
BENZO[g,h,i]PERYLENE	1500	
BENZO[k]FLUORANTHENE	4300	
CHRYSENE	5600	
FLUORANTHENE	15,000	
INDENO[1,2,3-c,d]PYRENE	1300	
PHENANTHRENE	13,000	
PYRENE	11,000	
DIESEL	270,000	
1,1,1-TRICHLOROETHANE	6	
TOLUENE	67	
2-METHYLNAPHTHALENE	11000	10'
ETHYLBENZENE	450	
NAPHTHALENE	3400	
PHENANTHRENE	3300	
PYRENE	1500	
DIESEL	4840000	
TRICHLOROETHENE	170	
INDENO[1,2,3-C D]PYRENE	2400	
TOLUENE	1500	
XYLENES [TOTAL]	970	

BH05		
ANALYTE	CONC	DEPTH
PYRENE	65,000	5'
DIESEL	115,000	
1,1,1-TRICHLOROETHANE	8	10'
CARBON DISULFIDE	3	
TOLUENE	21	

MW13		
ANALYTE	CONC	DEPTH
1,1,2-TRICHLOROETHANE	2	7.5'
2-BUTANONE	43	
2-HEXANONE	17	
4-METHYL-2-PENTANONE	6	
ACETONE	100	
CARBON DISULFIDE	2	
ETHYLBENZENE	10	
METHYL CHLORIDE	4	
TETRACHLOROETHENE	13	
TOLUENE	6	
TOTAL XYLENES	5	
2-METHYLNAPHTHALENE	24000	
DIBENZOFURAN	2200	
FLUORENE	5200	
NAPHTHALENE	4700	
PHENANTHRENE	6900	
PYRENE	700	

MW10		
ANALYTE	CONC	DEPTH
ANTHRACENE	170	5'
BENZO[a]PYRENE	520	
BENZO[g,h,i]PERYLENE	480	
DI-N-BUTYL-PHTHALATE	170	
DIBENZ[a,h]ANTHRACENE	190	
INDENO[1 2,3-cd]PYRENE	430	
PHENOL	120	
TOLUENE	2	
BENZ[a]ANTHRACENE	800	
BENZO[b]FLUORANTHENE	1200	
BENZO[k]FLUORATHENE	1000	
BIS(2-ETHYLHEXYL)PHTHALATE	750	
CHRYSENE	1400	
DIBENZOFURAN	190	
FLUORANTHENE	1800	
PHENANTHRANE	1100	
PYRENE	2100	
DIESEL	190000	
TRICHLOROETHENE	2	
TOLUENE	2	10'
2-METHYLNAPHTHALENE	67000	15'
FLUORENE	7400	
NAPHTHALENE	25000	
PHENANTHRENE	12000	
DIESEL	16000000	
2-BUTANONE	400	
ETHYLBENZENE	710	

BH03		
ANALYTE	CONC	DEPTH
BIS(2-ETHYLHEXYL)PHTHALATE	550	10'
DIESEL	1120000	
TOLUENE	7	
2-METHYLNAPHTHALENE	31000	15'
FLUORENE	4900	
NAPHTHALENE	6900	
PHENANTHRENE	6600	
DIESEL	15000000	
CARBON DISULFIDE	850	
METHYLENE CHLORIDE	190	
XYLENES (TOTAL)	410	

SB01		
ANALYTE	CONC	DEPTH
4-METHYL-2-PENTANONE	3	0.5'
ACETONE	170	
TOLUENE	1	
TOTAL XYLENES	2	
4-METHYLPHENOL	820	
ACENAPHTHYLENE	2000	
ANTHRACENE	1800	
BENZ[a]ANTHRACENE	9300	
BENZO[a]PYRENE	6600	
BENZO[b]FLUORANTHENE	24000	
BENZO[g,h,i]PERYLENE	17000	
BENZO[k]FLUORANTHENE	19000	
CARBAZOLE	1300	
CHRYSENE	15000	
DIBENZ[a,h]ANTHRACENE	4200	
FLUORANTHENE	15000	
INDENO[1,2,3-cd]PYRENE	16000	
PHENANTHRENE	4900	
PHENOL	26000	
PYRENE	26000	
2-BUTANONE	40	8.5'
BENZENE	2	
ETHYLBENZENE	160	

J9525-6		
ANALYTE	CONC	DEPTH
2-METHYLNAPHTHALENE	1790	1'
PHENANTHRENE	932	

SB03		
ANALYTE	CONC	DEPTH
BENZ[a]ANTHRACENE	73	0.5'
BENZO[a]PYRENE	63	
BENZO[b]FLUORANTHENE	170	
BENZO[g,h,i]PERYLENE	140	
BENZO[k]FLUORANTHENE	100	
CHRYSENE	160	
DIBENZ[a,h]ANTHRACENE	35	
FLUORANTHENE	170	
INDENO[1 2,3-cd]PYRENE	110	
NAPHTHALENE	20	
PHENANTHRENE	120	
PHENOL	61	
PYRENE	190	

LEGEND

- IRP SUB-SITE 2A BOUNDARY
- FENCE LINE
- 3189 — BUILDING DEMOLISHED DURING NON-TIME-CRITICAL REMOVAL ACTION
- GROUNDWATER MONITORING WELL (IT, 1992)
- SOIL BORING (IT, 1992)
- RSE DIRECT PUSH SOIL BORING (BNI, 1997)
- RSE GROUNDWATER MONITORING WELL AND SOIL SAMPLE LOCATION (BNI, 1997)
- SOIL HAND-AUGER LOCATION (PTES, 1995)

NOTES:

1. ALL RESULTS SHOWN IN MICROGRAMS PER KILOGRAM (ug/kg)
2. DEPTH (FEET BELOW PRE-REMOVAL ACTION GROUND SURFACE)

-N-

50 0 50 100

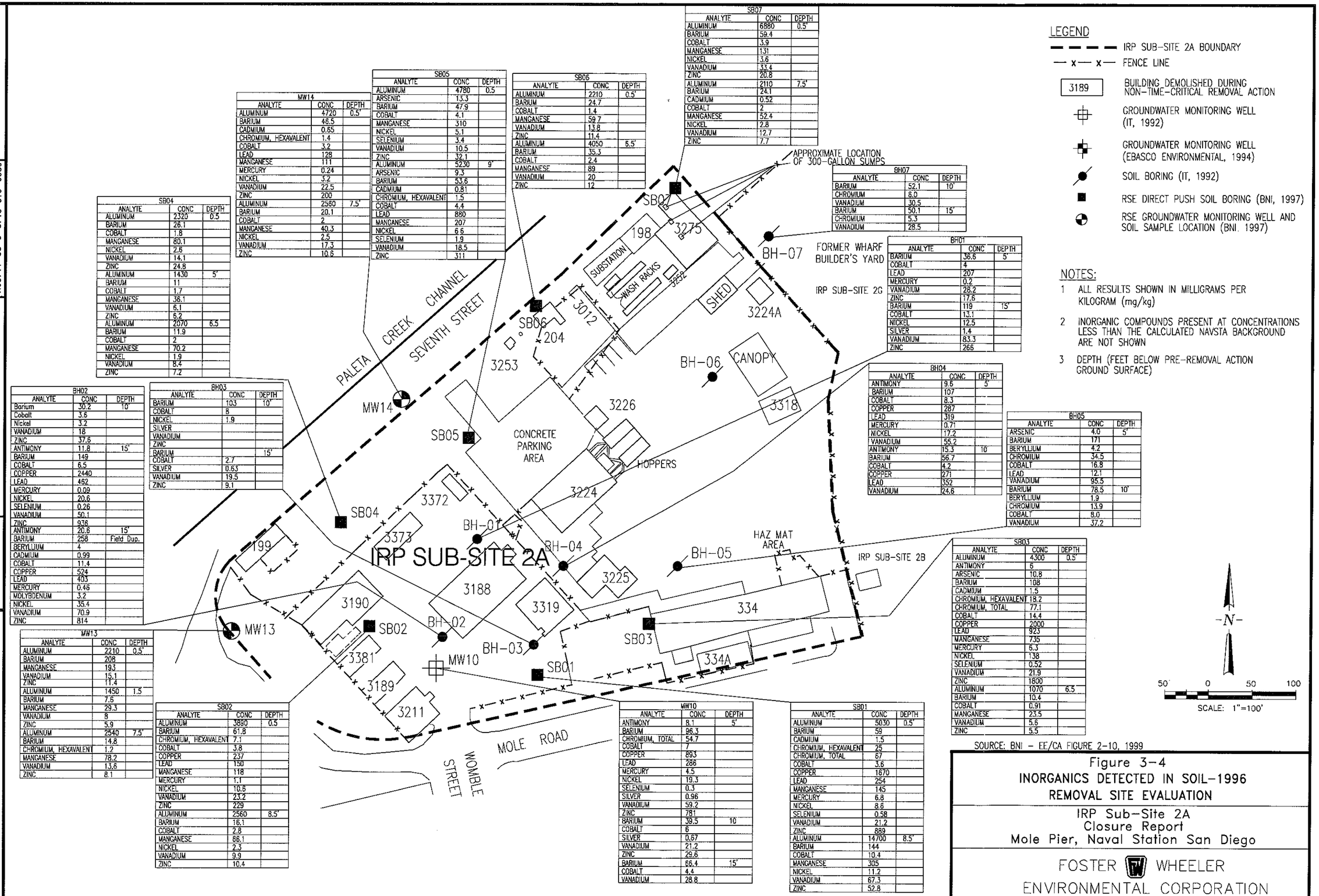
SCALE: 1"=100'

SOURCE: BNI - EE/CA FIGURE 2-9, 1999

Figure 3-3
VOLATILE & SEMIVOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL-1996 REMOVAL SITE EVALUATION

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER ENVIRONMENTAL CORPORATION



SB04		
ANALYTE	CONC	DEPTH
ALUMINUM	2320	0.5
BARIUM	26.1	
COBALT	1.8	
MANGANESE	80.1	
NICKEL	2.6	
VANADIUM	14.1	
ZINC	24.8	
ALUMINUM	1430	5'
BARIUM	11	
COBALT	1.7	
MANGANESE	36.1	
VANADIUM	6.1	
ZINC	6.2	
ALUMINUM	2070	6.5
BARIUM	11.9	
COBALT	2	
MANGANESE	70.2	
NICKEL	1.9	
VANADIUM	8.4	
ZINC	7.2	

MW14		
ANALYTE	CONC	DEPTH
ALUMINUM	4720	0.5'
BARIUM	46.5	
CADMIUM	0.65	
CHROMIUM, HEXAVALENT	1.4	
COBALT	3.2	
LEAD	128	
MANGANESE	111	
MERCURY	0.24	
NICKEL	3.2	
VANADIUM	22.5	
ZINC	200	
ALUMINUM	2560	7.5'
BARIUM	20.1	
COBALT	2	
MANGANESE	40.3	
NICKEL	2.5	
VANADIUM	17.3	
ZINC	10.6	

SB05		
ANALYTE	CONC	DEPTH
ALUMINUM	4780	0.5
ARSENIC	13.3	
BARIUM	47.9	
COBALT	4.1	
MANGANESE	310	
NICKEL	5.1	
SELENIUM	3.4	
VANADIUM	10.5	
ZINC	32.1	
ALUMINUM	5230	9'
ARSENIC	9.3	
BARIUM	53.6	
CADMIUM	0.81	
CHROMIUM, HEXAVALENT	1.5	
COBALT	4.4	
LEAD	880	
MANGANESE	207	
NICKEL	6.6	
SELENIUM	1.9	
VANADIUM	18.5	
ZINC	311	

SB06		
ANALYTE	CONC	DEPTH
ALUMINUM	2210	0.5'
BARIUM	24.7	
COBALT	1.4	
MANGANESE	59.7	
VANADIUM	13.8	
ZINC	11.4	
ALUMINUM	4050	6.5'
BARIUM	35.3	
COBALT	2.4	
MANGANESE	89	
VANADIUM	20	
ZINC	12	

SB07		
ANALYTE	CONC	DEPTH
ALUMINUM	6880	0.5'
BARIUM	59.4	
COBALT	3.9	
MANGANESE	131	
NICKEL	3.6	
VANADIUM	33.4	
ZINC	20.8	
ALUMINUM	2110	7.5'
BARIUM	24.1	
CADMIUM	0.52	
COBALT	2	
MANGANESE	52.4	
NICKEL	2.8	
VANADIUM	12.7	
ZINC	7.7	

BH07		
ANALYTE	CONC	DEPTH
BARIUM	52.1	10'
CHROMIUM	6.0	
VANADIUM	30.5	
BARIUM	50.1	15'
CHROMIUM	5.3	
VANADIUM	28.5	

BH01		
ANALYTE	CONC	DEPTH
BARIUM	36.6	5'
COBALT	4	
LEAD	207	
MERCURY	0.2	
VANADIUM	28.2	
ZINC	17.6	
BARIUM	119	15'
COBALT	13.1	
NICKEL	12.5	
SILVER	1.4	
VANADIUM	83.3	
ZINC	266	

BH02		
ANALYTE	CONC	DEPTH
Barium	30.2	10'
Cobalt	3.6	
Nickel	3.2	
VANADIUM	18	
ZINC	37.6	
ANTIMONY	11.8	15'
BARIUM	149	
COBALT	6.5	
COPPER	2440	
LEAD	462	
MERCURY	0.09	
NICKEL	20.6	
SELENIUM	0.26	
VANADIUM	50.1	
ZINC	936	
ANTIMONY	20.6	15'
BARIUM	258	Field Dup.
BERYLLIUM	4	
CADMIUM	0.99	
COBALT	11.4	
COPPER	524	
LEAD	403	
MERCURY	0.46	
MOLYBDENUM	3.2	
NICKEL	35.4	
VANADIUM	70.9	
ZINC	814	

BH03		
ANALYTE	CONC	DEPTH
BARIUM	103	10'
COBALT	8	
NICKEL	1.9	
SILVER		
VANADIUM		
ZINC		
BARIUM		15'
COBALT	2.7	
SILVER	0.63	
VANADIUM	19.5	
ZINC	9.1	

BH04		
ANALYTE	CONC	DEPTH
ANTIMONY	9.6	5'
BARIUM	107	
COBALT	8.3	
COPPER	287	
LEAD	319	
MERCURY	0.71	
NICKEL	17.2	
VANADIUM	55.2	
ANTIMONY	15.3	10
BARIUM	56.7	
COBALT	4.2	
COPPER	271	
LEAD	352	
VANADIUM	24.6	

BH05		
ANALYTE	CONC	DEPTH
ARSENIC	4.0	5'
BARIUM	171	
BERYLLIUM	4.2	
CHROMIUM	34.5	
COBALT	16.8	
LEAD	12.1	
VANADIUM	95.5	
BARIUM	78.5	10'
BERYLLIUM	1.9	
CHROMIUM	13.9	
COBALT	8.0	
VANADIUM	37.2	

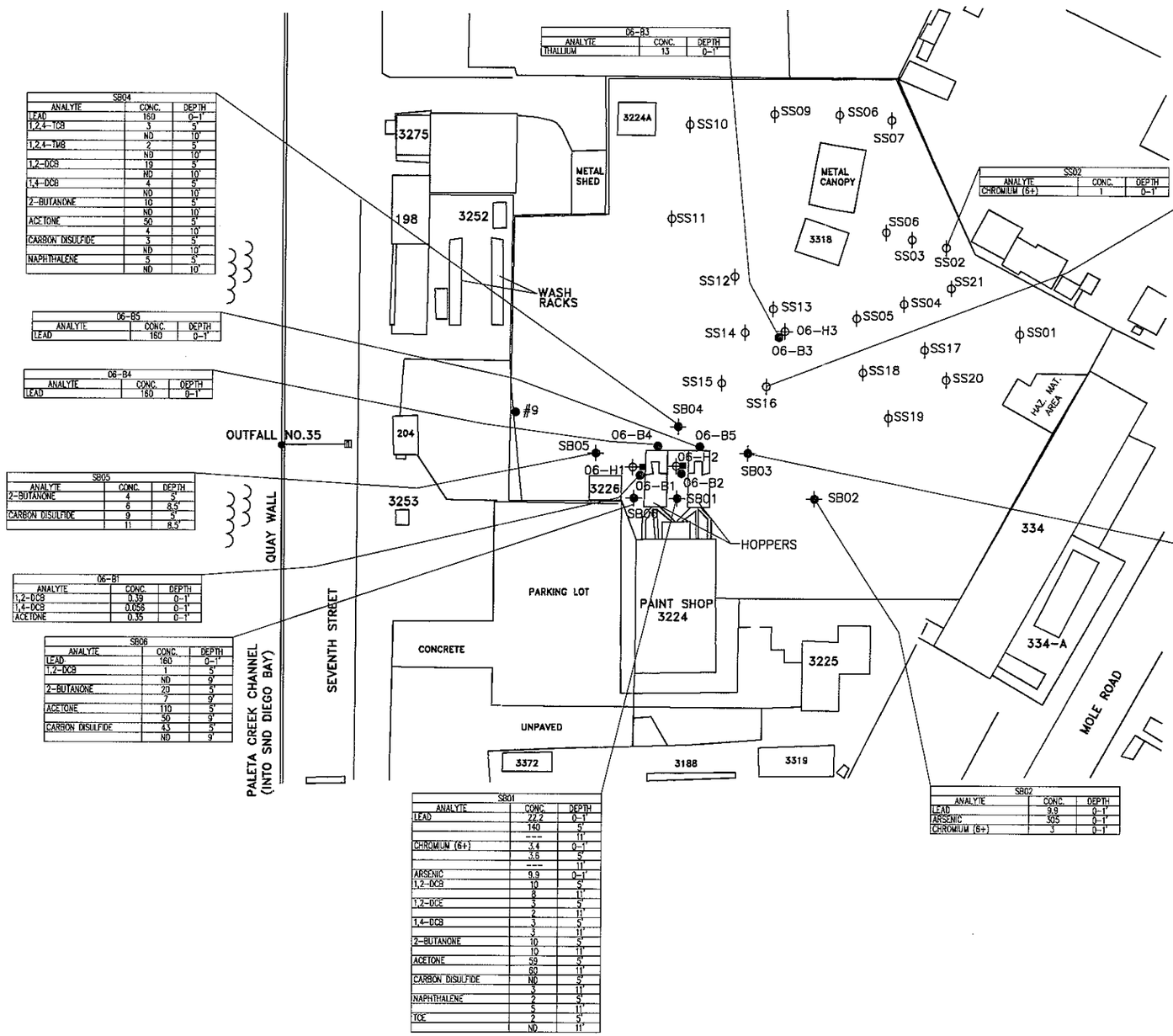
SB03		
ANALYTE	CONC	DEPTH
ALUMINUM	4300	0.5'
ANTIMONY	6	
ARSENIC	10.8	
BARIUM	108	
CADMIUM	1.5	
CHROMIUM, HEXAVALENT	18.2	
CHROMIUM, TOTAL	77.1	
COBALT	14.4	
COPPER	2000	
LEAD	923	
MANGANESE	735	
MERCURY	6.3	
NICKEL	138	
SELENIUM	0.52	
VANADIUM	21.9	
ZINC	1800	
ALUMINUM	1070	6.5
BARIUM	10.4	
COBALT	0.91	
MANGANESE	23.5	
VANADIUM	5.6	
ZINC	5.5	

MW13		
ANALYTE	CONC	DEPTH
ALUMINUM	2210	0.5'
BARIUM	208	
MANGANESE	193	
VANADIUM	15.1	
ZINC	11.4	
ALUMINUM	1450	1.5
BARIUM	7.6	
MANGANESE	29.3	
VANADIUM	8	
ZINC	5.9	
ALUMINUM	2540	7.5'
BARIUM	14.8	
CHROMIUM, HEXAVALENT	1.2	
MANGANESE	78.2	
VANADIUM	13.6	
ZINC	8.1	

SB02		
ANALYTE	CONC	DEPTH
ALUMINUM	3890	0.5
BARIUM	61.8	
CHROMIUM, HEXAVALENT	7.1	
COBALT	3.8	
COPPER	237	
LEAD	150	
MANGANESE	118	
MERCURY	1.1	
NICKEL	10.6	
VANADIUM	23.2	
ZINC	229	
ALUMINUM	2560	8.5'
BARIUM	16.1	
COBALT	2.8	
MANGANESE	66.1	
NICKEL	2.3	
VANADIUM	9.9	
ZINC	10.4	

MW10		
ANALYTE	CONC	DEPTH
ANTIMONY	8.1	5'
BARIUM	96.3	
CHROMIUM, TOTAL	54.7	
COBALT	7	
COPPER	893	
LEAD	286	
MERCURY	4.5	
NICKEL	19.3	
SELENIUM	0.3	
SILVER	0.96	
VANADIUM	59.2	
ZINC	781	
BARIUM	39.5	10
COBALT	6	
SILVER	0.67	
VANADIUM	21.2	
ZINC	29.6	
BARIUM	66.4	15'
COBALT	4.4	
VANADIUM	28.8	

SB01		
ANALYTE	CONC	DEPTH
ALUMINUM	5030	0.5'
BARIUM	59	
CADMIUM	1.5	
CHROMIUM, HEXAVALENT	25	
CHROMIUM, TOTAL	67	
COBALT	3.6	
COPPER	1670	
LEAD	254	
MANGANESE	145	
MERCURY	6.8	
NICKEL	8.6	
SELENIUM	0.58	
VANADIUM	21.2	
ZINC	889	
ALUMINUM	14700	8.5'
BARIUM	144	
COBALT	10.4	
MANGANESE	305	
NICKEL	11.2	
VANADIUM	67.3	
ZINC	52.8	



06-B3		
ANALYTE	CONC.	DEPTH
THALLIUM	13	0-1'

SB04		
ANALYTE	CONC.	DEPTH
LEAD	160	0-1'
1,2,4-TCB	3	5'
	ND	10'
1,2,4-TMB	2	5'
	ND	10'
1,2-DCB	19	5'
	ND	10'
1,4-DCB	4	5'
	ND	10'
2-BUTANONE	10	5'
	ND	10'
ACETONE	50	5'
	4	10'
CARBON DISULFIDE	3	5'
	ND	10'
NAPHTHALENE	5	5'
	ND	10'

06-B5		
ANALYTE	CONC.	DEPTH
LEAD	160	0-1'

06-B4		
ANALYTE	CONC.	DEPTH
LEAD	160	0-1'

SB05		
ANALYTE	CONC.	DEPTH
2-BUTANONE	4	5'
	6	8.5'
CARBON DISULFIDE	9	5'
	11	8.5'

06-B1		
ANALYTE	CONC.	DEPTH
1,2-DCB	0.39	0-1'
1,4-DCB	0.055	0-1'
ACETONE	0.35	0-1'

SB06		
ANALYTE	CONC.	DEPTH
LEAD	160	0-1'
1,2-DCB	1	5'
	ND	9'
2-BUTANONE	20	5'
	7	9'
ACETONE	110	5'
	50	9'
CARBON DISULFIDE	43	5'
	ND	9'

SS02		
ANALYTE	CONC.	DEPTH
CHROMIUM (6+)	1	0-1'

SS16		
ANALYTE	CONC.	DEPTH
1,2-DCB	13	5'
	ND	11'
1,3,5-TMB	140	5'
	ND	11'
1,2,4-TMB	680	5'
	ND	11'
2-BUTANONE	20	5'
	8	11'
ACETONE	93	5'
	30	11'
CARBON DISULFIDE	6	5'
	ND	11'
ETHYLBENZENE	49	5'
	ND	11'
ISOPROPYLBENZENE	37	5'
	ND	11'
N-BUTYLBENZENE	120	5'
	ND	11'
N-PROPYLBENZENE	91	5'
	ND	11'
NAPHTHALENE	80	5'
	ND	11'
P-ISOPROPYLTOLUENE	30	5'
	ND	11'
SEC-BUTYLBENZENE	100	5'
	ND	11'
PCE	1	5'
	ND	11'
TOLUENE	3	5'
	ND	11'
TOTAL XYLENES	120	5'
	ND	11'

SB03		
ANALYTE	CONC.	DEPTH
LEAD	148	0-1'
	156	5'
	--	11'
1,2-DCE	46	5'
	ND	11'
1,4-DCB	7	5'
	ND	11'
2-BUTANONE	8	5'
	6	11'
ACETONE	40	5'
	40	11'
TCE	71	5'
	2	11'
XYLENES	7	5'
	ND	11'

SB01		
ANALYTE	CONC.	DEPTH
LEAD	22.2	0-1'
	140	5'
	---	11'
CHROMIUM (6+)	3.4	0-1'
	3.6	5'
	---	11'
ARSENIC	9.9	0-1'
1,2-DCB	10	5'
	8	11'
1,2-DCE	3	5'
	2	11'
1,4-DCB	3	5'
	3	11'
2-BUTANONE	10	5'
	10	11'
ACETONE	59	5'
	60	11'
CARBON DISULFIDE	ND	5'
	3	11'
NAPHTHALENE	2	5'
	5	11'
TCE	2	5'
	ND	11'

SB02		
ANALYTE	CONC.	DEPTH
LEAD	9.9	0-1'
ARSENIC	305	0-1'
CHROMIUM (6+)	3	0-1'

LEGEND

- BUILDING DEMOLISHED DURING NON-TIME-CRITICAL REMOVAL ACTION
- OUTFALLL
- 06-H3 — RFI PHASE 1 HYDROPUNCH GROUNDWATER SAMPLE LOCATION (BROWN AND CALDWELL, 1995)
- 06-L1 — RFI PHASE I SOIL SAMPLING LOCATION
- SB05 — RFI PHASE II SOIL SAMPLE LOCATION
- SS15 — RFI PHASE II SUPERFICIAL SOIL SAMPLE LOCATION

NOTES

1) VOCs LISTED REPORTED ABOVE SAMPLE QUANTITATION LIMITS (SQLS)
2) BOLDED TYPE INDICATES VALUES WHICH EXCEED RESIDENTIAL AND INDUSTRIAL PRG VALUES
3) ND = NOT DETECTED ABOVE SAMPLE QUANTITATION LIMITS (SQLs)
   -- = METAL NOT ABOVE RESIDENTIAL PRG
4) ARSENIC, BERYLLIUM, COPPER, AND THALLIUM NOT LISTED IF BELOW BACKGROUND LAVELS
5) CONCENTRATION IN mg/kg (MILLIGRAMS PER KILOGRAM) FOR METALS AND IN ug/kg (MICROGRAMS PER KILOGRAM) FOR ORGANICS
6) DEPTH (FEET BELOW PRE-REMOVAL ACTION GROUND SURFACE)
   bgs – BELOW GROUND SURFACE
   DCB – DICHLOROBENZENE
   DCE – DICHLOROETHENE
   PCE – TETRACHLOROETHYLENE
   TCB – TRICHLOROBENZENE
   TCE – TRICHLOROETHENE
   TMB – TRIMETHYLBENZENE

N

40' 0 40 80

SCALE: 1"=80'

SOURCE: BNI – EE/CA FIGURE 2-8 and 2-9, 1999

Figure 3-5
RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION PHASE II SOIL ANALYTICAL RESULTS FOR SOLID WASTE MANAGEMENT UNIT NO.6

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER ENVIRONMENTAL CORPORATION

DRAWING NO: 03075935.DWG
DCN: FWSD-RAC-03-0759
N68711-98-D-5713 CTO-0039
APPROVED BY: RR
CHECKED BY: RR
REV: i
DRAWN BY: KLD
DATE: 10/10/03

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4.0 PRE-REMOVAL ACTION SCREENING HUMAN HEALTH AND ENVIRONMENTAL RISK ASSESSMENT SUMMARY

A pre-removal action screening risk assessment was completed for IRP Sub-Site 2A and was presented in the EE/CA (BNI, 1999a). The pre-removal action screening risk assessment focused on the estimated risk from potential exposure to soil contamination associated with former disposal and open burning of demolition debris and hazardous waste.

Soil contamination associated with IRP Sub-Site 2A posed a potential health risk through several possible exposure pathways, including incidental ingestion and inhalation of soil. Possible receptors identified by the screening risk assessment were humans who worked in the area or who may potentially occupy the area under a future residential land-use scenario.

Both residential and industrial risk assessment scenarios were performed for IRP Sub-Site 2A. To be consistent with the mission of NAVSTA San Diego and the DON's desire to avoid land-use restrictions, the residential risk assessment scenario was used for IRP Sub-Site 2A wherever reasonable and prudent. The risk estimates for COCs in soil were based on exposure of a person living in a residence on IRP Sub-Site 2A.

The streamlined risk screening was conducted using the highest measured concentration of each COC in soil and comparing it to its respective EPA or modified Cal/EPA residential soil PRGs (EPA, 1998) to obtain a numeric value that indicated its relative risk. The residential soil PRGs are concentrations corresponding to a lifetime cancer risk of $1x10^{-6}$ for carcinogenic effects and a hazard index (HI) of 1.0 or greater for non-carcinogenic effects. Therefore, if the concentration of a chemical exceeds its residential soil PRG, the concentration may result in a level of exposure corresponding to an upper-bound cancer risk exceeding $1x10^{-6}$ if the chemical is a carcinogen, or it may result in potentially significant health effects or illness if the chemical is a non-carcinogen.

The total pre-removal action estimated carcinogenic and non-carcinogenic risks at IRP Sub-Site 2A are summarized in Tables 3-3 and 3-4. The calculated overall residential and industrial cancer risk totals were $5.2x10^{-4}$ and $5.5x10^{-5}$, respectively. The HI exceeded 1.0 for non-carcinogenic effects, indicating that the contaminated soil has the potential to cause adverse human health effects.

Cancer and non-cancer risks from exposure to contaminated soil were estimated assuming both residential and industrial scenarios (Table 3-3). The following standard EPA default exposure assumptions for a hypothetical resident adult and child were used:

- For ingestion exposure, 100 milligrams a day was assumed for a 70-kilogram adult and 200 milligrams a day for a 15-kilogram child (ages 1 to 6 years), 350 days a year.

- For dermal exposure, more than 30 percent of the resident's skin is in contact with soil for 100 days a year for an adult and 350 days a year for a child.
- Inhalation of soil particulates was assumed to occur 24 hours a day, 350 days a year.
- Adult exposure to carcinogens was assumed for a total of 30 years, 6 years as a child and 24 years as an adult (child exposure was assumed to be 6 years).

The exposure assumptions for the industrial workers are as follows:

- Work performed for 25 years, 8 hours a day, 250 days a year.
- For dermal exposure, more than 30 percent of the worker's skin (5,700 square centimeters) in contact with soil.

For cancer risk, risk screening was performed using both EPA PRGs and Cal/EPA-modified PRGs. The resultant cancer risk estimates derived by the risk screening were designated as total lifetime carcinogenic risks.

Some metals are carcinogenic and therefore, present a cancer risk at naturally occurring (background) concentrations. Thus, human-caused release of a carcinogenic metal to an environment where the metal already exists does not create risk; it increases risk. This increase, or incremental risk, was calculated for carcinogenic metals under the residential scenario by subtracting background risk from total risk for each metal (Table 3-3). For these metals, a comparison between their reported on-site concentrations and background concentrations calculated for soil at NAVSTA San Diego provides additional information for making site-specific decisions.

Incremental risk was not calculated for non-carcinogenic metals because non-carcinogenic effects have thresholds. With non-carcinogenic effects, it is necessary to estimate the total HI, which is the likelihood of systemic effects to be present (background plus the amount above background) and to use that estimate in decision-making.

The total HI was estimated at 6.54 for the residential scenario and 0.54 for the industrial scenario (Table 3-4). This indicates that there is a potentially unacceptable non-carcinogenic risk under the residential scenario. Thallium, in the residential scenario, is the primary contributor (46 percent) to the HI.

The assessment of risk presented by lead consisted of a two-step process. First, the maximum concentration of lead reported in soil [923 milligrams per kilogram (mg/kg)] was compared to the Cal/EPA residential PRG of 130 mg/kg. This comparison is based on the residential Cal/EPA-modified PRG instead of the EPA PRG (400 mg/kg) because the Cal/EPA modified PRG is lower and more stringent. Lead exceeded the Cal/EPA residential soil PRG at IRP Sub-Site 2A.

The second step in the process was the use of the Cal/EPA pharmacokinetic model for IRP Sub-Site 2A to estimate the blood-lead concentration for a resident child and a resident adult. Blood-lead concentrations were then compared to the benchmark concentration of 10 micrograms per deciliter (µg/dL). At IRP Sub-Site 2A, all of the estimated upper-bound concentrations of lead in the blood of the resident child (11 µg/dL at the 50th percentile to 25 µg/dL at the 99th percentile) exceeded the benchmark of 10 µg/dL. Therefore, the lead concentrations could result in potential adverse health effects on children. Blood-lead concentrations of the industrial adult (2 µg/dL at the 50th percentile to 4.4 µg/dL at the 99th percentile) did not exceed the benchmark of 10 µg/dL; therefore, lead in an industrial scenario would not adversely affect the health of adults. Lead at IRP Sub-Site 2A exceeded the Cal/EPA residential soil PRG value, but did not exceed the Cal/EPA industrial soil PRG value (Table 3-5).

Based on the residential risk screening, non-carcinogenic risk, and Cal/EPA pharmacokinetic model for a residential child, the dominant risk drivers for IRP Sub-Site 2A were identified as:

- Arsenic
- Hexavalent chromium
- Dioxins
- Lead
- Thallium
- Various PAHs (anthracene, benz[a]anthracene, benz[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene)

Thallium was eliminated as a COC because, except for one sample, all results were below the residential and industrial soil PRG values and background. The exception, although greater than the 95th percentile of the mean background concentration, was still considered to be within the true background population for this metal.

Based on the industrial risk screening, non-carcinogenic risks, and Cal/EPA pharmacokinetic model for an industrial adult, the dominant risk drivers for IRP Sub-Site 2A were:

- Arsenic
- Dioxins
- Various PAHs (anthracene, benz[a]anthracene, benz[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-c,d]pyrene)

Of the eight NCP criteria [40 Code of Federal Regulations (CFR), Part 300.415(b)(2)] used for determining the appropriateness of a removal action, the following was identified as being applicable for this removal action:

Actual or potential exposure to nearby human populations, animals, or the food chain may result from hazardous substances or pollutants or contaminants present at the site.

5.0 CONTAMINATION ADDRESSED BY THE REMOVAL ACTION

Interpretation of the source, nature, and extent of the former soil contamination at IRP Sub-Site 2A [intended to meet portions of California Health and Safety Code (Ca-HSC), Section 25323.1, description of on-site contamination and RAIP requirements] are primarily based on the following sources of information:

- Historical waste disposal records;
- Interviews with knowledgeable site personnel;
- Historical aerial photographs;
- RSE results; and,
- Results of other previous investigations.

The most significant previous investigations include the SAR (WCC, 1986), the SI Report (IT, 1992), the RFI (Brown and Caldwell, 1997), and the RFI Phase II Report (BNI, 1998b). These investigations included a comprehensive analytical testing program and, in most cases, third-party data validation. Other limited soil sampling studies and events provided supporting data [PWC, 1994; Pacific Treatment Environmental Services, Inc. (PTES), 1995].

The source of contamination at IRP Sub-Site 2A resulted from past disposal practices and the open burning of various types of demolition debris and hazardous waste. Pre-removal action drilling and soil sampling confirmed the subsurface presence of discolored soil containing these materials and wastes. Soil contaminants at IRP Sub-Site 2A included organic compounds [volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, PCBs, dioxins, and petroleum hydrocarbons) and inorganic substances consisting primarily of heavy metals. Human health risk screening results (Section 4.0) indicate that a select group of these contaminants were responsible for the majority of the potential risk determined for IRP Sub-Site 2A prior to the NTCRA. These contaminants represented the primary COCs because they were identified as the primary risk drivers for the NTCRA.

The identified primary COCs at IRP Sub-Site 2A included:

- Arsenic
- Lead
- Hexavalent chromium
- Dioxins
- Various PAHs

Although not a risk-driver, TPH-d was included because this contaminant co-occured with the primary COCs in a majority of the IRP Sub-Site 2A samples and is useful in estimating the vertical and lateral extent of contaminated soil.

6.0 REMOVAL ACTION DEVELOPMENT AND EVALUATION

This section of the Final Project Closure Report identifies the regulatory requirements applicable to the IRP Sub-Site 2A NTCRA. The regulatory framework and the ARARs for the project are summarized in this section and Table 6-1. Details concerning waste management practices involving temporary storage, transportation, and disposal of waste materials that were generated during the removal action are included in Section 10.0.

6.1 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

The NTCRA for IRP Sub-Site 2A followed the ARARs outlined in the RSE (BNI, 1998a) and RAIP (FWENC, 1999). All ARARs were adhered to throughout the NTCRA. As the lead federal agency, the DON had the primary responsibility for the identification of federal ARARs relevant to IRP Sub-Site 2A. As the lead state agency, DTSC had the responsibility for identifying appropriate state ARARs. In letters issued by the DON on August 12, 1998, the following regulatory agencies were requested to identify potential ARARs for the IRP Sub-Site 2A NTCRA:

- DTSC
- RWQCB
- San Diego Department of Health Services (Hazardous Materials Management Division)
- San Diego Air Pollution Control District (SDAPCD)
- California Coastal Commission
- California Department of Fish and Game

Responses were received from the RWQCB and DTSC in letters dated August 31, 1998, and September 10, 1998, respectively.

The EE/CA (BNI, 1999a) presents a detailed discussion of all ARARs considered and is incorporated herein by reference. The following discussion presents the project-specific ARARs.

Because project activities generated RCRA hazardous, non-RCRA hazardous, non-hazardous, and special wastes, the following federal and state regulations are applicable and were followed during the NTCRA:

- Ca-HSC, Section 25157.8
- California and EPA Regulations for Identification and Management of Hazardous Waste, Title 22 California Code of Regulations (CCR), Sections 260 through 299, and Title 40 CFR, Parts 260 through 299

TABLE 6-1

SUMMARY OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

ARAR	Regulation Summary
22 CCR, Section 66261	Requires a determination of whether or not the excavated soil is a hazardous waste.
40 CFR, Part 261	Requires a determination of whether or not the excavated soil is a hazardous waste.
22 CCR, Section 66262	Regulations applicable to the generation, storage, management, and accumulation of non-RCRA hazardous wastes.
40 CFR, Part 262	Regulations applicable to the generation, storage, management, and accumulation of RCRA hazardous wastes.
40 CFR, Part 264.554	RCRA Staging Pile regulation.
40 CFR, Part 265.258(a)	Requires removal and decontamination of all waste residues, contaminated containment system components, contaminated subsoils, and structures and equipment contaminated with waste and leachate and manages them as hazardous waste.
40 CFR, Part 265.111	Requires closure of facilities in a manner that minimizes the need for further maintenance, and controls, minimizes or eliminates, to the extent necessary to protect human health and the environment, post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the ground or surface water or to the atmosphere.
Division 20, Chapter 6.5, Section 25123.3	Allows material to be stockpiled at the site for up to 90 days without satisfying all substantive requirements of a hazardous waste facility permit provided specific criteria are met (see WMP in RAIP).
Resolution 95-112	Allows for a waiver from obtaining a Waste Discharge Requirements Permit through the filing of a Report of Waste Discharge and the compliance with specific requirements as outlined in Appendix D of the San Diego Water Quality Control Plan (RWQCB, 1995).
Policy Number 92-08	Requires BMPs be implemented to protect stockpiles from erosion and from stormwater run-on and runoff.
22 CCR, Section 66264	Requires storage of water that comes in contact with waste stockpiles.

TABLE 6-1

SUMMARY OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

ARAR	Regulation Summary
40 CFR, Part 264	Requires storage of water that comes in contact with waste stockpiles.
22 CCR, Sections 66264.191, 66264.192, 66264.193, and 66264.194	Storage tanks will be installed, managed, and inspected in accordance with these regulations.
22 CCR, Sections 66264.170 through 66264.178	Regulates the management of containers.
40 CFR, Part 66268.45	Regulates hazardous waste debris generated on site that has been treated using an alternative treatment technology and will be disposed of as non-hazardous solid waste at a Class III landfill.
22 CCR, Section 66268	Regulates hazardous waste debris generated on site that has been treated using an alternative treatment technology and will be disposed of as non-hazardous solid waste at a Class III landfill.
40 CFR, Part 300.440	CERCLA Off-site Policy. Waste that meets these requirements will be disposed of at a RCRA Subtitle C or D facility.
49 CFR, Parts 171 through 177	Regulator packaging, placarding, labeling, and manifest requirements.
40 CFR, Part 26, Subpart B	Regulator packaging, placarding, labeling, and manifest requirements.
22 CCR, Section 66262	Regulator packaging, placarding, labeling, and manifest requirements.
40 CFR, Parts 66262.20 through 66262.44	Requires retention of signed copies of manifest from the designated facility receiving the waste.
22 CCR, Sections 66262.41 and 66262.42	Requires biennial and exception reporting information be submitted as required.

TABLE 6-1

SUMMARY OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

ARAR	Regulation Summary
40 CFR, Parts 66262.41 through 66262.42	Requires biennial and exception reporting information be submitted as required.

Notes:

ARAR – applicable or relevant and appropriate requirement
BMP – Best Management Practice
CCR – California Code of Regulations
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
CFR – Code of Federal Regulations
RAIP – Remedial Action Implementation Plan
RCRA – Resource Conservation and Recovery Act
RWQCB – Regional Water Quality Control Board
WMP – Waste Management Plan

- Department of Transportation (DOT) Rules for Hazardous Materials Transport, Title 49 CFR, Parts 100 through 178
- California hazardous (Cal-Haz) Waste Management Regulations, Title 22 CCR, Sections 260 through 299
- SDAPCD Regulations
- Basin Plan (RWQCB, 1995)
- Applicable NAVSTA San Diego permits, policies, and procedures

The hazardous waste management regulations promulgated in Title 22 CCR were the controlling ARARs for the NTCRA. The specific regulatory sections and their application to the project activities are presented within the Waste Management Plan (WMP), Appendix K of the RAIP (FWENC, 1999).

For excavated soil that is neither a RCRA nor a non-RCRA hazardous waste, the controlling ARARs for soil management were the State Water Resources Control Board waste discharge to land requirements (specifically the requirements pertaining to management of designated waste) contained in Title 27 CCR, Division 2, Subdivision 1. The San Diego RWQCB, under Resolution 95-112, has outlined specific requirements for a waiver from the waste discharge requirements for the temporary discharge of contaminated soils (e.g., temporary stockpiles). These requirements were applicable to the project and are detailed in Appendix D of the Basin Plan (RWQCB, 1995). The specific requirements also are presented in Section 6.0 of the WMP in the RAIP (FWENC, 1999).

The substantive requirements of the SDAPCD Regulation IV, Rule 51 (pertaining to nuisance emissions) were applicable requirements for the NTCRA. Air monitoring was conducted to ensure compliance with SDAPCD requirements. In addition, appropriate Best Management Practices (BMPs) were employed to control stormwater and non-stormwater run-on/runoff and to minimize fugitive dust emissions during the NTCRA. Section 7.5 of this Final Project Closure Report details the results of the monitoring and air emission controls for the site.

6.2 REGULATORY PROCESS AND SITE ACTIVITIES

The environmental investigation and NTCRA at NAVSTA San Diego were conducted under the DON IRP. Activities conducted under the IRP were performed in accordance with CERCLA and the NCP. Under Executive Order 12580, the DON was the lead agency responsible for the cleanup effort, but DTSC was involved in IRP oversight. This NTCRA was planned based on the results and findings of the EE/CA (BNI, 1999a). The NCP requires that substantive requirements of the ARARs be followed; therefore, compliance with administrative requirements is waived. Specifically, CERCLA response actions are exempt by law (as codified in Title 40 CFR, Part 300.400) from the requirement to obtain federal, state, or local permits related to any activities

conducted completely on site. In addition to federal requirements, promulgated state regulations are potential ARARs.

The following actions are addressed in this Final Project Closure Report and are applicable to the IRP Sub-Site 2A NTCRA activities. The regulated activities for the NTCRA are as follows:

- Excavating contaminated soil. This was accomplished as described in Section 7.3.3 of this Final Project Closure Report.
- Collecting and analyzing samples from the excavation floor and sidewalls, decontamination water, stormwater, groundwater that may have infiltrated into the excavation, and construction debris during field activities. This was accomplished as described in Section 8.0 of this Final Project Closure Report.
- Identifying, characterizing, and segregating RCRA hazardous, non-RCRA hazardous, and non-hazardous waste materials encountered during excavation activities for subsequent disposal by the DON. This was accomplished as described in Section 10.0 of this Final Project Closure Report.
- Assisting the DON with the transportation and disposal of RCRA hazardous, non-RCRA hazardous, non-hazardous, and special wastes resulting from the cleanup activities. This was accomplished as described in Section 10.0 of this Final Project Closure Report.

7.0 REMOVAL ACTION

Remedial activities for the NTCRA were performed between December 27, 1999, and February 28, 2003, and consisted of pre-removal, removal, and restoration activities. The removal action was performed by both FWENC and PWC, and the site restoration activities were performed by PWC on Phases 1 through 5 and Phase 7 and by FWENC on Phase 6. Table 7-1 presents the breakdown of activities performed by FWENC and PWC.

The NTCRA activities presented in this Final Project Closure Report include data through March 7, 2003. The Draft Final Closure Report will include the final validated analytical data for the confirmation samples collected in the western half of the CST (mid 2003).

Table 7-2 provides a detailed chronology of the removal action. Appendix A (Remedial Action Photograph Log) and Appendix B (Removal Action Video) provide photographic documentation of the removal action. The individual activities are described in this section.

7.1 PREPARATORY REMOVAL ACTION ACTIVITIES

Pre-removal activities for the NTCRA were completed prior to mobilization and are presented in the following sub-sections. These pre-removal action activities included:

- Permits and notifications
- Geophysical survey
- Pre-removal action surveys
- Pre-removal action sampling
- Site preparation
  - Temporary fencing and barricade installation
  - Monitoring well abandonment
  - Exposing underground utilities
  - Stormwater management
  - Air monitoring equipment installation

7.1.1 Permitting and Notifications

Pursuant to CERCLA, only the substantive permitting requirements were addressed for the NTCRA. Prior to obtaining permits, the appropriate regulatory agency representative was contacted to clarify what portion of the permit process was exempt under CERCLA.

An air quality permit from the SDAPCD was required to address potential emissions of fugitive dust during excavation and other soil handling activities under SDAPCD Regulation IV;

TABLE 7-1

REMOVAL ACTION RESPONSIBILITIES

Responsible Party	Remedial Task
FWENC	Work Plans
	Permits and Notifications
	Geophysical Survey in all phases
	Pre-construction Survey
	Temporary fencing and barricade installation in Phases 1A, 2A, 6, and 7
	Monitoring well abandonment
	Air Monitoring Station installation and sampling
	Preparation of work zones in Phases 1A, 2A, 6, and 7
	Equipment Decontamination Facility Construction for FWENC equipment only
	Demolition of structures (Building 3252 only)
	Demolition of asphalt and concrete surfaces in Phases 1A, 2A, 6, and 7
	Radiation survey of soils (All phases excluding the northwest corner of Phase 7)
	Excavating of soil in Phases 1A, 2A, 6, and 7 (excluding the northwest corner); approximately 800 tons from Phase 2B, 3,000 tons from Phase 3, and 500 tons from Phase 4
	Shoring of Buildings 3224 and 198 and the south side of electrical substation
	Confirmation soil sampling in all phases
	Utility support and reconstruction in Phases 1A, 2A, 6, and 7 (except northwest area)
	Temporary well installation and abandonment
	Backfill, compaction, and testing in Phases 1A, 2A, 6, and 7 (excluding the northwest corner)
	Restoration and Redevelopment in Phase 6
	Removal and disposal of Building 199 UST
	Stockpile Management for all phases except the end of Phase 7
	Profiling, transport, and disposal of all soil (except the final shipping event)
	Transportation and disposal of concrete and asphalt for recycling in Phases 1A, 2A, 6, and 7 (excluding the northwest corner)
	Transportation and disposal of demolition material from Building 3252
	Survey of site boundaries
	Survey of utilities and preparation of as-builts for Phases 1A, 2A, 6, and 7 (excluding the northwest corner)
	Placement of sod in Phases 1, 2, 3, 4, and 5
	Design electrical lighting for parking area
	Grading plan design
	Removal of propane tanks
	Design containment system around Building 3224

TABLE 7-1

REMOVAL ACTION RESPONSIBILITIES

Responsible Party	Remedial Task
	Design replacement of light rail system
	Removal of sandblast grit from floor of Sandblast Facility
	Removal of the spray paint booth
	Construction of new bathroom facility for Buildings 334 and 198
	Removal and replacement of electrical duct banks
	Excavation of 9,364 tons of soil from Phase 7
	Survey sample locations
PWC	Preparation of work zones in Phases 1A, 2A, 6, and 7
	Equipment Decontamination Facility Construction for FWENC equipment only
	Demolition of structures: 3188, 3190, 3319, 3372, 3373, 3211, 3189, 3381, 3224, 3225, 199, 3253, 3226, 3252, and 204
	Demolition of asphalt and concrete surfaces in Phases 1B, 2B, 3, 4, and 5
	Excavation of soil in Phases 1B and 5; approximately 13,840 tons from Phase 2B, 7,960 tons from Phase 3, 1,180 tons from Phase 4, and 1,235 tons from Phase 7
	Utility support and reconstruction in Phases 1B, 2B, 3, 4, 5, and 7
	Backfill, compaction, and testing in Phases 1B, 2B, 3, 4, 5, and 7
	Restoration and Redevelopment in Phases 1, 2, 3, 4, 5, and 7
	Transportation and disposal of demolition material from Buildings 3188, 3190, 3319, 3372, 3373, 3211, 3189, 3381, 3224, 3225, 199, 3253, 3226, 3252, 204, and 3224A
	Transportation and disposal of water from excavations
	Placement of asphalt and concrete curbs in Phases 1, 2, 3, 4, 5, and 7
	Placement of topsoil in Phases 1, 2, 3, 4, and 5
	Placement of aggregate base in Phases 1, 2, 3, 4, 5, and 7
	Installation of irrigation system
	Hydroseeding of area around parking lot
	Installation of electrical conduits for parking lot lighting
	Removal of former bathroom facility for Building 334
	Removal and replacement of electrical duct banks

Notes:

FWENC - Foster Wheeler Environmental Corporation

PWC - Public Works Center

UST - underground storage tank

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
December 7, 1999	1 and 2	Site walk-through for site layout.
December 9, 1999	--	Began mobilizing equipment and office furniture.
December 14, 1999	1 and 2	Began setup of air monitoring stations (Tracer).
December 20, 1999	--	Received FWENC equipment 3 – Moxy trucks and 966 loader.
December 21, 1999	--	Received FWENC Samsung excavator.
December 22, 1999	1A	Phase 1A activities began. Began installing temporary fence.
December 27, 1999	1 and 2	Began collection of baseline air samples.
January 3, 2000	1A	PWC began demolition of metal shack and concrete and asphalt.
January 4, 2000	1 and 2	Began ambient air monitoring.
January 6, 2000	1A	Began hauling concrete to ENNIS Landfill for recycling.
January 11, 2000	1A	Phase 1A excavation activities began. Began pot-holing for site utilities.
January 18, 2000	1A	Began RAD survey and construction of stockpile cell.
January 19, 2000	1 and 2	Surveyed for grid system establishing areas for the site. Established three areas within Phase 1A, Areas 1, 2, and 3.
January 20, 2000	1A	Began excavation around piling in Area 3.
January 25, 2000	1A	Finished covering liner and began the first stockpile.
January 31, 2000	1A	Began construction of decontamination pad for Phase 1A soil in the Phase 2A area.
February 7, 2000	1A	Uncovered UST southeast of Building 199. SWPPP inspection of site performed.
February 8, 2000	1A	Began collecting progress samples in Phase 1A.
February 11, 2000	1A	Ocean Blue on site to clean UST near Building 199.
February 14, 2000	1A	Janel removed UST near Building 199 and transported for recycling.
February 15, 2000	1A	Started sampling (confirmation) for 5 to 15 feet in Area 3.
February 17, 2000	1A	Progress sampling in Phase 1A.
February 18, 2000	1A	Finished sampling (confirmation) in Areas 1, 2, and 3 (Phase 1A).
February 19, 2000	1A	No work due to heavy rain.
February 22, 2000	1A	Continued excavation of elevated RAD material – took an additional sample from Area 2 for lead and dioxin.
February 23, 2000	1A	New World Technology sampled stockpile for elevated RAD material.
February 24, 2000	1A	Sampled Stockpile 2 for T&D.
February 25, 2000	1A	Took four additional samples from Stockpile 1 – continued excavation of elevated RAD material.
February 29, 2000	1A	Took three samples from Stockpile 2 for delivery to PWC laboratory.
March 2, 2000	1A	Completed excavation of elevated RAD material.
March 7, 2000	1A	No work due to rain on March 6 and 7.
March 8, 2000	1A	Excavation completed in Areas 1, 2, and 3 (Phase 1A) to 5 feet bgs.
March 9, 2000	1A	Began sampling in Area 2 at 5 to 10 feet bgs.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
March 13, 2000	1A	Completed sampling 5 to 10 feet bgs and delivered to PWC laboratory.
March 14, 2000	1A	Demolished stilling basin at Building 3224.
March 17, 2000	1A	Plugged 6-inch sewer connected to active Manhole 8-07B.
March 20, 2000	1A	Abandoned Manhole 8-07C.
March 22, 2000	1A	Eight-inch water main shut down across site.
March 24, 2000	1A	Prepared area for loading trucks for T&D.
March 27, 2000	1A	Began loading soil for T&D to Safety–Kleen at Westmoreland and Burn's and Sons.
March 31, 2000	1A	Continued T&D soil to Safety-Kleen.
April 3, 2000	1A	Finished loading out the stockpiles.
April 4, 2000	1A	Began Phase 1A excavation from 5 to 10 feet bgs.
April 5, 2000	1A	Locate Point Source 1 at 7 feet bgs.
April 10, 2000	1A	Began excavation 1-foot lifts around piling, due to point source.
April 11, 2000	1A	First excavation down to 10 feet bgs next to piling north of Building 3224. Began removal of abandoned steam line.
April 17, 2000	1A	Continued excavation to 10 feet bgs – an additional 0.5 feet north of Building 3224 due to heavy hydrocarbon order. Floating product observed on groundwater in excavation.
April 19, 2000	1A	PWC vacuum truck began removal of product and water north of Building 3224.
April 24, 2000	1A	Stockpile quantities: STK –07 1,428 cy STK 06 – 1,232 cy. Sampled STK –08 today.
April 27, 2000	1A	Began loading trucks for T&D. First notification trucks could not leave Base through Gate 9 between 0715-0830 and 1400-1500 M T. W. & F and 0715-0830 and 1300–1400 on Thursday.
May 1, 2000	1A	Began excavation in the expansion area on east side.
May 4, 2000	1A	Began de-watering in Area 1 to do final excavation and began backfilling with ballast.
May 5, 2000	1A	Resolved the haul problem with Gate 9. Phase 1A backfilling began. Hauled the first ballast to Area 1 along 7th Street.
May 8, 2000	1A	Began T&D hauling using Gate 7 during the shutdown times. Started STK-10 today.
May 11. 2000	1A	Located four cylinders of compressed gas in stockpiled soil.
May 16, 2000	1A	Began excavation under electrical duct bank. T & D hauling continues.
May 17, 2000	1A, 1B, and 5	Geophysical survey of Building 199 yard, 7Th Street, and Building 3224.
May 18, 2000	1A	Radiological Point Source 2 was located in the stockpile from Phase 1A. It was properly disposed of per Radiological Plan.
May 22, 2000	1A	Began confirmation sampling in Phase 1A.
May 24, 2000	1A	No hauling activities today. Crew is supporting and protecting site utilities.
May 25, 2000	1A	Installed new 8-inch PVC sewer line in place of existing clay pipe east of manhole 8-07 to the limits of the expansion area.
May 26, 2000	1A	Removed clay sewer line west of Manhole 8-07 and installed new PVC.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
May 30, 2000	1A	Drilling crew on site collected direct-push samples in 7th Street before puncturing active water line.
May 31, 2000	1A	Completed new 8-inch PVC sewer line from Manhole 8-07 to west end of excavation in Area 1. Started excavation next to Building 199 and completed fence removal. Re-energized water line that was damaged during drilling operations.
June 1, 2000	1A	Repaired 4-inch sewer line damaged during excavation of expansion area.
June 2, 2000	1A	Removed abandoned 6-inch air line next to the steam line and cut for recycling.
June 5, 2000	1A	Excavated remainder of soil underneath electrical duct bank form and prepared for backfilling. Critical Cleaning mobilized today to begin encasement of asbestos on the steam line.
June 6, 2000	1A	Continued confirmation sampling of Phase 1A.
June 8, 2000	1A	Began hauling soil from STK-11.
June 12, 2000	1A	Began installing sewer line supports and excavating material from under sewer line. Continued confirmation sampling Phase 1A.
June 13, 2000	1A	Completed hauling soils (except for STK-11, STK-12, RAD-01, and RAD-02). Continued confirmation sampling of Phase 1A.
June 14, 2002	1A	Continued confirmation sampling of Phase 1A.
June 15, 2000	2A	PWC began demolition of concrete along west side of Phase 2A. Phase 2A field activities began.
June 16, 2000	1A	PWC finished demolition of concrete and asphalt and stockpiled for disposal. New World Technology hauled soil.
June 19, 2000	2A	Began first 2-foot lift at Phase 2A. PWC on site to haul out demolition debris. New World Technology on site to haul out RAD-01 and RAD-02.
June 20, 2000	1B	Work in Phase 1B began. Sample water from Building 3224 scrubbers/hoppers.
June 21, 2000	2A	Discovered abandoned UST or AST (40 gallon) in stockpile from Phase 2A.
June 22, 2000	2A	Located Point Source 3 at 6 feet bgs.
June 26, 2000	1A	Completed hauling of soils from Stockpiles RAD-01 and RAD-02. Received approval to relocate parking stalls (moved fenceline 20 feet west). Installed fence at Phase 1B.
June 28, 2000	1A	No hauling today. Surveyors on site set carbtrol points and re-established 25-foot grids and began as-built drawing. Began backfilling (with ballast material) – north face of Building 3224. Removed propane tank west of Building 3225.
June 30, 2000	1A	Began backfilling area north of Building 3224 with ballast material (in preparation for 40-mil liner installation).
July 7, 2000	1A	Sampled STK-17. Built STK-18 with material from Phase 1A, Area 2B. Installed grade stakes in Area 1A for placement of ballast. Located buried drum.
July 8, 2000	1A	Completed final excavation along 7th Street and placed ballast.
July 8, 2000	1B	Completed RAD survey of PWC excavation area in 1B.
July 10, 2000	1A	Located Point Source 4 at 6 feet bgs in Phase 1A.
July 10, 2000	1B	Sampled STK-18. Laid liner for PWC to begin stockpiling from Phase 1B.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
July 11, 2000	1A	Completed water removal from Phase 1A, Area 1A, and placed ballast. Continued confirmation sampling Phase 1A. Began placement of ballast between sewer line and the steam line.
July 11, 2000	1B	PWC began excavation in Phase 1B.
July 13, 2000	2A	Sampled STK-01PWC at Phase 1B. Sampled STK-19. Installed lined area for STK-02PWC. Located Point Source 5 at 2 feet bgs in Phase 2A.
July 18, 2000	1A	Began taking compaction test of FS-15 backfill in Area 1.
July 20, 2000	1B	Began relocation of Balboa Park Fill Hospital pile. Located Point Source 6 at 4 feet bgs in Phase 1B.
July 24, 2000	1B	Removed 8-inch sewer line and placed FS-15 on alignment. PWC began excavation after loading out stockpile PWC-01. Located Point Source 7 in Phase 1B PWC-02 stockpile.
July 26, 2000	2A	Located Point Source 8 in Phase 2A. PWC-03 stockpile.
July 27, 2000	2A	Began loading out STK-20.
July 28, 2000	1A	Completed the 8-inch sewer line to the west – 199. Completed hauling load-out of STK-20.
August 1, 2000	1A	Shipped asbestos from steam pipe and AST in the overpack by Critical Clean.
August 2, 2000	1A	Started hauling RCRA hazardous material for STK-14. Constructed Manhole 8-07.
August 3, 2000	1B, 2A, and 3	Confirmation samples were collected in Phase 1B, 2A, and 3.
August 7, 2000	1B	Began loading out PWC-03. Began excavating soil from underneath electrical duct banks.
August 8, 2000	1B	Collected sidewall confirmation samples from Phase 1B (east side). Finished sidewall samples east of Building 3224 prior to ballast. Began hauling ballast into Phase 1B east of Building 3224. Backfilling of Phase 1B began.
August 9, 2000	2A	Tri-County drilling on site to do direct-push sampling in Phase 2A.
August 10, 2000	2A	Cleanup free product at Phase 2A.
August 11, 2000	1B	Finished loading out PWC-03 stockpile. Began loading out STK-22.
August 14, 2000	2A	Finished loading out PWC-04 stockpile. PWC SCAPS unit on site for TPH delineation sampling in Phase 2A.
August 15, 2000	1A	Received passing tests on FS-15.
August 16, 2000	1B	Received passing compaction tests on aggregate base in hopper area. Began asphalt removal by PWC in expansion area of Phase 1B.
August 17, 2000	1A and 1B	Replaced 4-inch sewer line through Phases 1A and 1B. Finished hauling soils for disposal from STK-23. PWC began excavation in Area 1B.
August 18, 2000	1A	Finished excavation under electrical duct bank west of vault. Compaction taken on FS-15 passed. PWC broke concrete south of Building 3224.
August 21,,2000	1B	Sampled STK-05PWC.
August 23, 2000	2A	PWC removed concrete and began excavation again. Began excavating to 15 feet bgs in oily area of Phase 2A.
August 28, 2000	1A	Loaded out STK-24 for disposal. Laid new liner west of Building 3224 on top of clean FS-15.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
August 29, 2000	1B	PWC started stockpiling on new liner east of Building 3224. Cleaned up and shut down for four days. PWC SCAPS unit collecting data along 7th Street.
August 30, 2000	--	PWC SCAPS unit collecting data along Mole Road.
September 5, 2000	--	Sampled STK-027.
September 6, 2000	1A	Began hand excavation around the steam vault next to Building 199. Removed old 6-inch air line running north to south along steam line. Completed hauling STK-26 and began hauling STK-06PWC.
September 8, 2000	1A	Excavated and capped 8-inch fire water main to Building 3224.
September 11, 2000	1A	Finished hand excavation around steam vault next to Building 199. Started backfill around steam vault and utility lines with ballast. Phase 1A activities are completed.
September 12, 2000	2B	Began excavation next to Building 3224 and removed 4-foot concrete slab.
September 13, 2000	1B	Completed hauling STK-27. Finished excavating west side of Building 3224. Sampled STK-08PWC. Removed filter system in Building 3225.
September 14, 2000	1A and 1B	Collected confirmation samples at Phases1A, 1B, and Building 3224. Began hauling STK-07PWC. Began excavating soils to 15 feet bgs east of fiber optics concrete duct.
September 18, 2000	1B	Finished excavation to 15 feet and backfilled with ballast. Began backfilling Phase 1B with ballast material. Began hauling STK-08PWC; completed STK-07PWC.
September 19, 2000	1B and 5	PWC finished removing soil from Phase 1B. Sampled STK-09PWC and STK-28. Sampled Buildings 199 and 3224 for asbestos and lead paint.
September 20, 2000	1B	PWC coats the interior of Building 3225 for lead paint dust.
September 21, 2000	1A	All ballast in place in Area 1.
September 21, 2000	1B	PWC demolished Building 3225.
September 25, 2000	1B	Completed hauling STK-08PWC. Began hauling STK-09PWC. Replaced 4-inch sewer line in Area 1B.
September 28, 2000	1B	PWC demolished Building 334 bathroom.
October 2, 2000	--	Completed hauling STK-09PWC.
October 4, 2000	1B	PWC started moving to the concrete south of Building 3224. PWC removed hoppers from west end of Building 3224 and disconnected power.
October 6, 2000	1B	PWC demolished office space for Building 3224. SWPPP inspection completed. Removed sand from inside Building 3224.
October 10, 2000	2A	Completed final lift of FS-15 at Phase 2A and achieved required 93 percent on top 1 foot of placed material.
October 11, 2000	2A	Finished backfill around steam vault and sewer line. Finished placement of FS-15 backfill around utilities and Building 199 (Phase 2A).
October 12, 2000	1B	Completed removal of sandblast grit from Building 3224.
October 13, 2000	1B	PWC continued excavating in Phase 1B.
October 16, 2000	1A, 1B, and 2B	Began layout of the 40-mil liner in Phases 1A and 2A for the new stockpile area. Sampled STK-29. Began demolition of Phase 2B pavement.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
October 17, 2000	2B	Began removal and stockpiling of asphalt from Phase 2B. Phase 2B backfilling began.
October 18, 2000	2B	Restriped and rerouted parking west of the site. Placed 40-mil liner for Phase 2B stockpile laydown area. Installed three 1-inch-diameter temporary wells along Mole Road. Began excavation in Phase 2B. PWC demolished Building 3224 sandblast booth.
October 24, 2000	1B	Finished asphalt removal along west pre-construction line. Began excavation along west side. Began laying liner east and north of Building 3224 for stockpile area.
October 25, 2000	1B	Started excavation along west pre-construction boundary, working east.
October 30, 2000	1B	Sampled STK-31. Started STK-33 on the east side of Building 3224 on new liner.
October 31, 2000	1B	PWC began excavation along southeast of Phase 1B, working north.
November 6, 2000	--	Sampled STK-32.
November 7, 2000	5	Sampled STK-33. Began shipment of soil to Waste Management with Denbeste Transport. Collected core samples through Building 199 stained transformer pad and a soil sample from beneath.
November, 2000	--	Monitoring for free product from temporary wells. No measurable product was ever identified.
November 8, 2000	--	Started hauling to STK-34.
November 14, 2000	1A	PWC finished demolition of the pile caps for Building 3224 and began excavation of the 4- to 6-foot lift working from Building 3224 north.
November 15, 2000	--	Finished loading out STK-32.
November 16, 2000	1B	Encapsulated steam line. Located Point Source 9 in Phase 1B PWC-11 stockpile.
November 20, 2000	--	PWC finished stockpiling PWC-11, and pile was sampled. Also sampled STK-34.
November 27, 2000	3 and 4	Removed asphalt from Phase 3 and Phase 4 excavations.
November 27, 2000	1B	PWC finished excavation to 10 feet in Area 1B.
November 28, 2000	3 and 4	Began excavating Phases 3 and 4 soils. Sampled PWC-12. Started working on concrete pile rebar. Located Point Source 10 in Phase 4 at 2 feet bgs.
November 30, 2000	--	Finished loading out PWC-10.
December 1, 2000	--	Started loading out PWC-11.
December 4, 2000	--	Sampled STK-36.
December 5, 2000	4	Located and removed Point Sources 11 to 18 in Phase 4 at 3 feet bgs.
December 6, 2000	1B, 3, and 4	Confirmation sampling in Area 1B, which has been excavated to 10 feet. PWC finished removal of duct banks and excavated Area 1A to 10 feet. Located and removed Point Sources 19 to 23 in Phase 4 at 3 feet bgs and Point Sources 24 and 25 in Phase 3 at 3 feet bgs.
December 7, 2000	2B and 3	Confirmation sampling of all excavations completed to date in Phases 2B and 3.
December 8, 2000	2B	PWC began demolition of the last of the concrete slabs – Phase 2B. Removed the abandoned airline across Phase 2B. Critical Cleaning finished encapsulating the steam line.
December 11, 2000	4	Located and removed Point Source 26 in Phase 4 at 4 feet bgs.
December 13, 2000	4	Sampled PWC-13 and along Building 199. Started STK-36 next to PWC-12 on the east side of the site. Located and removed Point Sources 27 to 29 in Phase 4 at 6 feet bgs.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
December 14, 2000	2B	PWC began excavation 2-4 feet in Area 2B.
December 18, 2000	3	Abandoned Wells MW-10 and TW-1. Located and removed Point Source 30 in Phase 3 at 2 feet bgs.
December 20, 2000	1B	PWC began ballast backfill next to Building 334. Excavated last strip of excavation.
December 21, 2000	2B	PWC began ballast backfill west of steam and air line in Area 2B.
January 4, 2001	2B	Excavated last area in 2B. Sampled STK-38 and PWC-14.
January 4, 2001	1B	PWC began FS-15 backfill in Phase 1B.
January 5, 2001	--	At approximately 0645, one of the trucks from Dembeste hit a fire hydrant in the parking lot and also creased the fuel tank. Approximately 20 gallons of fuel was lost The PWC water department responded and shut the water off at 0650 and the cleanup and containment work began and continued for the remainder of the day.
January 9, 2001	1B	PWC finished placing FS-15 in Area 1B.
January 9, 2001	3 and 4	Collected confirmation sample from Phase 4. Began backfilling of Phases 3 and 4.
January 12, 2001	1B	No excavation due to heavy rain on the 10th, 11th, and 12th. Repaired fire hydrant. Work started on the bathroom in Building 334.
January 16, 2001	5	Began excavation next to Building 199.
January 17, 2001	--	Began loading trucks again, first day since January 10th.
January 18, 2001	7	Tri-County drilling on-site all day, drilling and sampling at CST.
January 19, 2001	2A	Sampled STK-39. Finished hand-augering samples in CST area – also finished core drilling Located and removed Point Source 31 in Phase 2A at 2 feet bgs.
January 22, 2001	2A	Exacavtion activities in Phase 2A completed.
January 26, 2001	--	No hauling due to heavy rain.
January 29, 2001	--	Started loading trucks for T&D from STK-39.
January 30, 2001	5	Finished wedge excavation and completed the area next to Building 199. As of today, all FWENC excavation is completed at Mole Pier.
January 31, 2001	3 and 5	Sampled STK-40 and completed confirmation samples on west side Phases 3 and 5. PWC began excavation to 15 feet between steam line and duct bank. Began removing liner and floor of STK-12.
February 2, 2001	--	Sampled PWC-14.
February 5, 2001	--	Tri-County drilling abandoned the two monitoring wells along Mole Road.
February 9, 2001	2B	PWC completes excavation from 2B and started Stockpile PWC-18 Finished most of STK-40.
February 15, 2001	--	No soil shipped from site due to rain from February 13-15, 2001.
February 22, 2001	1, 2B, 3, and 4	Sampled PWC-18. Confirmation sampling at Phases 1B, 2B, 3, and 4.
March 1, 2001	2B	No trucks loaded and no work by PWC from February 23-28, 2001, due to heavy rain. Confirmation samples were taken from the bottom of the excavation in Phase 2B with the backhoe.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
March 3, 2001	5	PWC removed the 8-inch sewer line to Building 199 and a section of the line to the steam vault.
March 6, 2001	5	PWC began demolition of Building 199. No excavation and no trucks loaded due to rain. Finished work on the bathroom in Building 334.
March 7, 2001	5	Finished demolition of Building 199 and started transport and disposal of debris from building.
March 8, 2001	1B and 3	Took confirmation samples next to Building 334 in Areas 1B and 3.
March 9, 2001	1B	PWC finished excavation next to Building 334.
March 10, 2001	5	PWC began excavation under Building 199. A 10-inch water line was hit at 1100, and no further excavation was done after that.
March 12, 2001	3 and 5	Finished loading out PWC-17 and started PWC-18. Confirmation sample in Phases 3 and 5.
March 12, 2001	5	Excavation in Phase 5 complete
March 14, 2001	5	Backfilling in Phase 5 began. Sampled PWC-20.
March 15, 2001	6	Began drilling and sampling the area where the welding shop and the east portion of Sub-site 2A. PWC began decontamination equipment and demobilization.
March 16, 2001	1B	PWC began excavation under east-west duct bank.
March 19, 2001	--	Began loading from PWC-19.
March 20, 2001	1B	PWC began work on sewer line from the manhole to Building 334.
March 21, 2001	1B	PWC began backfill around duct bank and manhole. Removed septic from behind Building 334.
March 26, 2001	1B, 3, and 4	PWC began excavation next to Building 334 and along Mole Road, Phases 1B, 3, and 4.
March 27, 2001	1A, 1B, 3, and 4	PWC finished excavation next to Building 334 and Building 199 floor. Excavating in Phases 1B, 3, and 4 are complete. Collected confirmation samples from Phases 1A, 1B,and 3. Excavation in Phase 1B is complete.
March 27, 2001	5	PWC began backfill Building 199 area with ballast/FS-15.
March 28, 2001	1B	PWC began working on electrical duct banks. Finished transport and disposal of all quantity in FWENC budget. There is approximately 6,000 to 7,000 tons remaining on site. PWC transported and disposed of the remaining soil. Began demobilization and decontamination of equipment.
March 29, 2001	--	FWENC demobilization from the site. All remaining work on the site to be completed by PWC.
April 3, 2001	1 to 5	Site restoration of Phases 1 to 5 began. Grading Phases 1A and 2A.
April 4, 2001	1B	PWC began backfill of the excavation southwest of Building 334.
April 9, 2001	1 to 5	Phases 1 to 5 backfilling complete. Began loading soil from PWC-20.
April 10, 2001	--	No loading today due to rain.
April 11, 2001	--	Began loading PWC-21.
April 15, 2001	1B	PWC replaces water line to Building 334.
April 17, 2001	1B	PWC replaces sewer line to Building 334.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
April 19, 2001	1B	PWC restores power to Building 334.
April 20, 2001	--	FWENC demobilized from site.
April 25, 2001	1 to 5	Grading of site continued by PWC.
April 27, 2002	1 to 5	PWC installed conduits for parking lot lights.
May 7, 2001	1 to 5	PWC completed grading of planned parking lot.
May 9, 2001	1 to 5	PWC began asphalt paving of parking lot.
May 16, 2001	1 to 5	PWC grading topsoil in planned grass areas.
May 31, 2001	6	PWC completed demolition of Building 204.
June, 2001	7	PWC completes demolition of Buildings 3275 and 3318.
June 21, 2001	7	PWC completes demolition of Building 3548.
June 22, 2001	7	PWC completes demolition of hose racks in CST.
June 11, 2001	6	FWENC remobilized for Phase 6.
June 17, 2001	6	Constructed containment cell for excavated soil.
June 22, 2001	6	Set up air monitoring station.
June 25, 2001	6	Began excavating E1.
June 28, 2001	6	Began excavating B2.
July 5, 2001	6	Began excavating B1 and C1.
July 6, 2001	6	Began excavating D4 (eastern half of excavation B2).
July 9, 2001	6	Begain excavating B4.
July 18, 2001	6	Began excavating C5.
July 19, 2001	6	Collected confirmation samples from E1, B2, and B4.
July 20, 2001	6	Collected samples from soil stockpile.
July 23 and 24, 2001	6	Collected confirmation samples from C1 and B1.
July 25, 2001	6	Surveyed excavation.
July 26, 2001	6	Began backfill of Excavation B2 near utility bank.
August 20, 2001	6	Began backfill of Excavations E1, C5, and B1.
August 23, 2001	6	Began backfill of Excavation E2.
August 24, 2001	6	Began backfill of Excavation B2.
August 27, 2001	6	Began backfill of Excavation B4.
September 5, 2001	1 to 5	Installed irrigation system.
September 6, 2001	6	Asphalt paving of excavations B1, C1, B2, B4, and D4. SWPPP inspection.
September 10, 2001	1 to 5	Began laying sod at Phases 1 through 5.
September 21, 2001	6	Over-excavated B2.
September 22, 2001	6	Site work on hold pending confirmation sample results.
September 25, 2001	6	FWENC demobilization.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
October 1, 2002	6	Collected confirmation samples in Phase 6.
November 28, 2001	6	Began shipping soil from Phase 6.
December 17, 2001	6	Began over-excavating B2 and C5.
December 18, 2001	6	Completed over-excavating B2 and C5. Collected confirmation samples.
December 19, 2001	6	Began backfill and compaction of B2 and C5.
December 27, 2001	6	Completed backfill and compaction of B2 and C5.
December 28, 2001	6	Repaired irrigation system and spread topsoil.
December 31, 2001	6	Completed site cleanup. Site secured pending paving and sod placement.
January 3, 2002	6	Completed demobilization.
April 29, 2002	6	Began mobilization.
May 1, 2002	6	Began geophysical survey.
May 2, 2002	6	Began setup of air monitoring station.
May 6, 2002	6	Completed setup of air monitoring station.
May 7, 2002	6	Cut and removed asphalt from concrete pad location.
May 10, 2002	6	Finished forming and placing steel for concrete pad.
May 11, 2002	6	Poured concrete and finished the 30' x 45' concrete pad.
May 13, 2002	6	Completed geophysical survey of proposed excavation area.
May 15, 2002	6	Began cutting concrete and asphalt at excavation.
May 20, 2002	6	Reviewed shoring plan with ROICC; received acceptance/authorization to proceed.
May 21, 2002	6	Began drilling w/cason for shoring; began removing concrete (west side of shed).
May 22, 2002	6	Completed shoring work; transfer of Site Superintendents.
May 28, 2002	6	Began excavation on west side of welding canopy.
May 29, 2002	6	Completed excavation on west side of welding canopy.
May 30, 2002	6	Collected confirmation soil samples; began backfilling excavation.
June 5, 2002	6	Began installation forms for CDF in western excavation.
June 6, 2002	6	Completed installation of forms; cut asphalt around east excavation; loaded and shipped to recycling (Vulcan) nine loads (approx. 175 tons) of asphalt and concrete.
June 7, 2002	6	Began excavation (C5 north); transported soil from excavation to soil stockpile area.
June 12, 2002	6	Drilled, set cason, and anchored concrete shoring under northeast corner of structure.
June 13, 2002	6	Began transportation and disposal of soil.
June 21, 2002	6	Removed asphalt from C5.
June 27, 2002	6	Collected confirmation sample.
June 28, 2002	6	Began backfill excavation C5.
July 1, 2002	6	Completed excavation activities in C5.
July 9, 2002	6	Completed transportation and disposal of soil from C5.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
July 11, 2002	6	Poured and placed 40 cy of concrete pad, west side of canopy; completed backfill and compaction, ready for base.
July 12, 2002	6	Placed base and 4,000 square feet of asphalt in two lifts, fog seal.
July 15, 2002	6	Turned over recently remediated area to PWC.
July 16, 2002	7	Began saw cutting and removing asphalt in new dig area.
July 17, 2002	7	Began breaking up concrete pads.
July 22, 2002	7	Completed break up of concrete pads.
July 23, 2002	6	Completed geophysical survey of proposed excavation area; began excavation.
July 24, 2002	6	Transported and recycled concrete and asphalt.
July 25, 2002	6	Began performing radiological survey on excavated material.
July 26, 2002	6	Completed excavation.
July 30, 2002	6	Began breaking up/removing concrete on south side of Buildings 198 and 3252; hit 1-inch water line just under asphalt.
July 31, 2002	6	Completed breaking up concrete; repaired broken water line; completed utility resurvey; began hand digging to locate the utilities next to Building 198.
August 1, 2002	6	T&D asphalt and concrete for recycling; completed utility survey at proposed CB wall location; collected soil stockpile samples.
August 5, 2002	6	Removed temporary backfill on east wall of the CST southeast excavation and replaced with ballast rock; excavated CB trench 73 feet north of Building 334.
August 6, 2002	6	Over-excavate the CB wall trench to remove TPH-impacted soil.
August 7, 2002	6	Began backfill of trench.
August 8, 2002	6	Jobsite was shut down at 1300 due to respirable dust from concrete demolition work adjacent to the soil stockpile.
August 13, 2002	6	Completed compaction and testing of CB wall trench.
August 15, 2002	6	Demolished wood locker room building next to Building 3252; ran plumbing to temporary shower trailer and hook up water line; surveyed utilities around Building 198.
August 16, 2002	6	Began backfill of the remaining portion of Excavation C5.
August 21, 2002	6	Began transportation and disposal of soil to La Paz Landfill.
August 26, 2002	6	Completed backfill of remaining portion of Excavation C5.
August 27, 2002	6	Began excavating at B6 boring area.
August 28, 2002	6	Completed T&D of soil to La Paz Landfill.
August 30, 2002	7	CST work began. Began demolition of surface asphalt and concrete.
September 4, 2002	7	Completed demolition of surface asphalt and concrete; demolished Building 3252.
September 5, 2002	7	Began excavation activities at the CST in the south central portion of the site; loaded/transported concrete to Vulcan for recycling.
September 11, 2002	7	Completed excavation activities in the south central portion of the site.
September 12, 2002	7	Began breaking up concrete and cutting rebar.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
September 17, 2002	7	Loaded and transported asphalt and concrete for recycling; potholed near Building 198 to identify source of white PVC line to be abandoned.
September 18, 2002	7	Loaded and transported construction debris to Miramar Landfill; potholed newer Building 198 to locate abandoned steam line wrapped in asbestos. Collected confirmation sample.
September 19, 2002	7	Potholed near Building 198 to locate abandoned air line.
September 23, 2002	7	PWC on site to cut and cap abandoned steam line; cut asphalt along 7th Street and across western ramp for temporary electrical reroute.
September 24, 2002	7	Loaded and transported asphalt and concrete to Vulcan for recycling.
September 25, 2002	7	Cut and capped sewer line from former Building 3252; finished cutting asphalt across western access ramp for placement of temporary electrical conduit.
September 26, 2002	7	Performed asbestos abatement on abandoned steam line and removed from excavation; removed and broke up former steam vault along 7th Street; excavated around, cut, and buried risers for former wash rack; completed the reroute of the electrical duct bank.
September 27, 2002	7	Began excavating soil from area around the rerouted electrical duct bank.
September 30, 2002	7	Completed excavation of soil from area around electrical duct bank.
October 1, 2002	7	Began shoring for Building 198 and the electrical substation.
October 2, 2002	7	Removed large buried steam vault east of Building 198.
October 3, 2002	7	Removed one electrical duct bank that was identified as abandoned by FWENC.
October 7, 2002	7	Exposed a new set of two electrical duct banks, tested, and removed near southeast corner of Building 198.
October 15, 2002	7	Chased a fourth electrical duct bank near Building 198.
October 18 2002	7	Relocated electrical duct bank.
October 21, 2002	7	Exposed a known electrical duct bank and prepared for temporary relocate.
October 24-29, 2002	7	Shipped soil to La Paz Landfill.
October 29, 2002	7	Relocated a temporary telephone line to Building 198.
November 6, 2002	7	Delineated extent of TPH-contaminated soil at the northeast corner of Building 198.
November 8, 2002	7	Began backfill of the eastern CST.
November 11, 2002	7	SWPPP inspection.
November 13, 2002	7	Encapsulated 30 feet of steam line.
November 14, 2002	7	Encapsulated another 30 feet of steam line.
November 19, 2002	7	Recycled asphalt and concrete; exposed main electrical duct bank.
November 20, 2002	7	Encountered 6-foot-high buried vault for steam line junctions.
November 22, 2002	7	Flushed and replaced 44 feet of sewer, west of manhole.
November 25, 2002	7	Shipped soil to La Paz Landfill.
December 2, 2002	7	Removed TPH-contaminated soil from northeast area of Building 198.
December 2, 2002	7	Expanded stockpile area for TPH soil and PCB soil from isolated pocket.
December 3, 2002	7	Began removing steam vault.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Date	Phases	Description
December 9, 2002	7	Removed soil from isolated pocket at Boring A3.
December 9, 2002	7	Collected three confirmation samples from northeast corner of CST.
December 11, 2002	7	Flushed and replaced 90 feet of sewer line east of manhole.
December 12, 2002	7	Encapsulated 100 feet of steam line and completed excavation of eastern CST.
December 12, 2002	7	Began shower construction in Building 198.
December 13, 2002	7	SWPPP inspection.
December 13, 2002	7	Surveyed utilities.
December 30, 2002 to January 6, 2003	7	Shipped soil to La Paz Landfill.
January 6, 2003	7	Collected confirmation sample.
January 7, 2003	7	Recycled concrete and asphalt.
January 7, 2003	7	Began excavating western CST area.
January 9, 2003	7	Relocated the telephone line to Building 198.
January 13, 2003	7	FWENC completed excavating in western CST.
January 13, 2003	7	Collected three confirmation samples.
January 14, 2003	7	FWENC began backfill of western CST.
January 16, 2003	7	Collected one confirmation samples.
January 20, 2003	7	Collected one confirmation samples.
January 20, 2002	7	Rerouted water line for Building 198.
January 23, 2003	7	FWENC completed backfill of eastern and western CST. PWC began temporary power setup for substation.
January 24, 2003	7	PWC relocated communication lines. Redirected power to substation from main duct bank to on-site power stations.
January 25, 2003	7	PWC began excavating northwest corner of CST removing electrical duct bank. SWPPP inspection.
January 27, 2003	7	Surveyed site boundaries and sample locations. PWC began shoring of substation and 7th Street using slide-rail system.
January 28, 2003	7	PWC performed abatement of steam line crossing excavation.
January 30, 2003	7	PWC replaced sewer line crossing excavation. Collected final confirmation sample.
February 3, 2003	7	PWC began placement of aggregate base across CST.
February 3 to 14, 2003	7	Final FWENC demobilization.
February 5, 2003	7	PWC began loading out remaining soil to La Paz Landfill.
February 7, 2003	7	Reconstruction of electrical duct bank.
February 13, 2003	7	Shipping of soil off site completed. Staging area cleaned up.
February 18, 2003	7	PWC prepared CST area for paving.
February 28, 2003	7	PWC completed asphalt paving and site restoration of CST area.

TABLE 7-2

REMOVAL ACTION CHRONOLOGY

Notes:

AST	–	aboveground storage tank
bgs	–	below ground surface
CB	–	construction battalion
CDF	–	controlled density fill
CST	–	collection, storage, and transfer
cy	–	cubic yards
FWENC	–	Foster Wheeler Environmental Corporation
PCB	–	polychlorinated biphenyl
PVC	–	polyvinyl chloride
PWC	–	Public Works Center
RAD	–	radiation
RCRA	–	Resource Conservation and Recovery Act
ROICC	–	Resident Officer in Charge of Construction
SCAPS	–	Site Characterization Analysis Penetrometer System
SWPPP	–	Stormwater Pollution Prevention Plan
T&D	–	transport and disposal
TPH	–	total petroleum hydrocarbons
UST	–	underground storage tank

Rules 50 and 51. The permit application specified engineering controls (moisture conditioning of soil), appropriate personal protective equipment (PPE), and monitoring equipment (high-volume sampling and personal monitoring) to be used as appropriate

Well permit applications were required for monitoring well installation/abandonment and soil borings that encountered groundwater at CERCLA sites by the County of San Diego Site Assessment and Mitigation (SAM) Division. Based on the excavation boundary, the groundwater monitoring wells, MW10 and MW4, were abandoned prior to excavation to ensure that a potential conduit for contamination to groundwater was not created. Permit applications were submitted for abandonment of these wells (Appendix C). Since the total depth of the soil borings for pre-construction soil sampling was above groundwater, pre-construction sampling did not require permitting. Soil borings and temporary wells installed during the removal action required permits that were obtained through the County of San Diego SAM.

FWENC maintains a current annual excavation permit from the California Occupational Safety and Health Administration (Cal/OSHA) (No. 99-903457). The required 5-day Cal/OSHA notification was provided before the excavation activities were conducted. Dig Alert was notified prior to any drilling or excavation activities. All excavations were conducted in accordance with the requirements of Title 8 CCR, Sections 1539 through 1541, and CFR, Parts 1910 and 1926. The sidewalls of those areas requiring 4 feet or deeper excavation (up to 10 feet) were sloped with a ratio of 1½ horizontal to 1 vertical (1½H:1V). Daily inspections of excavations were performed to assess the stability of the sidewalls in excavated areas.

Permits for temporary stockpiling of hazardous waste were not necessary because the excavated soil and waste material were not stored on site for greater than 90 days. Permits were not required by NAVSTA San Diego, as the generator, for off-site transportation of hazardous waste.

A grading permit was not required because the federal government is exempt under San Diego County Ordinance, Chapter 2, Section 87.201 and because the grading was supervised and inspected by a registered professional engineer. However, two grading plans were prepared for the new parking lot area in the western portion of IRP Sub-Site 2A and within the area of the former CST facility as part of an overall drainage plan for Seventh Street.

FWENC coordinated with the Remedial Project Manager (RPM) to obtain necessary station approvals for the demolition of CST and CDU buildings (performed by PWC) and excavation, along with the removal of demolition waste, impacted soil, and debris from IRP Sub-Site 2A. Approvals included the following conditions:

- The DON's PWC Underground Service Alert marked all underground utilities prior to conducting any excavation activities.

- Approval was obtained from the Resident Officer in Charge of Construction (ROICC) prior to disposal of construction debris at Miramar Landfill or other regulatory-approved facilities.
- Secure site approval was granted from the Base Commanding Officer
- A hot work permit was obtained from the Base Fire Department for cutting rebar from demolished concrete.

Copies of the well and drilling permits are included in Appendix C, Environmental Permits and Notifications.

7.1.2 Geophysical Survey

Prior to mobilization and excavation activities, a complete geophysical survey was completed at IRP Sub-Site 2A using existing utility maps, ground-penetrating radar (GPR), and electromagnetic (EM) sensing devices. The geophysical survey was conducted to:

- Confirm utility clearance in a 5-foot by 5-foot area around each proposed boring location
- Locate additional utilities not included on PWC utility maps within the site boundary
- Physically mark utility locations on the ground surface with paint

The existing utility maps were used as a guide to identify which utilities existed at IRP Sub-Site 2A. GPR and EM sensing devices were used to refine the locations of these utilities. Once the utilities were located, a utility map was developed (Figure 7-1). This subsurface utility map was used to locate, abandon, and/or relocate utilities at IRP Sub-Site 2A. Many utilities at the former CST facility not identified by PWC, Dig Alert, utility drawings, and a private utility-locating service were encountered during the removal action. The former CST facility near Building 198 and the electrical substation contained compressed air, steam, water, and sewer utilities that were not identified by the utility survey.

7.1.3 Pre-removal Action Survey

In February 1999, FWENC conducted a land survey and an underground utility search at IRP Sub-Site 2A. The survey activities implemented prior to initiation of field sampling included:

- Creating an accurate topographic map of IRP Sub-Site 2A
- Identifying/marking proposed boring locations
- Developing an underground utilities map

The topographic survey documented existing surface features and conditions, such as buildings, curbs, gutters, sidewalks, utilities, manholes, and other points in sufficient detail to generate the topographic map with 1-foot interval contour elevation lines (Figure 7-2).

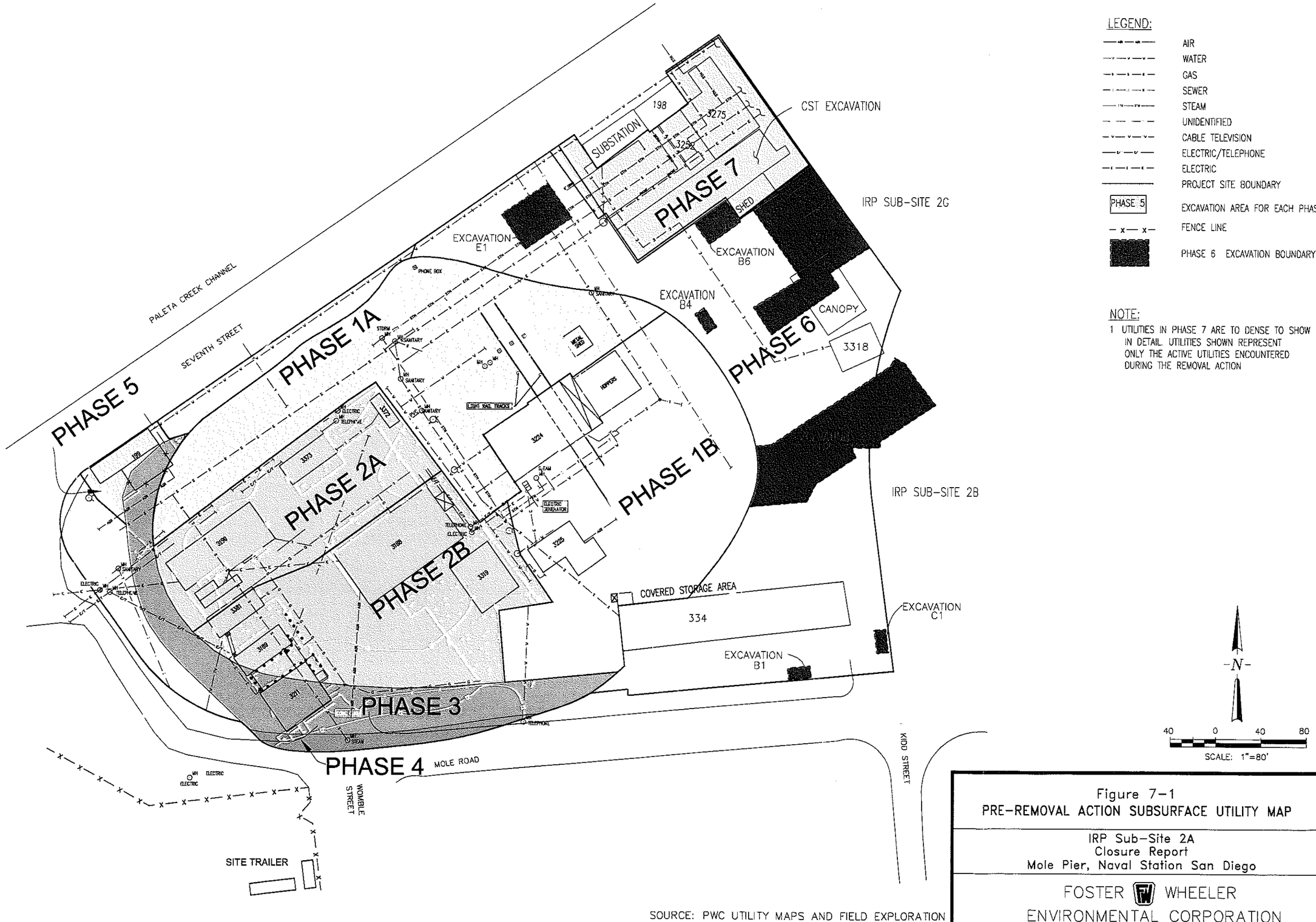

Figure 7-1
PRE-REMOVAL ACTION SUBSURFACE UTILITY MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

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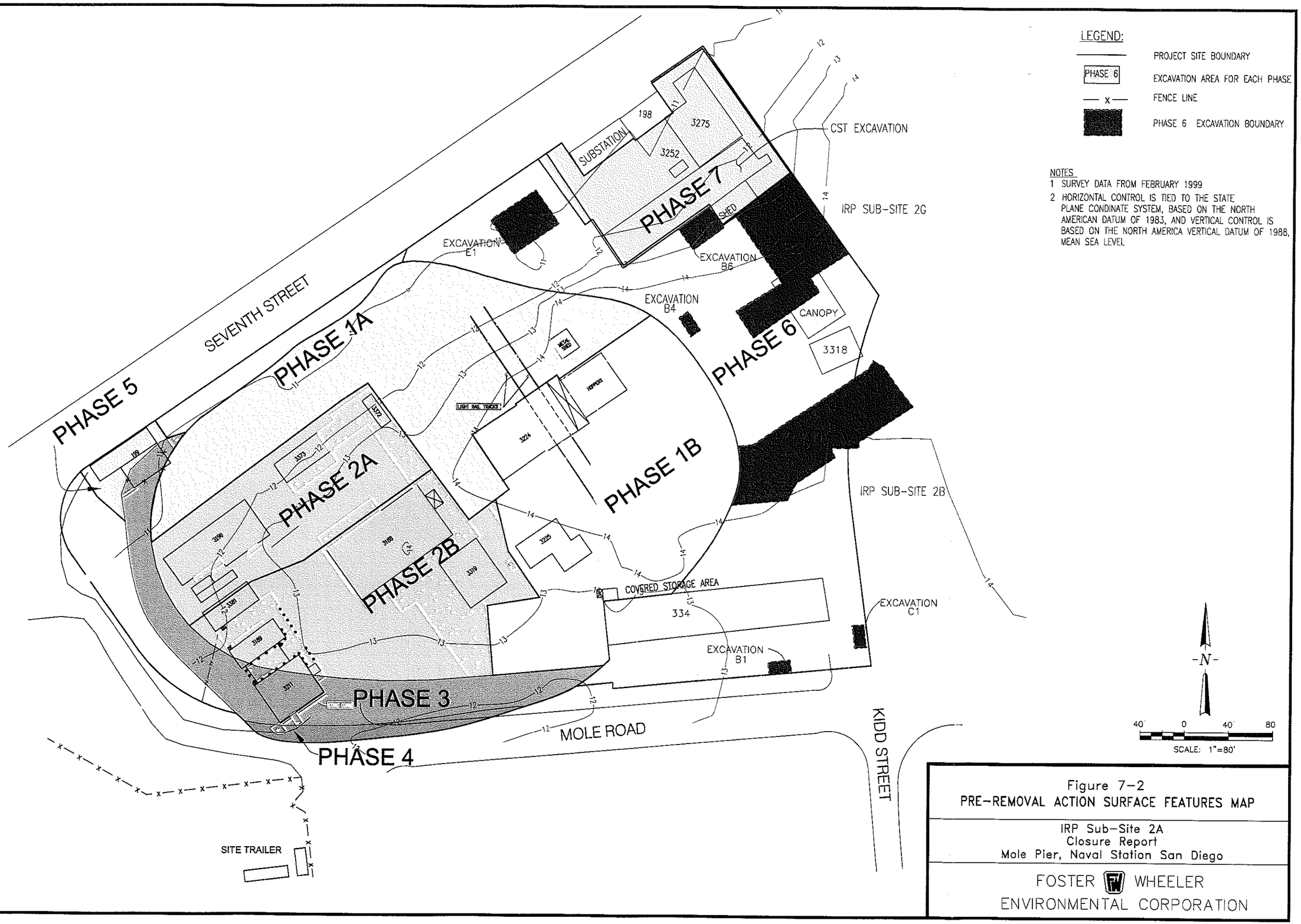

Figure 7-2
PRE-REMOVAL ACTION SURFACE FEATURES MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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The Base map contained a northing and easting grid coordinate system overlaid with 50-foot interval indicators for the remediation, confirmation sampling, and site restoration work. Autocad was used to generate the topographic map of the Base. A California-licensed land surveyor (FWENC subcontractor) performed the survey using a third-order, Class I accuracy. Horizontal control (northings and eastings) was tied to the State Plane Coordinate System, based on the North American Datum (NAD) of 1983, and vertical control (elevations) was tied to North American Vertical Datum (NAVD) of 1988, mean sea level.

The topographic map was used for plotting sample locations, locating excavation boundaries, and preparing a final grading design. The underground utility search used the Base PWC maps and subsurface geophysical surveys to prepare a map showing the locations of the subsurface utilities at IRP Sub-Site 2A. The utilities location map was overlaid on the topographic map of IRP Sub-Site 2A to create a composite map depicting all the necessary information to be used during the field sampling and excavation activities.

Since this initial survey, multiple survey tasks have been completed to support the additional phases of work.

7.1.4 Pre-removal Sampling

The pre-removal sampling activities were conducted to assess the extent of contamination and more accurately determine the limits of the excavation prior to fieldwork. Pre-removal sampling minimized the uncertainties related to subsurface conditions that could potentially result in cost/schedule impacts or interference with NAVSTA San Diego operations during the NTCRA.

To assess the extent of contamination, approximately 98 soil samples were collected from 29 soil borings at locations along the perimeter of the proposed excavation boundary and at interior locations where additional analytical data were needed. The borings were terminated at approximately 8 feet bgs and were not extended to or below the groundwater table. Samples were analyzed for the same chemicals identified during previous investigations as documented in the *Final RFI II Report* and EE/CA (BNI, 1999b; 1999a). These results were incorporated with the results from previous investigations to assess the extent of contamination and were used to minimize field changes to the excavation limits during field activities.

In addition to these soil samples, representative composite soil samples from the soil borings were analyzed for waste characterization parameters to determine classification of soil generated from the excavation areas.

A total of 29 soil borings were drilled at the locations shown on Figure 7-3. The analytical results of the pre-removal action sampling activities were used as a basis for defining expanded lateral construction boundaries outside those originally identified in the EE/CA (BNI, 1999a). The results are discussed in the RAIP (FWENC, 1999). Continuous cores were retrieved from each

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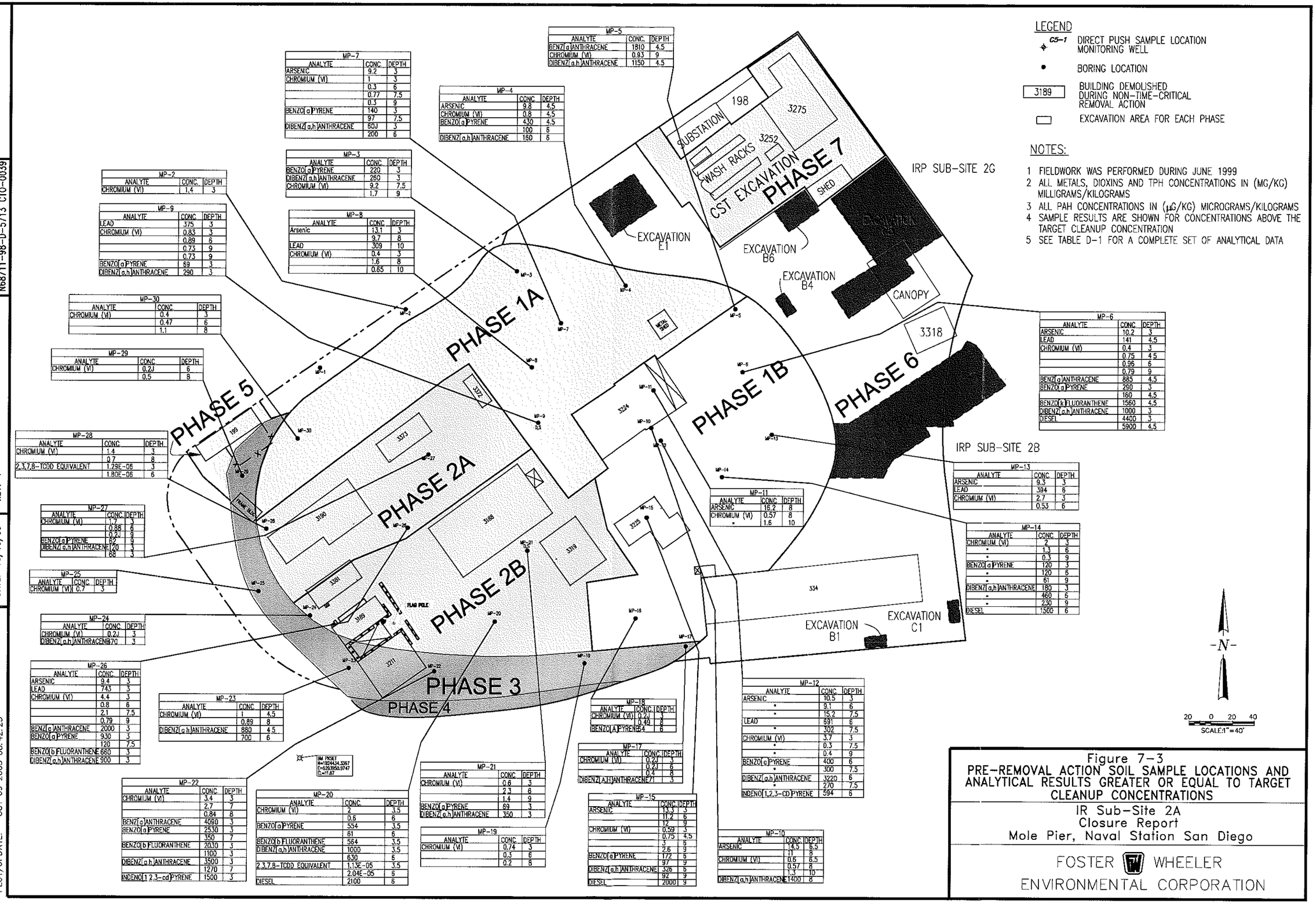

LEGEND

- C5-1 — DIRECT PUSH SAMPLE LOCATION MONITORING WELL
- BORING LOCATION
- 3189 — BUILDING DEMOLISHED DURING NON-TIME-CRITICAL REMOVAL ACTION
- EXCAVATION AREA FOR EACH PHASE

NOTES:

1. FIELDWORK WAS PERFORMED DURING JUNE 1999
2. ALL METALS, DIOXINS AND TPH CONCENTRATIONS IN (MG/KG) MILLIGRAMS/KILOGRAMS
3. ALL PAH CONCENTRATIONS IN (µG/KG) MICROGRAMS/KILOGRAMS
4. SAMPLE RESULTS ARE SHOWN FOR CONCENTRATIONS ABOVE THE TARGET CLEANUP CONCENTRATION
5. SEE TABLE D-1 FOR A COMPLETE SET OF ANALYTICAL DATA

MP-2		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	1.4	3

MP-9		
ANALYTE	CONC.	DEPTH
LEAD	375	3
CHROMIUM (VI)	0.83	3
	0.89	6
	0.73	9
	0.73	9
BENZO[a]PYRENE	69	3
DIBENZ[a,h]ANTHRACENE	290	3

MP-30		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.4	3
	0.47	6
	1.1	8

MP-29		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.2J	6
	0.5	8

MP-28		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	1.4	3
	0.7	8
2,3,7,8-TCDD EQUIVALENT	1.29E-05	3
	1.80E-06	6

MP-27		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	1.7	3
	0.88	6
	0.2J	9
BENZO[a]PYRENE	62	9
DIBENZ[a,h]ANTHRACENE	120	3
	68	3

MP-25		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.7	3

MP-24		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.2J	3
DIBENZ[a,h]ANTHRACENE	170	3

MP-26		
ANALYTE	CONC.	DEPTH
ARSENIC	9.4	3
LEAD	743	3
CHROMIUM (VI)	4.4	3
	0.8	6
	2.1	7.5
	0.79	9
BENZ[a]ANTHRACENE	2000	3
BENZO[a]PYRENE	930	3
	120	7.5
BENZO[b]FLUORANTHENE	660	3
DIBENZ[a,h]ANTHRACENE	900	3

MP-23		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	1	4.5
	0.89	8
DIBENZ[a,h]ANTHRACENE	880	4.5
	700	6

MP-22		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	3.4	3
	2.7	7
	0.84	8
BENZ[a]ANTHRACENE	4090	3
BENZO[a]PYRENE	2530	3
	350	7
BENZO[b]FLUORANTHENE	2030	3
	1100	3
DIBENZ[a,h]ANTHRACENE	3500	3
	1270	7
INDENO[1,2,3-cd]PYRENE	1500	3

MP-20		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	2	3.5
	0.6	6
BENZO[a]PYRENE	554	3.5
	61	6
BENZO[b]FLUORANTHENE	564	3.5
DIBENZ[a,h]ANTHRACENE	1000	3.5
	630	6
2,3,7,8-TCDD EQUIVALENT	1.13E-05	3.5
	2.04E-05	6
DIESEL	2100	6

MP-21		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.6	3
	2.3	6
	1.4	9
BENZO[a]PYRENE	69	3
DIBENZ[a,h]ANTHRACENE	350	3

MP-19		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.74	3
	0.3	6
	0.2	8

MP-18		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.2J	3
	0.49	8
BENZO[A]PYRENE	54	6

MP-17		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	0.2J	3
	0.2J	8
	0.4	8
DIBENZ[A,H]ANTHRACENE	71	3

MP-15		
ANALYTE	CONC.	DEPTH
ARSENIC	13.3	3
	11.2	6
	12	9
CHROMIUM (VI)	0.59	3
	0.75	4.5
	3	6
	2.6	9
BENZO[a]PYRENE	172	6
	97	9
DIBENZ[a,h]ANTHRACENE	326	6
	92	9
DIESEL	2000	9

MP-10		
ANALYTE	CONC.	DEPTH
ARSENIC	14.5	6.5
	11	8
CHROMIUM (VI)	0.6	6.5
	0.57	8
	1.3	10
DIBENZ[a,h]ANTHRACENE	1400	8

MP-12		
ANALYTE	CONC.	DEPTH
ARSENIC	10.5	3
"	9.1	6
"	15.2	7.5
LEAD	691	6
"	302	7.5
CHROMIUM (VI)	3.7	3
"	0.3	7.5
"	0.4	9
BENZO[a]PYRENE	400	6
"	300	7.5
DIBENZ[a,h]ANTHRACENE	3220	6
"	270	7.5
INDENO[1,2,3-CD]PYRENE	594	6

MP-11		
ANALYTE	CONC.	DEPTH
ARSENIC	16.2	8
CHROMIUM (VI)	0.57	8
"	1.6	10

MP-13		
ANALYTE	CONC.	DEPTH
ARSENIC	9.3	3
LEAD	394	6
CHROMIUM (VI)	2.7	3
	0.53	6

MP-14		
ANALYTE	CONC.	DEPTH
CHROMIUM (VI)	2	3
"	1.3	6
"	0.3	9
BENZO[a]PYRENE	120	3
"	120	6
"	61	9
DIBENZ[a,h]ANTHRACENE	180	3
"	460	6
"	230	9
DIESEL	1500	6

MP-6		
ANALYTE	CONC.	DEPTH
ARSENIC	10.2	3
LEAD	141	4.5
CHROMIUM (VI)	0.4	3
	0.75	4.5
	0.96	6
	0.79	9
BENZ[a]ANTHRACENE	885	4.5
BENZO[a]PYRENE	250	3
	160	4.5
BENZO[k]FLUORANTHENE	1560	4.5
DIBENZ[a,h]ANTHRACENE	1000	3
DIESEL	4400	3
	5900	4.5

MP-7		
ANALYTE	CONC.	DEPTH
ARSENIC	9.2	3
CHROMIUM (VI)	1	3
	0.3	6
	0.77	7.5
	0.3	9
BENZO[a]PYRENE	140	3
	97	7.5
DIBENZ[a,h]ANTHRACENE	60J	3
	200	6

MP-5		
ANALYTE	CONC.	DEPTH
BENZ[a]ANTHRACENE	1810	4.5
CHROMIUM (VI)	0.93	9
DIBENZ[a,h]ANTHRACENE	1150	4.5

MP-4		
ANALYTE	CONC.	DEPTH
ARSENIC	9.8	4.5
CHROMIUM (VI)	0.8	4.5
BENZO[a]PYRENE	430	4.5
	100	6
DIBENZ[a,h]ANTHRACENE	160	6

MP-3		
ANALYTE	CONC.	DEPTH
BENZO[a]PYRENE	220	3
DIBENZ[a,h]ANTHRACENE	260	3
CHROMIUM (VI)	9.2	7.5
	1.7	9

MP-8		
ANALYTE	CONC.	DEPTH
Arsenic	13.1	3
	9.7	8
LEAD	309	10
CHROMIUM (VI)	0.4	3
	1.6	8
	0.65	10

Figure 7-3
PRE-REMOVAL ACTION SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS GREATER OR EQUAL TO TARGET CLEANUP CONCENTRATIONS

IR Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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boring location using direct-push drilling methods, which allowed for the visual inspection and logging of the entire soil column prior to submitting samples to the laboratory for analysis. The 1-inch-diameter cores extended from the surface to just above groundwater based on the interval of contaminated soil within the excavation area identified in the EE/CA (BNI, 1999a). Prior to coring, the depth to groundwater was measured in nearby monitoring wells to ensure that groundwater would not be encountered.

Core samples from various depths were submitted for laboratory analysis from each boring. Seventeen of the 29 borings were located along the excavation boundary to define the limit of contamination. Borings were staggered 20 feet inside and 20 feet outside of the excavation boundary and were spaced approximately 50 feet apart as shown on Figure 7-3. Twelve cores were also collected from the interior of the excavation at locations where data gaps existed, including two borings inside the former PWC welding/paint shop and one boring inside former Building 3225.

The borings were completed pursuant to the San Diego County *SAM Manual* [Department of Environmental Health (DEH), 1998], DTSC requirements, and appropriate protocols for logging, decontamination, and backfilling. A direct-push rig with a stainless steel core barrel lined with clear acetate sleeves was used to retrieve the cores. A licensed land surveyor surveyed the location of each boring on June 15, 1999.

The samples were analyzed for metals, PAHs, PCBs, and TPH-d. Four selected samples were analyzed for dioxins. In addition, 19 samples were analyzed for leachable lead and/or chromium. Analytical results from soil samples were compared with NAVSTA San Diego background concentrations and respective residential PRGs (EPA, 1998). Table D-1 summarizes the analytical results for metals, PAHs, PCBs, dioxins, and TPH-d. Figure 7-3 shows the distribution of analytical results from pre-construction sampling exceeding the target cleanup concentrations that were established during the health risk assessment (DON, 1999)

7.1.5 Site Preparation

Site work was initiated after the following pre-removal action activities were completed:

- Permitting
- Pre-removal action sampling and analysis
- Preparation of construction drawings and specifications
- DON and regulatory agencies approval of the RAIP (FWENC, 1999)
- Pre-mobilization conference and Operational Readiness Review (ORR)

Issues or concerns identified during the pre-mobilization conference and the ORR were addressed prior to mobilization. The following activities associated with the NTCRA at IRP Sub-Site 2A were conducted:

- Procure mobile construction equipment and support facilities;
- Obtain all necessary permits and provide documentation of the required personnel training and certifications;
- Conduct pre-construction meeting, site-specific training, and weekly progress meetings;
- Install temporary fencing to establish work areas and prepare contaminated and non-contaminated soil staging areas;
- Construct an equipment decontamination pad and a wastewater tank secondary containment system;
- Install run-on and runoff control features around the soil stockpile area;
- Conduct clearing, grading, and grubbing;
- Demolish asphalt and concrete to facilitate removal of contaminated soil in the subsurface;
- Abandon on-site wells that were located within the excavation area boundaries;
- Conduct personnel and area air monitoring during contaminated soil excavation, handling, and loading activities;
- Excavate contaminated soils and collect confirmation samples;
- Characterize and segregate the excavated soil stockpiles and prepare waste for transport;
- Transport the contaminated soils to an off-site treatment and/or disposal facility authorized to accept RCRA and/or non-RCRA waste;
- Survey the excavation limits during each phase to provide appropriate documentation;
- Backfill and compact the excavated areas to at least 90 percent of maximum dry density;
- Perform decontamination of equipment;
- Conduct site restoration;
- Complete pre-final and final inspections of finished construction activities by the ROICC and NAVSTA Environmental Engineer; and
- Perform utility reconstruction, abandonment, and replacement.

Site preparation activities were organized into the following sections:

- Preparation of work zones: exclusion zone (EZ), contamination reduction zone (CRZ), and support zone (SZ)

- Equipment decontamination facility
- Temporary fencing and barricade installation
- Monitoring well abandonment
- Exposing underground utilities
- Stormwater management activities
- Air monitoring equipment installation

A description of each of the site preparation activities is included below.

Preparation of Work Zones

Prior to excavation, the work areas were segregated into three zones: the EZ, the CRZ, and the SZ The EZ was established in areas where excavation activities were conducted, including the loading areas and soil stockpile areas. The CRZ was established adjacent to the EZ to provide a secure area for personnel and equipment decontamination. The SZ was established to provide an area where equipment and supplies were staged when not in use. The three zones were moved to different areas, depending on the phase of work to be conducted and to better support the NTCRA activities.

Equipment Decontamination Facility

The equipment decontamination area was located within the CRZ and included a secondary containment system and a rinsate collection system. A concrete bermed pad was constructed, within Phase 2B for the decontamination of equipment. A lined rinsate collection sump was constructed within the pad for the collection of the rinsate water. Additionally, an asphalt pad was constructed within the northwest portion of Phase 1A for the decontamination of equipment during excavation of Phases 2B, 3, 4, and 5. During Phases 6 and 7, the containment system consisted of either a 20-mil liner on grade extending over sandbags acting as a containment wall or a 20-foot by 40-foot concrete pad equipped with a 6-inch berm (located in the former CST facility) for the rinsing and decontamination of all equipment, machinery, and trucks containing contaminated soil.

Temporary Fencing and Barricade Installation

Temporary 6-feet-high chain-link fencing was installed to secure IRP Sub-Site 2A. The EZ (excavation area), CRZ (decontamination area), and SZ (support area) were located within the fenced area for the project. Barricades were placed around open excavations as required.

Monitoring Well Abandonment

Monitoring Wells MW10 and MW04 located within the excavation area were properly abandoned prior to excavating contaminated soils. Based on the excavation boundary, these wells were abandoned in accordance to the *SAM Manual* requirements (DEH, 1998) and procedures described in *California Well Standards Bulletin, 74-90* (Department of Water Resources, 1991). These requirements included filing a permit application, over-drilling to remove materials in the wells, and backfilling the borings with bentonite cement grout.

In the course of abandoning the monitoring wells, all fluids displaced out of each well were placed in 55-gallon drums until sampling and analysis were performed to characterize the waste and determine an appropriate disposal method.

Upon completion of the well abandonment activities, a report was prepared to document the activities performed and was submitted to the County of San Diego DEH.

Exposing Underground Utilities

The locations of all underground utilities within excavation areas and within a 5-foot area outside of the excavation areas were physically exposed for visual identification by potholing with a backhoe and hand-excavating. Potholing was performed, as necessary, to confirm utility locations based on PWC maps and geophysical surveys performed during pre-construction sampling activities. The potholes were surveyed and secured with barricades and caution tape and were backfilled until the area was excavated.

Stormwater Management Activities

A portion of excavation, stockpiling, backfilling, and related soil-handling activities were completed during a portion of the rainy season. Storm drain inlets in the vicinity of the excavation were protected as necessary. Stormwater and non-stormwater run-on and runoff at the contaminated soil stockpile areas were controlled by the containment system. All stormwater management activities were completed in accordance with the *Stormwater Pollution Prevention Plan* (SWPPP) *for Stormwater Discharges Associated with Construction Activities* [Camp, Dresser, & McKee, Inc. (CDM), 1999)]. CDM performed monthly inspections of the project site to ensure compliance with the SWPPP. CDM also would inspect IRP Sub-Site 2A within 8 hours of any significant storm event. Any findings made during these inspections were documented and corrected by either FWENC or PWC.

Air Monitoring Station Installation

Prior to commencing excavation activities, an air monitoring station was set up downwind of all construction activities. The location selected for the air monitoring station was approximately

200 feet to the east/southeast of Building 3224. Results from the air monitoring station are provided in Section 7.5 of this Final Project Closure Report.

7.2 CHRONOLOGY OF THE REMOVAL ACTION

This section describes by each phase, the work that was completed as part of the removal action including mobilization, demolition of the CDU building complex, the removal action, and demobilization. Figure 7-4 shows the location of each phase of the removal action. Table 7-2 is a removal action chronology by date and is a comprehensive description of the removal action including the support activities. The support activities included transport and disposal of soil and recycling material, stockpile sampling, utility reconstruction and support, and radiological surveying. Table 7-3 summarizes removal action activities by phase and includes excavation, backfill, and restoration dates.

7.2.1 Mobilization

Four mobilizations were performed during the NTCRA. The first mobilization commenced on December 7, 1999, to complete Phases 1 through 5. The second mobilization commenced on June 11, 2001, to complete the initial Phase 6 activities, the third on November 28, 2001, to complete the second part of Phase 6, and the fourth and final mobilization commenced on April 30, 2002, to complete Phase 6 and Phase 7.

7.2.2 Demolition of Consolidated Divers Unit Building Complex

PWC mobilized personnel and equipment to begin removal of the initial structures in December 1999 and completed demolition in January 2000. The structures removed at this time were Buildings 3211, 3189, 3381, 3190, 3373, 3372, 3188, and 3319. Figure 7-5 shows the location of the demolished buildings. The major construction features of the demolished buildings are summarized below:

- Building 3190 was a 3,150-square foot facility formerly used as a weight room and staff lounge. The building was slab on grade with a wood and metal frame, metal siding, and metal roof. Utilities to the building included electricity, communications cabling, and propane.
- Building 3373 was a 1,000-square foot facility formerly used for open storage. The building was three-sided slab on grade with concrete masonry unit (CMU) foundation stem walls, metal frame, metal siding, and metal roof. There were no utility services provided in this structure.
- Building 3188 was a 5,500-square foot high-bay facility formerly used for open storage, offices, and decompression unit housing. The building was slab on grade, metal frame, metal siding, and metal roof. Utilities to the building included electricity, communications cabling, and propane.

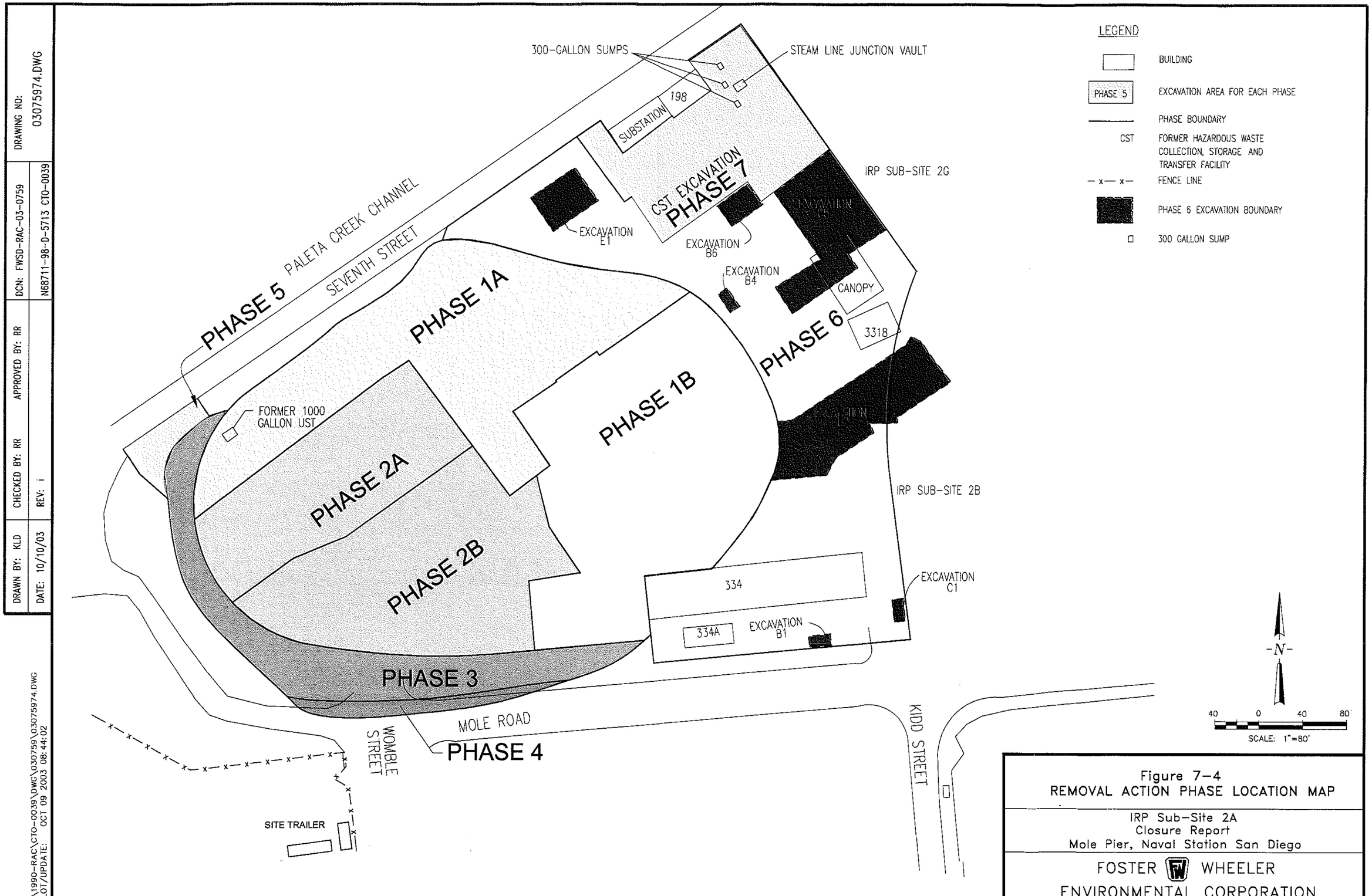

Figure 7-4
REMOVAL ACTION PHASE LOCATION MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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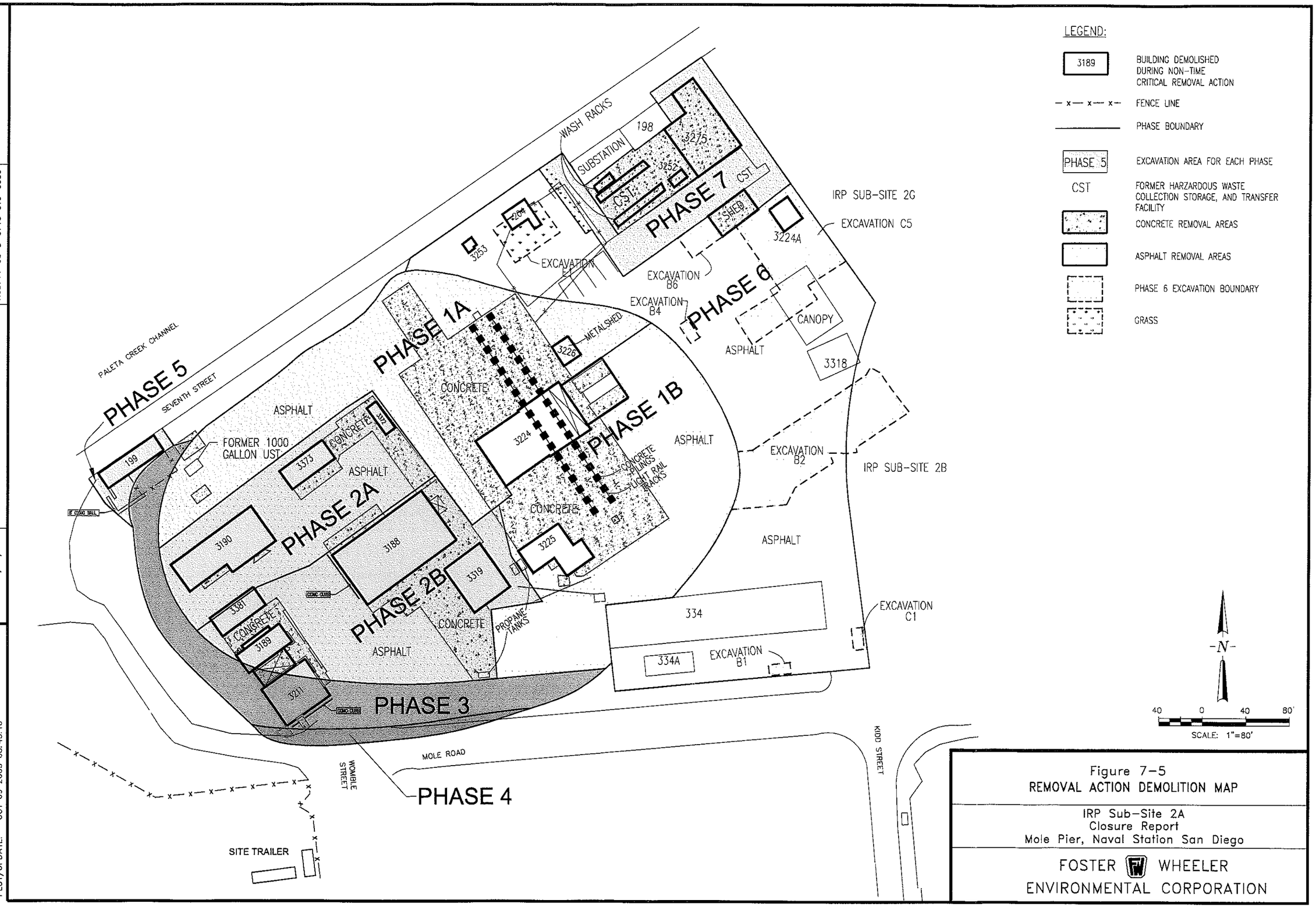

Figure 7-5
REMOVAL ACTION DEMOLITION MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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TABLE 7-3

CHRONOLOGY OF REMOVAL ACTION ACTIVITIES BY PHASE

Phase	Excavation ID	Completion Period	Excavation Period	Backfill Period	Restoration Period
1A	1A	December 22, 1999 to September 11, 2001	January 11, 2000 to March 8, 2000[a] April 4, 2000 to September 11, 2000[b]	May 5, 2000 to April 9, 2001	April 3, 2001 to September 11, 2001
1B	1B	June 20, 2000 to September 11, 2001	July 11, 2000 to March 27, 2001	August 8, 2000 to April 9, 2001	April 3, 2001 to September 11, 2001
2A	2A	June 15, 2000 to September 11 2001	June 19, 2000 to January 22, 2001	August 8, 2000 to April 9, 2001	April 3, 2001 to September 11, 2001
2B	2B	October 17, 2000 to September 11, 2001	October 8, 2000 to February 9, 2001	December 21, 2000 to April 9, 2001	April 3, 2001 to September 11, 2001
3	3	November 27, 2000 to September 11, 2001	November 28, 2000 to March 27, 2001	January 9, 2001 to April 9, 2001	April 3, 2001 to September 11, 2001
4	4	November 27, 2000 to September 11, 2001	November 28, 2000 to March 27 2001	January 9, 2001 to April 9, 2001	April 3, 2001 to September 11, 2001
5	5	November 7, 2000 to September 11, 2001	January 16, 2001 to March 12 2001	March 14, 2001 to April 9, 2001	April 3, 2001 to September, 11 2001
6	6	June 11, 2001 to February 28, 2003	June 25, 2001 to September 11, 2002	July 24, 2001 to January 23, 2003	September 16, 2001 to February 28, 2003
6	B1	July 5, 2001 to September 16, 2001	July 5, 2001	August 20, 2001	September 16, 2001

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TABLE 7-3

CHRONOLOGY OF REMOVAL ACTION ACTIVITIES BY PHASE

Phase	Excavation ID	Completion Period	Excavation Period	Backfill Period	Restoration Period
6	B2	June 28, 2001 to September 16, 2001	June 28, 2001 to December 20, 2001	August 24, 2001 to December 31, 2001	September 16, 2002
6	B4	July 9, 2001 to September 16, 2001	July 9, 2001	August 27, 2001 to September 5, 2001	September 16, 2001
6	B6	August 27, 2002 to February, 28 2003	August 27, 2002 to September 11, 2002	September 11, 2002 to January 23, 2003	February 28, 2003
6	C1	July 5, 2001 to September 16, 2001	July 5, 2001	July 24, 2001 to September 5, 2001	September 16, 2001
6	C5	July 18, 2001 to February 28, 2003	July 18, 2001 to July 1, 2002	July 28, 2002 to January 23, 2003	July 12, 2002 to February 28 2003
6	D4	July 6, 2001 to September 16, 2001	July 6, 2001	August 23, 2001 to September 5, 2001	September 16, 2001
6	E1	June 25, 2001 to September 11, 2001	June 25, 2001 to July 19, 2001	August 20, 2001 to September 5, 2001	September 11, 2001
7	CST	August 30, 2002 to February 28, 2003	September 5, 2002 to January 13, 2003	November 8, 2002 to January 23, 2003	January 23, 2003 to February 28, 2003

Notes:

[a] to 5 feet below ground surface
[b] to 10 feet below ground surface
CST – collection, storage, and transfer

- Building 3372 was a 300-square foot facility formerly used for hazardous material storage. The building was slab on grade with CMU walls and concrete roof planks. There were no utility services provided in this structure.
- Building 3319 was a 2,000-square foot facility formerly used for open storage. The building was three-sided slab on grade with concrete pilasters supporting metal columns connected to roof purlins. Utilities to the building included electricity only.
- Building 3211 was a 1,050-square foot facility formerly used for CDU Administration. This building was slab on grade. Utilities to the building included electricity, water, sewer, propane, and communication cabling.
- Building 3189 was a 3,000-square foot facility formerly used for showers and lockers. This building was slab on grade. Utilities to the building included electricity, water, sewer, propane, and communication cabling.
- Building 3381 was a 3,000-square foot facility formerly used for showers and lockers. This building was slab on grade. Utilities to the building included electricity, water, sewer, propane, and communication cabling.

Prior to the use of heavy equipment, PWC removed the interior metal light fixtures, electrical boxes and conduit, and other ancillary features with hand tools. The buildings and their contents were then reduced to debris using the appropriate equipment (backhoe with grappler/thumbs, loaders, and so forth). A tracked excavator with a thumb was used to peel away the metal siding and roofing from the building support structure. Afterwards, a trackhoe was used to chip away and remove interior building materials starting at a corner of each building. Considerable effort was made to avoid knocking down large sections of the buildings and to minimize the dispersion or mixing of the materials. A tracked excavator with a shear was used to remove the roof purlins and cut the columns at the footer. The remaining debris was reduced in size so that it could be loaded into trucks. The demolition material was hauled off site for disposal at the Ennis and Miramar landfills or recycled when feasible.

All foundations were removed during demolition. All utilities were capped and abandoned in place or removed when necessary. All utilities abandoned in place were ultimately rerouted or removed prior to backfill and compaction following the completion of excavation activities. Prior to the demolition of each structure, all utilities were isolated and disconnected. The supply system was abandoned in place and removed during soil excavation activities.

Under the EPA, Cal/EPA, and DON waste minimization requirements, and local recycling directives, demolition debris was recycled when possible. Scrap metal, wood, concrete, and asphalt were recycled at appropriate facilities approved by the DON and FWENC's subcontractor qualification procedures. All materials that could not be recycled were disposed of in a landfill permitted to receive such wastes. The landfill was subject to the DON's approval and FWENC's subcontractor selection procedure. The Ennis and Miramar landfills were used to the greatest extent possible.

Debris or soil contaminated with lead-based paint was generated during demolition. Waste material contaminated with lead-based paint was properly characterized and disposed of at an appropriate off-site facility. Section 10.0 details various waste classifications and the location of the respective disposal facilities.

The following measures were implemented to protect the environment at the project site:

- Stormwater and erosion control
- Fugitive dust control
- Wastewater collection and disposal

Since the area of demolition and excavation did not exceed 5 acres, a National Pollution Discharge Elimination System permit and SWPPP were not required for the NTCRA. However, a SWPPP was prepared (CDM, 1999) as a conservative measure, and BMPs were implemented to control stormwater and erosion during demolition activities.

During demolition activities, surfaces were kept moist using truck-mounted sprayers or by covering surfaces. Dust was controlled during non-working periods by covering stockpiles and using water and the proper housekeeping activities. Monthly, bimonthly, and rainfall event inspections were conducted as part of the SWPPP. The results of these inspections are documented in Appendix C, Environmental Permits and Notifications.

7.2.3 Phase 1A – Northern Excavation Area

Phase 1A activities were performed between December 22, 1999, and September 11, 2001. The excavation was completed to a depth of 5 feet bgs between January 11, 2000, and March 8, 2000, and to 10 feet bgs between April 4, 2000, and September 11, 2000, after progress sampling analytical results indicated that COCs remained in the soils at greater depth. Prior to excavation, the grid system for IRP Sub-Site 2A was surveyed and marked and the air monitoring station was installed. The grid system established the boundaries for excavation in Phases 1 (1A and 1B) and 2 (2A and 2B). Additionally, the grid was used to divide Phase 1A into three separate areas for excavation purposes (see Figure 7-6 for the location of these areas). Ambient air monitoring was conducted to obtain baseline air sampling data prior to disturbing any Phase 1A soil. Finally, the asphalt and concrete was removed on January 3, 2000, and an in situ radiation survey was completed on the exposed soil.

Excavation commenced on January 11, 2000, with potholing for utilities and continued to January 20, 2000, when excavation around the pilings north of Building 3224 began (Area 3). During the excavation of the northwest corner of Phase 1A, a 1,000-gallon underground storage tank (UST) was discovered at the southeast corner of Building 199 on February 7, 2000. The UST was inspected, and a minor amount of residue was found inside. On February 11, 2000, the UST

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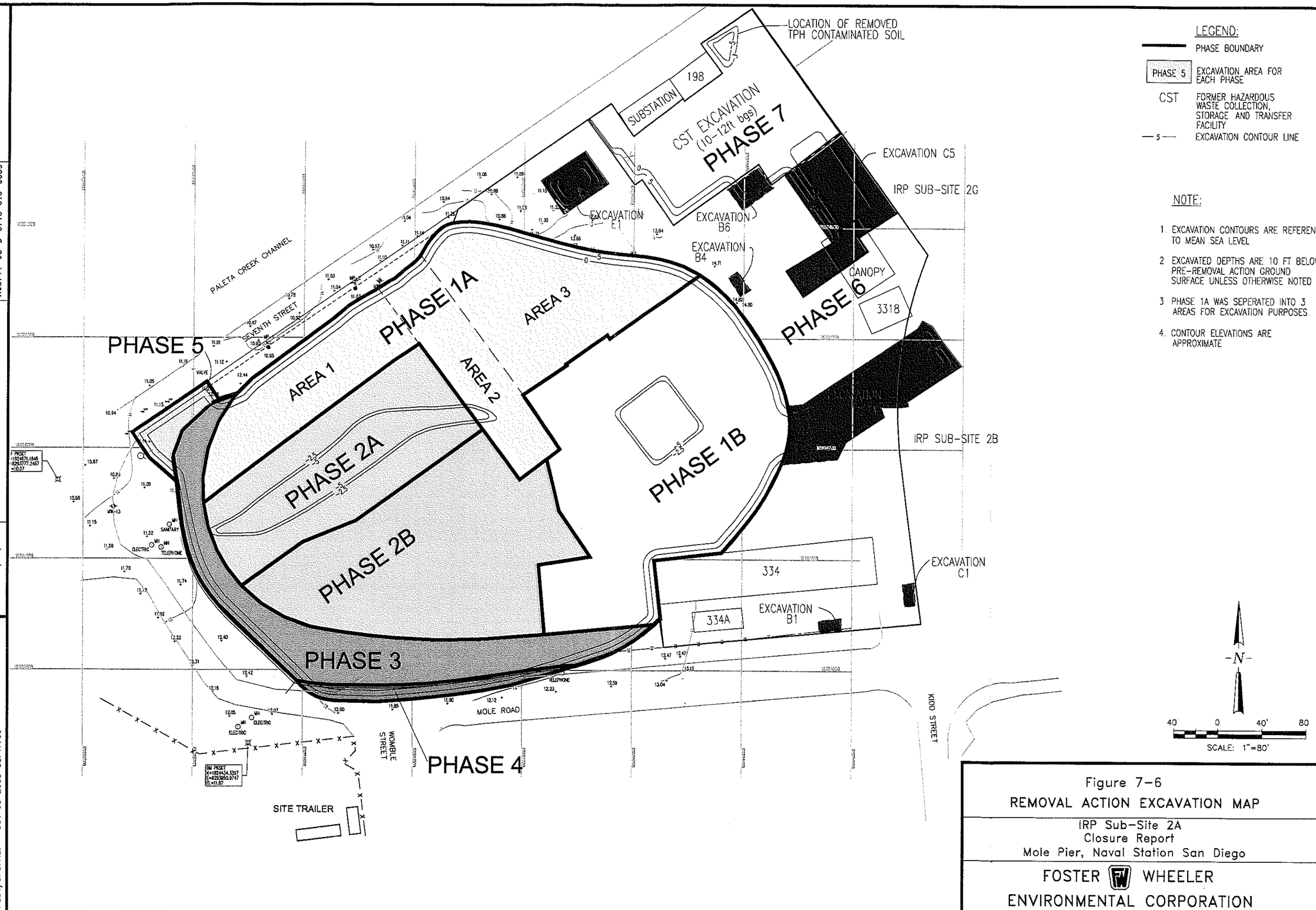

Figure 7-6
REMOVAL ACTION EXCAVATION MAP

IRP Sub-Site 2A
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was cleaned by Ocean Blue Contractors. Jenal Engineering removed the UST on February 14, 2000. Figure 7-5 shows the location of the former UST.

Between February 8, and 17, 2000, soil samples were collected to evaluate the progress of the removal action. The Phase 1A excavation was completed to 5 feet bgs by March 8, 2000. Excavation resumed on April 4, 2000, after results from the progress sampling indicated that COCs were still present in the subsurface at concentrations exceeding the target cleanup levels. During the in situ radiological survey in Area 2, soil with an elevated radiation reading was identified. The following day, New World Technologies sampled the soil with the elevated radiation readings. The impacted soil subsequently was excavated and stockpiled separately pending laboratory analysis.

The settling basin at Building 3224 was removed on March 14, 2000. While excavating on April 5, 2000, Point Source 1 was located at a depth of 7 feet bgs. On May 11, 2000, four compressed air cylinders were encountered during excavation. The cylinders were disposed of by Critical Clean on August 1, 2000.

On May 18, 2000, Point Source 2 was identified during the second radiation survey at the stockpile area. Excavation of soil from beneath the main electrical duct bank was excavated, and the steam line was encapsulated on June 5, 2000. Utility support began on June 12, 2000, and a new 25-foot grid was established on June 28, 2000.

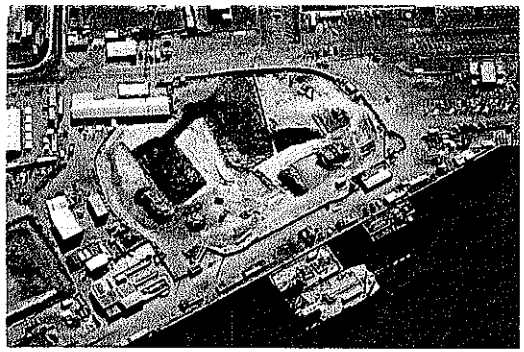
Point Source 4 was identified at 6 feet bgs on July 10, 2000. The steam pipe encapsulation was completed on August 1, 2000, by Critical Clean. All excavation activities in Phase 1A were completed on September 11, 2000.

Phase 1A activities included the removal of approximately 18,398 bank cubic yards (bcy) (27,597 tons) of impacted soil from an area north of former Buildings 3190, 3373, and 3224. Three point sources were identified in Phase 1A. A total of 1,268 tons of low-level radioactive soil were removed from an area at the northwest corner of former Building 3224. Utilities, including steam, electricity/telephone, compressed air, sewer, and water, were temporarily rerouted, abandoned, or replaced during the removal action. In addition, approximately 80 linear feet of light rail tracks and concrete support pilings beneath the tracks were removed.

Backfilling with ballast material at Phase 1A began on May 5, 2000. Backfilling with FS-15 material was started on June 30, 2000. Eight confirmation sampling events were performed during Phase 1A: May 22, 2000; June 6, 12, 13, and 14, 2000; July 11, 2000; September 14, 2000; and March 27, 2001.

Phase 1A site restoration activities were performed concurrently with Phases 1 through 5 between April 3, 2001, and September 11, 2001. Restoration activities included the asphalt paving of an 110,000 square foot parking area surrounded by recreational lawn area. Figure 7-7

Sequence of Aerial Photographs for NTCRA



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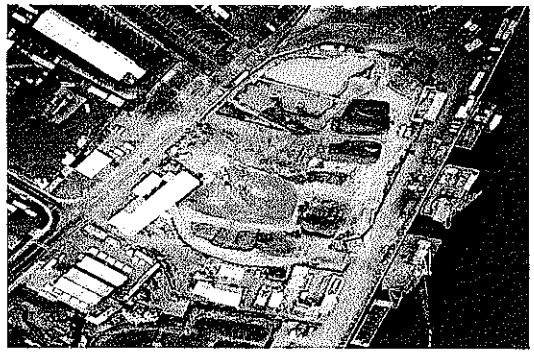

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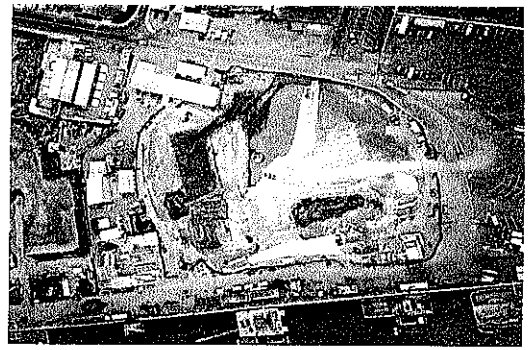

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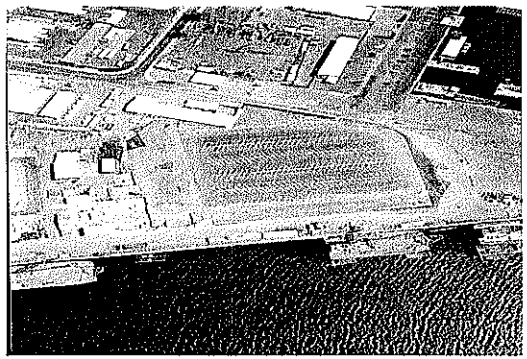

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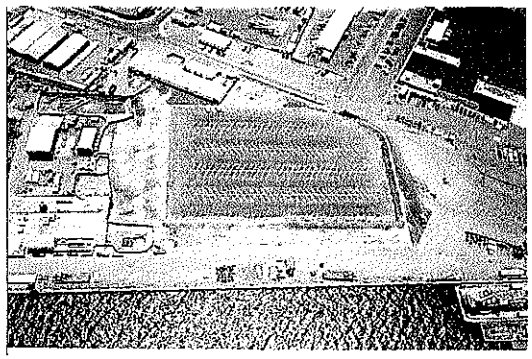

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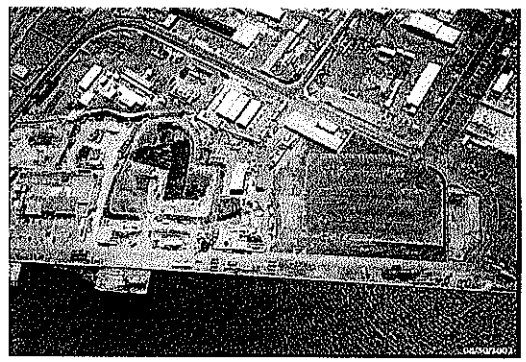

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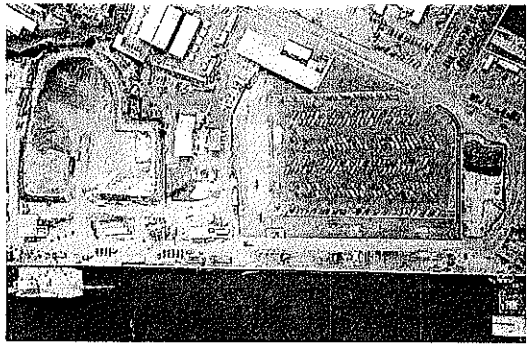
Figure 7-7

Sequence of Aerial Photographs for NTCRA



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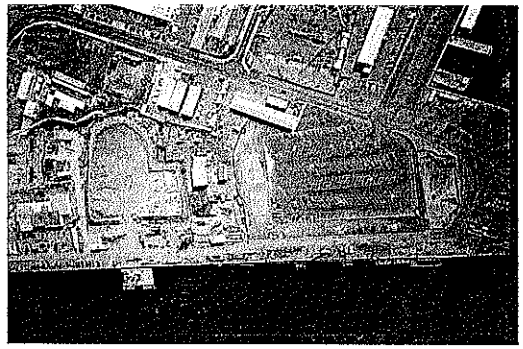

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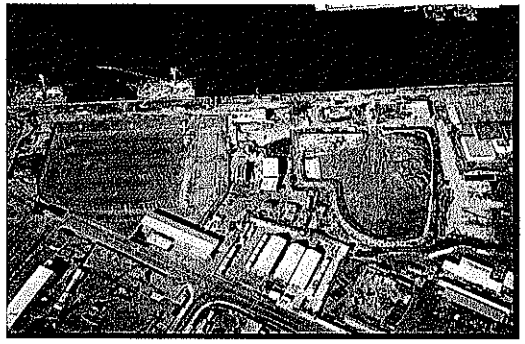

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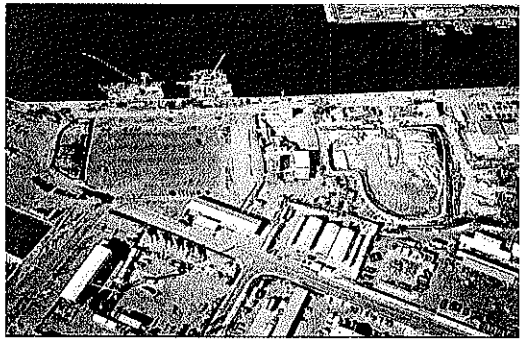

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Figure 7-7

shows the sequence of aerial photographs taken during the removal action. Figure 7-8 is an aerial photograph from November 2000 after Phase 1A backfilling activities were completed.

7.2.4 Phase 1B – Southern Excavation Area

Phase 1B activities were performed between June 20, 2000, and September 11, 2001. Prior to excavation, the asphalt and concrete were removed from Phase 1B, and an in situ radiation survey was completed on the exposed soil. The liquid and solid contents of the Building 3224 hoppers were sampled on June 20, 2001.

The excavation of Phase 1B was performed between July 11, 2000, and March 27, 2001. On July 20, 2000, Point Source 6 was identified at a depth of 4 feet bgs and on July 24, 2000, the seventh point source was identified in the stockpiled soil. The filter system for Building 3225 was removed on September 13, 2001. PWC coated the interior of Building 3225 on September 20, 2000, and completed its demolition on September 21, 2000. PWC demolished the Building 334 rest room on September 28, 2000. On October 4, 2000, PWC removed hoppers from the east end of Building 3224 and demolished the office portion of this structure on October 6, 2000. FWENC completed the removal of sandblast grit from Building 3224 on October 12, 2000. On October 18, 2000, PWC completed the demolition of Building 3224.

On November 16, 2000, Point Source 9 was identified in the stockpiled soil and work began on encapsulating the steam line. PWC began excavating under the east/west electrical duct bank on March 6, 2001. On March 21, 2000, PWC removed a septic system from behind Building 334. Excavation activities in Phase 1B were completed on March 27, 2001.

Backfill and compaction were performed between August 8, 2000, and April 9, 2001. Seven confirmation sampling events were performed during the Phase 1B excavation activities: August 3 and 8, 2000; September 14, 2000; December 6, 2000; February 22, 2001; and March 8 and 27, 2001.

Phase 1B activities included the removal of approximately 18,000 bcy (27,000 tons) of impacted soil from the area including former Buildings 3225 and 3224. Three point sources were identified in Phase 1B. Utilities including electricity/telephone, sewer, and water were temporarily supported rerouted, abandoned, or replaced during the removal action.

Phase 1B site restoration was completed concurrently with Phases 1 through 5 between April 3, 2001, and September 11, 2001. Asphalt paving of a 110,000 square foot parking area was performed by PWC. FWENC placed approximately 65,000 square feet of sod surrounding the parking area. Figure 7-8 is an aerial photograph from November 2000, and Figure 7-9 is an aerial photograph from January 2001 when Phase 1B activities were in progress.

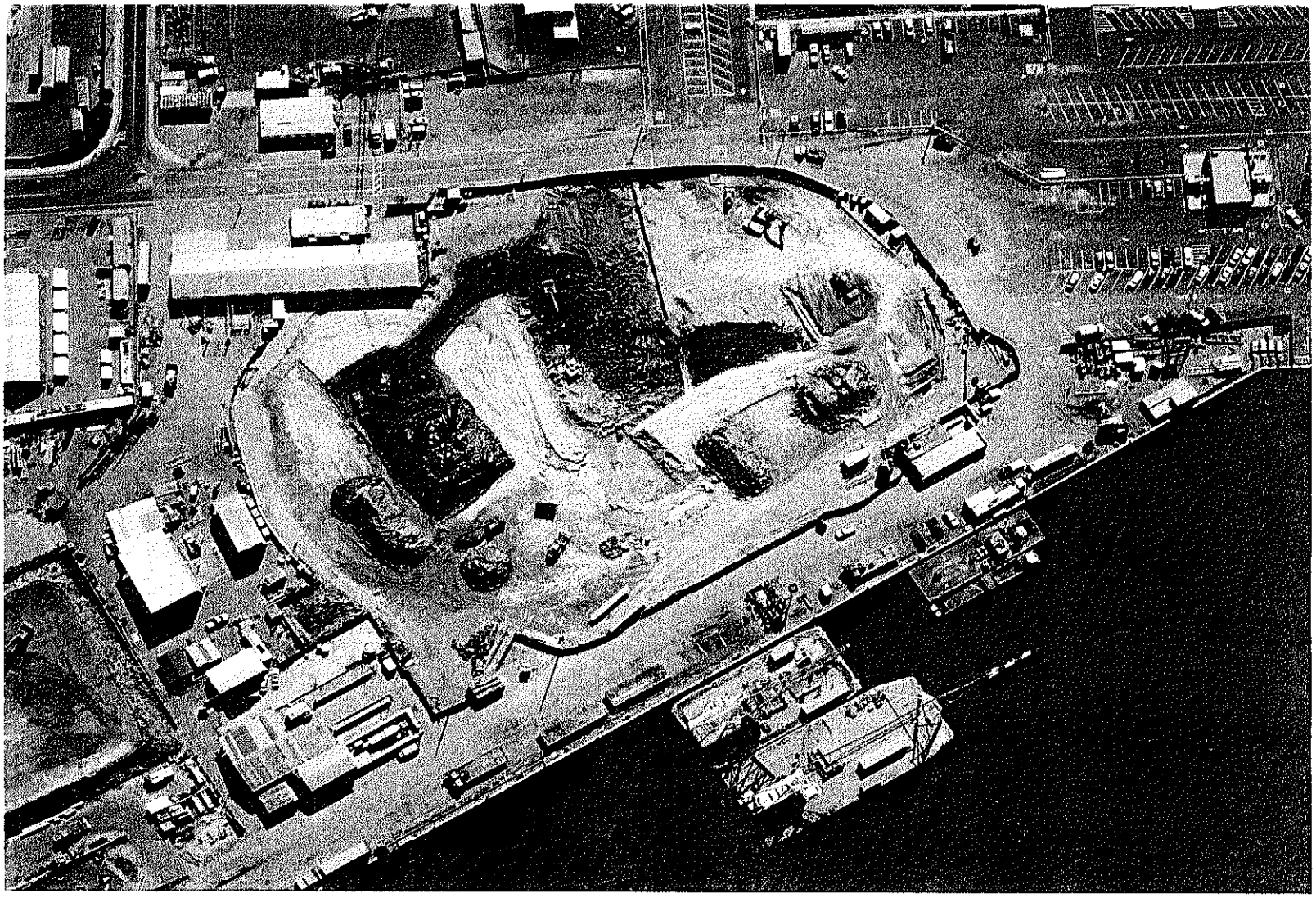

FIGURE 7-8, AERIAL PHOTO NOVEMBER 2000. Phase 2B.
PWC excavation of Area 2B, Phase 3 area. Stockpile is located in Area 1B.
PWC is backfilling Area 2B and Phase 3 area.
FWENC shipping soil off site.Three soil stockpiles, one concrete/asphalt stockpile.

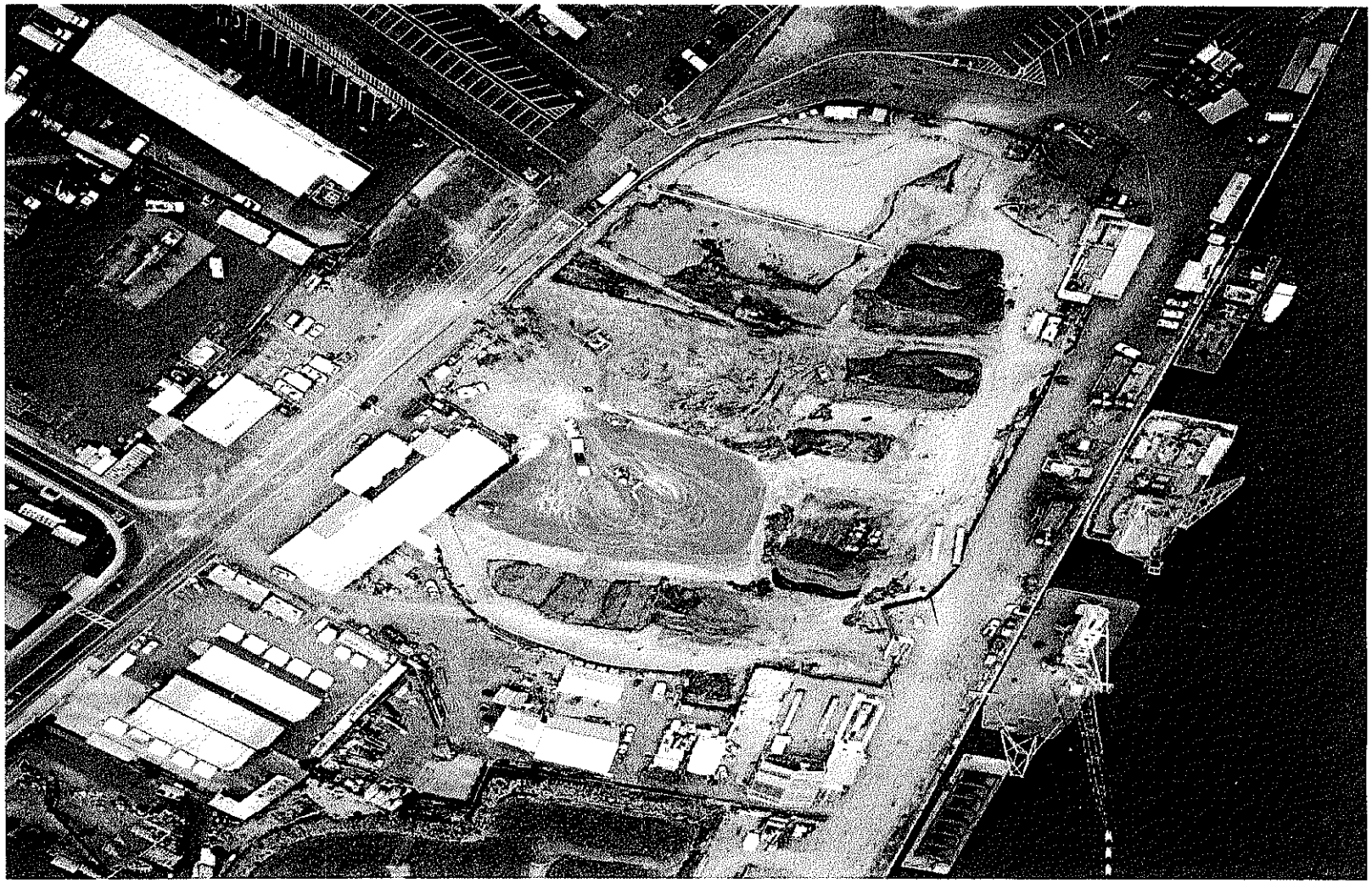

FIGURE 7-9, AERIAL PHOTO JANUARY 2001. Phases 1B and 2B.
PWC is backfilling and compacting Area 1B with FS-15. PWC is backfilling Area 2B with ballast rock. PWC is excavating in Areas 5 and 2B.
FWENC is shipping soil stockpiled in Area 1A.

7.2.5 Phase 2A – Northern Excavation Area

Phase 2A activities were performed between June 15, 2000, and September 11, 2001. Excavation was performed between June 19, 2000, and January 22 2001. PWC began demolition of the asphalt and concrete in Phase 2A on June 15, 2000, and started excavating the first 2-foot lift on June 19, 2000. A 40-gallon aboveground storage tank (AST) was discovered in the soil at the Phase 2A stockpile area. The tank was emptied and was recycled with other metal following decontamination. While excavating on June 22, 2000, Point Source 3 was identified at 6 feet bgs. In addition, Point Sources 5 and 8 were identified on July 13, and July 26, 2000, respectively. Point Source 5 was located at 2 feet bgs and Point Source 8 was located in the Phase 2A soil stockpile.

Tri-County Drilling performed direct-push soil borings in Phase 2A on August 9, 2000, to delineate the extent of the total petroleum hydrocarbons (TPH) contaminated soil based on soil sample analysis. On August 10, 2000, free product was observed and skimmed from the groundwater surface. The results of the TPH delineation sample results were received on August 23, 2000, and the impacted area was excavated to a depth 15 feet bgs. Excavation of Phase 2A was completed on January 22, 2001.

Backfilling of Phase 2A with ballast commenced on August 8, 2000, and continued to April 9, 2001. Two confirmation sampling events were performed during Phase 2A: June 6, 2001, and August 3, 2000.

Phase 2A excavation activities included the removal of approximately 8,000 bcy (12,000 tons) of impacted soil from the area including former Buildings 3190, 3373, and 3372. Two point sources were identified in Phase 2A. Utilities including steam, propane gas, electricity/telephone, sewer, and water were temporarily supported, rerouted, abandoned, or replaced during the NTCRA. In addition, approximately 80 linear feet of light rail tracks and concrete support pilings beneath the tracks from within and on the south side of Building 3224 were removed.

Temporary Well Installation for TPH Delineation

During the excavation activities, temporary wells were installed near the former burn pit to determine if free product was present on groundwater. Soil samples were collected in soil borings from below the water table in the former burn area to assess the vertical extent of contamination. Figure 7-10 presents the location of each of the temporary wells and borings associated with the TPH delineation activities. Because the excavation depths in this area were below the elevation of the bottom of the screen, the temporary wells were not abandoned but removed during excavation activities.

Phase 2A site restoration was performed concurrently with Phases 1 through 5 between April 3, 2001, and September 11, 2001. Asphalt paving of a 110,000-square foot parking area was

performed by PWC. FWENC placed approximately 65,000 square feet of sod surrounding the parking area. Figure 7-11 is an aerial photograph from March 2001 when Phase 2A activities were in progress.

7.2.6 Phase 2B – Southern Excavation Area

Phase 2B activities were performed by FWENC between October 17, 2000, and September 11, 2001. Excavation was completed between October 8, 2000, and February 9, 2001. On September 12, 2000, a 4-foot concrete slab was removed west of Building 3224. PWC completed the demolition of the Building 3224 sandblast booth. On December 8, 2000, Critical Clean encapsulated the steam line. PWC commenced excavation of the 4-foot lift on December 14, 2000, and completed excavation on February 9, 2001. No point sources were identified in Phase 2B.

Phase 2B activities included the removal of approximately 14,560 bcy (21,840 tons) of impacted soil from the area including former Buildings 3381, 3189, 3188, 3319, and the northeast corner of former Building 3211. The suspect location for the former burn pit was located in Phase 2B. Utilities including steam, propane gas, electricity/telephone, cable television, and compressed air were temporarily supported, rerouted, abandoned, or replaced during the NTCRA.

Backfilling Phase 2B with ballast commenced on December 21, 2000, and continued until April 9, 2001. Three confirmation sampling events were performed during Phase 2B: December 17, 2000, February 22, 2001, and March 1, 2001.

Phase 2B site restoration was performed concurrently with Phases 1 through 5 between April 3, 2001, and September 11, 2001. Asphalt paving of a 110,000 square foot parking area was performed by PWC. FWENC placed approximately 65,000 square feet of sod surrounding the parking area. Figure 7-11 is an aerial photograph from March 2001 when Phase 2B activities were in progress.

7.2.7 Phase 3

Phase 3 activities were performed by PWC between November 27, 2000, and September 11, 2001. Excavation was completed between November 28, 2000, and March 27, 2001. The asphalt was removed on November 27, 2000, prior to excavation. Point Sources 24 and 25 were identified at 3 feet bgs on December 6, 2000. On December 18, 2000, Point Source 30 was identified at 2 feet bgs and Monitoring Wells MW-10 and TW-1 were abandoned.

Phase 3 excavation activities included the removal of approximately 7,307 bcy (10,960 tons) of impacted soil from the area including former Building 3211. Three point sources were identified in Phase 3

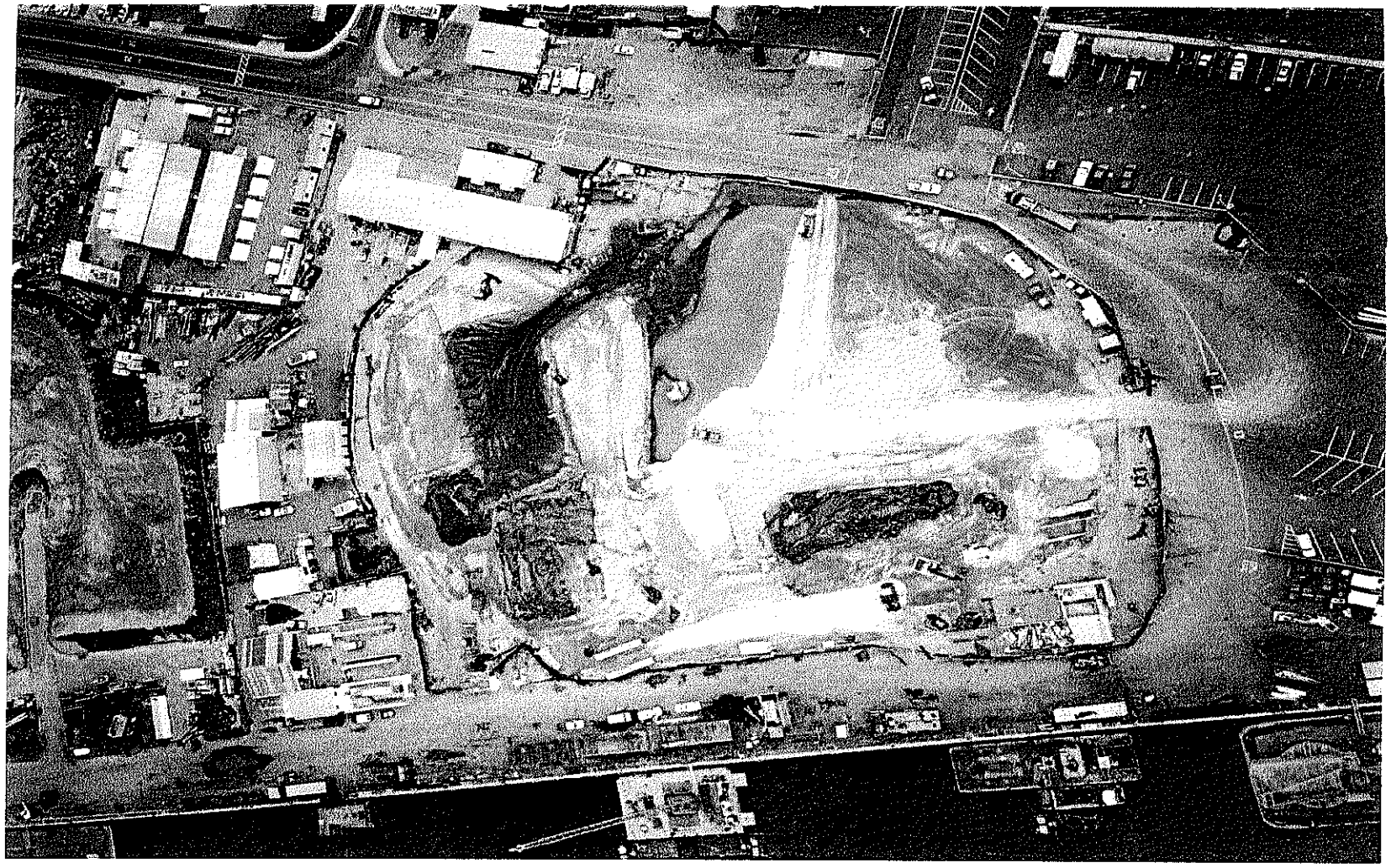

FIGURE 7-11, AERIAL PHOTO MARCH 2001. Phases 2A and 2B.
PWC is backfilling Area 2B with ballast rock.
Demolition of Building 199.
FWENC is shipping soil stockpiled in Area 1A off site.

Utilities including steam, propane gas, electricity/telephone, cable television, and compressed air were temporarily supported, rerouted, abandoned, or replaced during the removal action.

Backfilling in Phase 3 with ballast commenced on January 9, 2001, and continued until April 9, 2001. Six confirmation sampling events were performed during Phase 3: December 7, 2000; January 31, 2001; February 22, 2001; and March 8, 12, and 27, 2001.

Phase 3 restoration activities were performed concurrently with Phases 1 to 5 between April 3, 2001, and September 11, 2001. Restoration activities included the asphalt paving of an 110,000-square foot parking area surrounded by recreational lawn area. Figure 7-11 is an aerial photograph from March 2001 when Phase 3 activities were in progress.

7.2.8 Phase 4

Phase 4 activities were performed by PWC between November 27, 2000, and September 11, 2001. Excavation was performed between November 28, 2000, and March 27, 2001. The asphalt in Phase 4 was removed on November 27, 2000, prior to excavation. While excavating on November 28, 2000, Point Source 10 was identified at a depth of 2 feet bgs. On December 5, 2000, Point Sources 11 to 18 were identified at a depth of 4 feet bgs. On December 6, 2000, Point Sources 19 to 23 were identified at a depth of 3 feet bgs, and on December 11, 2000, Point Source 26 was identified at a depth of 4 feet bgs. Excavation continued and on December 13, 2000, Point Sources 27 to 29 were identified at a depth of 6 feet bgs. Excavation activities were concluded on March 27, 2001.

Phase 4 activities included the removal of approximately 1,120 bcy (1,680 tons) of impacted soil from the area south of former Building 3211. Eighteen point sources were identified in Phase 4. Utilities including steam and telephone were temporarily supported, rerouted, abandoned, or replaced during the removal action.

Backfilling in Phase 4 with ballast commenced on January 9, 2001, and continued until April 9, 2001. Backfilling operations were conducted by PWC. Two confirmation sampling events were performed during Phase 4: January 9, 2001, and March 12, 2001.

Phase 4 site restoration activities were performed concurrently with Phases 1 through 5 between April 3, 2001, and September 11, 2001. Asphalt paving of a 110,000-square foot parking area was performed by PWC. FWENC placed approximately 65,000 square feet of sod surrounding the parking area. Figure 7-11 is an aerial photograph from March 2001 when Phase 4 activities were in progress.

7.2.9 Phase 5

Phase 5 activities were performed between November 7, 2000, and September 11, 2001. Excavation was performed by PWC between January 16, 2001, and March 12, 2001. Concrete

core samples were collected through the stained transformer pad at Building 199 on November 7, 2001. PWC completed the demolition of Building 199 on March 6, 2001, and finished the excavation of soil beneath the former Building 199 foundation on March 12, 2001. No point sources were identified during the Phase 5 excavation activities.

Phase 5 excavation activities included the removal of approximately 800 bcy (1,200 tons) of impacted soil from the area including former Building 199. Utilities, including compressed air and water, were temporarily supported, rerouted, abandoned, or replaced during the removal action.

Backfilling in Phase 5 with ballast commenced on March 14, 2001, and continued until April 9, 2001. Two confirmation sampling events were completed during Phase 4: January 31, 2001, and March 12, 2001.

Phase 5 restoration activities were performed concurrently with Phases 1 through 5 between April 3, 2001, and September 11, 2001. Asphalt paving of a 110,000-square foot parking area was performed by PWC. FWENC placed approximately 65,000 square feet of sod surrounding the parking area. Figure 7-11 is an aerial photograph from March 2001 when Phase 5 activities were in progress.

7.2.10 Phase 6

Phase 6 activities were performed by FWENC between June 11, 2001, and February 2003. The work was performed during a series of three events occurring between:

- June 11, 2001, and September 25, 2001
- November 28, 2001, and December 21, 2001
- April 30, 2002, and February 14, 2003

The initial event included the excavation of seven areas identified as Area B1, Area B2, Area B4, Area B6, Area C1, Area C5, and Area D4. Phase 6 excavation activities included the removal of approximately 7,236 bcy (10,854 tons) of impacted soil. Utilities including sewer and water were temporarily supported, rerouted, abandoned, or replaced during the removal action.

Area B1

Area B1 was excavated by FWENC on July 5, 2001. Confirmation soil samples were collected on July 24, 2001, and Area B1 was backfilled and compacted on August 20, 2001. Site restoration activities were completed on September 16, 2001, by FWENC.

Area B2

Area B2 was excavated by FWENC between June 28, 2001, and December 20, 2001. The eastern half of the excavation was in the vicinity of a former FWENC soil boring, D4. The Area B2 excavation was performed in three events. The first was completed on August 24, 2001, the second on September 21, 2001, and the third on December 27, 2001.

Confirmation soil samples were collected from Area B2 on July 19, 2001, October 1, 2001, and December 18, 2001.

Backfill and compaction activities were performed by FWENC between August 24, 2001 and December 31, 2001. Site restoration of Area B1 was completed by FWENC in January 2002.

Area B4

Area B4 was excavated by FWENC on July 9, 2001. Confirmation soil samples were collected on July 19, 2001, and the excavation was backfilled and compacted between August 27, 2001 and September 5, 2001. Site restoration activities were completed by FWENC on September 16, 2001.

Area B6

Area B6 was excavated by FWENC between August 27, 2002, and September 11, 2002. Confirmation samples were collected on January 13, 2003. Backfill and compaction were completed between September 11, 2002, and January 23, 2003. Site restoration was completed by FWENC in February 28, 2003.

Area C1

Area C1 was excavated by FWENC on July 5, 2001. Confirmation samples were collected on July 23, 2001, and the excavation was backfilled and compacted between July 24, 2001, and September 5, 2001. Site restoration was completed by FWENC on September 16, 2001.

Area C5

Area C5 was excavated by FWENC between July 18, 2001, and July 1, 2002. The excavation included the area beneath the welder's canopy, the area to the west of the canopy, and the area north of the canopy. Area C5 was over-excavated three times to the north and west after confirmation samples indicated that COCs remained in soils in concentrations above the target cleanup levels (TCLs).

The first over-excavation was completed on December 17, 2001, with the north and west sidewalls being excavated an additional 5 feet. The third and final over-excavation was completed between May 28, 2002, and July 1, 2002. As part of the third over-excavation, the

welder's canopy was shored using caissons under the northwest, northeast, and north-central supports.

During the Area C5 activities, FWENC removed and replaced a 30-foot by 45-foot concrete pad. Backfill of the Area C5 excavation was completed by FWENC in two events. The first (southern half) was performed between June 28, 2002, and July 12, 2002, and the second (as part of the Phase 7, CST work) was performed between November 8, 2002, and January 23, 2003.

Confirmation samples were collected during four sampling events: July 23, 2001, December 18, 2001, May 30, 2002, and June 27, 2002.

Site restoration was also performed during two events. The first included placement of asphalt over the southern portion of Area C5 on July 12, 2002, to facilitate use by the PWC weld/paint shop.

Area D4

Area D4 was excavated on July 6, 2001, as part of the B2 excavation (eastern half near Soil Boring D4). Confirmation samples were collected on July 19, 2002, and the excavation was backfilled and compacted by FWENC between August 23, 2001, and September 5, 2001. Site restoration activities were completed on September 16, 2001.

Area E1

Area E1 was excavated between June 25, 2001, and July 19, 2001. Confirmation samples were collected on July 19, 2001, and the excavation was backfilled and compacted between August 20, 2001, and September 5, 2001. Site restoration activities were completed on September 11, 2001.

Figures 7-12, 13, 14, and 15 are aerial photographs of Phase 6 between June 2001 and September 2002.

7.2.11 Phase 7 - Collection, Storage, and Transfer Facility

Phase 7 excavation activities were completed between August 30, 2002, and February 28, 2003. The removal action was performed in two parts to facilitate access by PWC weld/paint shop personnel for transportation of equipment between Seventh Street and the main shop area. Excavation of the eastern side of Phase 7 was completed by FWENC between September 5, 2002, and December 12, 2002, and the western side between January 7, 2003, and January 13, 2003. Prior to the commencement of field activities, PWC demolished Buildings 3275, 3318, and 3548 from within the CST area. Excavation started in the south-central area near Phase 6, Area B6 on September 5, 2002. The concrete building pads and asphalt support area were removed by

FIGURE 7-12, AERIAL PHOTO JUNE 2001. Phase 6.
PWC is grading the area and placing topsoil around the parking lot for landscaping.
They are also installing the irrigation system and seeding the area.

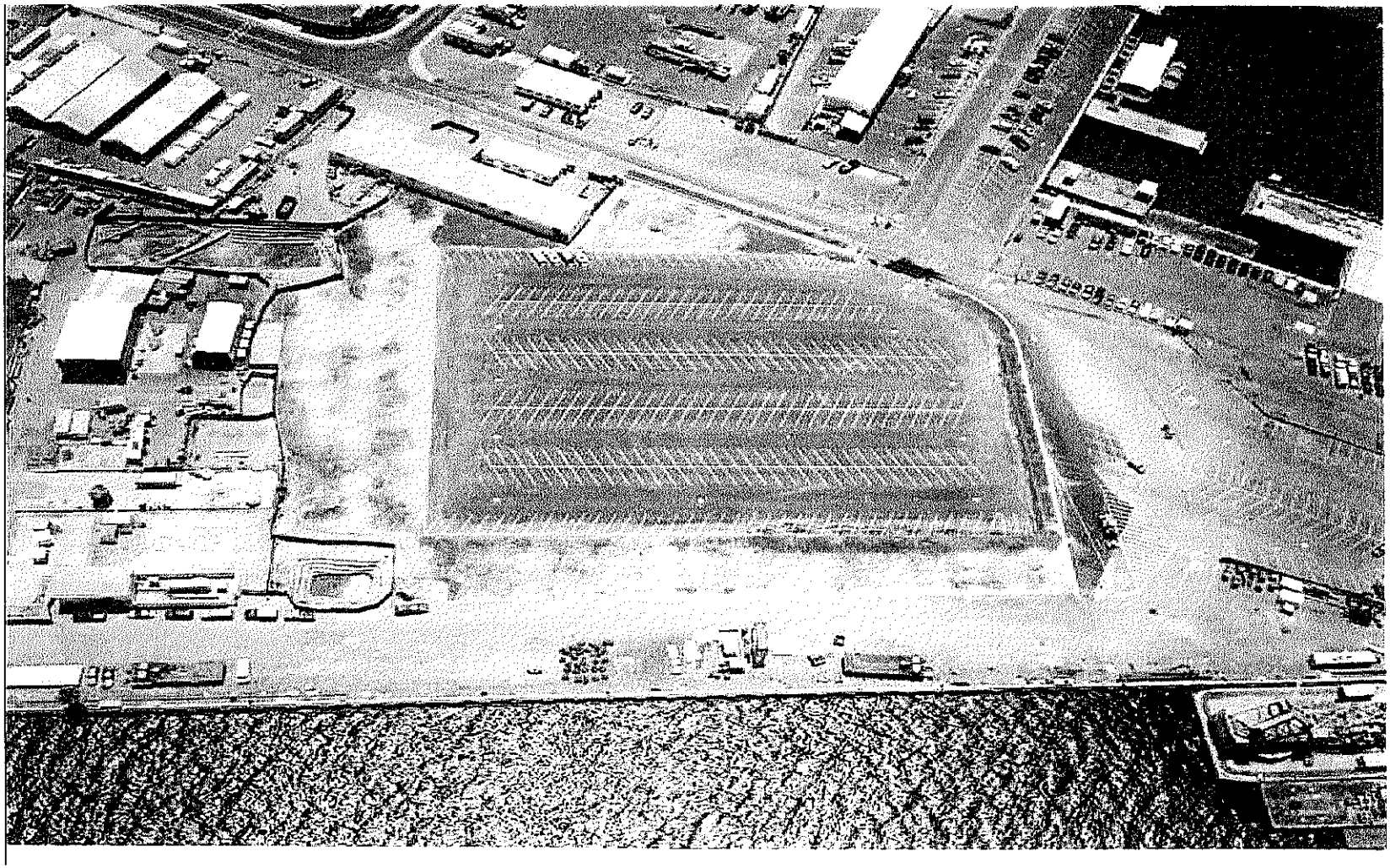

FIGURE 7-13, AERIAL PHOTO AUGUST 2001. Phase 6.
FWENC is excavating in Phase 6 area. At Mole Road and Building 334, Area B1 is ~ 10ft x 15ft. At Mole Road and the entrance to the welding yard, Area C1 is ~ 10ft x 15ft. North of Building 334 is Area B2; the largest of the excavations, it is ~ 60ft x 170ft. Northwest of the blast booth tent is Area B4; it is ~ 10ft x 15ft. The last visible excavation is Area E1. It is west of the power substation on Seventh Street and is ~ 25ft x 50ft.

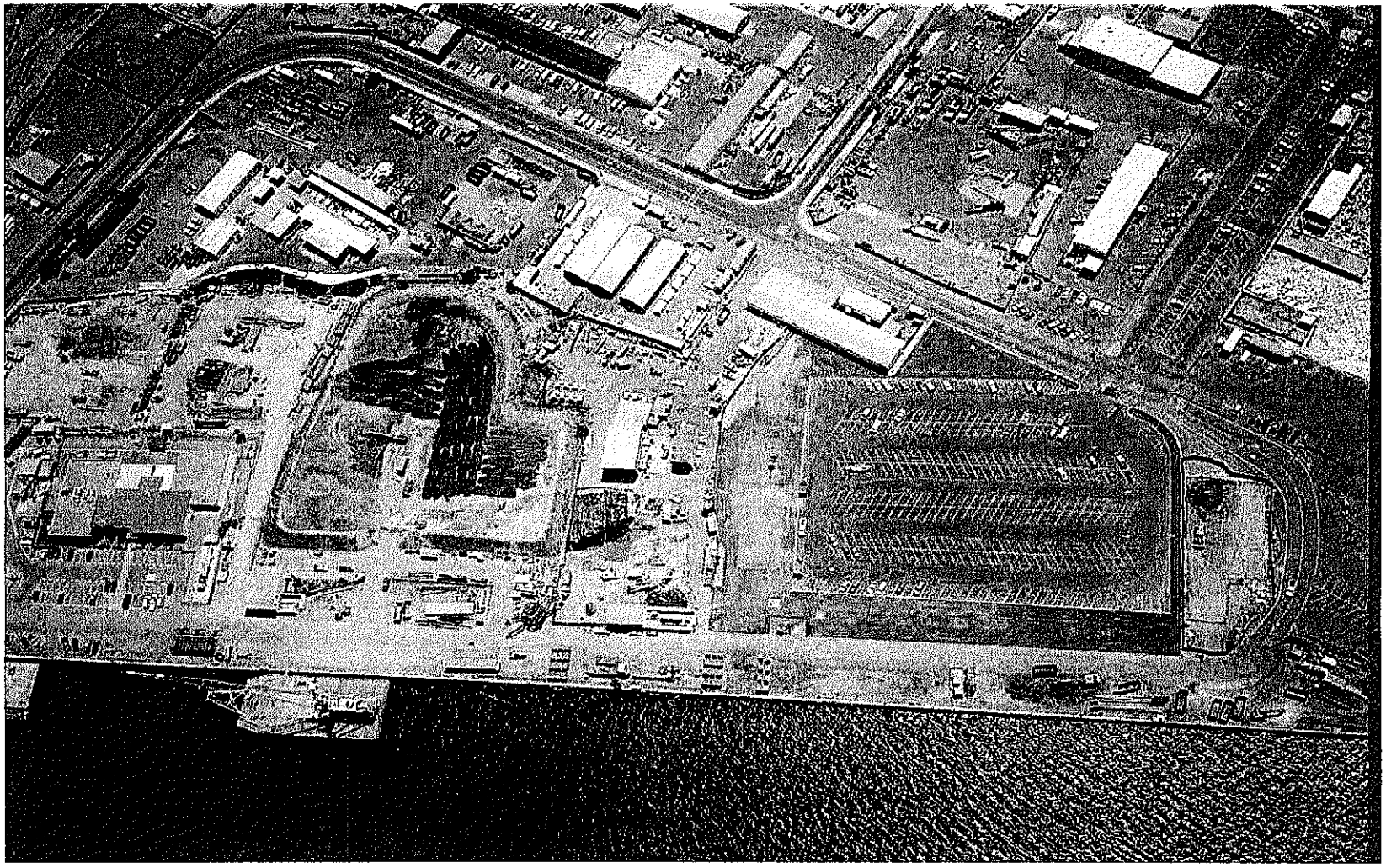

FIGURE 7-14, AERIAL PHOTO AUGUST 2002. Phase 6.
FWENC excavation in the CST yard, northeast of the blast booth tent.
FWENC stockpile is located on the west side of the parking lot.

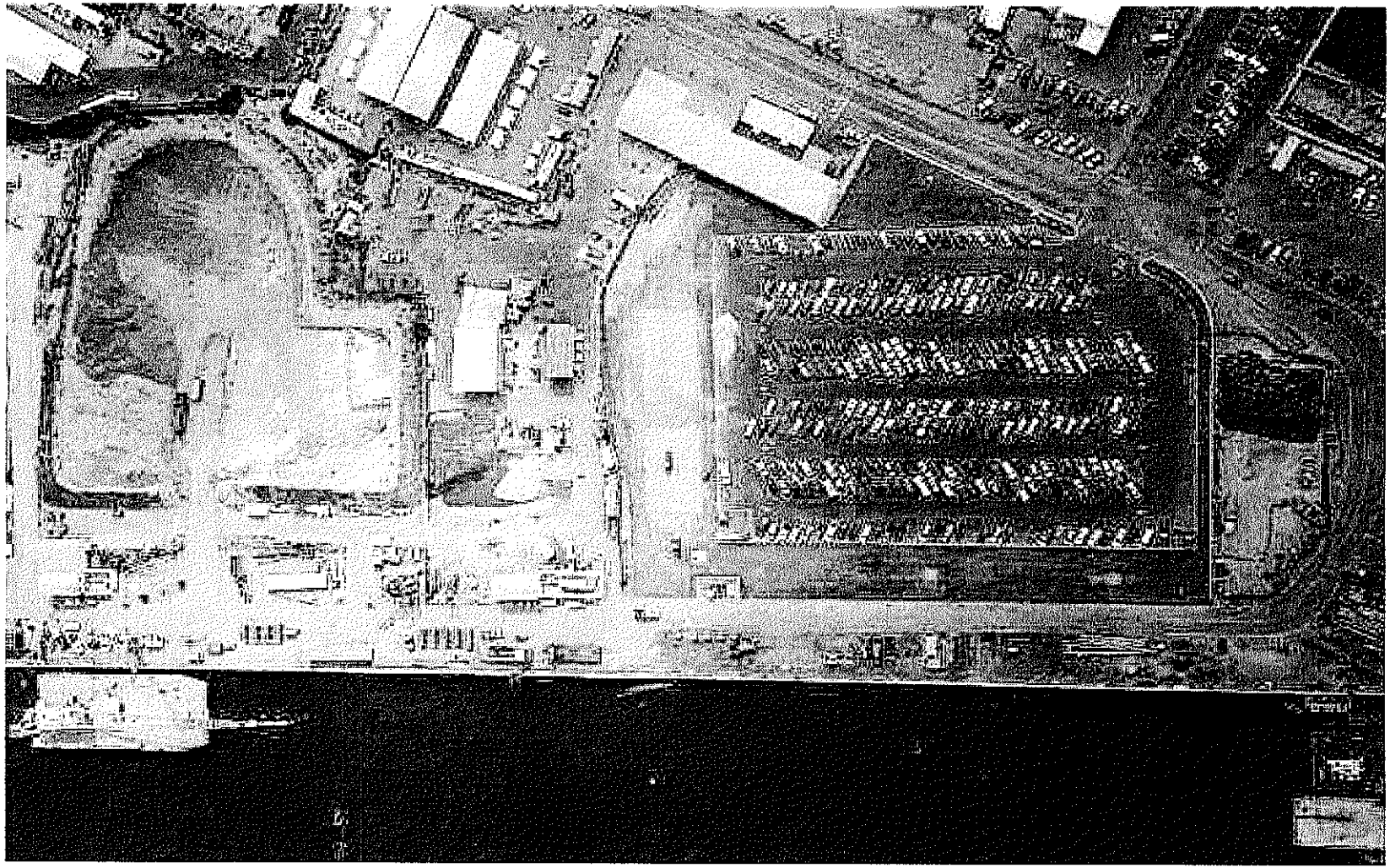

FIGURE 7-15, AERIAL PHOTO SEPTEMBER 2002. Phase 6.
FWENC is excavating in the CST yard, northwest of the blast booth tent.
FWENC is continuing to stockpile soil on the west side of the parking lot.

FWENC. The initial work also involved preparation for the demolition of Building 3252 and shoring of Building 198 and the electrical substation.

The sewer line for Building 3252 was cut and capped on September 25, 2002. The asbestos-wrapped steam line was abated the following day. Between September 19, 2002, and October 1, 2002, the utilities immediately adjacent to Building 198 and the substation were exposed. The utility locations were then incorporated into the final shoring design. Utilities were encountered that were not identified on any PWC utility map or identified by the geophysical survey. Each of the utilities were hand-excavated until the source, identity, and destination were identified.

Shoring began on October 1, 2002, using caissons and wood lagging. The shoring was completed in 3-foot increments progressing downward to 10 feet bgs. During the excavation and shoring of Building 198, an area of TPH-impacted soil was discovered near the northeast corner of Building 198 (see Figure 7-6 for location). The area was delineated on November 6, 2002, the soil was removed on December 2, 2002, and soil was then separately stockpiled for profiling. Upon profile completion, the soil was disposed as Cal-Haz along with the other Cal-Haz soil. On November 13 and 14, Critical Clean encapsulated 60 feet of steam line near the western edge of the eastern excavation. While excavating southeast of Building 198 on November 22, 2002, a large 6-foot-high steam vault was encountered and was removed on December 3, 2002.

On December 9, 2002, the soil from a 25-foot square area surrounding former Boring A3 was removed and separately stockpiled pending profiling. This location had an isolated Aroclor 1242 hit of 73.3 mg/kg during the site investigation. Upon profile completion, the soil was disposed of as Cal-Haz.

On December 11, 2002, 90 feet of sewer line east of the manhole in the center of Phase 7 were flushed and replaced. On December 12, 2002, 100 feet of steam line were encapsulated in the eastern half of the site.

Former Building 3252 served as a shower/decontamination facility for the paint/weld shop personnel prior to its demolition. Renovation of an existing facility began on December 12, 2002, inside Building 198. In the interim, a portable shower and bathroom facility were brought to the site.

On December 13, 2002, prior to backfilling of the utilities, all active utilities were surveyed by FWENC for elevation.

Excavation of the western side of Phase 7 commenced on January 7, 2003. FWENC completed excavation activities on January 13, 2003. Excavation of the northwest corner Phase 7 was conducted by PWC between January 25, and 30, 2003.

Prior to excavating the northwest corner of Phase 7, PWC installed temporary power stations to run the substation while they completed their removal. These stations were installed on January 24, 2003. PWC used a slide rail shoring system for the western side of the substation and Seventh Street, with installation occurring on January 27, 2003. The Phase 7 excavation boundaries were surveyed on January 24, and February 4, 2003.

Backfill and compaction of the eastern side of the excavation were conducted by FWENC between November 8, 2002, and January 23, 2003. Backfill and compaction of the western side were conducted by FWENC between January 14, and 23, 2003. Additional backfill and compaction of the western side were conducted by PWC between February 3, and 14, 2003. PWC completed site restoration activities between February 14, and 28, 2003.

Phase 7 excavation activities included the former CST area. Approximately 6,893 bcy were removed (10,339 tons) from one excavation including beneath former Building 3252. Utilities included compressed air, steam, water, sewer, electricity, and telephone.

Confirmation soil sampling was completed in seven events: September 18, 2002; December 9, 2002; January 3, 6, 16, 26, and 30, 2003.

Figures 7-16, 17, 18, and 19 show aerial photographs of Phase 7 between October 2002 and January 2003.

7.2.12 Demobilization

Four demobilizations were performed during the NTCRA. The first demobilization was completed on April 20, 2001, at the completion of Phases 1 through 5. The second demobilization was completed on September 25, 2001, at the completion of the initial Phase 6 activities; the third demobilization was completed on December 31, 2001; and the fourth and final demobilization was completed in February 14, 2003, at the completion of Phase 7.

7.3 REMOVAL ACTION ACTIVITIES

Removal action activities for the NTCRA were completed between December 7, 1999, and February 28, 2003, and consisted of the following:

- Demolition activities
- Radiation survey
- Excavation activities
- Shoring
- Temporary well installation for TPH delineation
- Stockpile management

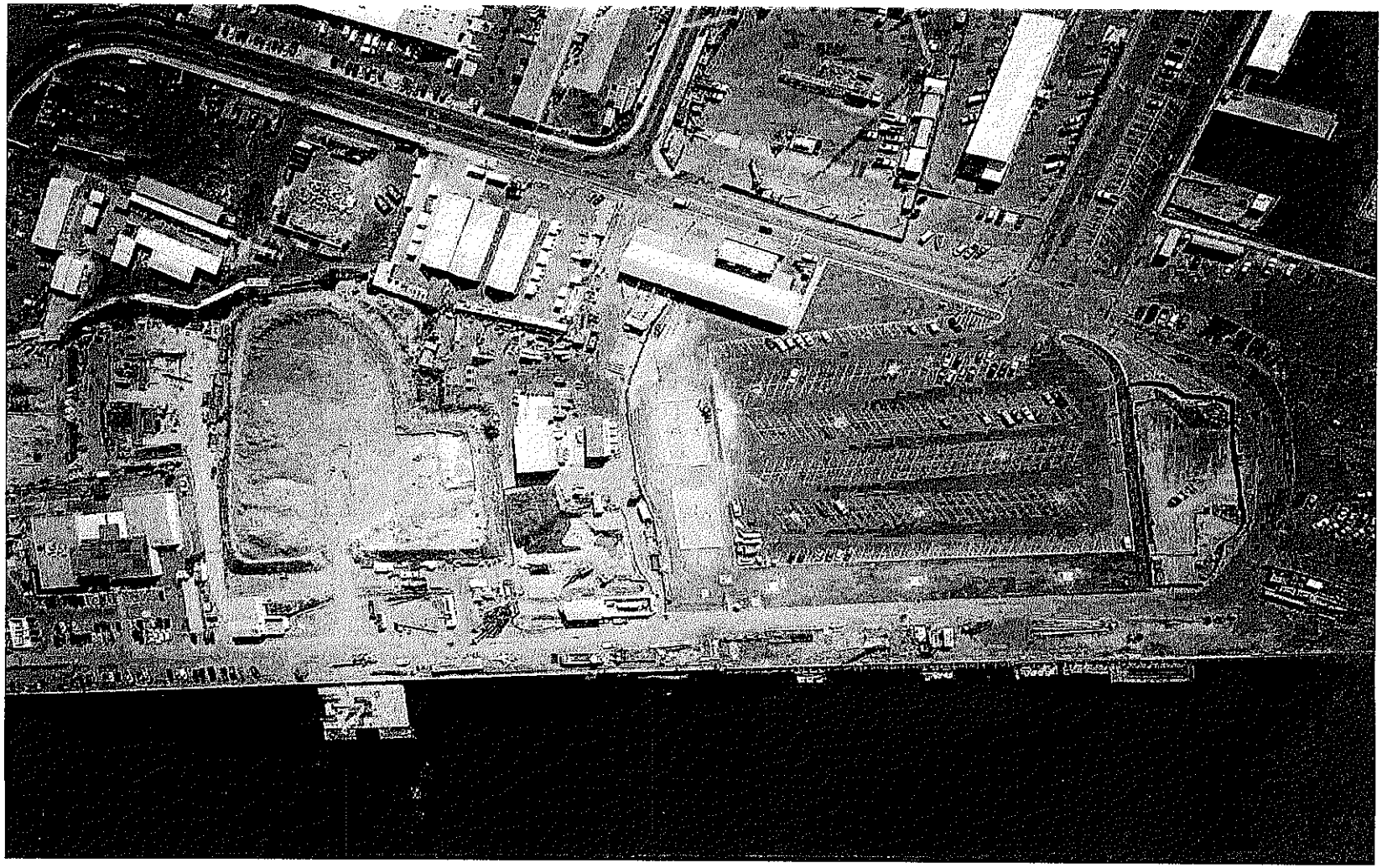

FIGURE 7-16, AERIAL PHOTO OCTOBER 2002. Phase 7.
FWENC has placed shoring along Seventh Street, behind Building 198, and along the power substation. Backfilling with ballast rock and excavating around exposed steam line, setting supports, and containing asbestos on steam line.
FWENC is shipping soil off site in the morning and street sweeping Seventh Street.

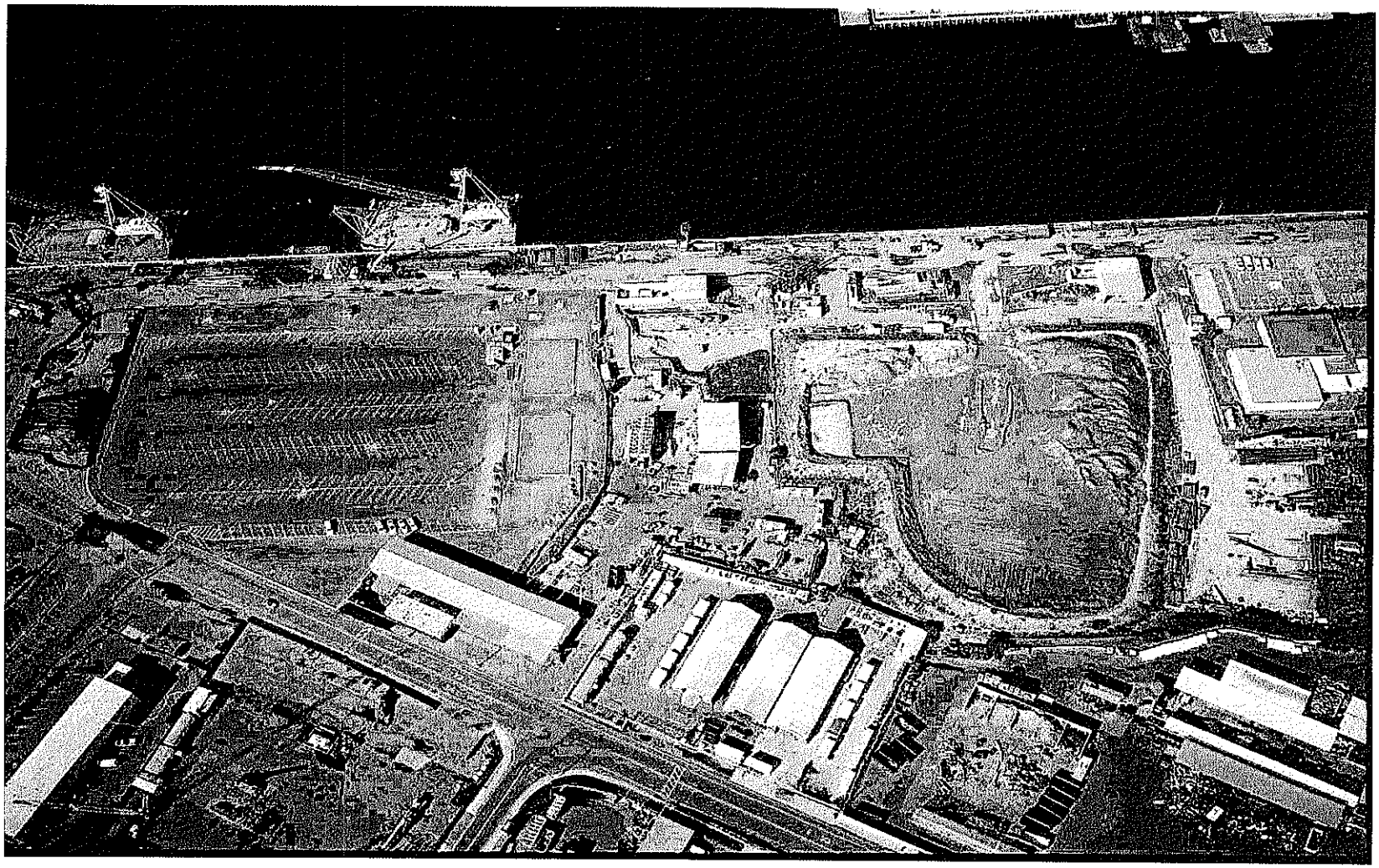

FIGURE 7-17, AERIAL PHOTO NOVEMBER 2002. Phase 7.
FWENC has replaced the sewer line and had the steam line wrapped to contain asbestos.
Backfilled with ballast rock. Stockpiled soil on the west side of the parking lot.

FIGURE 7-18, AERIAL PHOTO DECEMBER 2002. Phase 7.
FWENC has replaced the sewer line, wrapped the steam line, backfilled with ballast rock, and is placing FS-15 and compacting the soil.

FIGURE 7-19, AERIAL PHOTO JANUARY 2003. Phase 7.
FWENC has backfilled with FS-15, opened east side of site for welding shop access, and placed road base. Door was cut in back side of Building 198 for access to new dirty room and shower for PWC workers.
PWC is excavating the northwest corner of site at Seventh Street and the power substation.

- Utility reconstruction activities
- Backfill and compaction activities
- Restoration and redevelopment activities

There were several significant field changes to the RAIP (FWENC, 1999) initiated either by the DON or by the regulatory agencies. These field changes were implemented for one or more of the following reasons:

- Potential for low-level radioactive point sources;
- Increases in the lateral and/or vertical extent of the excavation of contaminated soils confirmed either by visual observation or by the results of the pre-construction, progress, or confirmation sampling analysis;
- Additional areas where contaminated soils were excavated because of additional site characterization sampling results (Phases 5, 6, and 7);
- To maximize the removal of contaminated soils within the project boundaries as well as to minimize any residual contaminated soil remaining in place above the 10 feet bgs level;
- Changes required to expedite field activities and minimize overall project costs; and,
- Following Phase 1A removal activities, all soil automatically was excavated to 10 feet bgs or groundwater, whichever was deeper.

The majority of these changes were documented through the use of the Field Change Request (FCR) process and were reviewed and approved by the DON. Increases in the quantity of soil to be excavated were documented through formal contract modifications between the DON and FWENC. A total of 18 FCRs were generated during this NTCRA. Various other changes were documented in the daily production reports and included the following:

- Insulation of 8-inch steam line to Building 199 followed by the removal of Building 199;
- Design of electrical lighting for the parking lot by FWENC with subsequent modification by PWC during installation;
- Grading plan designed by FWENC and subsequently modified by PWC during grading;
- Removal of propane tanks from IRP Sub-Site 2A by FWENC;
- Design of the containment system around Building 3224 and the installation of liner on the north side of the building prior to the demolition of the building;
- Excavation below the water table to remove TPH-d-impacted soil;
- Cal-Marine removal of approximately 30,000 gallons of water/oil from the water table for the DON;

- Demolition of Buildings 3224 and 3225 by PWC;
- Placement of structural fill where the dust collection system was to be installed east of Building 3224;
- Removal of sandblast grit from the floor of the sandblast facility;
- Removal of the spray paint booth from SWMU No. 6;
- Removal of the former rest room facility in Building 334 by PWC;
- Construction of a new rest room facility in Building 334 by FWENC;
- The addition of Phases 4 and 5 to the overall NTCRA;
- The removal of Building 199 by PWC;
- The removal and replacement of electrical duct banks by both FWENC and PWC;
- Construction of a rest room facility in Building 198; and
- An increase in depth in Phase 7 to 10 feet bgs or groundwater, whichever was deeper. The original scope of work (based on the results from the site assessment; FWENC, 2001) delineated excavation depths ranging from 3 feet, 7 feet, and 10 feet bgs.

A summary of these RAIP field changes is summarized in Table E-1. Appendix E, Field Change Requests, provides copies of the 18 FCRs for the NTCRA.

7.3.1 Demolition

Asphalt and concrete surfaces located within Phases 1 through 7 excavation boundaries (Figure 7-5) were removed for disposal prior to excavation of contaminated soil. Approximately 9,722 tons of pavement were removed, including 2,220 tons of asphalt and 7,502 tons of concrete. An excavator with a breaker, loader, and other required equipment were used to break up and remove the pavement and to load the debris into trucks for disposal. Asphalt and concrete debris were segregated and transported as non-hazardous waste to an off-site recycling facility.

The concrete pavement surrounding the former PWC welding/paint shop was made of 12-inch-thick concrete with steel reinforcement. An excavator equipped with a 10,000-pound hammer was used to break the slab into workable sections. These sections were then removed using the excavator with a thumb starting at a corner of the apron area to pull and break the slab. The concrete apron areas at the CDU were 4 inches thick and not reinforced. The concrete apron areas at the CST were up to 12 inches thick and were reinforced. Once removed, the concrete slab debris was stockpiled for recycling or disposal. A total of 7,502 tons of concrete (4,125 by FWENC and 3,377 by PWC) were removed and recycled at Ennis Landfill and Vulcan Materials, Carroll Canyon. The rebar was cut from the concrete and recycled with the other steel at the NAVSTA San Diego recycling center.

The asphalt pavement at IRP Sub-Site 2A was between 3 and 8 inches thick. The asphalt pavement was removed using a tracked excavator. The excavator, which was equipped with a thumb, started at the edge of the pavement and peeled the asphalt away from the aggregate base material. The asphalt was temporarily stockpiled on site and was broken up into 12 inches or less and transported off site to Ennis Landfill and Vulcan Materials, Carroll Canyon, for recycling. A total of 2,220 tons of asphalt (1,445 by FWENC and 775 by PWC) were removed and recycled.

The sections of rail tracks located at northwest and southeast of the former PWC welding/paint shop (Building 3224), which were within the excavation boundary, were removed. Approximately 200 linear feet of track and underlying concrete pilings were removed near the entrances and inside of the former PWC welding/paint shop and disposed of with the contaminated soil. The metal tracks were cut into manageable lengths and transported to a local scrap metal facility for recycling.

A portion of the existing structures supporting the PWC welding/paint shop was demolished for the NTCRA. The buildings that were demolished included Buildings 3224, 3224A, 3225, 199, 3253, 3226, 3252, and 204. These buildings were demolished by the PWC as tasked by the DON, except for Building 3252, which was demolished by FWENC as part of the former CST facility excavation activities. Figure 7-5 shows the location of the demolished buildings. The major construction features of the demolished buildings are summarized below:

- Building 3224 was a 4,650-square foot facility formerly used as the PWC welding/paint shop. The building was slab on pilings. Utilities to the building included electricity, water, sewer, propane, compressed air, and communication cabling.
- Building 3225 was a 5,555-square foot facility formerly used as a paint booth and for equipment storage. This building was slab on grade. Utilities to the building included electricity, water, propane, and communication cabling.
- Building 199 was a 1,116-square foot facility formerly used as the PWC CDU. This building was slab on grade. Utilities to the building included electricity, water, sewer, propane, and communication cabling.
- Building 3226 was an approximate 300-square foot shed used for storage of equipment and supplies.
- Building 3224A was an approximate 2,000-square foot facility used for storage of equipment and supplies.
- Building 3253 was an approximate 100-square foot building used to secure a pumping station.
- Building 204 was an approximate 300-square foot abandoned building used historically for storage.

- Building 3252 was an approximate 120-square foot building used as a rest room/ decontamination facility for the PWC welding/paint shop.

Demolition activities were performed in the same manner as described in Section 7.2.2 of this Closure Report.

7.3.2 Radiation Survey

The radiation survey was performed in a three-step survey process. For Phases 1 through 5, the three-step survey process occurred:

1. When in situ;
2. When placing soil at the stockpile; and
3. In 18-inch lifts prior to transport for disposal.

Prior to excavation in Phases 1 through 5, the in situ soil within the proposed excavation boundaries was surveyed using a Ludlum Model 2221 Scaler Radmeter. The surface area was surveyed into grids of 1 square meter. Each grid was surveyed with the radmeter, and the results documented. Each excavation was surveyed in 2-foot lifts prior to excavation, except at Phase 6 and Phase 7 locations where it was unsafe to enter the small excavations. This process continued to the bottom of the excavation. In the large excavations in Phases 1 through 5, the floor of the excavation was surveyed prior to backfilling with the exception being where the bottom of the excavation was below the groundwater table.

The three-step survey process for Phase 6 occurred:

1. When excavating the soil;
2. When placing the soil onto a liner adjacent to the excavation; and
3. In 18-inch lifts prior to pushing the soil in the soil stockpile.

The three-step survey process for Phase 7 occurred:

1. When placing soil at the stockpile;
2. In one 18-inch lift; and
3. In a second 18-inch lift after the first lift was overturned and prior to placing the lift into the stockpile.

7.3.3 Excavation

This section describes the procedures used during excavation of the contaminated soil. Excavation of contaminated soil began in January 2000 following site preparation, as described in the previous section. The excavation area extended to depths ranging from 5 feet to 15 feet bgs, depending on site conditions, and extended laterally as outlined in the RAIP (FWENC,

1999). The excavation was completed in seven phases, numbered 1 through 7. The final vertical and lateral extent of the excavation was refined from the proposed boundary based on pre-removal actions, confirmation soil sampling results, and additional characterization sampling results. The estimated quantity of soil excavated from each phase is presented in Table 7-4. Figure 7-6 shows the depth and sequence of excavation activities.

Phase 1 (1A and 1B) involved the removal of soil outside the CDU area to a depth of 5 feet bgs. The depth of the excavation was extended to 10 feet bgs based on the soil analytical results of the progress sampling. The horizontal boundaries were expanded based on the pre-construction sampling analytical results. The excavation of soil directly beneath Buildings 3224 and 3225 was not in the original scope of work, but was to be encapsulated using a 40-mil high-density polyethylene (HDPE) liner. However, the DON directed the PWC to remove this contaminated soil to eliminate a potential future source of contamination at the site. The proposed Phase 1A/1B excavation areas were estimated to be approximately 8,400 bcy and 19,700 bcy for Phase 2A and 2B. The actual quantity of soil removed was approximately 36,398 bcy for Phase 1 (1A and 1B) and 22,560 bcy for Phase 2 (2A and 2B). Because the EE/CA (BNI, 1999a) did not identify Phases 3, 4, 5, 6, and 7 as requiring excavation, estimates were established.

An excavator and a front-end loader were used to remove construction debris and contaminated soil from the excavation areas. Buried construction debris encountered during excavation was either placed in roll-off bins or placed on HDPE liner in the stockpile area and characterized pursuant to the FSP (FWENC, 1999), and disposed appropriately by NAVSTA San Diego. Material excavated from the Phase 1A/1B area was stockpiled in designated locations within the Phase 2A/2B area. Similar stockpile areas were designated during Phases 3, 4, and 5 in areas within Phases 1A/1B and 2A/2B. Table D-2 details the number of stockpile cells, the waste classification, and the date of disposal for each. When feasible, some of the remaining concrete pads of the demolished buildings were utilized for the temporary stockpiling of the excavated material. In areas where remaining concrete pads were not feasible, temporary stockpiles were either constructed on asphalt-paved areas or on the top of the clean backfill. Approximately 1-foot tall containment berms were constructed along the perimeter of the existing concrete pads with sandbags. The containment pads and berms that were constructed for either existing concrete pads or asphalt-paved areas were lined with a 20-mil liner for containment. In areas where stockpiles were constructed on clean backfill, the containment pads were lined with a 20-mil HDPE liner with 6- to 12-inches of clean fill material placed on top, with another layer of 10-mil HDPE. The purpose of these construction efforts was to ensure that contaminated soils did not come in contact with the clean backfill. In addition, the liner was tucked around the berms to prevent movement or dislodging. Ramps were constructed at several areas of the containment pads over the bermed areas, as required for loaders entering and exiting the stockpile area.

TABLE 7-4

EXCAVATED SOIL QUANTITIES BY PHASE

Phase	Type	Soil Quantities (cubic yards)	Soil Quantities (tons)
1	RCRA	945	1,418
	Cal-Haz	30,401	45,601
	Non-hazardous	4,207	6,310
	Low-level RAD	845	1,268
2	RCRA	0	0
	Cal-Haz	19,226	28,840
	Non-hazardous	3,334	5,000
	Low-level RAD	0	0
3	RCRA	0	0
	Cal-Haz	7,307	10,960
	Non-hazardous	0	0
	Low-level RAD	0	0
4	RCRA	0	0
	Cal-Haz	0	0
	Non-hazardous	1,120	1,680
	Low-level RAD	0	0
5	RCRA	0	0
	Cal-Haz	0	0
	Non-hazardous	800	1,200
	Low-level RAD	0	0
6	RCRA	0	0
	Cal-Haz	7,236	10,854
	Non-hazardous	0	0
	Low-level RAD	0	0
7	RCRA	0	0
	Cal-Haz	6,893	10,339
	Non-hazardous	0	0
	Low-level RAD	0	0
Total Soil		82,313	123,470

Notes:
Estimates based on average stockpile size
Cal-Haz - California hazardous
RAD - radiation
RCRA - Resource Conservation and Recovery Act

In areas where excavation exceeded 4 feet bgs or deeper, the cut areas were sloped at 1H:1V at a minimum (slope angle varied depending on field conditions) or benched. Depending upon the conditions encountered, the sloped sidewall was either smooth or stepped. Several sidewalls in the Area C5 and the former CST facility excavations (perimeter) were excavated with vertical sidewalls and immediately backfilled with ballast. Underground utilities identified within the excavation boundaries were braced and supported, or temporarily relocated, to accommodate the removal of the surrounding soil.

7.3.4 Shoring

The NTCRA required several types of shoring that were used for multiple tasks. These included the following:

- Piling and lagging and slide rail shoring systems were used to support Building 198, and the Seventh Street electrical substation to minimize the volume of soil left in place.
- Trench boxes were used for work areas with limited access. This included utility support and soil sampling.
- Wood was used to form areas for concrete and controlled density fill.
- Pipe supports were used to support steam, electrical, sewer, air, and water utilities.
- Controlled density fill was used to support the heavier utilities and those utilities where compaction could not be achieved with the rock and sand backfill material.

7.3.5 Utility Reconstruction

During the NTCRA, utilities including water, sewer, compressed air, communication cables, steam, and electricity were encountered that either required relocation, support, or abandonment. Once the excavation activities were completed, and prior to backfill and compaction, utilities were reconstructed, as necessary. Utilities encountered during the NTCRA are presented on Figure 7-1.

7.3.6 Backfill and Compaction

After confirmation sampling or a decision by the project team determined that further excavation was not required, a field survey was conducted to determine the final extent of the excavated area and the total amount of material removed. This information was used to determine the amount of backfill required to restore the area to its original grade. This section describes the material and backfill/compaction procedures for the NTCRA.

Structural Fill Material

The structural fill material consisted of 2.5-inch or less ballast free-draining base rock placed in the bottom 3 feet of the excavation. This material was placed within the excavation and spread out using a small dozer and was compacted in accordance with the DON's specification, 02200 Earthworks Specifications (Appendix M, Construction Specifications, of the RAIP; FWENC, 1999). In areas where the excavation depths were below groundwater, the base rock was placed from the bottom of the excavation to a minimum depth of 3 feet above the top of groundwater. Approximately 16,325 tons of ballast rock were placed and compacted in the excavations by FWENC in Phases 1A, 2A, 6, and 7, and approximately 16,329 tons were placed and compacted by PWC in Phases 1B, 2B, 3, 4, 5, and 7.

General Fill Material

The general fill material consisted of an FS-15 soil placed above the structural ballast rock to just below the surface of the excavation. This material was placed within the excavation in 6-inch to 8-inch lifts and spread out using a small dozer and was compacted in accordance with the DON's specification, 02200 Earthworks Specifications (Appendix M, Construction Specifications, of the RAIP; FWENC, 1999). Approximately 42,980 tons of FS-15 soil was placed and compacted in the excavations by FWENC in Phases 1A, 2A, 6, and 7, and approximately 70,978 tons were placed and compacted by PWC in Phases 1B, 2B, 3, 4, 5, and 7.

Backfill Placement and Compaction

The excavation area was backfilled using certified clean engineering fill material. FWENC was responsible for the placement, compaction, and testing of backfill in Phases 1A, 2A, 6, and 7. PWC was responsible for the placement, compaction, and testing of backfill in Phases 1B, 2B, 3, 4, and 5. The fill material was placed in the excavation area in 6-inch to 8-inch loose lifts. The backfill material was then compacted to at least 90 percent of the maximum dry density as measured by the modified Proctor test [American Society for Testing and Materials (ASTM) D 1557] (ASTM, 1992). A minimum of one in-place density test was performed for every 500 cubic yards of fill placed in each lift. An average of approximately 450 bcy (650 tons) of backfill material were placed and compacted per backfill/compaction day during the NTCRA by FWENC. The results of the ASTM testing are provided in Appendix F, Geotechnical Field and Laboratory Test Results, of this Final Project Closure Report.

To prepare the subgrade for paving, Class 2 aggregate base was placed on top of the FS-15 soil and compacted to 95 percent of the maximum dry density. PWC placed all Class 2 base in Phases 1B to 5 and Phase 7 and FWENC in Phases 1A, 6, and 7. A total of 957 tons of aggregate base were placed and compacted by FWENC, and 4,450 tons were placed and compacted by PWC in Phases 1, 2, 3, 4, 5, and 7. Compaction was performed using a vibratory roller, heavy construction equipment, or hand-operated compaction equipment in limited access areas. Field

density testing consisting of ASTM D 1556 (sand cone method) or ASTM D 2922 and D 3017 (nuclear-gauge method) was performed to confirm compaction requirements. A California-registered professional civil engineer monitored and documented the FWENC backfilling and compaction activities. FWENC earthwork was performed in accordance with the DON's specification (02200 Earthworks Specifications in Appendix M, Construction Specifications, of the RAIP; FWENC, 1999). The results of the ASTM testing are provided in Appendix F, Geotechnical Field and Laboratory Test Results, of this Final Project Closure Report.

7.4 RESTORATION AND REDEVELOPMENT ACTIVITIES

Site restoration was completed for each phase following the completion of construction activities. Figure 7-8 shows the redevelopment features following the NTCRA. Both PWC and FWENC were tasked by the DON to complete the site restoration activities at IRP Sub-Site 2A. All temporary storage and sanitary facilities, fencing and barricades, and other temporary structures used during the NTCRA were removed from IRP Sub-Site 2A following the completion of Phase 7 removal action activities. Disturbed areas were resurfaced or restored as shown in Figure 7-20. Asphalt and concrete removed or disturbed at IRP Sub-Site 2A during the NTCRA were either replaced or repaired in compliance with DON guidance specifications in Appendix M, Construction Specifications, of the RAIP (FWENC, 1999).

7.4.1 Final Grading and Construction of Drainage and Erosion Control

Phases 1 through 5 and Phase 7 were graded upon backfill completion using a Caterpillar 14G grader by PWC. Phase 6 was graded using a D5 dozer by FWENC. FWENC prepared two grading designs for the site, one for the western portion of the site and one for the former CST facility. IRP Sub-Site 2A was graded to allow surface water runoff that did not infiltrate into the ground or was runoff from the paved areas to flow toward the existing storm drainage system. Erosion controls instituted for the final surficial finish included the placement of sod and asphalt pavement with curbing. Portions of Phase 6 were graded after backfill using rakes since the excavation areas were small.

7.4.2 Asphalt Parking Lot

The asphalt parking lot consists of an area approximately 110,000 square feet (Figure 7-8) with greenbelts extending on all sides and one outlet located at the southwest corner of the parking area. The asphalt was placed by PWC in accordance with the paving design and specifications located in Appendix M, Construction Specifications, of the RAIP (FWENC, 1999).

7.4.3 Greenbelt

The area surrounding the asphalt parking lot was developed into a greenbelt area. Prior to placement of the sod, an irrigation system was installed by PWC. Approximately 2 inches of topsoil (3,000 tons) were placed by PWC above the FS-15 backfill material and were smoothed

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APPROVED BY: RR

CHECKED BY: RR

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DRAWN BY: KLD

DATE: 10/10/03

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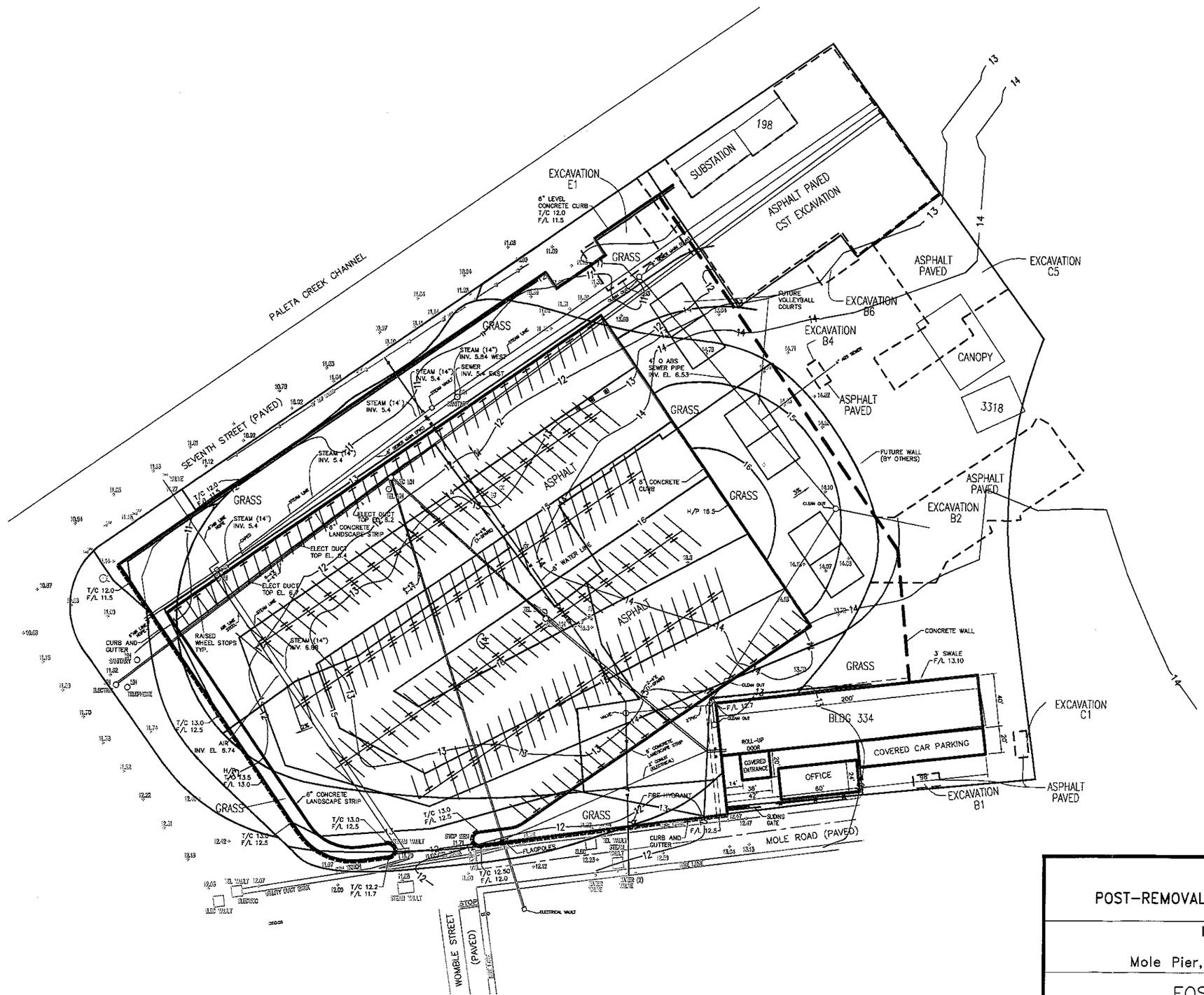


LEGEND

TURF AREA

EXISTING CONTOUR FEET MEAN SEA LEVEL

CURB AND GUTTER

NOTE

1 CST SITE RESTORATION CONTOURS NOT AVAILABLE FOR THIS REPORT

Figure 7-20
POST-REMOVAL ACTION REDEVELOPMENT MAP

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

and rolled. PWC initially applied hydroseed to the topsoil, and sod was later placed on the topsoil and rolled by FWENC. Approximately 65,000 square feet of greenbelt were placed (Figure 7-8).

7.4.4 Public Works Center Welding/Paint Shop

The former CST facility/SWMU No. 6 sites were be asphalted at the completion of the backfill activities. Approximately 30,000 square feet of asphalt were placed and compacted and will be used by the PWC Welding/Paint Shop.

7.5 MONITORING AND EMISSION CONTROLS

The NTCRA required the monitoring and control of emissions associated with the field activities. The monitoring consisted of both personnel monitoring and ambient air monitoring. The control of emissions included the suppression of airborne particulates from off-site migration. This section details the monitoring procedures and results and the methodology for controlling emissions.

7.5.1 Personnel Monitoring During Site Operations

During the project, air monitoring was performed to evaluate potential contaminants as they may affect the workers or off-site receptors. Personal air sampling was performed on workers. During the sampling period, there were no levels of any contaminants measured that exceeded permissible exposure levels. Furthermore, there were no levels that attained action levels (50 percent permissible exposure level). Air monitoring was performed by use of an air monitoring station located downwind from the project site. Analytical results of the samples collected at this station showed that there were no measurable contaminants in the air related to site activities.

During this project, there were two OSHA recordable injuries where two workers (on different occasions) had to receive stitches due to a laceration. There were no lost-time or lost-day work injuries during the length of the project.

7.5.2 Ambient Air Monitoring

Ambient air quality and meteorological monitoring were performed for the NTCRA at IRP Sub-Site 2A. The removal action involved excavation, stockpiling, loading, and off-site treatment and disposal of previously contaminated soil. The excavated area has been backfilled and restored with clean soil. The project is located within the jurisdiction of the SDAPCD. However, as a CERCLA site, the project is not subject to the air quality permitting requirements of the SDAPCD, but must meet the substantive requirements. The air quality monitoring program was conducted to measure and quantify the air emissions downwind from the site.

Air Quality Sampling

Air quality sampling was performed to measure and quantify the potential air emissions generated from the project. High-volume samplers were utilized for measurement of particulate matter less than 10 microns (PM_{10}) and total suspended particulates (TSP), including metals, as well as PCBs, PAHs, and dioxins. The high-volume air sampler draws air at a constant and specific flow rate. The flow rates and inlet heads differ for the TSP, PM_{10}, and polyurethane foam (PUF) samplers (used for PCBs, PAHs, and dioxins). Hexavalent chromium in the air was measured using a hexavalent chromium sampler. The sampling method for VOCs included an evacuated canister at a pressure near vacuum. A sample of ambient air was drawn into the canister for a specified duration and flow rate. The canister (SUMMA canister) was then sent to the laboratory and attached to the analytical system. The VOCs were separated based on their relative volatility in a gas chromatograph (GC) column and detected for identification and quantification.

Meteorological Sampling

Meteorological sampling was conducted to measure and record temperature, barometric pressure, wind direction, wind speed, and wind chill. The direction of the wind was generally from the west to the east (approximately 69 percent of the time). The air quality sampling station was located within the downwind plume for site excavations using the wind direction data. The equipment used for meteorological data collection is the Davis Weather Monitor II. The meteorological system was located upwind from the sampling location.

Sampling Procedure

Air quality sampling locations were established using wind direction data. Sampling of the air contaminants were conducted in different phases of the project, including background or baseline sampling, concrete removal, excavation and soil handling, and backfill and site restoration. During the concrete removal and backfill and site restoration, TSP and PM_{10} samples were collected, as those were the only pollutants expected to be potentially emitted into the air from project operations. Detailed descriptions of the test methods used for different pollutants of interest, calibrations and calculations are provided in the Ambient Air Toxics Sampling at Mole Pier, Site 2 Report in Appendix G of this Final Project Closure Report.

Sampling Results

Sampling results are provided based on the sampler flow rate calculations and the concentrations. Concentrations were calculated from the data collected during the monitoring. A copy of the air monitoring report is provided in Appendix G of this Final Project Closure Report.

7.5.3 Emission Controls

Dust control measures were implemented, as appropriate and necessary, beginning with site mobilization and continued throughout all phases of the construction activities FWENC complied with Rule 50 and Rule 51 of the SDAPCD as described in the Air Monitoring Plan (AMP), Appendix H of the RAIP (FWENC, 1999). Visual observation and MiniRam dust meters operated by FWENC personnel monitored the dust emissions. The following control measures were implemented:

- The use of dust suppressants (water) reduced fugitive dust emissions from excavations and stockpile areas.
- Real-time monitoring of airborne contaminants was conducted using instruments such as flame ionization detectors (FIDs) for VOCs, combustible gas indicators for explosive atmospheres, and real-time dust monitoring.
- Excavated soil was temporarily stored on site on an impermeable liner and covered until the time of loading.
- All access roads were watered and vehicular traffic on these roads was restricted to a speed of 15 mph.
- Excavations and soil handling activities were suspended during high-wind episodes (above 25 mph).

Loading of contaminated soil was scheduled during the period of low-to-moderate winds. In addition, all trucks exporting contaminated soils were covered with tarps to prevent fugitive dust emissions.

8.0 SAMPLING ACTIVITIES AND RESULTS

This section provides a description of the sampling activities and presents the analytical results for each sampling task conducted during the NTCRA activities. All sampling was performed in accordance with the FSPs (FWENC, 1999; 2002a; 2002b). Due to the large volume of analytical reports, hard copies were not included in this Final Project Closure Report. The original laboratory data is available upon request through the DON. Summary tables and figures are presented where they support the activities of the NTCRA. Sampling activities performed during the NTCRA included the following:

- Excavation sidewall and floor confirmation sampling;
- Waste characterization sampling for disposal of excavated soil, excavation and decontamination water, and rinsate from UST discovered and removed during excavation activities;
- Additional site characterization sampling at Seventh Street/Redondo Yard, Building 199, and the former CST facility/SWMU No. 6;
- Progress sampling; and
- TPH-d delineation sampling.

8.1 CONFIRMATION SOIL SAMPLING AND ANALYSIS

During excavation operations, FWENC collected sidewall and floor confirmation soil samples in accordance with the FSPs (FWENC, 1999; 2002a; 2002b). Samples were analyzed to evaluate the effectiveness of the NTCRA and to determine whether additional excavation was needed. Sidewall confirmation samples were collected along the outer boundary of the excavation from stained or discolored soils if present, or otherwise at mid-depth (approximately 4 to 5 feet bgs). Confirmation samples also were collected from the excavation floor.

Confirmation Sampling

Confirmation samples were collected and analyzed in accordance with the FSP (FWENC, 1999; 2002a; 2002b). When feasible, the areas where sidewall confirmation samples exceeded target cleanup goals were excavated an additional 5 feet (into the sidewall) along a width of approximately 30 feet (15 feet on either side of the sample point). Additional samples were collected if determined appropriate by the project team. The inclination of the side slope was maintained during the additional excavations. Bottom confirmation sample grid cells exceeding cleanup criteria were excavated down an additional 1 foot over the 75-foot by 75-foot cell area (unless in groundwater). The extended excavations were resampled and re-analyzed, if determined appropriate by the project team. The lateral extent of the excavation was limited by the project site boundary, utilities, buildings, or streets surrounding IRP Sub-Site 2A.

Confirmation Sampling Analysis

Confirmation samples were analyzed for VOCs (EPA Method 5035/8260B), SVOCs (EPA Method 8270C), PAHs (EPA Method 8270C-SIM PAH), organotin compounds (by GC/FID), organochlorine pesticides (EPA Method 8081A), PCBs (EPA Method 8082), hexavalent chromium (EPA 7196A), dioxins/furans (EPA Method 8290), TPH-d and total petroleum hydrocarbons quantified as motor oil (TPH-mo) (EPA Method 8015B), TPH-d and TPH-mo by the Synthetic Precipitation Leaching Procedure (SPLP) (EPA Method 1312/8015B), and Title 22 metals (EPA Method 6010B/7000). A select number of soil samples also were analyzed for gross alpha/beta (EPA Method 9310) and gamma spectroscopy (EPA Method 901.1M) as required, following radiation monitoring.

Confirmation Sampling Data Validation

Third-party companies including Laboratory Data Consultants, Inc., located in Carlsbad, California, and Validata Chemical Services, Inc., located in Duluth, Georgia, validated all confirmation soil samples. The validation was conducted in accordance with the *EPA Contract Laboratory Program National Functional Guidelines For Organic Data Review* (EPA, 1999), the *EPA Contract Laboratory Program National Functional Guidelines For Inorganic Data Review* (EPA, 1994), and the criteria specified in the Appendix C, Quality Assurance Project Plan (QAPP) of the RAIP (FWENC, 1999). Ten percent of the total number of confirmation soil samples were validated in accordance with EPA Level IV, and the remainder of the samples were validated in accordance with EPA Level III protocol. Third-party validation for confirmation samples collected on January 30, 2003, is pending and has been noted in Table 8-1.

The data validation included review of the following criteria:

- Technical holding times
- Instrument performance checks
- Initial and continuing calibration verification
- Blanks (laboratory and field)
- Surrogates
- Matrix spike/matrix spike duplicates (MS/MSDs)
- Laboratory control samples
- Internal standards
- Target compound identification
- Compound quantification
- System performance

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number			0002-1382	0002-1383	0002-1384	0002-1385	0002-1406	0002-1410	0002-1411	0002-1414	0002-1415	0002-1416 (FD)	0002-1452 [1]	0002-1453	0002-1454 (FD)
Sample Location			G12 Floor	F15 Floor	F17 Floor	F18 Sidewall	D7 Floor	B7 Sidewall	D16 Floor	B5 Sidewall	D16 Sidewall	D16 Sidewall	C11 Floor	C13 Floor	C13 Floor
Sample Date			5/22/2000	5/22/2000	5/22/2000	5/22/2000	6/6/2000	6/12/2000	6/12/2000	6/13/2000	6/13/2000	6/13/2000	6/14/2000	6/14/2000	6/14/2000
Analyte	Units	Cleanup Goals													
Metals															
HEXAVALENT CHROMIUM	mg/kg	0.2	0.23 U	0.25 U	0.22 U	0.21 U	0.25 U	0.4	0.3	0.2 J	0.21 U	0.21 U	0.23 U	0.24 U	0.2 J
ANTIMONY	mg/kg	NE	5.9 U	6.2 U	5.6 U	0.89 J	6.2 U	5.3 U	5.9 U	5.2 U	5.2 U	5.3 U	0.44 J	5.9 U	5.8 U
ARSENIC	mg/kg	9.05	1.6	1.7	1.6	1.7	2.4	2.3	0.86	1.8	0.49	0.88	2.6	0.98	1.9
BARIUM	mg/kg	NE	128	168	46.1	50	21.4	12.3	60.9	13.1	16.5	31.2	32	22.4	106
BERYLLIUM	mg/kg	NE	0.23 U	0.25 U	0.22 U	0.21 U	0.25 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.23 U	0.24 U	0.23 U
CADMIUM	mg/kg	NE	0.23 U	0.25 U	0.22 U	0.069 J	0.25 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.23 J	0.24 U	0.23 U
CHROMIUM	mg/kg	NE	18	21.9	6.3	8	5.3	4.9	10.4	6.1	3.5	7.7	14	6	22.6
COBALT	mg/kg	NE	11.4	14.2	11	4.1	4.4	3	4.3	2.1	1.8	3.5	3.2	2.5	16.5
COPPER	mg/kg	NE	15.1	15.9	4.4	58.6	2.2	2.2	5.7	1.3	2.4	4.4	56.6 J	4.1	24.1
LEAD	mg/kg	130	6.3	4	2	23	0.92	0.65	1.3	0.69	0.65	1.3	223 J	13.2	5.8
MERCURY	mg/kg	NE	0.23 U	0.25 U	0.22 U	0.11 J	0.25 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.18 J	0.24 U	0.038 J
MOLYBDENUM	mg/kg	NE	0.23 U	0.25 U	0.3	0.21 U	0.25 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.21 J	0.24 U	0.23 U
NICKEL	mg/kg	NE	7.2	8.8	2.6	5.7	2.2	1.9	3.6	1.3	1.2	2.5	4.2	1.6	11.5
SELENIUM	mg/kg	NE	0.59 U	0.62 U	0.56 U	0.53 U	1.5	0.53 U	0.59 U	0.52 U	0.52 U	0.53 U	0.58 U	0.59 U	0.58 U
SILVER	mg/kg	NE	0.59 U	0.62 U	0.56 U	0.53 U	0.62 U	0.53 U	0.59 U	0.52 U	0.52 U	0.53 U	0.58 U	0.59 U	0.58 U
THALLIUM	mg/kg	NE	0.59 U	0.62 U	0.56 U	0.53 U	0.62 U	0.53 U	0.59 U	0.52 U	0.52 U	0.53 U	0.58 U	0.59 U	0.58 U
VANADIUM	mg/kg	NE	57.4	67.9	21	109	13.3	10.2	33.5	7.6	14.6	27.4	14.8	21.7	63.3
ZINC	mg/kg	NE	48.3	49.2	10.8	53.2	13.2	7.8	13.8	8.4	6.7	13	154	18.6	55.9
Total Petroleum Hydrocarbons															
DIESEL	mg/kg	NE	12 U	12 U	5 J	5 J	12 U	11 U	12 U	10 U	10 U	11 U	5 J	12 U	12 U
MOTOR OIL	mg/kg	NE	12 U	12 U	11 U	15	12 U	11 U	12 U	10 U	10 U	11 U	40	12 U	2 J
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.5 U	0.05 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.03 J	0.02 J	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.09 J	0.5 U	0.5 U
Pesticides															
4,4'-DDD	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
4,4'-DDE	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
4,4'-DDT	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
ALDRIN	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
ALPHA-BHC	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
CHLORDANE	µg/kg	NE	59 U	62 U	56 U	53 U	62 U	53 U	59 U	52 U	52 U	53 U	58 U	59 U	58 U
DELTA-BHC	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
DIELDRIN	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
ENDOSULFAN I	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
ENDOSULFAN II	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
ENDOSULFAN SULFATE	µg/kg	NE	5.9 U	6.2 U	5.6 U	5.3 U	6.2 U	5.3 U	5.9 U	5.2 U	5.2 U	5.3 U	1 J	5.9 U	5.8 U
ENDRIN	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
ENDRIN ALDEHYDE	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
ENDRIN KETONE	µg/kg	NE	2.3 U	2.5 U	2.2 U	2.1 U	2.5 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2.3 U	2.4 U	2.3 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U
METHOXYCHLOR	µg/kg	NE	12 U	12 U	11 U	11 U	12 U	11 U	12 U	10 U	10 U	11 U	5 J	12 U	12 U
TOXAPHENE	µg/kg	NE	120 U	120 U	110 U	110 U	120 U	110 U	120 U	100 U	100 U	110 U	120 U	120 U	120 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number Sample Location Sample Date			0002-1382 G12 Floor 5/22/2000	0002-1383 F15 Floor 5/22/2000	0002-1384 F17 Floor 5/22/2000	0002-1385 F18 Sidewall 5/22/2000	0002-1406 D7 Floor 6/6/2000	0002-1410 B7 Sidewall 6/12/2000	0002-1411 D16 Floor 6/12/2000	0002-1414 B5 Sidewall 6/13/2000	0002-1415 D16 Sidewall 6/13/2000	0002-1416 (FD) D16 Sidewall 6/13/2000	0002-1452 (1) C11 Floor 6/14/2000	0002-1453 C13 Floor 6/14/2000	0002-1454 (FD) C13 Floor 6/14/2000
Analyte	Units	Cleanup Goals													
Polychlorinated Biphenyls															
AROCLOR 1016	µg/kg	NE	180 U	190 U	170 U	160 U	62 U	53 U	59 U	52 U	52 U	53 U	58 U	59 U	58 U
AROCLOR 1221	µg/kg	NE	350 U	370 U	340 U	320 U	120 U	110 U	120 U	100 U	100 U	110 U	120 U	120 U	120 U
AROCLOR 1232	µg/kg	NE	180 U	190 U	170 U	160 U	62 U	53 U	59 U	52 U	52 U	53 U	58 U	59 U	58 U
AROCLOR 1242	µg/kg	NE	180 U	190 U	170 U	160 U	62 U	53 U	59 U	52 U	52 U	53 U	58 U	59 U	58 U
AROCLOR 1248	µg/kg	NE	180 U	190 U	170 U	160 U	62 U	53 U	59 U	52 U	52 U	53 U	58 U	59 U	58 U
AROCLOR 1254	µg/kg	NE	88 U	93 U	84 U	79 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
AROCLOR 1260	µg/kg	NE	88 U	93 U	84 U	79 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
Volatile Organic Compounds															
1,1,1-TRICHLOROETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
1,1-DICHLOROETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
1,1-DICHLOROETHENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
1,2-DICHLOROETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
1,2-DICHLOROPROPANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
2-BUTANONE	µg/kg	NE	21 J	18 J	25 J	17 J	130 U	150 U	130 U	160 U	97 U	120 U	150 U	100 U	120 U
2-HEXANONE	µg/kg	NE	3 J	3 J	4 J	3 J	63 U	4 J	3 J	80 U	49 U	58 U	74 U	52 U	58 U
4-METHYL-2-PENTANONE	µg/kg	NE	61 U	54 U	64 U	53 U	63 U	1 J	65 U	80 U	49 U	58 U	74 U	52 U	58 U
ACETONE	µg/kg	NE	22 J	17 J	25 J	15 J	130 U	28 J	130 U	160 U	97 U	120 U	32 J	23 J	25 J
BENZENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
BROMODICHLOROMETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
BROMOFORM	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
BROMOMETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CARBON DISULFIDE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CARBON TETRACHLORIDE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CHLOROBENZENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CHLOROETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CHLOROFORM	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CHLOROMETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
DIBROMOCHLOROMETHANE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
ETHYLBENZENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	12 U	11 U	13 U	11 U	13 U	15 U	13 U	16 U	9.7 U	12 U	15 U	10 U	12 U
METHYLENE CHLORIDE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	1 J	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
STYRENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
TETRACHLOROETHENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
TOLUENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	2 J	1 J	1 J	7.4 U	5.2 U	5.8 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
TRICHLOROETHENE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
VINYL ACETATE	µg/kg	NE	61 U	54 U	64 U	53 U	63 U	76 U	65 U	80 U	49 U	58 U	74 U	52 U	58 U
VINYL CHLORIDE	µg/kg	NE	6.1 U	5.4 U	6.4 U	5.3 U	6.3 U	7.6 U	6.5 U	8 U	4.9 U	5.8 U	7.4 U	5.2 U	5.8 U
XYLENES (TOTAL)	µg/kg	NE	18 U	16 U	19 U	16 U	19 U	23 U	19 U	0.8 J	15 U	0.6 J	22 U	16 U	17 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number			0002-1382	0002-1383	0002-1384	0002-1385	0002-1406	0002-1410	0002-1411	0002-1414	0002-1415	0002-1416 (FD)	0002-1452 [1]	0002-1453	0002-1454 (FD)
Sample Location			G12 Floor	F15 Floor	F17 Floor	F18 Sidewall	D7 Floor	B7 Sidewall	D16 Floor	B5 Sidewall	D16 Sidewall	D16 Sidewall	C11 Floor	C13 Floor	C13 Floor
Sample Date			5/22/2000	5/22/2000	5/22/2000	5/22/2000	6/6/2000	6/12/2000	6/12/2000	6/13/2000	6/13/2000	6/13/2000	6/14/2000	6/14/2000	6/14/2000
Analyte	Units	Cleanup Goals													
Semivolatile Organic Compounds															
1 2,4-TRICHLOROBENZENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
1,2-DICHLOROBENZENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
1 3-DICHLOROBENZENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
1 4-DICHLOROBENZENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2 4 5-TRICHLOROPHENOL	µg/kg	NE	1900 U	2000 U	1800 U	3400 U	2000 U	1700 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
2 4 6-TRICHLOROPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2,4-DICHLOROPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2 4-DIMETHYLPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2 4-DINITROPHENOL	µg/kg	NE	1900 U	2000 UJ	1800 UJ	3400 UJ	2000 UJ	1700 UJ	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
2 4-DINITROTOLUENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2,6-DINITROTOLUENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2-CHLORONAPHTHALENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2-CHLOROPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2-METHYLPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
2-NITROANILINE	µg/kg	NE	1900 U	2000 U	1800 U	3400 U	2000 U	1700 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
2-NITROPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	390 U	410 U	370 U	690 U	410 UJ	350 UJ	390 U	340 U	340 U	350 U	380 U	390 U	380 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
3-NITROANILINE	µg/kg	NE	1900 U	2000 U	1800 U	3400 U	2000 U	1700 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1900 U	2000 U	1800 U	3400 U	2000 U	1700 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
4-CHLOROANILINE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
4-NITROANILINE	µg/kg	NE	1900 U	2000 U	1800 U	3400 U	2000 UJ	1700 UJ	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
4-NITROPHENOL	µg/kg	NE	1900 U	2000 U	1800 U	3400 U	2000 U	1700 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U	1800 U
ACENAPHTHENE	µg/kg	NE	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
ACENAPHTHYLENE	µg/kg	NE	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
ANTHRACENE	µg/kg	6100	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
BENZ[A]ANTHRACENE	µg/kg	560	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	170	29 U	29 U
BENZO[A]PYRENE	µg/kg	56	29 U	31 U	28 U	4 J	31 U	27 U	29 U	26 U	26 U	26 U	290	29 U	29 U
BENZO[B]FLUORANTHENE	µg/kg	560	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	390	29 U	29 U
BENZO[G H I]PERYLENE	µg/kg	NE	29 U	31 U	28 U	4 J	31 U	27 U	29 U	26 U	26 U	26 U	230	29 U	29 U
BENZO[K]FLUORANTHENE	µg/kg	610	4 J	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	140	29 U	29 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	51 J	380 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	390 U	410 U	370 U	690 U	410 UJ	350 UJ	390 U	340 U	340 U	350 U	380 U	390 U	380 U
CHRYSENE	µg/kg	6100	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	230	29 U	29 U
DIBENZ[A H]ANTHRACENE	µg/kg	56	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	39	29 U	29 U
DIBENZOFURAN	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
DIETHYL PHTHALATE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
DIMETHYL PHTHALATE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
FLUORANTHENE	µg/kg	NE	4 J	31 U	28 U	5 J	31 U	27 U	29 U	26 U	26 U	26 U	71	29 U	29 U
FLUORENE	µg/kg	NE	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
HEXACHLOROBENZENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
HEXACHLOROBUTADIENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number			0002-1382	0002-1383	0002-1384	0002-1385	0002-1406	0002-1410	0002-1411	0002-1414	0002-1415	0002-1416 (FD)	0002-1452 (1)	0002-1453	0002-1454 (FD)
Sample Location			G12 Floor	F15 Floor	F17 Floor	F18 Sidewall	D7 Floor	B7 Sidewall	D16 Floor	B5 Sidewall	D16 Sidewall	D16 Sidewall	C11 Floor	C13 Floor	C13 Floor
Sample Date			5/22/2000	5/22/2000	5/22/2000	5/22/2000	6/6/2000	6/12/2000	6/12/2000	6/13/2000	6/13/2000	6/13/2000	6/14/2000	6/14/2000	6/14/2000
Analyte	Units	Cleanup Goals													
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
HEXACHLOROETHANE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
INDENO[1 2 3-CD]PYRENE	µg/kg	560	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	200	29 U	29 U
NAPHTHALENE	µg/kg	NE	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
NITROBENZENE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
PENTACHLOROPHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
PHENANTHRENE	µg/kg	NE	29 U	31 U	28 U	26 U	31 U	27 U	29 U	26 U	26 U	26 U	29 U	29 U	29 U
PHENOL	µg/kg	NE	390 U	410 U	370 U	690 U	410 U	350 U	390 U	340 U	340 U	350 U	380 U	390 U	380 U
PYRENE	µg/kg	NE	4 J	31 U	28 U	6 J	31 U	27 U	29 U	26 U	26 U	26 U	77	29 U	29 U
Organotin															
DIBUTYLTIN	µg/kg	NE	5.9 U	6.2 U	5.6 U	5.3 U	6.2 U	5.3 U	5.9 U	5.2 U	5.2 U	5.3 U	5.8 U	5.9 U	5.8 U
MONOBUTYLTIN	µg/kg	NE	5.9 U	6.2 U	5.6 U	5.3 U	6.2 U	5.3 U	5.9 U	5.2 U	5.2 U	5.3 U	5.8 U	5.9 U	5.8 U
TETRABUTYLTIN	µg/kg	NE	5.9 U	6.2 U	5.6 U	5.3 U	6.2 U	5.3 U	5.9 U	5.2 U	5.2 U	5.3 U	5.8 U	5.9 U	5.8 U
TRIBUTYLTIN	µg/kg	NE	5.9 U	6.2 U	5.6 U	5.3 U	6.2 U	5.3 U	5.9 U	5.2 U	5.2 U	5.3 U	5.8 U	5.9 U	5.8 U
Dioxins and Furans															
1 2 3 4 6 7 8 9-OCDD	pg/g	NE	3 3 J	13 7 J	23.3 J	3 2 J	8 6 J	2 4 UJ	3 UJ	20 8 J	0.75 J	2 4 J	4.1 J	58.9 J	59 3 J
1 2 3 4 6 7 8 9-OCDF	pg/g	NE	0 6 UJ	1 1 J	1 6 J	0 3 UJ	0 6 U	0 5 UJ	0 6 UJ	1 2 J	0.6 UJ	0 4 UJ	0 5 U	2 3 J	2.6 J
1 2 3 4 6 7 8-HPCDD	pg/g	NE	0 5 UJ	2 3 J	2 3 J	0 67 J	0.75 J	0 4 UJ	0 4 UJ	2 J	0 4 UJ	0 3 UJ	0 7 J	7 1 J	8 6 J
1 2 3 4 6 7 8-HPCDF	pg/g	NE	0 3 UJ	2 6 J	1.5 J	0 72 J	0 4 U	0 3 U	0 3 U	0.75 J	0 3 U	0 2 U	0 3 U	2 3 J	1.3 J
1 2 3 4 7 8 9-HPCDF	pg/g	NE	0 4 UJ	0 5 UJ	0 4 UJ	0 2 UJ	0 4 U	0 4 UJ	0 3 UJ	0 3 UJ	0 3 UJ	0 2 UJ	0 4 UJ	0 3 UJ	0.3 UJ
1 2 3 4 7 8-HXCDD	pg/g	NE	0 4 UJ	0 4 UJ	0 3 UJ	0 2 UJ	0 4 U	0 3 U	0 3 U	0 3 U	0 3 U	0 2 U	0 3 U	0 3 U	0 3 U
1 2 3 4 7 8-HXCDF	pg/g	NE	0 32 J	1 4 J	0.67 J	0.24 J	0.3 U	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	1 2 J	0.2 U
1 2 3 6 7 8-HXCDD	pg/g	NE	0 4 UJ	0.4 UJ	0 3 UJ	0 2 UJ	0 4 U	0 3 U	0 3 U	0 3 U	0 3 U	0 2 U	0.3 U	0 3 U	0.3 U
1 2,3 6 7 8-HXCDF	pg/g	NE	0 2 UJ	0.46 J	0 2 UJ	0 1 UJ	0.3 U	0 2 U	0 2 U	0.2 U	0 2 U	0.1 U	0 2 U	0.42 J	0.2 U
1 2 3 7 8 9-HXCDD	pg/g	NE	0 4 UJ	0 4 UJ	0 3 UJ	0 2 UJ	0.3 U	0.3 UJ	0 3 UJ	0 3 UJ	0 3 UJ	0 2 UJ	0.3 UJ	0 3 UJ	0.2 UJ
1 2 3 7 8 9-HXCDF	pg/g	NE	0 3 UJ	0 4 UJ	0 2 UJ	0 2 UJ	0 3 U	0.3 UJ	0 3 UJ	0 2 UJ	0.2 UJ	0.2 UJ	0.3 UJ	0.3 UJ	0.2 UJ
1 2,3 7 8-PECDD	pg/g	NE	0 4 UJ	0 4 UJ	0 3 UJ	0 2 UJ	0.3 U	0 4 UJ	0 4 UJ	0 4 UJ	0 4 UJ	0.3 UJ	0 4 UJ	0 4 UJ	0.3 UJ
1,2 3 7 8-PECDF	pg/g	NE	0 2 UJ	0 2 UJ	0 1 UJ	0 1 UJ	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	0 1 U	0 2 U	0.2 U	0.1 U
2 3 4 6 7 8-HXCDF	pg/g	NE	0 3 UJ	0.77 J	0 4 J	0 2 UJ	0 3 U	0 2 UJ	0 2 UJ	0.2 UJ	0 2 UJ	0 2 UJ	0 2 UJ	0 65 J	0.2 UJ
2 3 4 7 8-PECDF	pg/g	NE	0 2 UJ	0 3 UJ	0 2 UJ	0 1 UJ	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U	0 2 U
2 3 7 8-TCDD	pg/g	NE	0 3 UJ	0 3 UJ	0 2 UJ	0.1 UJ	0.2 U	0 2 U	0 2 U	0 2 U	0 3 U	0 2 U	0 2 U	0 2 U	0 2 U
2 3 7 8-TCDF	pg/g	NE	0.64 J	0 92 J	0.43 J	0 1 UJ	0 2 U	0 2 U	0.2 U	0 2 U	0 2 U	0.1 U	0 2 U	1 1	0.2 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	9.93E-08	4.19E-07	2.13E-07	4.11E-08	1.61E-08	0.00E+00	0.00E+00	4.95E-08	7.50E-10	2.40E-09	1.11E-08	4.92E-07	1.61E-07
Radiochemistry															
GROSS ALPHA	pCi/g	NE	2 5	6 1	5 8	4	1.7	7 2	3 6	4	2 4	6.4	1 4	-0 065	2.3
GROSS BETA	pCi/g	NE	11	13	14	13	13	11	8 6	7.2	9 9	11	13	9 8	23
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	0 65	0.72	NA	NA	NA	NA	0.37	NA	NA	NA	NA	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	0.51	0 2 U	0 2 U	0 43	NA	0 2 U	0.29	0.31	0.36	0 2 U	0 45	0 2 U	0 1 U
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number			0002-1382	0002-1383	0002-1384	0002-1385	0002-1406	0002-1410	0002-1411	0002-1414	0002-1415	0002-1416 (FD)	0002-1452 [1]	0002-1453	0002-1454 (FD)
Sample Location			G12 Floor	F15 Floor	F17 Floor	F18 Sidewall	D7 Floor	B7 Sidewall	D16 Floor	B5 Sidewall	D16 Sidewall	D16 Sidewall	C11 Floor	C13 Floor	C13 Floor
Sample Date			5/22/2000	5/22/2000	5/22/2000	5/22/2000	6/6/2000	6/12/2000	6/12/2000	6/13/2000	6/13/2000	6/13/2000	6/14/2000	6/14/2000	6/14/2000
Analyte	Units	Cleanup Goals													
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0.68	0.65	0.36	0.8	0.2	0.21	0.52	0.25	0.33	0.36	0.37	0.34	0.34
LEAD-214	pCi/g	NE	0.52	0.2 U	0.2 U	0.4	NA	0.2 U	0.28	0.32	0.36	0.2 U	0.48	0.2 U	0.2 U
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	12	12	10	15	7.9	8.3	11	12	3.3	13	9.6	9.8	9.2
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	0.19	0.24	0.13	0.22	NA	0.07	0.19	0.091	0.13	0.11	0.094	0.1	0.1
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number Sample Location Sample Date			0002-1455 B11 Sidewall 6/14/2000	0002-1456 B13 Sidewall 6/14/2000	0002-1491 C11 Floor 7/11/2000	0002-1663 J10 Floor 9/14/2000	0002-2295 A2 Floor 3/27/2001
Analyte	**Units**	**Cleanup Goals**					
Metals							
HEXAVALENT CHROMIUM	mg/kg	0.2	0.22 U	0.21 U	0.81	0.4	0.24 U
ANTIMONY	mg/kg	NE	5.4 U	5.3 U	5.8 U	5.7 U	5.9 U
ARSENIC	mg/kg	9.05	0.85	0.78	1.5	1.7	3.4
BARIUM	mg/kg	NE	31.3	16.1	74.9	60.5	13.8
BERYLLIUM	mg/kg	NE	0.22 U	0.21 U	0.23 U	0.23 U	0.24 U
CADMIUM	mg/kg	NE	0.22 U	0.21 U	0.23 U	0.23 U	0.24 U
CHROMIUM	mg/kg	NE	6.4	6	11	12.4	3.3
COBALT	mg/kg	NE	3	2.2	7	5.5	2.4
COPPER	mg/kg	NE	3.2	2.4	8.7	11.4 J	2.1 J
LEAD	mg/kg	130	1.1	0.9	1.6	5	2.8
MERCURY	mg/kg	NE	0.22 U	0.21 U	0.23 U	0.23 U	0.24 U
MOLYBDENUM	mg/kg	NE	0.22 U	0.21 U	0.23 U	0.23 U	0.24 U
NICKEL	mg/kg	NE	1.8	1.3	4.9	17.3	1.4
SELENIUM	mg/kg	NE	0.54 U	0.53 U	0.58 U	0.57 U	0.59 U
SILVER	mg/kg	NE	0.54 U	0.53 U	0.58 U	0.23 J	0.59 U
THALLIUM	mg/kg	NE	0.54 U	0.53 U	0.58 U	0.57 U	0.59 U
VANADIUM	mg/kg	NE	24.3	22.7	39.4	54.5	10
ZINC	mg/kg	NE	9	6.4	24.5	21.4 J	4.7 J
Total Petroleum Hydrocarbons							
DIESEL	mg/kg	NE	11 U	11 U	12 U	12000	2600
MOTOR OIL	mg/kg	NE	11 U	11 U	12 U	2100	170
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.5 U	240	4
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	0.5 U	46 J	0.5 U
Pesticides							
4,4'-DDD	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
4,4'-DDE	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
4,4'-DDT	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
ALDRIN	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
ALPHA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
CHLORDANE	µg/kg	NE	54 U	53 U	58 U	290 U	59 U
DELTA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
DIELDRIN	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
ENDOSULFAN I	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
ENDOSULFAN II	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
ENDOSULFAN SULFATE	µg/kg	NE	5.4 U	5.3 U	5.8 U	29 U	5.9 U
ENDRIN	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
ENDRIN ALDEHYDE	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
ENDRIN KETONE	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	2.4 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.7 U	1.2 U
METHOXYCHLOR	µg/kg	NE	11 U	11 U	12 UJ	57 U	12 U
TOXAPHENE	µg/kg	NE	110 U	110 U	120 U	570 U	120 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number Sample Location Sample Date			0002-1455 B11 Sidewall 6/14/2000	0002-1456 B13 Sidewall 6/14/2000	0002-1491 C11 Floor 7/11/2000	0002-1663 J10 Floor 9/14/2000	0002-2295 A2 Floor 3/27/2001
Analyte	**Units**	**Cleanup Goals**					
Polychlorinated Biphenyls							
AROCLOR 1016	µg/kg	NE	54 U	53 U	58 U	57 U	59 U
AROCLOR 1221	µg/kg	NE	110 U	110 U	120 U	110 U	120 U
AROCLOR 1232	µg/kg	NE	54 U	53 U	58 U	57 U	59 U
AROCLOR 1242	µg/kg	NE	54 U	53 U	58 U	57 U	59 U
AROCLOR 1248	µg/kg	NE	54 U	53 U	58 U	57 U	59 U
AROCLOR 1254	µg/kg	NE	27 U	27 U	29 U	29 U	29 U
AROCLOR 1260	µg/kg	NE	27 U	27 U	29 U	29 U	29 U
Volatile Organic Compounds							
1,1,1-TRICHLOROETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
1,1-DICHLOROETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
1,1-DICHLOROETHENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
1,2-DICHLOROETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
1,2-DICHLOROPROPANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
2-BUTANONE	µg/kg	NE	350 U	100 U	NA	120 U	120 U
2-HEXANONE	µg/kg	NE	170 U	52 U	NA	61 U	59 U
4-METHYL-2-PENTANONE	µg/kg	NE	170 U	52 U	NA	61 U	59 U
ACETONE	µg/kg	NE	69 J	24 J	NA	120 U	120 U
BENZENE	µg/kg	NE	17 U	5.2 U	NA	1 J	0.5 J
BROMODICHLOROMETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
BROMOFORM	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
BROMOMETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CARBON DISULFIDE	µg/kg	NE	17 U	5.2 U	NA	6 J	2 J
CARBON TETRACHLORIDE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CHLOROBENZENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CHLOROETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CHLOROFORM	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CHLOROMETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
DIBROMOCHLOROMETHANE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
ETHYLBENZENE	µg/kg	NE	17 U	5.2 U	NA	37 J	14 J
METHYL TERT-BUTYL ETHER	µg/kg	NE	35 U	10 U	NA	12 U	12 U
METHYLENE CHLORIDE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	3 J
STYRENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
TETRACHLOROETHENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
TOLUENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	7 J
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
TRICHLOROETHENE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
VINYL ACETATE	µg/kg	NE	170 U	52 U	NA	61 U	59 U
VINYL CHLORIDE	µg/kg	NE	17 U	5.2 U	NA	6.1 U	5.9 U
XYLENES (TOTAL)	µg/kg	NE	52 U	16 U	NA	5 J	18 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number Sample Location Sample Date			0002-1455 B11 Sidewall 6/14/2000	0002-1456 B13 Sidewall 6/14/2000	0002-1491 C11 Floor 7/11/2000	0002-1663 J10 Floor 9/14/2000	0002-2295 A2 Floor 3/27/2001
Analyte	**Units**	**Cleanup Goals**					
Semivolatile Organic Compounds							
1,2,4-TRICHLOROBENZENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
1,2-DICHLOROBENZENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
1,3-DICHLOROBENZENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
1,4-DICHLOROBENZENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2,4-DICHLOROPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2,4-DIMETHYLPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2,4-DINITROPHENOL	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
2,4-DINITROTOLUENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2,6-DINITROTOLUENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2-CHLORONAPHTHALENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2-CHLOROPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2-METHYLPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
2-NITROANILINE	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
2-NITROPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	360 U	350 U	380 U	7600 U	4600 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
3-NITROANILINE	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
4-CHLOROANILINE	µg/kg	NE	360 U	350 U	380 U	7600 U	8900 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
4-NITROANILINE	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
4-NITROPHENOL	µg/kg	NE	1700 U	1700 U	1800 U	37000 U	19000 U
ACENAPHTHENE	µg/kg	NE	27 U	27 U	29 U	570 U	29 U
ACENAPHTHYLENE	µg/kg	NE	27 U	27 U	29 U	570 U	29 U
ANTHRACENE	µg/kg	6100	27 U	27 U	29 U	570 U	29 J
BENZ[A]ANTHRACENE	µg/kg	560	27 U	27 U	29 U	570 U	29 U
BENZO[A]PYRENE	µg/kg	56	27 U	27 U	29 U	570 U	29 U
BENZO[B]FLUORANTHENE	µg/kg	560	27 U	27 U	29 U	570 U	29 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	27 U	27 U	29 U	570 U	29 U
BENZO[K]FLUORANTHENE	µg/kg	610	27 U	27 U	29 U	570 U	29 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
CHRYSENE	µg/kg	6100	27 U	27 U	29 U	570 U	32
DIBENZ[A,H]ANTHRACENE	µg/kg	56	27 U	27 U	29 U	570 U	29 U
DIBENZOFURAN	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
DIETHYL PHTHALATE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
DIMETHYL PHTHALATE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
FLUORANTHENE	µg/kg	NE	27 U	27 U	29 U	570 U	14 J
FLUORENE	µg/kg	NE	27 U	27 U	29 U	8400 J	280 J
HEXACHLOROBENZENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
HEXACHLOROBUTADIENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number			0002-1455	0002-1456	0002-1491	0002-1663	0002-2295
Sample Location			B11 Sidewall	B13 Sidewall	C11 Floor	J10 Floor	A2 Floor
Sample Date			6/14/2000	6/14/2000	7/11/2000	9/14/2000	3/27/2001
Analyte	Units	Cleanup Goals					
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	360 U	350 U	380 U	7600 U	4500 U
HEXACHLOROETHANE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
INDENO[1 2.3-CD]PYRENE	µg/kg	560	27 U	27 U	29 U	570 U	29 U
NAPHTHALENE	µg/kg	NE	27 U	27 U	29 U	3800	29 U
NITROBENZENE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	360 U	350 U	380 U	7600 U	7200 U
PENTACHLOROPHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	5200 U
PHENANTHRENE	µg/kg	NE	27 U	27 U	29 U	9600 J	210 J
PHENOL	µg/kg	NE	360 U	350 U	380 U	7600 U	3900 U
PYRENE	µg/kg	NE	27 U	27 U	29 U	320 J	25 J
Organotin							
DIBUTYLTIN	µg/kg	NE	5.4 U	5.3 U	5 8 U	5.7 R	12 U
MONOBUTYLTIN	µg/kg	NE	5.4 U	5 3 U	5 8 U	5.7 R	12 U
TETRABUTYLTIN	µg/kg	NE	5 4 U	5 3 U	5 8 U	5.7 R	12 U
TRIBUTYLTIN	µg/kg	NE	5.4 U	5.3 U	5.8 U	5.7 R	12 U
Dioxins and Furans							
1 2.3.4.6.7 8 9-OCDD	pg/g	NE	18.6 J	1.9 J	410	155 J	8.6 J
1 2.3 4.6.7 8.9-OCDF	pg/g	NE	1 J	0.7 UJ	7.1 J	60.6 UJ	0 44 J
1.2.3.4.6 7,8-HPCDD	pg/g	NE	1.7 J	0 5 UJ	67.4	69.3	1.1 J
1 2.3 4 6.7.8-HPCDF	pg/g	NE	0.46 J	0 4 U	9.3	18 6 U	0 44 J
1.2.3.4.7 8 9-HPCDF	pg/g	NE	0.3 UJ	0.5 UJ	0 6 U	22.9 U	0 3 U
1 2.3.4.7 8-HXCDD	pg/g	NE	0 3 U	0 4 U	0 64 J	15.1 U	0 2 U
1 2.3 4.7 8-HXCDF	pg/g	NE	0.2 U	0 3 U	3.7 J	9.3 U	0 36 J
1.2.3 6,7 8-HXCDD	pg/g	NE	0.3 U	0 4 U	2.1 J	15 1 U	0 2 U
1 2.3.6.7 8-HXCDF	pg/g	NE	0 2 U	0 3 U	1 3 J	8 9 U	0 1 U
1.2.3 7.8 9-HXCDD	pg/g	NE	0.3 UJ	0.4 UJ	2.2 J	14.6 U	0 2 U
1 2.3 7,8 9-HXCDF	pg/g	NE	0 2 UJ	0 4 UJ	0 5 U	11.4 U	0 2 U
1 2 3 7.8-PECDD	pg/g	NE	0 3 UJ	0 6 UJ	0.46 J	8 3 U	0.1 U
1.2.3.7.8-PECDF	pg/g	NE	0 2 U	0 3 U	1.4 J	5.5 U	0 1 J
2.3.4 6.7.8-HXCDF	pg/g	NE	0.2 UJ	0 3 UJ	2.1 J	9 6 U	0 1 U
2 3 4.7 8-PECDF	pg/g	NE	0.2 U	0.3 U	1 8 J	5.4 U	0 13 J
2.3 7.8-TCDD	pg/g	NE	0.2 U	0 3 U	0 5 U	3.9 U	0 1 U
2.3 7 8-TCDF	pg/g	NE	0.2 U	0 3 U	0 84 J	3.4 U	0.4 J
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	4.12E-08	1.90E-09	3.67E-06	8.48E-07	1.70E-07
Radiochemistry							
GROSS ALPHA	pCi/g	NE	-0.49	10	1.7	5.9	9 7
GROSS BETA	pCi/g	NE	14	9 7	2 3	6.4	11 8
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	NA	NA	NA	0.47	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	NA	0 2 U	NA	0 36	NA
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1A

Sample Number Sample Location Sample Date			0002-1455 B11 Sidewall 6/14/2000	0002-1456 B13 Sidewall 6/14/2000	0002-1491 C11 Floor 7/11/2000	0002-1663 J10 Floor 9/14/2000	0002-2295 A2 Floor 3/27/2001
Analyte	Units	Cleanup Goals					
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA	NA	-0 033
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0 26	0 39	0 34	0 58	NA
LEAD-214	pCi/g	NE	NA	0 3 U	NA	0 46	NA
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	8 5	7	8 1	9 9	9 4
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	0 088	0 12	NA	0 14	NA
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1552	0002-1553	0002-1567	0002-1568	0002-1569	0002-1664	0002-1665	0002-1666	0002-1667 (FD)	0002-1668	0002-1669	0002-1670	0002-1882	0002-1883	0002-1884
Sample Location			J16 Floor	J19 Floor	PWC Sidewall 1	PWC Sidewall 2	PWC Sidewall 3	M19 Floor	M16 Floor	P17 Floor	P17 Floor	P17 Sidewall	M19 Sidewall	J19 Sidewall	J13 Floor	M13 Floor	P11 Floor
Sample Date			8/3/2000	8/3/2000	8/8/2000	8/8/2000	8/8/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	12/6/2000	12/6/2000	12/6/2000
Analyte	**Units**	**Cleanup Goals**															
Metals																	
HEXAVALENT CHROMIUM	mg/kg	0.2	0.23 U	0.3	0.3	0.4	0.4	1.4	0.2	0.4	0.4	0.3	0.3	0.3	0.2 J	2.7	0.23 U
ANTIMONY	mg/kg	NE	5.7 U	5.5 U	5.9 U	5.6 U	6.5 U	5.7 U	5.6 U	5.8 U	5.9 U	5.6 U	5.4 U	5.6 U	0.33 J	5.8 U	5.8 U
ARSENIC	mg/kg	9.05	1.7	0.81	1.8	1.3	3.3	2.2	1.3	1.5	1.5	1.7	2.1	1.3	0.94	1.8	0.35 U
BARIUM	mg/kg	NE	130	56.2	67.9	101	83.7	128	57.2	60.9	62.6	17.7	23.1	10.8	78.8	19.1	49.5
BERYLLIUM	mg/kg	NE	0.23 U	0.22 U	0.24 U	0.22 U	0.26 U	0.23 U	0.22 U	0.23 U	0.24 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U
CADMIUM	mg/kg	NE	0.23 U	0.22 U	0.12 J	0.22 U	0.093 J	0.23 U	0.22 U	0.23 U	0.24 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U
CHROMIUM	mg/kg	NE	19.3	6.9	11.8	12	21.1	13.6	8.3	10	10	5.9	4.6	5.2	14.2	5.3	8.2
COBALT	mg/kg	NE	11.6	4.5	6.1	8.3	9.4	12.3	4.7	5.1	6.1	2.5	2.1	2.2	6	2.4	3.3
COPPER	mg/kg	NE	15.7	5.8	27	12.1	22.7	13.3 J	11 J	7.1 J	7.1 J	2.4 J	1.4 J	2.7 J	85.2	2.4	3.6
LEAD	mg/kg	130	9	1.3	52.4	2.2	12.4	3.5	3.7	1.5 J	1.6	0.89 J	0.65 J	0.81 J	15.4	1	1.3
MERCURY	mg/kg	NE	0.23 U	0.22 U	0.15 J	0.058 J	0.094 J	0.23 U	0.22 U	0.23 U	0.24 U	0.22 U	0.22 U	0.22 U	0.12 J	0.23 U	0.23 U
MOLYBDENUM	mg/kg	NE	0.23 U	0.22 U	0.24 U	0.22 U	0.26 U	0.23 U	0.22 U	0.23 U	0.24 U	0.22 U	0.41	0.22 U	0.23 U	0.23 U	0.23 U
NICKEL	mg/kg	NE	8.5	2.7	6.1	5.5	8.9	6.8	3.1	4	4	1.8	1.4	2.1	7.6	1.8	2.5
SELENIUM	mg/kg	NE	0.57 U	0.55 U	0.59 U	0.56 U	0.65 U	0.57 U	0.56 U	0.25 J	0.24 J	0.56 U	0.54 U	0.56 U	0.57 U	0.58 U	0.58 U
SILVER	mg/kg	NE	0.57 U	0.55 U	0.59 U	0.56 U	0.65 U	0.14 J	0.11 J	0.099 J	0.099 J	0.091 J	0.13 J	0.56 U	0.57 U	0.58 U	0.58 U
THALLIUM	mg/kg	NE	0.57 U	0.55 U	0.59 U	0.56 U	0.65 U	0.57 U	0.56 U	0.58 U	0.59 U	0.56 U	0.54 U	0.56 U	0.57 U	0.58 U	0.58 U
VANADIUM	mg/kg	NE	58.6	26.7	39.9	49.2	56.5	51.6	26.2	33.6	35.8	18.1	8.9	17.9	44.4	14.2	26.1
ZINC	mg/kg	NE	40.7	11.5	49.5	24	50.2	25.6 J	16.2 J	13.6 J	15.3 J	6.6 J	6 J	5.4 J	58.7	7.5	10.2
Total Petroleum Hydrocarbons																	
DIESEL	mg/kg	NE	14 J	11 UJ	49 J	11 U	170 J	11 U	16	12 U	12 U	1 J	2 J	11 U	7700	3 J	12 U
MOTOR OIL	mg/kg	NE	59 J	11 UJ	53 J	11 U	340 J	2 J	30	12 U	12 U	11 U	8 J	11 U	2000	12 U	4 J
SPLP DIESEL	mg/L	NE	0.4 J	1 J	0.5 U	0.5 U	3.1 J	0.1 J	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	1.2	63	0.5 U	0.04 J
SPLP MOTOR OIL	mg/L	NE	0.4 J	0.5 UJ	0.5 U	0.5 U	2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	17 J	0.06 J	0.03 J
Pesticides																	
4,4'-DDD	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	2.6 UJ	2.3 U	2.2 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
4,4'-DDE	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	2.6 UJ	2.3 U	2.2 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
4,4'-DDT	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	2.6 UJ	2.3 U	2.2 U	3	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
ALDRIN	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
ALPHA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.7 U	1.2 U	1.2 U
BETA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
CHLORDANE	µg/kg	NE	57 U	55 U	59 UJ	56 UJ	65 UJ	57 U	56 U	58 U	59 U	56 U	54 U	56 U	NA	NA	NA
DELTA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
DIELDRIN	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	2.6 UJ	2.3 U	2.2 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
ENDOSULFAN I	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
ENDOSULFAN II	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	0.6 J	2.3 U	2.2 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
ENDOSULFAN SULFATE	µg/kg	NE	5.7 U	5.5 U	5.9 U	5.6 U	6.5 UJ	5.7 U	5.6 U	5.8 U	5.9 U	5.6 U	5.4 U	5.6 U	28 U	5.8 U	5.8 U
ENDRIN	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	2.6 UJ	0.8 J	2.2 U	3	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
ENDRIN ALDEHYDE	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	6.1 J	2.3 U	2.2 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
ENDRIN KETONE	µg/kg	NE	2.3 U	2.2 U	2.4 U	2.2 U	7.6 J	2.3 U	2.2 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	11 U	2.3 U	2.3 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.7 U	1.2 U	1.2 U
HEPTACHLOR	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.1 U	1.1 U	1.2 U	1.1 U	1.3 UJ	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	5.7 U	1.2 U	1.2 U
METHOXYCHLOR	µg/kg	NE	11 U	11 U	12 U	11 U	13 UJ	11 U	11 U	2 J	12 U	11 U	11 U	11 U	57 U	12 U	12 U
TOXAPHENE	µg/kg	NE	110 UJ	110 UJ	120 UJ	110 UJ	130 UJ	110 U	110 U	120 U	120 U	110 U	110 U	110 U	570 U	120 U	120 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1552	0002-1553	0002-1567	0002-1568	0002-1569	0002-1664	0002-1665	0002-1666	0002-1667 (FD)	0002-1668	0002-1669	0002-1670	0002-1882	0002-1883	0002-1884
Sample Location			J16 Floor	J19 Floor	PWC Sidewall 1	PWC Sidewall 2	PWC Sidewall 3	M19 Floor	M16 Floor	P17 Floor	P17 Floor	P17 Sidewall	M19 Sidewall	J19 Sidewall	J13 Floor	M13 Floor	P11 Floor
Sample Date			8/3/2000	8/3/2000	8/8/2000	8/8/2000	8/8/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	12/6/2000	12/6/2000	12/6/2000
Analyte	Units	Cleanup Goals															
Polychlorinated Biphenyls																	
AROCLOR 1016	µg/kg	NE	57 U	55 U	59 U	56 U	65 U	57 U	280 U	58 U	59 U	56 U	54 U	56 U	57 U	58 U	58 U
AROCLOR 1221	µg/kg	NE	110 U	110 U	120 U	110 U	130 U	110 U	560 U	120 U	120 U	110 U	110 U	110 U	110 U	120 U	120 U
AROCLOR 1232	µg/kg	NE	57 U	55 U	59 U	56 U	65 U	57 U	280 U	58 U	59 U	56 U	54 U	56 U	57 U	58 U	58 U
AROCLOR 1242	µg/kg	NE	57 U	55 U	59 U	56 U	65 U	57 U	280 U	58 U	59 U	56 U	54 U	56 U	57 U	58 U	58 U
AROCLOR 1248	µg/kg	NE	57 U	55 U	59 U	56 U	65 U	57 U	280 U	58 U	59 U	56 U	54 U	56 U	57 U	58 U	58 U
AROCLOR 1254	µg/kg	NE	28 U	27 U	30 U	28 U	32 U	28 U	140 U	29 U	30 U	28 U	27 U	28 U	28 U	29 U	29 U
AROCLOR 1260	µg/kg	NE	28 U	27 U	30 U	28 U	32 U	28 U	3440	29 U	30 U	28 U	100	28 U	28 U	29 U	29 U
Volatile Organic Compounds																	
1 1 1-TRICHLOROETHANE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6.3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5 3 U	4.4 U	5 6 U	5 3 U
1 1 2 2-TETRACHLOROETHANE	µg/kg	NE	5 6 U	5 3 U	7.1 U	6 3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5.6 U	5 3 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	5 6 U	5 3 U	7.1 U	6 3 U	6 2 U	6 U	5.2 U	5 5 U	5 U	5.6 U	7.1 U	5.3 U	4 4 U	5.6 U	5 3 U
1 1-DICHLOROETHANE	µg/kg	NE	5.6 U	5.3 U	7.1 U	6.3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5.3 U	4 4 U	5.6 U	5 3 U
1,1-DICHLOROETHENE	µg/kg	NE	5 6 U	5 3 U	7.1 U	6.3 U	6.2 U	6 U	5.2 U	5 5 U	5 U	5.6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
1 2-DICHLOROETHANE	µg/kg	NE	5.6 U	5 3 U	7 1 U	6.3 U	6 2 U	6 U	5 2 U	5.5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
1 2-DICHLOROPROPANE	µg/kg	NE	5.6 U	5.3 U	7.1 U	6.3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5.3 U
2-BUTANONE	µg/kg	NE	110 U	110 U	140 U	130 U	120 U	120 U	100 U	110 U	100 U	110 U	140 U	110 U	89 U	110 U	110 U
2-HEXANONE	µg/kg	NE	56 U	53 U	71 U	63 U	62 U	60 U	52 U	55 U	50 U	56 U	71 U	53 U	44 U	56 U	53 U
4-METHYL-2-PENTANONE	µg/kg	NE	56 U	53 U	71 U	63 U	62 U	60 U	52 U	55 U	50 U	56 U	71 U	53 U	44 U	56 U	53 U
ACETONE	µg/kg	NE	110 U	110 U	140 U	130 U	120 U	120 U	100 U	110 U	100 U	110 U	140 U	110 U	22 J	110 U	110 U
BENZENE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6 3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5.3 U	42 J	5.6 U	5 3 U
BROMODICHLOROMETHANE	µg/kg	NE	5.6 U	5.3 U	7 1 U	6.3 U	6 2 U	6 U	5.2 U	5 5 U	5 U	5 6 U	7.1 U	5.3 U	4 4 U	5.6 U	5 3 U
BROMOFORM	µg/kg	NE	5 6 U	5 3 U	7.1 U	6 3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5.6 U	7 1 U	5.3 U	4 4 U	5.6 U	5 3 U
BROMOMETHANE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6.3 U	6.2 U	6 U	5.2 U	5 5 U	5 U	5.6 U	7 1 U	5.3 U	4 4 U	5.6 U	5.3 U
CARBON DISULFIDE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6.3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5.3 U	07 J	5 6 U	5 3 U
CARBON TETRACHLORIDE	µg/kg	NE	5 6 U	5 3 U	7.1 U	6 3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
CHLOROBENZENE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6 3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	120 J	5 6 U	5 3 U
CHLOROETHANE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6 3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5 3 U	4 4 U	5.6 U	5 3 U
CHLOROFORM	µg/kg	NE	5 6 U	5 3 U	7 1 U	6 3 U	6 2 U	6 U	5.2 U	5 5 U	5 U	5 6 U	7.1 U	5 3 U	4 4 U	5.6 U	5.3 U
CHLOROMETHANE	µg/kg	NE	5.6 U	5 3 U	7 1 U	6 3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5.6 U	5 3 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	5.6 U	5 3 U	7.1 U	6.3 U	6 2 U	6 U	5.2 U	5.5 U	5 U	5.6 U	7.1 U	5 3 U	4 4 U	5.6 U	5 3 U
CIS-1 3-DICHLOROPROPENE	µg/kg	NE	5 6 U	5 3 U	7.1 U	6 3 U	6 2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5 3 U	4 4 U	5 6 U	5 3 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5.6 U	5 3 U	7 1 U	6 3 U	6 2 U	6 U	5.2 U	5 5 U	5 U	5 6 U	7.1 U	5 3 U	4 4 U	5 6 U	5 3 U
ETHYLBENZENE	µg/kg	NE	5.6 U	5 3 U	7 1 U	6.3 U	6.2 U	6 U	5.2 U	5 5 U	5 U	5.6 U	7.1 U	5.3 U	34 J	5 6 U	5 3 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	11 U	14 U	13 U	12 U	12 U	10 U	11 U	10 U	11 U	14 U	11 U	8 9 U	11 U	11 U
METHYLENE CHLORIDE	µg/kg	NE	0 6 J	5 3 U	7 1 U	6 3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
STYRENE	µg/kg	NE	5.6 U	5 3 U	7 1 U	6.3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5.3 U
TETRACHLOROETHENE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6.3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
TOLUENE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6 3 U	6.2 U	6 U	5.2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
TRANS-1 2-DICHLOROETHENE	µg/kg	NE	5 6 U	5.3 U	7 1 U	6 3 U	6 2 U	6 U	5.2 U	5.5 U	5 U	5 6 U	7.1 U	5.3 U	4 4 U	5 6 U	5 3 U
TRANS-1.3-DICHLOROPROPENE	µg/kg	NE	5 6 U	5 3 U	7 1 U	6 3 U	6.2 U	6 U	5 2 U	5 5 U	5 U	5 6 U	7.1 U	5 3 U	4 4 U	5.6 U	5 3 U
TRICHLOROETHENE	µg/kg	NE	5.6 U	5.3 U	7.1 U	6 3 U	6 2 U	6 U	5.2 U	5 5 U	5 U	5 6 U	7 1 U	5 3 U	4 4 U	5 6 U	5 3 U
VINYL ACETATE	µg/kg	NE	56 U	53 U	71 U	63 U	62 U	60 U	52 U	55 U	50 U	56 U	71 U	53 U	44 U	56 U	53 U
VINYL CHLORIDE	µg/kg	NE	5.6 U	5.3 U	7.1 U	6 3 U	6 2 U	6 U	5.2 U	5 5 U	5 U	5 6 U	7 1 U	5.3 U	4 4 U	5 6 U	5 3 U
XYLENES (TOTAL)	µg/kg	NE	17 U	16 U	21 U	19 U	19 U	18 U	16 U	17 U	15 U	17 U	21 U	16 U	2 J	17 U	16 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1552	0002-1553	0002-1567	0002-1568	0002-1569	0002-1664	0002-1665	0002-1666	0002-1667 (FD)	0002-1668	0002-1669	0002-1670	0002-1882	0002-1883	0002-1884
Sample Location			J16 Floor	J19 Floor	PWC Sidewall 1	PWC Sidewall 2	PWC Sidewall 3	M19 Floor	M16 Floor	P17 Floor	P17 Floor	P17 Sidewall	M19 Sidewall	J19 Sidewall	J13 Floor	M13 Floor	P11 Floor
Sample Date			8/3/2000	8/3/2000	8/8/2000	8/8/2000	8/8/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	12/6/2000	12/6/2000	12/6/2000
Analyte	Units	Cleanup Goals															
Semivolatile Organic Compounds																	
1 2 4-TRICHLOROBENZENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
1.2-DICHLOROBENZENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
1 3-DICHLOROBENZENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
1.4-DICHLOROBENZENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	350 J	390 U	380 U
2.4 5-TRICHLOROPHENOL	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
2 4 6-TRICHLOROPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2.4-DICHLOROPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2.4-DIMETHYLPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2.4-DINITROPHENOL	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
2.4-DINITROTOLUENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2.6-DINITROTOLUENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2-CHLORONAPHTHALENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2-CHLOROPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2-METHYLPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
2-NITROANILINE	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
2-NITROPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
3 3'-DICHLOROBENZIDINE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
3-NITROANILINE	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
4.6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
4-CHLOROANILINE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
4-NITROANILINE	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
4-NITROPHENOL	µg/kg	NE	1800 U	1800 U	1900 U	1800 U	8300 U	1800 U	1800 U	1800 U	1900 U	1800 U	1700 U	1800 U	7300 U	1900 U	1900 U
ACENAPHTHENE	µg/kg	NE	28 U	27 U	30 U	28 U	23 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	2100	29 U	29 U
ACENAPHTHYLENE	µg/kg	NE	28 U	27 U	30 U	28 U	65 U	28 U	28 U	29 U	30 U	28 U	27 U	28 U	1200	29 U	29 U
ANTHRACENE	µg/kg	6100	28 U	27 U	30 U	28 U	65 U	28 U	28 U	29 U	30 U	28 U	27 U	28 U	850	29 U	29 U
BENZ[A]ANTHRACENE	µg/kg	560	28 U	27 U	20 J	5 J	65 U	28 U	7 J	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
BENZO[A]PYRENE	µg/kg	56	7 J	27 U	12 J	28 U	16 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
BENZO[B]FLUORANTHENE	µg/kg	560	11 J	27 U	22 J	28 U	25 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
BENZO[G.H.I]PERYLENE	µg/kg	NE	6 J	27 U	6 J	28 U	10 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
BENZO[K]FLUORANTHENE	µg/kg	610	28 U	27 U	30 U	28 U	65 U	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
CHRYSENE	µg/kg	6100	29	27 U	25 J	28 U	77	28 U	28 U	29 U	30 U	28 U	27 U	28 U	800	29 U	29 U
DIBENZ[A H]ANTHRACENE	µg/kg	56	28 U	27 U	30 U	28 U	65 U	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
DIBENZOFURAN	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
DIETHYL PHTHALATE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
DIMETHYL PHTHALATE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
FLUORANTHENE	µg/kg	NE	15 J	27 U	39	28 U	38 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
FLUORENE	µg/kg	NE	28 U	27 U	5 J	28 U	28 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	5900	29 U	29 U
HEXACHLOROBENZENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
HEXACHLOROBUTADIENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1552	0002-1553	0002-1567	0002-1568	0002-1569	0002-1664	0002-1665	0002-1666	0002-1667 (FD)	0002-1668	0002-1669	0002-1670	0002-1882	0002-1883	0002-1884
Sample Location			J16 Floor	J19 Floor	PWC Sidewall 1	PWC Sidewall 2	PWC Sidewall 3	M19 Floor	M16 Floor	P17 Floor	P17 Floor	P17 Sidewall	M19 Sidewall	J19 Sidewall	J13 Floor	M13 Floor	P11 Floor
Sample Date			8/3/2000	8/3/2000	8/8/2000	8/8/2000	8/8/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	12/6/2000	12/6/2000	12/6/2000
Analyte	Units	Cleanup Goals															
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
HEXACHLOROETHANE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	6 J	27 U	30 U	28 U	65 U	28 U	28 U	29 U	30 U	28 U	27 U	28 U	570 U	29 U	29 U
NAPHTHALENE	µg/kg	NE	28 U	27 U	30 U	28 U	65 U	28 U	28 U	310	30 U	17 J	27 U	28 U	1300	29 U	29 U
NITROBENZENE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
PENTACHLOROPHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
PHENANTHRENE	µg/kg	NE	9 J	27 U	31	28 U	50 J	28 U	28 U	29 U	30 U	28 U	27 U	28 U	4800	29 U	29 U
PHENOL	µg/kg	NE	370 U	360 U	390 U	370 U	1700 U	370 U	370 U	380 U	390 U	370 U	360 U	370 U	1500 U	390 U	380 U
PYRENE	µg/kg	NE	17 J	27 U	43	28 U	76	28 U	28 U	29 U	30 U	28 U	27 U	28 U	920	29 U	29 U
Organotin																	
DIBUTYLTIN	µg/kg	NE	5.7 U	5.5 U	5.9 U	5.6 U	6.5 U	5.7 U	5.6 U	5.8 U	5.9 U	5.6 U	5.4 U	5.6 U	170 U	18 U	17 U
MONOBUTYLTIN	µg/kg	NE	5.7 U	5.5 U	5.9 U	5.6 U	6.5 U	5.7 U	5.6 U	5.8 U	5.9 U	5.6 U	5.4 U	5.6 U	170 U	18 U	17 U
TETRABUTYLTIN	µg/kg	NE	5.7 U	5.5 U	5.9 U	5.6 U	6.5 U	5.7 U	5.6 U	5.8 U	5.9 U	5.6 U	5.4 U	5.6 U	170 U	18 U	17 U
TRIBUTYLTIN	µg/kg	NE	5.7 U	5.5 U	5.9 U	5.6 U	6.5 U	5.7 U	5.6 U	5.8 U	5.9 U	5.6 U	5.4 U	5.6 U	170 U	18 U	17 U
Dioxins and Furans																	
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	122	3.4 J	5.2 J	42.7	23.3 J	57.6 J	344 J	2.4 J	0.8 UJ	10.9	18.5 J	2.4 J	246 J	2.1 U	0.9 J
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	3.1 J	0.9 U	0.3 U	1.8 J	5.4 J	1 UJ	29.1 J	0.7 UJ	9.9 J	0.79 J	1.2 J	0.6 UJ	81.6 UJ	1.5 U	1.1 U
1,2,3,4,6,7,8-HPCDD	pg/g	NE	9.7	0.8 U	1.1 J	4 J	3.6 J	5.1	40.9	0.5 U	0.4 U	0.9 J	2.1 J	0.52 J	64 UJ	1.4 U	1 U
1,2,3,4,6,7,8-HPCDF	pg/g	NE	3.3 J	0.5 U	0.92 J	2 J	0.37 J	0.4 U	11.9 J	0.3 U	1.5 J	0.2 U	0.64 J	0.2 U	32 U	1.2 J	0.84 J
1,2,3,4,7,8,9-HPCDF	pg/g	NE	0.8 U	0.7 U	0.2 U	0.2 U	0.3 U	0.6 U	4.7 J	0.4 U	0.3 U	0.2 U	0.2 U	0.3 U	46.1 U	1 U	0.7 U
1,2,3,4,7,8-HXCDD	pg/g	NE	0.6 U	0.5 U	0.2 U	0.33 J	0.2 U	0.4 U	0.4 U	0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	27.2 UJ	0.8 U	0.6 U
1,2,3,4,7,8-HXCDF	pg/g	NE	1.7 J	0.4 U	0.41 J	0.76 J	1.8 J	0.3 U	8.2	0.2 U	0.1 U	0.29 J	0.33 J	0.1 U	16 U	0.71 J	0.65 J
1,2,3,6,7,8-HXCDD	pg/g	NE	0.6 U	0.5 U	0.2 U	0.2 U	0.2 U	0.4 U	0.99 J	0.3 U	0.2 U	0.2 U	0.2 U	0.2 U	25.9 UJ	0.8 U	0.6 U
1,2,3,6,7,8-HXCDF	pg/g	NE	0.4 U	0.3 U	0.1 U	0.37 J	0.53 J	0.3 U	1.3 J	0.2 U	0.1 U	0.1 U	0.09 U	0.1 U	15.3 U	0.5 U	0.34 J
1,2,3,7,8,9-HXCDD	pg/g	NE	0.6 U	0.5 U	0.2 U	0.2 U	0.2 U	0.4 U	1.5 J	0.3 U	0.2 U	0.2 U	0.2 U	0.12 J	26.4 UJ	0.8 U	0.6 U
1,2,3,7,8,9-HXCDF	pg/g	NE	0.6 U	0.4 U	0.1 U	0.1 U	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	21.2 U	0.7 U	0.5 U
1,2,3,7,8-PECDD	pg/g	NE	0.5 U	0.4 U	0.2 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.1 U	0.2 U	0.1 U	0.2 U	15.4 UJ	0.8 U	0.6 U
1,2,3,7,8-PECDF	pg/g	NE	0.4 U	0.3 U	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	12.1 U	0.5 U	0.4 U
2,3,4,6,7,8-HXCDF	pg/g	NE	1.3 J	0.4 U	0.1 U	0.48 J	1.5 J	0.3 U	1.3 J	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	17.1 U	0.6 U	0.4 U
2,3,4,7,8-PECDF	pg/g	NE	0.82 J	0.3 U	0.1 U	0.1 U	0.43 J	0.2 U	2.7 J	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	12.2 U	0.5 U	0.4 U
2,3,7,8-TCDD	pg/g	NE	0.4 U	0.4 U	0.2 U	0.1 U	0.2 U	0.3 U	0.3 U	0.2 U	0.1 U	0.2 U	0.1 U	0.2 U	8.8 UJ	0.6 U	0.4 U
2,3,7,8-TCDF	pg/g	NE	0.4 U	0.4 U	0.1 U	0.96 J	0.93 J	0.3 U	2.1	0.2 U	0.1 U	0.1 U	0.07 U	0.1 U	6.2 UJ	0.4 U	0.3 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	9.65E-07	3.40E-09	6.64E-08	3.95E-07	7.59E-07	1.09E-07	3.84E-06	2.40E-09	2.49E-08	4.97E-08	8.01E-08	1.96E-08	2.46E-07	8.30E-08	1.08E-07
Radiochemistry																	
GROSS ALPHA	pCi/g	NE	8	2.2	9.6	11	10	6.7	5.3	-0.84	7.1	0.85	6.7	1.6	4.8 J	3.9 J	2.2 J
GROSS BETA	pCi/g	NE	14	11	11	13	23	15	17	8.2	9	15	18	7.8	17 J	12 J	8 J
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	0.94	NA	NA	0.79	NA	0.56	0.27	0.28	0.42	0.61	0.34	0.24	0.8	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	0.76	0.2 U	0.4	0.41	0.3 U	0.59	0.53	0.41	0.47	0.4	0.37	0.3	0.72	0.37	0.32
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1552	0002-1553	0002-1567	0002-1568	0002-1569	0002-1664	0002-1665	0002-1666	0002-1667 (FD)	0002-1668	0002-1669	0002-1670	0002-1882	0002-1883	0002-1884
Sample Location			J16 Floor	J19 Floor	PWC Sidewall 1	PWC Sidewall 2	PWC Sidewall 3	M19 Floor	M16 Floor	P17 Floor	P17 Floor	P17 Sidewall	M19 Sidewall	J19 Sidewall	J13 Floor	M13 Floor	P11 Floor
Sample Date			8/3/2000	8/3/2000	8/8/2000	8/8/2000	8/8/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	9/14/2000	12/6/2000	12/6/2000	12/6/2000
Analyte	Units	Cleanup Goals															
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0.91	0.37	0.7	0.76	0.91	0.41	0.4	0.36	0.47	0.67	0.39	0.29	0.84	0.42	0.46
LEAD-214	pCi/g	NE	0.79	0.2 U	0.41	0.49	0.3 U	0.53	0.45	0.58	0.51	0.59	0.34	0.33	0.8	0.44	0.39
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	15	11	11	11	15	8.1	7.7	10	11	12	9.5	9.8	17	14	11
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	0.25	0.15	0.21	0.25	0.36	0.16	0.11	0.15	0.15	NA	0.12	0.094	0.26	0.17	0.15
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1885 (FD)	0002-1886	0002-1887	0002-1888 (2)	0002-2141	0002-2168	0002-2171	0002-2174	0002-2292	0002-2293
Sample Location			P11 Floor	P14 Floor	P14 Sidewall	P11 Sidewall	M10 Floor	P8 NE Floor	Q8 E Sidewall	P8 Floor	Q10 Sidewall	P11 Sidewall
Sample Date			12/6/2000	12/6/2000	12/6/2000	12/6/2000	2/22/2001	3/8/2001	3/8/2001	3/8/2001	3/27/2001	3/27/2001
Analyte	**Units**	**Cleanup Goals**										
Metals												
HEXAVALENT CHROMIUM	mg/kg	0.2	0.23 U	0.25 U	0.21 U	0.3	0.3	0.5	5	0.25 U	0.22 U	2
ANTIMONY	mg/kg	NE	5.8 U	0.31 J	5.3 U	0.81 J	6 U	5.9 U	5.4 U	6.2 U	5.4 U	5.2 U
ARSENIC	mg/kg	9.05	0.46 J	1.5	1.7	2.6	2	1.4	2.6	0.74	0.98	1.9
BARIUM	mg/kg	NE	38.2	112 J	12.2	62.9	34.9	19.2	87.6	24.4	26.1	28.7
BERYLLIUM	mg/kg	NE	0.23 U	0.25 U	0.21 U	0.21 U	0.24 U	0.24 U	0.22 U	0.25 U	0.22 U	0.21 U
CADMIUM	mg/kg	NE	0.23 U	0.094 J	0.21 U	0.11 J	0.24 U	0.24 U	0.52	0.25 U	0.22 U	0.21 U
CHROMIUM	mg/kg	NE	6	13.5	5.2	13.7	15.3	4.5	34.9	4.4	6.1	6.5
COBALT	mg/kg	NE	2.4	9.1 J	2.2	5.4	3.7	2	6.7	2	3	3
COPPER	mg/kg	NE	2.7	12.5	1.4	79.1	3.6	7.5 J	596 J	4.4 J	3.4 J	4.4 J
LEAD	mg/kg	130	1	3.3	0.92	49.9	1.2	2	114	1.2	1.2	1.6
MERCURY	mg/kg	NE	0.23 U	0.25 U	0.21 U	0.21 U	0.24 U	0.084 J	1.6	0.094 J	0.22 U	0.21 U
MOLYBDENUM	mg/kg	NE	0.23 U	0.25 U	0.21 U	0.21 U	0.24 U	0.24 U	0.22 U	0.25 U	0.22 U	0.21 U
NICKEL	mg/kg	NE	1.8	6.4 J	1.5	7.4	3.1	1.3 J	7 J	1.3 J	2.2	2.7
SELENIUM	mg/kg	NE	0.58 U	0.62 U	0.53 U	0.53 U	0.6 U	0.59 U	0.54 U	0.62 U	0.54 U	0.52 U
SILVER	mg/kg	NE	0.58 U	0.62 U	0.53 U	0.53 U	0.6 U	0.59 U	0.54 U	0.62 U	0.54 U	0.52 U
THALLIUM	mg/kg	NE	0.58 U	0.62 U	0.53 U	0.53 U	0.6 U	0.59 U	0.54 U	0.62 U	0.54 U	0.52 U
VANADIUM	mg/kg	NE	21.9	52.8	12.9	31.2	48.1	15.4	36.4	14.4	22.9	25.8
ZINC	mg/kg	NE	7.5	25.4 J	7.4	130	9.5	9.4 J	438 J	7.5 J	8.8 J	9.5 J
Total Petroleum Hydrocarbons												
DIESEL	mg/kg	NE	2 J	12 U	11 U	13	18	9 J	18	6 J	11 U	10 U
MOTOR OIL	mg/kg	NE	27	19	11 U	62	3 J	3 J	74	8 J	11 U	10 U
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.3 J	12 J	0.5 U	0.4 J	0.5 U	0.5 UJ	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.4 J	5 U	0.5 U	2	0.5 U	0.5 UJ	0.5 U
Pesticides												
4,4'-DDD	µg/kg	NE	2.3 U	2.5 U	2.1 U	3 J	2.4 U	2.4 U	2 J	2.5 U	2.2 U	2.1 U
4,4'-DDE	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	3	2.5 U	2.2 U	2.1 U
4,4'-DDT	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	11	2.5 U	2.2 U	2.1 U
ALDRIN	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
ALPHA-BHC	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
ALPHA-CHLORDANE	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
CHLORDANE	µg/kg	NE	NA	NA	NA	NA	60 U	59 U	54 U	62 U	54 U	52 U
DELTA-BHC	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
DIELDRIN	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	2.2 U	2.5 U	2.2 U	2.1 U
ENDOSULFAN I	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
ENDOSULFAN II	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	2.2 U	2.5 U	2.2 U	2.1 U
ENDOSULFAN SULFATE	µg/kg	NE	5.8 U	6.2 U	5.3 U	5.3 U	6 U	5.9 U	5.4 U	6.2 U	5.4 U	5.2 U
ENDRIN	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	2.2 U	2.5 U	2.2 U	2.1 U
ENDRIN ALDEHYDE	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	2.2 U	2.5 U	2.2 U	2.1 U
ENDRIN KETONE	µg/kg	NE	2.3 U	2.5 U	2.1 U	2.1 U	2.4 U	2.4 U	2.2 U	2.5 U	2.2 U	2.1 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
GAMMA-CHLORDANE	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	1 U
METHOXYCHLOR	µg/kg	NE	12 U	12 U	11 U	11 U	12 UJ	12 U	11 U	12 U	11 U	10 U
TOXAPHENE	µg/kg	NE	120 U	120 U	110 U	110 U	120 U	120 U	110 U	120 U	110 U	100 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number Sample Location Sample Date			0002-1885 (FD) P11 Floor 12/6/2000	0002-1886 P14 Floor 12/6/2000	0002-1887 P14 Sidewall 12/6/2000	0002-1888 (2) P11 Sidewall 12/6/2000	0002-2141 M10 Floor 2/22/2001	0002-2168 P8 NE Floor 3/8/2001	0002-2171 Q8 E Sidewall 3/8/2001	0002-2174 P8 Floor 3/8/2001	0002-2292 Q10 Sidewall 3/27/2001	0002-2293 P11 Sidewall 3/27/2001
Analyte	**Units**	**Cleanup Goals**										
Polychlorinated Biphenyls												
AROCLOR 1016	µg/kg	NE	58 U	62 U	53 U	53 U	60 U	59 U	54 U	62 U	54 U	52 U
AROCLOR 1221	µg/kg	NE	120 U	120 U	110 U	110 U	120 U	120 U	110 U	120 U	110 U	100 U
AROCLOR 1232	µg/kg	NE	58 U	62 U	53 U	53 U	60 U	59 U	54 U	62 U	54 U	52 U
AROCLOR 1242	µg/kg	NE	58 U	62 U	53 U	53 U	60 U	59 U	54 U	62 U	54 U	52 U
AROCLOR 1248	µg/kg	NE	58 U	62 U	53 U	53 U	60 U	59 U	54 U	62 U	54 U	52 U
AROCLOR 1254	µg/kg	NE	29 U	31 U	27 U	27 U	30 U	29 U	27 U	31 U	27 U	26 U
AROCLOR 1260	µg/kg	NE	29 U	31 U	27 U	27 U	30 U	29 U	63	31 U	27 U	26 U
Volatile Organic Compounds												
1.1.1-TRICHLOROETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
1.1.2.2-TETRACHLOROETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
1.1.2-TRICHLOROETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
1.1-DICHLOROETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
1.1-DICHLOROETHENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
1.2-DICHLOROETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
1.2-DICHLOROPROPANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
2-BUTANONE	µg/kg	NE	110 U	110 U	130 U	130 U	580 J	120 U	93 U	120 U	120 U	100 U
2-HEXANONE	µg/kg	NE	53 U	53 U	64 U	64 U	6000 UJ	58 U	46 U	62 U	60 U	52 U
4-METHYL-2-PENTANONE	µg/kg	NE	53 U	53 U	64 U	64 U	6000 UJ	58 U	46 U	62 U	60 U	52 U
ACETONE	µg/kg	NE	110 U	110 U	130 U	130 U	12000 UJ	120 U	93 U	120 U	120 U	100 U
BENZENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
BROMODICHLOROMETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
BROMOFORM	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
BROMOMETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CARBON DISULFIDE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CARBON TETRACHLORIDE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CHLOROBENZENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CHLOROETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CHLOROFORM	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CHLOROMETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CIS-1.2-DICHLOROETHENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
CIS-1.3-DICHLOROPROPENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
ETHYLBENZENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	200 J	5.8 U	4.6 U	6.2 U	6 U	5.2 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	11 U	13 U	13 U	1200 UJ	12 U	9.3 U	12 U	12 U	10 U
METHYLENE CHLORIDE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
STYRENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
TETRACHLOROETHENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
TOLUENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
TRANS-1.2-DICHLOROETHENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
TRANS-1.3-DICHLOROPROPENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
TRICHLOROETHENE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
VINYL ACETATE	µg/kg	NE	53 U	53 U	64 U	64 U	6000 UJ	58 U	46 U	62 U	60 U	52 U
VINYL CHLORIDE	µg/kg	NE	5.3 U	5.3 U	6.4 U	6.4 U	600 UJ	5.8 U	4.6 U	6.2 U	6 U	5.2 U
XYLENES (TOTAL)	µg/kg	NE	16 U	16 U	19 U	19 U	1800 UJ	17 U	14 U	19 U	18 U	16 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1885 (FD)	0002-1886	0002-1887	0002-1888 (2)	0002-2141	0002-2168	0002-2171	0002-2174	0002-2292	0002-2293
Sample Location			P11 Floor	P14 Floor	P14 Sidewall	P11 Sidewall	M10 Floor	P8 NE Floor	Q8 E Sidewall	P8 Floor	Q10 Sidewall	P11 Sidewall
Sample Date			12/6/2000	12/6/2000	12/6/2000	12/6/2000	2/22/2001	3/8/2001	3/8/2001	3/8/2001	3/27/2001	3/27/2001
Analyte	Units	Cleanup Goals										
Semivolatile Organic Compounds												
1 2,4-TRICHLOROBENZENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
1,2-DICHLOROBENZENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
1 3-DICHLOROBENZENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
1 4-DICHLOROBENZENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2,4 5-TRICHLOROPHENOL	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 U	1700 U	2000 U	1700 U	1700 U
2 4 6-TRICHLOROPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2 4-DICHLOROPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2 4-DIMETHYLPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2 4-DINITROPHENOL	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 U	1700 U	2000 U	1700 U	1700 U
2 4-DINITROTOLUENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2 6-DINITROTOLUENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2-CHLORONAPHTHALENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2-CHLOROPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2-METHYLPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
2-NITROANILINE	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 U	1700 U	2000 U	1700 U	1700 U
2-NITROPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
3 3'-DICHLOROBENZIDINE	µg/kg	NE	390 U	410 U	350 U	350 U	540 U	390 U	360 U	410 U	420 U	410 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
3-NITROANILINE	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 U	1700 U	2000 U	1700 U	1700 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 U	1700 U	2000 U	1700 U	1700 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
4-CHLOROANILINE	µg/kg	NE	390 U	410 U	350 U	350 U	540 U	390 U	360 U	410 U	810 U	790 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
4-NITROANILINE	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 UJ	1700 UJ	2000 UJ	1700 U	1700 U
4-NITROPHENOL	µg/kg	NE	1900 U	2000 U	1700 U	1700 U	1900 U	1900 U	1700 U	2000 U	1700 U	1700 U
ACENAPHTHENE	µg/kg	NE	29 U	31 U	27 U	27 U	30 U	29 U	27 U	31 U	27 U	26 U
ACENAPHTHYLENE	µg/kg	NE	29 U	31 U	27 U	27 U	30 U	29 U	24 J	31 U	27 U	26 U
ANTHRACENE	µg/kg	6100	29 U	31 U	27 U	9 J	30 U	29 U	28	31 U	27 U	26 U
BENZ[A]ANTHRACENE	µg/kg	560	29 U	31 U	27 U	17 J	30 U	29 U	45	31 U	27 U	11 J
BENZO[A]PYRENE	µg/kg	56	29 U	31 U	27 U	21 J	30 U	29 U	48	31 U	27 U	26 U
BENZO[B]FLUORANTHENE	µg/kg	560	29 U	31 U	27 U	53	30 U	29 U	130	31 U	27 U	26 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	29 U	31 U	27 U	26 J	30 U	29 U	61	31 U	27 U	26 U
BENZO[K]FLUORANTHENE	µg/kg	610	29 U	31 U	27 U	27 U	30 U	29 U	44	31 U	27 U	26 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
CHRYSENE	µg/kg	6100	29 U	31 U	27 U	26 J	30 U	29 U	83	31 U	27 U	26 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	29 U	31 U	27 U	14 J	30 U	29 U	27 U	31 U	27 U	26 U
DIBENZOFURAN	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
DIETHYL PHTHALATE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
DIMETHYL PHTHALATE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
FLUORANTHENE	µg/kg	NE	29 U	31 U	27 U	50	30 U	29 U	63	31 U	27 U	26 U
FLUORENE	µg/kg	NE	29 U	31 U	27 U	16 J	25 J	29 U	27 U	31 U	27 U	26 U
HEXACHLOROBENZENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
HEXACHLOROBUTADIENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1885 (FD)	0002-1886	0002-1887	0002-1888 (2)	0002-2141	0002-2168	0002-2171	0002-2174	0002-2292	0002-2293
Sample Location			P11 Floor	P14 Floor	P14 Sidewall	P11 Sidewall	M10 Floor	P8 NE Floor	Q8 E Sidewall	P8 Floor	Q10 Sidewall	P11 Sidewall
Sample Date			12/6/2000	12/6/2000	12/6/2000	12/6/2000	2/22/2001	3/8/2001	3/8/2001	3/8/2001	3/27/2001	3/27/2001
Analyte	**Units**	**Cleanup Goals**										
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	390 U	410 U	350 U	350 U	680 U	390 U	360 U	410 U	420 U	400 U
HEXACHLOROETHANE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
INDENO[1 2 3-CD]PYRENE	µg/kg	560	29 U	31 U	27 U	20 J	30 U	29 U	52	31 U	27 U	26 U
NAPHTHALENE	µg/kg	NE	29 U	31 U	27 U	27 U	10 J	29 U	27 U	31 U	27 U	26 U
NITROBENZENE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	390 U	410 U	350 U	350 U	470 U	390 U	360 U	410 U	660 U	630 U
PENTACHLOROPHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	410 U	380 U	440 U	480 U	460 U
PHENANTHRENE	µg/kg	NE	29 U	31 U	27 U	32	34	29 U	22 J	31 U	27 U	26 U
PHENOL	µg/kg	NE	390 U	410 U	350 U	350 U	400 U	390 U	360 U	410 U	360 U	340 U
PYRENE	µg/kg	NE	29 U	31 U	27 U	45	30 U	29 U	74	31 U	27 U	26 U
Organotin												
DIBUTYLTIN	µg/kg	NE	18 U	19 UJ	16 U	16 U	6 U	12 U	11 U	12 U	11 U	10 U
MONOBUTYLTIN	µg/kg	NE	18 U	19 UJ	16 U	16 U	6 U	12 U	11 U	12 U	11 U	10 U
TETRABUTYLTIN	µg/kg	NE	18 U	19 UJ	16 U	16 U	6 U	12 U	11 U	12 U	11 U	10 U
TRIBUTYLTIN	µg/kg	NE	18 U	19 UJ	16 U	16 U	6 U	12 U	11 U	12 U	11 U	10 U
Dioxins and Furans												
1 2 3 4 6 7 8 9-OCDD	pg/g	NE	1 4 J	10 5 J	1 1 J	1 2 J	1 2 U	26 8 J	527	4 4 J	2 4 J	213
1 2,3 4 6 7 8 9-OCDF	pg/g	NE	1 6 U	0.7 U	0.49 J	0.3 J	0 9 U	3 4 U	24 3	0 4 U	0 35 J	3 6 J
1,2 3,4 6 7 8-HPCDD	pg/g	NE	1 4 U	0 57 J	0 7 U	0 27 J	0 7 U	4 3 J	57 7	0 53 J	0 53 J	30 6
1 2 3 4 6 7 8-HPCDF	pg/g	NE	0 84 J	0.3 U	1 6 J	1 3 J	0 5 U	4 8 J	34 5	0 44 J	0 37 J	7 3
1 2 3,4 7 8 9-HPCDF	pg/g	NE	1 U	0 4 U	0 5 U	0 2 U	0 6 U	1 3 U	1 1 J	0 2 U	0 2 U	0 43 J
1 2 3 4 7 8-HXCDD	pg/g	NE	0 8 U	0 3 U	0 4 U	0 2 U	0 4 U	0 9 U	0 88 J	0 2 U	0 1 U	0 33 J
1 2 3 4 7 8-HXCDF	pg/g	NE	0 65 J	0 2 U	1 J	0 99 J	0 3 U	2 2 J	11 7	0 25 J	0 22 J	2 5 J
1 2 3,6 7 8-HXCDD	pg/g	NE	0 8 U	0 3 U	0 4 U	0 2 U	0 4 U	0 9 U	2 2 J	0 2 U	0 1 U	0 89 J
1 2 3 6 7 8-HXCDF	pg/g	NE	0 5 U	0 2 U	0 54 J	0 4 J	0 3 U	0 6 U	3 9 J	0 1 U	0 23 J	1 1 J
1 2 3 7 8 9-HXCDD	pg/g	NE	0 8 U	0 3 U	0 4 U	0 2 U	0 4 U	0 9 U	2 5 J	0 2 U	0 16 J	1 2 J
1 2 3,7 8 9-HXCDF	pg/g	NE	0 7 U	0 3 U	0 3 U	0 2 U	0 3 U	0 7 U	0 37 J	0 1 U	0 1 U	0 2 U
1 2 3 7 8-PECDD	pg/g	NE	0 7 U	0 3 U	0 4 U	0 2 U	0 4 U	0 8 U	0 63 J	0 1 U	0 1 U	0 31 J
1 2 3 7 8-PECDF	pg/g	NE	0 5 U	0 2 U	0 3 U	0 29 J	0 2 U	0 5 U	1 5 J	0 09 U	0 1 U	0 1 U
2,3 4,6 7 8-HXCDF	pg/g	NE	0 6 U	0 2 U	0 25 J	0 25 J	0 3 U	0 6 U	6 3	0 1 U	0 2 J	1 5 J
2 3 4 7 8-PECDF	pg/g	NE	0 5 U	0 2 U	0 3 U	0 21 J	0 2 U	0 5 U	3 8 J	0 09 U	0 14 J	0 97 J
2 3 7 8-TCDD	pg/g	NE	0 5 U	0 33 J	0 3 U	0 2 U	0 3 U	0 5 U	0 1 U	0 1 U	0 1 U	0 1 U
2 3 7 8-TCDF	pg/g	NE	0 4 U	0 92 J	0 35 J	0 1 U	0 2 U	0 98 J	5 9	0 08 U	0 09 U	1 4
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	7.48E-08	4.38E-07	2.32E-07	3.01E-07	0.00E+00	4.36E-07	7.15E-06	3.91E-08	1.63E-07	2.13E-06
Radiochemistry												
GROSS ALPHA	pCi/g	NE	4 7 J	-3 7 J	4 J	-1 6 J	7 4 J	4 3 J	2 3 U	3 8 U	4 U	2 6 U
GROSS BETA	pCi/g	NE	5.6 J	12 J	12 J	8 J	13	15 2	13 8	16 6	12 2	10 6
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	0 38	0.43	0.38	0 41	NA	NA	NA	NA	NA	NA
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 1B

Sample Number			0002-1885 (FD)	0002-1886	0002-1887	0002-1888 (2)	0002-2141	0002-2168	0002-2171	0002-2174	0002-2292	0002-2293
Sample Location			P11 Floor	P14 Floor	P14 Sidewall	P11 Sidewall	M10 Floor	P8 NE Floor	Q8 E Sidewall	P8 Floor	Q10 Sidewall	P11 Sidewall
Sample Date			12/6/2000	12/6/2000	12/6/2000	12/6/2000	2/22/2001	3/8/2001	3/8/2001	3/8/2001	3/27/2001	3/27/2001
Analyte	Units	Cleanup Goals										
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA	NA	0.014 U	-0.017 U	-0.02 U	-0.041 U	-0.022 U	-0.003 U
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0.5	0.52	0.34	0.33	0.26	0.29	NA	NA	0.244	0.193
LEAD-214	pCi/g	NE	0.4	0.46	0.36	0.35	NA	0.25	NA	NA	0.24	NA
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	13	12	12	11	9.3	10.8	9.1	10.9	8.3	10
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	0.17	0.2	0.13	0.11	NA	NA	NA	NA	NA	NA
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	0.36	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	0.36	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2A

Sample Number Sample Location Sample Date			0002-1405 D5 Floor 6/6/2000	0002-1549 G6 Floor 8/3/2000	0002-1550 G3 Floor 8/3/2000
Analyte	**Units**	**Cleanup Goals**			
Metals					
HEXAVALENT CHROMIUM	mg/kg	0 2	0 4	0 4	0 27 U
ANTIMONY	mg/kg	NE	6 3 U	6 3 U	6.7 U
ARSENIC	mg/kg	9 05	2	4 6	1 6
BARIUM	mg/kg	NE	17 2	111	182
BERYLLIUM	mg/kg	NE	0 25 U	0 25 U	0 27 U
CADMIUM	mg/kg	NE	0 25 U	0 14 J	0 27 U
CHROMIUM	mg/kg	NE	5 3	23 6	23 5
COBALT	mg/kg	NE	3 6	11 2	14
COPPER	mg/kg	NE	3 5	20 9	16 4
LEAD	mg/kg	130	1 5	7 4	2 8
MERCURY	mg/kg	NE	0 25 U	0 25 U	0 27 U
MOLYBDENUM	mg/kg	NE	0 25 U	0 35 J	0 27 U
NICKEL	mg/kg	NE	1 9	10 5	9 8
SELENIUM	mg/kg	NE	2 3	0 63 U	0 67 U
SILVER	mg/kg	NE	0 63 U	0 63 U	0 67 U
THALLIUM	mg/kg	NE	0 63 U	0 63 U	0 67 U
VANADIUM	mg/kg	NE	15	55 3	76 8
ZINC	mg/kg	NE	30.2	51.5	49.7
Total Petroleum Hydrocarbons					
DIESEL	mg/kg	NE	13 U	15 J	7 J
MOTOR OIL	mg/kg	NE	3 J	29 J	3 J
SPLP DIESEL	mg/L	NE	0.5 U	2 4 J	13 J
SPLP MOTOR OIL	mg/L	NE	0.06 J	1.1 J	1 J
Pesticides					
4 4 -DDD	µg/kg	NE	2 5 U	2 5 U	2 7 U
4.4 -DDE	µg/kg	NE	2 5 U	2 5 U	2 7 U
4.4 -DDT	µg/kg	NE	2 5 U	2 5 U	2.7 U
ALDRIN	µg/kg	NE	1 3 U	1 3 U	1 3 U
ALPHA-BHC	µg/kg	NE	1 3 U	1 3 U	1.3 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA
BETA-BHC	µg/kg	NE	1 3 U	1 3 U	1 3 U
CHLORDANE	µg/kg	NE	63 U	63 U	67 U
DELTA-BHC	µg/kg	NE	1 3 U	1 3 U	1 3 U
DIELDRIN	µg/kg	NE	2 5 U	2 5 U	2 7 U
ENDOSULFAN I	µg/kg	NE	1 3 U	1 3 U	1 3 U
ENDOSULFAN II	µg/kg	NE	2 5 U	2 5 U	2.7 U
ENDOSULFAN SULFATE	µg/kg	NE	6 3 U	6 3 U	6 7 U
ENDRIN	µg/kg	NE	2 5 U	2 5 U	2 7 U
ENDRIN ALDEHYDE	µg/kg	NE	2 5 U	2 5 U	2 7 U
ENDRIN KETONE	µg/kg	NE	2 5 U	2 5 U	2 7 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1 3 U	1 3 U	1 3 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1 3 U	1 3 U	1 3 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1 3 U	1 3 U	1 3 U
METHOXYCHLOR	µg/kg	NE	13 U	3 J	13 U
TOXAPHENE	µg/kg	NE	130 U	130 UJ	130 UJ

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2A

Sample Number Sample Location Sample Date			0002-1405 D5 Floor 6/6/2000	0002-1549 G6 Floor 8/3/2000	0002-1550 G3 Floor 8/3/2000
Analyte	**Units**	**Cleanup Goals**			
Polychlorinated Biphenyls					
AROCLOR 1016	µg/kg	NE	63 U	63 U	67 U
AROCLOR 1221	µg/kg	NE	130 U	130 U	130 U
AROCLOR 1232	µg/kg	NE	63 U	63 U	67 U
AROCLOR 1242	µg/kg	NE	63 U	63 U	67 U
AROCLOR 1248	µg/kg	NE	63 U	63 U	67 U
AROCLOR 1254	µg/kg	NE	32 U	32 U	34 U
AROCLOR 1260	µg/kg	NE	32 U	32 U	34 U
Volatile Organic Compounds					
1 1 1-TRICHLOROETHANE	µg/kg	NE	6 U	9 8 U	6.1 U
1.1 2 2-TETRACHLOROETHANE	µg/kg	NE	6 U	9 8 U	6.1 U
1.1 2-TRICHLOROETHANE	µg/kg	NE	6 U	9 8 U	6 1 U
1.1-DICHLOROETHANE	µg/kg	NE	6 U	9 8 U	6 1 U
1.1-DICHLOROETHENE	µg/kg	NE	6 U	9 8 U	6.1 U
1.2-DICHLOROETHANE	µg/kg	NE	6 U	9 8 U	6.1 U
1 2-DICHLOROPROPANE	µg/kg	NE	6 U	9 8 U	6 1 U
2-BUTANONE	µg/kg	NE	120 U	200 U	120 U
2-HEXANONE	µg/kg	NE	60 U	98 U	61 U
4-METHYL-2-PENTANONE	µg/kg	NE	60 U	98 U	61 U
ACETONE	µg/kg	NE	120 U	200 U	120 U
BENZENE	µg/kg	NE	6 U	9 8 U	6.1 U
BROMODICHLOROMETHANE	µg/kg	NE	6 U	9 8 U	6 1 U
BROMOFORM	µg/kg	NE	6 U	9 8 U	6 1 U
BROMOMETHANE	µg/kg	NE	6 U	9 8 U	6 1 U
CARBON DISULFIDE	µg/kg	NE	6 U	9 8 U	6 1 U
CARBON TETRACHLORIDE	µg/kg	NE	6 U	9 8 U	6 1 U
CHLOROBENZENE	µg/kg	NE	6 U	9 8 U	6.1 U
CHLOROETHANE	µg/kg	NE	6 U	9 8 U	6.1 U
CHLOROFORM	µg/kg	NE	6 U	9 8 U	6 1 U
CHLOROMETHANE	µg/kg	NE	6 U	9 8 U	6 1 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	6 U	9 8 U	6 1 U
CIS-1 3-DICHLOROPROPENE	µg/kg	NE	6 U	9 8 U	6 1 U
DIBROMOCHLOROMETHANE	µg/kg	NE	6 U	9 8 U	6.1 U
ETHYLBENZENE	µg/kg	NE	6 U	9 8 U	6.1 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	12 U	20 U	12 U
METHYLENE CHLORIDE	µg/kg	NE	1 J	9 8 U	0 8 J
STYRENE	µg/kg	NE	6 U	9 8 U	6 1 U
TETRACHLOROETHENE	µg/kg	NE	6 U	9 8 U	6.1 U
TOLUENE	µg/kg	NE	6 U	9 8 U	6.1 U
TRANS-1 2-DICHLOROETHENE	µg/kg	NE	6 U	9 8 U	6 1 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	6 U	9 8 U	6.1 U
TRICHLOROETHENE	µg/kg	NE	6 U	9 8 U	6 1 U
VINYL ACETATE	µg/kg	NE	60 U	98 U	61 U
VINYL CHLORIDE	µg/kg	NE	6 U	9 8 U	6 1 U
XYLENES (TOTAL)	µg/kg	NE	18 U	30 U	18 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2A

Sample Number Sample Location Sample Date			0002-1405 D5 Floor 6/6/2000	0002-1549 G6 Floor 8/3/2000	0002-1550 G3 Floor 8/3/2000
Analyte	**Units**	**Cleanup Goals**			
Semivolatile Organic Compounds					
1 2.4-TRICHLOROBENZENE	µg/kg	NE	420 U	420 U	440 U
1.2-DICHLOROBENZENE	µg/kg	NE	420 U	420 U	440 U
1 3-DICHLOROBENZENE	µg/kg	NE	420 U	420 U	440 U
1 4-DICHLOROBENZENE	µg/kg	NE	420 U	420 U	440 U
2.4.5-TRICHLOROPHENOL	µg/kg	NE	2000 U	2000 U	2200 U
2.4.6-TRICHLOROPHENOL	µg/kg	NE	420 U	420 U	440 U
2 4-DICHLOROPHENOL	µg/kg	NE	420 U	420 U	440 U
2 4-DIMETHYLPHENOL	µg/kg	NE	420 U	420 U	440 U
2,4-DINITROPHENOL	µg/kg	NE	2000 UJ	2000 U	2200 U
2 4-DINITROTOLUENE	µg/kg	NE	420 U	420 U	440 U
2 6-DINITROTOLUENE	µg/kg	NE	420 U	420 U	440 U
2-CHLORONAPHTHALENE	µg/kg	NE	420 U	420 U	440 U
2-CHLOROPHENOL	µg/kg	NE	420 U	420 U	440 U
2-METHYLPHENOL	µg/kg	NE	420 U	420 U	440 U
2-NITROANILINE	µg/kg	NE	2000 U	2000 U	2200 U
2-NITROPHENOL	µg/kg	NE	420 U	420 U	440 U
3.3 -DICHLOROBENZIDINE	µg/kg	NE	420 UJ	420 U	440 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	420 U	420 U	440 U
3-NITROANILINE	µg/kg	NE	2000 U	2000 U	2200 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	2000 U	2000 U	2200 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	420 U	420 U	440 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	420 U	420 U	440 U
4-CHLOROANILINE	µg/kg	NE	420 U	420 U	440 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	420 U	420 U	440 U
4-NITROANILINE	µg/kg	NE	2000 UJ	2000 U	2200 U
4-NITROPHENOL	µg/kg	NE	2000 U	2000 U	2200 U
ACENAPHTHENE	µg/kg	NE	32 U	32 U	34 U
ACENAPHTHYLENE	µg/kg	NE	32 U	7 J	34 U
ANTHRACENE	µg/kg	6100	32 U	16 J	34 U
BENZ[A]ANTHRACENE	µg/kg	560	32 U	63	9 J
BENZO[A]PYRENE	µg/kg	56	32 U	79	34 U
BENZO[B]FLUORANTHENE	µg/kg	560	32 U	160	34 U
BENZO[G H I]PERYLENE	µg/kg	NE	32 U	84	34 U
BENZO[K]FLUORANTHENE	µg/kg	610	32 U	47	34 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	420 U	420 U	440 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	420 U	420 U	440 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	420 U	420 U	440 U
BIS(2-ETHYL HEXYL) PHTHALATE	µg/kg	NE	420 U	420 U	440 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	420 UJ	420 U	440 U
CHRYSENE	µg/kg	6100	32 U	91	34 U
DIBENZ[A H]ANTHRACENE	µg/kg	56	32 U	21 J	34 U
DIBENZOFURAN	µg/kg	NE	420 U	420 U	440 U
DIETHYL PHTHALATE	µg/kg	NE	420 U	420 U	440 U
DIMETHYL PHTHALATE	µg/kg	NE	420 U	420 U	440 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	420 U	420 U	440 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	420 U	420 U	440 U
FLUORANTHENE	µg/kg	NE	54	55	34 U
FLUORENE	µg/kg	NE	32 U	32 U	34 U
HEXACHLOROBENZENE	µg/kg	NE	420 U	420 U	440 U
HEXACHLOROBUTADIENE	µg/kg	NE	420 U	420 U	440 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2A

Sample Number Sample Location Sample Date			0002-1405 D5 Floor 6/6/2000	0002-1549 G6 Floor 8/3/2000	0002-1550 G3 Floor 8/3/2000
Analyte	**Units**	**Cleanup Goals**			
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	420 U	420 U	440 U
HEXACHLOROETHANE	µg/kg	NE	420 U	420 U	440 U
INDENO[1 2 3-CD]PYRENE	µg/kg	560	32 U	69	34 U
NAPHTHALENE	µg/kg	NE	32 U	5 J	23 J
NITROBENZENE	µg/kg	NE	420 U	420 U	440 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	420 U	420 U	440 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	420 U	420 U	440 U
PENTACHLOROPHENOL	µg/kg	NE	420 U	420 U	440 U
PHENANTHRENE	µg/kg	NE	34	18 J	9 J
PHENOL	µg/kg	NE	420 U	420 U	440 U
PYRENE	µg/kg	NE	37	70	34 U
Organotin					
DIBUTYLTIN	µg/kg	NE	6.3 U	6.3 U	6.7 U
MONOBUTYLTIN	µg/kg	NE	6.3 U	6.3 U	6.7 U
TETRABUTYLTIN	µg/kg	NE	6.3 U	6.3 U	6.7 U
TRIBUTYLTIN	µg/kg	NE	6.3 U	6.3 U	6.7 U
Dioxins and Furans					
1 2 3 4 6 7 8 9-OCDD	pg/g	NE	5 5 J	12 4	1 6 J
1 2 3 4 6 7 8 9-OCDF	pg/g	NE	1 6 U	0 9 U	0 8 U
1 2 3 4 6 7 8-HPCDD	pg/g	NE	1.2 U	1.6 J	0.7 U
1 2 3 4 6 7 8-HPCDF	pg/g	NE	1 3 J	0 5 U	0 9 UJ
1 2 3 4 7 8 9-HPCDF	pg/g	NE	1 3 U	0 7 U	1 3 U
1 2 3 4 7 8-HXCDD	pg/g	NE	0 9 U	0 6 U	0 4 U
1 2 3 4 7 8-HXCDF	pg/g	NE	0 9 U	0 4 U	0 5 U
1 2 3 6 7 8-HXCDD	pg/g	NE	1 UJ	0 6 U	0 4 U
1 2 3 6 7 8-HXCDF	pg/g	NE	0 8 UJ	0 4 U	0 5 UJ
1 2 3 7 8 9-HXCDD	pg/g	NE	0 9 UJ	0 6 U	0 4 U
1 2 3 7 8 9-HXCDF	pg/g	NE	1 U	0 5 U	0 7 U
1 2 3 7 8-PECDD	pg/g	NE	0 9 U	0 4 U	0 3 U
1 2 3 7 8-PECDF	pg/g	NE	0 5 U	0 3 U	0 2 U
2 3 4 6 7 8-HXCDF	pg/g	NE	1 5 J	0 4 U	0 6 U
2 3 4 7 8-PECDF	pg/g	NE	0 7 U	0 3 U	0 2 U
2 3 7 8-TCDD	pg/g	NE	0 6 UJ	0 4 U	0 3 U
2 3 7 8-TCDF	pg/g	NE	0 6 UJ	0 3 U	0 2 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	1.69E-07	2.84E-08	1.60E-09
Radiochemistry					
GROSS ALPHA	pCi/g	NE	0 76	-0 55	7 5
GROSS BETA	pCi/g	NE	5 6	17	20
ACTINIUM-227	pCi/g	NE	NA	NA	NA
ACTINIUM-228	pCi/g	NE	NA	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA
BISMUTH-214	pCi/g	NE	NA	0 47	0 68
CERIUM-139	pCi/g	NE	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2A

Sample Number Sample Location Sample Date			0002-1405 D5 Floor 6/6/2000	0002-1549 G6 Floor 8/3/2000	0002-1550 G3 Floor 8/3/2000
Analyte	**Units**	**Cleanup Goals**			
CESIUM-134	pCi/g	NE	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA
CHROMIUM-51	pCi/g	NE	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA
LEAD-212	pCi/g	NE	0.14	0.57	0.9
LEAD-214	pCi/g	NE	NA	0.47	0.7
MANGANESE-54	pCi/g	NE	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA
POTASSIUM-40	pCi/g	NE	8	11	13
PROMETHIUM-144	pCi/g	NE	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA
THALLIUM-208	pCi/g	NE	0.067	0.15	0.24
THORIUM-230	pCi/g	NE	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2B

Sample Number			0002-1891	0002-1892	0002-1893	0002-2139	0002-2140	0002-2142 (3)	0002-2143 (4)	0002-2165	0002-2166
Sample Location			J0 Floor	J1 Floor	M1 Floor	J4 Floor	J7 Floor	M7 Floor	M4 Floor	M4 Floor	M7 Floor
Sample Date			12/7/2000	12/7/2000	12/7/2000	2/22/2001	2/22/2001	2/22/2001	2/22/2001	3/1/2001	3/1/2001
Analyte	**Units**	**Cleanup Goals**									
Metals											
HEXAVALENT CHROMIUM	mg/kg	0.2	0.24 U	0.1 J	0.1 J	0.3	0.5	0.2 J	0.24 U	0.25 U	0.24 U
ANTIMONY	mg/kg	NE	6 U	5.9 U	5.5 U	6.1 U	6.1 U	6.5	6 U	6.3 U	6.1 U
ARSENIC	mg/kg	9.05	7.9	2.4	0.89	1.4	1.7	2.4	1.1	0.99	2.1
BARIUM	mg/kg	NE	93.6	116	36.9	35.3	36.8	58.6	26.8	53.9	56
BERYLLIUM	mg/kg	NE	0.24 U	0.23 U	0.22 U	0.24 U	0.24 U	0.24 U	0.24 U	0.25 U	0.24 U
CADMIUM	mg/kg	NE	0.24 U	0.23 U	0.22 U	0.24 U	0.24 U	0.24 U	0.24 U	0.25 U	0.24 U
CHROMIUM	mg/kg	NE	7.7	16.3	8.7	8.2	7	13.2	5.5	10.4	7.1
COBALT	mg/kg	NE	3.6	9.5	4.3	3.4	3.5	5.7	2.5	5.1	5.4
COPPER	mg/kg	NE	3.5	28.5	3.7	22.6	8.4	36.1	3.5	5.8	5.7
LEAD	mg/kg	130	3.4	10.9	0.82	7.6	2.8	17.6	1.1	1.7	1.3
MERCURY	mg/kg	NE	0.073 J	0.073 J	0.22 U	0.058 J	0.24 U	0.086 J	0.24 U	0.25 U	0.041 J
MOLYBDENUM	mg/kg	NE	0.24 U	0.23 U	0.22 U	0.24 U	0.24 U	0.24 U	0.24 U	0.25 U	0.24 U
NICKEL	mg/kg	NE	3.3	8.5	2.8	2.9	2.4	5.7	1.8	3.4	3.3
SELENIUM	mg/kg	NE	0.6 U	0.59 U	0.55 U	0.61 U	0.61 U	0.31 J	0.6 U	0.63 U	0.61 U
SILVER	mg/kg	NE	0.6 U	0.59 U	0.55 U	0.61 U	0.61 U	0.59 U	0.6 U	0.63 U	0.61 U
THALLIUM	mg/kg	NE	0.6 U	0.59 U	0.55 U	0.61 U	0.61 U	0.59 U	0.6 U	0.63 U	0.61 U
VANADIUM	mg/kg	NE	17.5	51.8	32.2	30.4	28.7	39.5	21.1	39.3	28
ZINC	mg/kg	NE	17	113	11.1	28.5	12.6	34.7	7.5	16.9	16.4
Total Petroleum Hydrocarbons											
DIESEL	mg/kg	NE	1500	4300	11 U	11000	2600	5400	4200	13 U	38
MOTOR OIL	mg/kg	NE	510	730	11 U	3000	670	1300	810	13 U	12 U
SPLP DIESEL	mg/L	NE	2	4.2	0.2 J	58 J	48 J	55 J	6 J	0.5 U	0.05 J
SPLP MOTOR OIL	mg/L	NE	0.5	1	0.06 J	10 J	6 J	9 J	1 J	0.5 U	0.05 J
Pesticides											
4,4'-DDD	µg/kg	NE	2 J	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
4,4'-DDE	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
4,4'-DDT	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
ALDRIN	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
ALPHA-BHC	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
ALPHA-CHLORDANE	µg/kg	NE	1.2 U	5.9 U	1.1 U	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
CHLORDANE	µg/kg	NE	NA	NA	NA	300 U	310 U	300 U	300 U	63 U	61 U
DELTA-BHC	µg/kg	NE	1.2 UJ	5.9 UJ	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
DIELDRIN	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
ENDOSULFAN I	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
ENDOSULFAN II	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
ENDOSULFAN SULFATE	µg/kg	NE	6 U	29 U	5.5 U	30 U	31 U	30 U	30 U	6.3 U	6.1 U
ENDRIN	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
ENDRIN ALDEHYDE	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
ENDRIN KETONE	µg/kg	NE	2.4 U	12 U	2.2 U	12 U	12 U	12 U	12 U	2.5 U	2.4 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
GAMMA-CHLORDANE	µg/kg	NE	1.2 U	5.9 U	1.1 U	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.2 U	5.9 U	1.1 U	6.1 U	6.1 U	5.9 U	6 U	1.3 U	1.2 U
METHOXYCHLOR	µg/kg	NE	12 U	59 U	11 UJ	61 UJ	61 UJ	59 UJ	60 UJ	13 U	12 U
TOXAPHENE	µg/kg	NE	120 U	590 U	110 U	610 U	610 U	590 U	600 U	130 U	120 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2B

Sample Number			0002-1891	0002-1892	0002-1893	0002-2139	0002-2140	0002-2142 (3)	0002-2143 (4)	0002-2165	0002-2166
Sample Location			J0 Floor	J1 Floor	M1 Floor	J4 Floor	J7 Floor	M7 Floor	M4 Floor	M4 Floor	M7 Floor
Sample Date			12/7/2000	12/7/2000	12/7/2000	2/22/2001	2/22/2001	2/22/2001	2/22/2001	3/1/2001	3/1/2001
Analyte	Units	Cleanup Goals									
Polychlorinated Biphenyls											
AROCLOR 1016	µg/kg	NE	60 U	59 U	55 U	61 U	61 U	59 U	60 U	63 U	61 U
AROCLOR 1221	µg/kg	NE	120 U	120 U	110 U	120 U	120 U	120 U	120 U	130 U	120 U
AROCLOR 1232	µg/kg	NE	60 U	59 U	55 U	61 U	61 U	59 U	60 U	63 U	61 U
AROCLOR 1242	µg/kg	NE	60 U	59 U	55 U	61 U	61 U	59 U	60 U	63 U	61 U
AROCLOR 1248	µg/kg	NE	60 U	59 U	55 U	61 U	61 U	59 U	60 U	63 U	61 U
AROCLOR 1254	µg/kg	NE	30 U	29 U	28 U	30 U	31 U	30 U	30 U	31 U	30 U
AROCLOR 1260	µg/kg	NE	30 U	29 U	28 U	30 U	31 U	30 U	30 U	31 U	30 U
Volatile Organic Compounds											
1,1,1-TRICHLOROETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 U	610 U	590 UJ	600 U	6.3 U	6.1 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 U	610 U	590 UJ	600 U	6.3 U	6.1 U
1,1-DICHLOROETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
1,1-DICHLOROETHENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
1,2-DICHLOROETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
1,2-DICHLOROPROPANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
2-BUTANONE	µg/kg	NE	140 U	3 J	55000 U	530 J	12000 U	630 J	670 J	130 U	120 U
2-HEXANONE	µg/kg	NE	70 U	48 U	28000 U	6100 UJ	6100 U	5900 UJ	6000 U	63 U	61 U
4-METHYL-2-PENTANONE	µg/kg	NE	70 U	0.4 J	28000 U	6100 UJ	6100 U	5900 UJ	6000 U	63 U	61 U
ACETONE	µg/kg	NE	140 U	96 U	3700 J	12000 UJ	12000 U	12000 UJ	12000 U	130 U	120 U
BENZENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
BROMODICHLOROMETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
BROMOFORM	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
BROMOMETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CARBON DISULFIDE	µg/kg	NE	7 U	0.9 J	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CARBON TETRACHLORIDE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CHLOROBENZENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CHLOROETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CHLOROFORM	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CHLOROMETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	120 J	600 U	6.3 U	6.1 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
DIBROMOCHLOROMETHANE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
ETHYLBENZENE	µg/kg	NE	7 U	4.8 U	2800 U	190 J	280 J	160 J	490 J	6.3 U	6.1 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	14 U	9.6 U	5500 U	1200 UJ	1200 U	1200 UJ	1200 U	13 U	12 U
METHYLENE CHLORIDE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
STYRENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
TETRACHLOROETHENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
TOLUENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	50 J	590 UJ	600 U	6.3 U	6.1 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
TRICHLOROETHENE	µg/kg	NE	7 U	4.8 U	2800 U	61 J	610 U	590 UJ	600 U	6.3 U	6.1 U
VINYL ACETATE	µg/kg	NE	70 U	48 U	28000 U	6100 UJ	6100 U	5900 UJ	6000 U	63 U	61 U
VINYL CHLORIDE	µg/kg	NE	7 U	4.8 U	2800 U	610 UJ	610 U	590 UJ	600 U	6.3 U	6.1 U
XYLENES (TOTAL)	µg/kg	NE	21 U	14 U	8300 U	1800 UJ	160 J	120 J	1800 U	19 U	18 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2B

Sample Number			0002-1891	0002-1892	0002-1893	0002-2139	0002-2140	0002-2142 (3)	0002-2143 (4)	0002-2165	0002-2166
Sample Location			J0 Floor	J1 Floor	M1 Floor	J4 Floor	J7 Floor	M7 Floor	M4 Floor	M4 Floor	M7 Floor
Sample Date			12/7/2000	12/7/2000	12/7/2000	2/22/2001	2/22/2001	2/22/2001	2/22/2001	3/1/2001	3/1/2001
Analyte	Units	Cleanup Goals									
Semivolatile Organic Compounds											
1 2,4-TRICHLOROBENZENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
1 2-DICHLOROBENZENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
1 3-DICHLOROBENZENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
1 4-DICHLOROBENZENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2,4 5-TRICHLOROPHENOL	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 U	1900 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2,4-DICHLOROPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2,4-DIMETHYLPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2,4-DINITROPHENOL	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 UJ	1900 UJ
2,4-DINITROTOLUENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2,6-DINITROTOLUENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	660	400 U
2-CHLORONAPHTHALENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2-CHLOROPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2-METHYLPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
2-NITROANILINE	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 U	1900 U
2-NITROPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
3 3'-DICHLOROBENZIDINE	µg/kg	NE	400 U	3900 U	360 U	2200 U	2200 U	2100 U	2100 U	490 U	470 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
3-NITROANILINE	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 U	1900 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 U	1900 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
4-CHLOROANILINE	µg/kg	NE	400 U	3900 U	360 U	2200 U	2200 U	2100 U	2100 U	950 U	920 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
4-NITROANILINE	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 U	1900 U
4-NITROPHENOL	µg/kg	NE	1900 U	19000 U	1800 U	7800 U	7800 U	7600 U	7600 U	2000 U	1900 U
ACENAPHTHENE	µg/kg	NE	30 U	690	28 U	120 U	310 U	590 U	300 U	31 U	30 U
ACENAPHTHYLENE	µg/kg	NE	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
ANTHRACENE	µg/kg	6100	30 U	310	28 U	210	140 J	470 J	150 J	31 U	30 U
BENZ[A]ANTHRACENE	µg/kg	560	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
BENZO[A]PYRENE	µg/kg	56	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
BENZO[B]FLUORANTHENE	µg/kg	560	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
BENZO[K]FLUORANTHENE	µg/kg	610	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
CHRYSENE	µg/kg	6100	70	290 J	28 U	320	270 J	170 J	220 J	31 U	30 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
DIBENZOFURAN	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
DIETHYL PHTHALATE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
DIMETHYL PHTHALATE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
FLUORANTHENE	µg/kg	NE	30 U	290 U	28 U	52 J	98 J	590 U	300 U	31 U	30 U
FLUORENE	µg/kg	NE	30 U	2100	28 U	1700	1100	4300	1300	31 U	30 U
HEXACHLOROBENZENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
HEXACHLOROBUTADIENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2B

Sample Number			0002-1891	0002-1892	0002-1893	0002-2139	0002-2140	0002-2142 (3)	0002-2143 (4)	0002-2165	0002-2166
Sample Location			J0 Floor	J1 Floor	M1 Floor	J4 Floor	J7 Floor	M7 Floor	M4 Floor	M4 Floor	M7 Floor
Sample Date			12/7/2000	12/7/2000	12/7/2000	2/22/2001	2/22/2001	2/22/2001	2/22/2001	3/1/2001	3/1/2001
Analyte	Units	Cleanup Goals									
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	400 U	3900 U	360 U	2700 U	2800 U	2700 U	2700 U	490 U	470 U
HEXACHLOROETHANE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
INDENO[1 2 3-CD]PYRENE	µg/kg	560	30 U	290 U	28 U	120 U	310 U	590 U	300 U	31 U	30 U
NAPHTHALENE	µg/kg	NE	30 U	860	28 U	620	1800	5400	1500	31 U	30 U
NITROBENZENE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	400 U	3900 U	360 U	1900 U	1900 U	1900 U	1900 U	770 U	740 U
PENTACHLOROPHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	560 U	540 U
PHENANTHRENE	µg/kg	NE	30 U	1600	28 U	520	1200	4500	1400	31 U	30 U
PHENOL	µg/kg	NE	400 U	3900 U	360 U	1600 U	1600 U	1600 U	1600 U	420 U	400 U
PYRENE	µg/kg	NE	120	330	28 U	530	280 J	850	240 J	31 U	30 U
Organotin											
DIBUTYLTIN	µg/kg	NE	18 U	180 U	17 U	20	6 1 U	5 9 U	19 J	6.3 U	6.1 U
MONOBUTYLTIN	µg/kg	NE	18 U	180 U	17 U	6 1 U	6 1 U	5 9 U	6 U	6 3 U	6.1 U
TETRABUTYLTIN	µg/kg	NE	18 U	180 U	17 U	6	6 1 U	5 9 U	7 J	6 3 U	6 1 U
TRIBUTYLTIN	µg/kg	NE	18 U	180 U	17 U	6.1 U	6.1 U	5.9 U	6 U	6.3 U	6.1 U
Dioxins and Furans											
1 2 3 4 6 7 8 9-OCDD	pg/g	NE	2 J	1080	80 8 J	40 2 U	29 3 U	127	13 5 U	5 1 U	2 4 U
1 2 3 4 6 7 8 9-OCDF	pg/g	NE	1 U	1 3 J	20 9 UJ	31 4 U	21 9 U	19 6 U	10 1 U	3 8 U	1 8 U
1 2 3,4,6 7 8-HPCDD	pg/g	NE	0 44 J	784	11 3 UJ	16 6 U	15 4 U	21 5	7 4 U	2 5 U	1 1 U
1 2 3 4 6 7 8-HPCDF	pg/g	NE	1 2 J	7 1 J	5 3 U	9 7 U	9 9 U	19 4	4 8 U	1 7 U	0 6 U
1 2 3 4 7 8 9-HPCDF	pg/g	NE	0 6 U	0 67 J	7 4 U	12 1 U	12 3 U	13 3 U	5 9 U	2 1 U	0 8 U
1 2 3 4 7 8-HXCDD	pg/g	NE	0 5 U	59 1	4 6 UJ	6 7 U	8 5 U	9 4 U	4 U	1 3 U	0 5 U
1 2 3 4 7 8-HXCDF	pg/g	NE	0 95 J	8 2 J	2 7 U	4 1 U	5 9 U	5 8 U	2 9 U	0 8 U	0 3 U
1,2 3 6,7 8-HXCDD	pg/g	NE	0 5 U	116	4 8 UJ	6 8 U	8 5 U	9 4 U	3 9 U	1 3 U	0 5 U
1 2 3 6 7,8-HXCDF	pg/g	NE	0 36 J	3 1 J	2 7 U	3 9 U	5 6 U	5 6 U	2 8 U	0 8 U	0 3 U
1 2 3 7 8 9-HXCDD	pg/g	NE	0 5 U	106	4 4 UJ	6 1 U	8 3 U	9 1 U	3 8 U	1 3 U	0 5 U
1 2 3,7 8 9-HXCDF	pg/g	NE	0 4 U	0 2 U	3 5 U	4 7 U	7 3 U	7 2 U	3 6 U	1 U	0 4 U
1 2 3 7 8-PECDD	pg/g	NE	0 5 U	57 1	2 3 UJ	3 4 U	5 2 U	5 6 U	2 U	1 1 U	0 5 U
1 2 3 7 8-PECDF	pg/g	NE	0 3 U	6 2	1 8 U	2 U	3 4 U	3 5 U	1 2 U	0 7 U	0 3 U
2 3,4 6 7 8-HXCDF	pg/g	NE	0 31 J	4 4 J	3 U	4 2 U	6 2 U	6 1 U	3 1 U	0 8 U	0 3 U
2 3 4,7 8-PECDF	pg/g	NE	0 37 J	4 3 J	1 8 U	2 U	3 4 U	3 5 U	1 2 U	0 7 U	0 3 U
2 3 7 8-TCDD	pg/g	NE	0 4 U	14 7	1 4 UJ	1 6 U	3 U	3 U	1 1 U	0 7 U	0 3 U
2 3 7 8-TCDF	pg/g	NE	0 65 J	12 9	1 1 UJ	1 1 U	2 5 U	2 5 U	0 8 U	0 4 U	0 2 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	4.30E-07	8.57E-05	8.08E-08	0.00E+00	0.00E+00	5.36E-07	0.00E+00	0.00E+00	0.00E+00
Radiochemistry											
GROSS ALPHA	pCi/g	NE	3 1 J	2 5 J	-2 4 J	5 7 J	5 1 J	8 3 J	8 7 J	6 2 J	5 J
GROSS BETA	pCi/g	NE	12 J	13 J	12 J	10 3	14 1	15 7	16 4	13 2	16 3
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	0 71	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	0 81	0 55	0 3	NA	NA	NA	NA	NA	NA
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 2B

Sample Number			0002-1891	0002-1892	0002-1893	0002-2139	0002-2140	0002-2142 (3)	0002-2143 (4)	0002-2165	0002-2166
Sample Location			J0 Floor	J1 Floor	M1 Floor	J4 Floor	J7 Floor	M7 Floor	M4 Floor	M4 Floor	M7 Floor
Sample Date			12/7/2000	12/7/2000	12/7/2000	2/22/2001	2/22/2001	2/22/2001	2/22/2001	3/1/2001	3/1/2001
Analyte	Units	Cleanup Goals									
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA	0 021 U	-0 007 U	-0 059 U	0 011 U	0 006 U	-0 013 U
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0 52	0 52	0 28	0 25	NA	NA	NA	0 32	0 41
LEAD-214	pCi/g	NE	0 88	0 46	0 34	NA	0 218	0 4	0 36	0 34	0 4
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	15	14	13	9 1	9 9	11 8	12	11 3	11 2
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	0 19	0 24	0 12	NA	NA	NA	NA	NA	NA
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	0 73	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	0.73	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 3

Sample Number			0002-1551[5]	0002-1894	0002-2074 [6]	0002-2076	0002-2077	0002-2144	0002-2146 (FD)	0002-2169	0002-2170	0002-2206	0002-2207 (FD)	0002-2294
Sample Location			G0 Floor	J0 Sidewall	D0 Floor	G0 Sidewall	G0 Floor	P5 Floor	P5 Floor	Q8 Floor	Q8 S Sidewall	D0 Floor	D0 Floor	A1 Floor
Sample Date			8/3/2000	12/7/2000	1/31/2001	1/31/2001	1/31/2001	2/22/2001	2/22/2001	3/8/2001	3/8/2001	3/12/2001	3/12/2001	3/27/2001
Analyte	Units	Cleanup Goals												
Metals														
HEXAVALENT CHROMIUM	mg/kg	0.2	0.3	0.4	0.25 U	0.21 U	0.27 U	0.2	0.2 J	0.07 J	2	0.07 J	0.2 J	0.23 U
ANTIMONY	mg/kg	NE	6.1 U	5.8 U	6.2 U	5.3 U	6.7 U	5.8 U	5.9 U	5.8 U	5.4 U	6.4 U	5.9 U	5.7 U
ARSENIC	mg/kg	9.05	2.5	2.6	4.8	1.5	2.7	1.2	1.2	1.2	1.7	2.7	2.3	2.2
BARIUM	mg/kg	NE	10.3	16.7	111	53.8	115	40.9	36.1	33.5	27.8	19.1 J	14.8 J	25.5
BERYLLIUM	mg/kg	NE	0.24 U	0.23 U	0.25 U	0.21 U	0.27 U	0.23 U	0.24 U	0.23 U	0.21 U	0.26 U	0.24 U	0.23 U
CADMIUM	mg/kg	NE	0.24 U	0.23 U	0.25 U	0.21 U	0.27 U	0.23 U	0.24 U	0.23 U	0.21 U	0.26 U	0.24 U	0.23 U
CHROMIUM	mg/kg	NE	4.7	5.2	16	8.5	17.2	8.7	7.2	6.3	7.6	6.6	5.5	4.8
COBALT	mg/kg	NE	2.9	3.1	7.9	5.7	10.1	3.8	3.1	3.2	2.9	2.7	2.5	4
COPPER	mg/kg	NE	2.7	2.2	10.2	5.2	9.4	4.7	4.8	5.5 J	23.4 J	4.4	3.1	2.7 J
LEAD	mg/kg	130	0.86	0.86	5.6	0.83	1.6	1.2	1.2	1.6	5.6	12.5	4.1	0.98
MERCURY	mg/kg	NE	0.24 U	0.23 U	0.25 U	0.21 U	0.27 U	0.23 U	0.037 J	0.26	0.64	0.06 J	0.24 U	0.23 U
MOLYBDENUM	mg/kg	NE	0.24 U	0.23 U	0.25 U	0.21 U	0.27 U	0.23 U	0.24 U	0.23 U	0.21 U	0.26 U	0.24 U	0.23 U
NICKEL	mg/kg	NE	2.5	1.9	6.4	3.8	6.2	2.6	2.7	2.2 J	2.8 J	2.1	2	2.1
SELENIUM	mg/kg	NE	0.61 U	0.58 U	1.1	0.53 U	0.67 U	0.58 U	0.59 U	0.58 U	0.54 U	0.64 U	0.59 U	0.57 U
SILVER	mg/kg	NE	0.61 U	0.58 U	0.62 U	0.53 U	0.67 U	0.58 U	0.59 U	0.58 U	0.54 U	0.64 U	0.59 U	0.57 U
THALLIUM	mg/kg	NE	0.61 U	0.58 U	0.62 U	0.53 U	0.67 U	0.58 U	0.59 U	0.58 U	0.54 U	0.64 U	0.59 U	0.57 U
VANADIUM	mg/kg	NE	9.9	11.6	54.8	26.7	57.6	32.2	31.4	25.3	20.4	15.5	12	15.8
ZINC	mg/kg	NE	10.8	9.1	32.1	14.7	30.5	11.7	11.1	10.2 J	25.6 J	21.3 J	14.5 J	10.5 J
Total Petroleum Hydrocarbons														
DIESEL	mg/kg	NE	49800 J	14000	43	11 U	4500	8900	6900	12 U	6 J	12 J	2300	22
MOTOR OIL	mg/kg	NE	8100 J	2200	4 J	11 U	540	1600	1200	12 U	35	7 J	690	11 U
SPLP DIESEL	mg/L	NE	390 J	150	0.1 J	0.5 U	2	240 J	19 J	0.5 U	0.5 U	0.4 J	0.6	0.5 U
SPLP MOTOR OIL	mg/L	NE	50 J	13 J	0.08 J	0.5 U	0.3 J	13 J	0.9 J	0.5 U	0.5 U	0.2 J	0.4 J	0.5 U
Pesticides														
4,4'-DDD	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
4,4'-DDE	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
4,4'-DDT	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
ALDRIN	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
ALPHA-BHC	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
ALPHA-CHLORDANE	µg/kg	NE	NA	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
CHLORDANE	µg/kg	NE	310 U	NA	62 U	53 U	67 U	290 U	300 U	58 U	54 U	64 U	290 U	57 U
DELTA-BHC	µg/kg	NE	6.1 U	12 UJ	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
DIELDRIN	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
ENDOSULFAN I	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
ENDOSULFAN II	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
ENDOSULFAN SULFATE	µg/kg	NE	31 U	58 U	6.2 U	5.3 U	6.7 U	29 U	30 U	5.8 U	5.4 U	6.4 U	29 U	5.7 U
ENDRIN	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
ENDRIN ALDEHYDE	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
ENDRIN KETONE	µg/kg	NE	12 U	23 U	2.5 U	2.1 U	2.7 U	12 U	12 U	2.3 U	2.1 U	2.6 U	12 U	2.3 U
GAMMA-BHC (LINDANE)	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
GAMMA-CHLORDANE	µg/kg	NE	NA	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	6.1 U	12 U	1.2 U	1.1 U	1.3 U	5.8 U	5.9 U	1.2 U	1.1 U	1.3 U	5.9 U	1.1 U
METHOXYCHLOR	µg/kg	NE	61 U	120 U	12 U	11 U	13 U	58 UJ	59 UJ	12 U	11 U	13 U	59 U	11 U
TOXAPHENE	µg/kg	NE	610 UJ	1200 U	120 U	110 U	130 U	580 U	590 U	120 U	110 U	130 U	590 U	110 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 3

Sample Number Sample Location Sample Date			0002-1551[5] G0 Floor 8/3/2000	0002-1894 J0 Sidewall 12/7/2000	0002-2074 [6] D0 Floor 1/31/2001	0002-2076 G0 Sidewall 1/31/2001	0002-2077 G0 Floor 1/31/2001	0002-2144 P5 Floor 2/22/2001	0002-2146 (FD) P5 Floor 2/22/2001	0002-2169 Q8 Floor 3/8/2001	0002-2170 Q8 S Sidewall 3/8/2001	0002-2206 D0 Floor 3/12/2001	0002-2207 (FD) D0 Floor 3/12/2001	0002-2294 A1 Floor 3/27/2001
Analyte	Units	Cleanup Goals												
Polychlorinated Biphenyls														
AROCLOR 1016	µg/kg	NE	61 U	58 U	62 U	53 U	67 U	58 U	59 U	58 U	54 U	64 U	59 U	57 U
AROCLOR 1221	µg/kg	NE	120 U	120 U	120 U	110 U	130 U	120 U	120 U	120 U	110 U	130 U	120 U	110 U
AROCLOR 1232	µg/kg	NE	61 U	58 U	62 U	53 U	67 U	58 U	59 U	58 U	54 U	64 U	59 U	57 U
AROCLOR 1242	µg/kg	NE	61 U	58 U	62 U	53 U	67 U	58 U	59 U	58 U	54 U	64 U	59 U	57 U
AROCLOR 1248	µg/kg	NE	61 U	58 U	62 U	53 U	67 U	58 U	59 U	58 U	54 U	64 U	59 U	57 U
AROCLOR 1254	µg/kg	NE	31 U	29 U	31 U	27 U	33 U	29 U	30 U	29 U	27 U	32 U	29 U	29 U
AROCLOR 1260	µg/kg	NE	31 U	29 U	31 U	27 U	33 U	29 U	30 U	29 U	3 J	32 U	7 J	29 U
Volatile Organic Compounds														
1 1 1-TRICHLOROETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
1 1 2 2-TETRACHLOROETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
1 1-DICHLOROETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5.7 U
1 1-DICHLOROETHENE	µg/kg	NE	1200 U	7.6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
1 2-DICHLOROETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
1 2-DICHLOROPROPANE	µg/kg	NE	1200 U	7 6 U	6.7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5.7 U
2-BUTANONE	µg/kg	NE	24000 U	150 U	130 U	7 J	12 J	980 J	690 J	140 U	110 U	210 U	660 U	7 J
2-HEXANONE	µg/kg	NE	12000 U	76 U	67 U	56 U	85 U	12000 U	5900 U	70 U	53 U	100 U	330 U	57 U
4-METHYL-2-PENTANONE	µg/kg	NE	12000 U	76 U	67 U	56 U	85 U	12000 U	5900 U	70 U	53 U	100 U	330 U	57 U
ACETONE	µg/kg	NE	24000 U	33 J	16 J	16 J	40 J	23000 U	12000 U	140 U	110 U	210 U	660 U	35 J
BENZENE	µg/kg	NE	150 J	7 6 U	6.7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
BROMODICHLOROMETHANE	µg/kg	NE	1200 U	7 6 U	6.7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5.3 U	10 U	33 U	5.7 U
BROMOFORM	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5.3 U	10 U	33 U	5.7 U
BROMOMETHANE	µg/kg	NE	1200 U	7 6 U	6.7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5.3 U	10 U	33 U	5.7 U
CARBON DISULFIDE	µg/kg	NE	120 J	7 6 U	6 7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	1 J
CARBON TETRACHLORIDE	µg/kg	NE	1200 U	7.6 U	6.7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
CHLOROBENZENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5.7 U
CHLOROETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5.7 U
CHLOROFORM	µg/kg	NE	1200 U	7.6 U	6 7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5.3 U	10 U	33 U	5.7 U
CHLOROMETHANE	µg/kg	NE	1200 U	7 6 U	6.7 U	5 6 U	8.5 U	1200 U	590 U	7 U	5.3 U	10 U	33 U	5.7 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5.7 U
CIS-1 3-DICHLOROPROPENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5.6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
DIBROMOCHLOROMETHANE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
ETHYLBENZENE	µg/kg	NE	780 J	7 6 U	3 J	5 6 U	2 J	510 J	440 J	7 U	5 3 U	10 U	33 U	5.7 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	2400 U	15 U	13 U	11 U	17 U	2300 U	1200 U	14 U	11 U	21 U	66 U	0 9 J
METHYLENE CHLORIDE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	7 J	19 J	3 J
STYRENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
TETRACHLOROETHENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
TOLUENE	µg/kg	NE	260 J	7 6 U	0 5 J	5.6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	2 J
TRANS-1 2-DICHLOROETHENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5.6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
TRANS-1 3-DICHLOROPROPENE	µg/kg	NE	1200 U	7 6 U	6.7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
TRICHLOROETHENE	µg/kg	NE	1200 U	7 6 U	6 7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
VINYL ACETATE	µg/kg	NE	12000 U	76 U	67 U	56 U	85 U	12000 U	5900 U	70 U	53 U	100 U	330 U	57 U
VINYL CHLORIDE	µg/kg	NE	1200 U	7.6 U	6.7 U	5 6 U	8 5 U	1200 U	590 U	7 U	5 3 U	10 U	33 U	5 7 U
XYLENES (TOTAL)	µg/kg	NE	3700 U	23 U	10 J	17 U	25 U	3500 U	1800 U	21 U	16 U	31 U	99 U	2 J

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 3

Sample Number			0002-1551[5]	0002-1894	0002-2074 [6]	0002-2076	0002-2077	0002-2144	0002-2146 (FD)	0002-2169	0002-2170	0002-2206	0002-2207 (FD)	0002-2294
Sample Location			G0 Floor	J0 Sidewall	D0 Floor	G0 Sidewall	G0 Floor	P5 Floor	P5 Floor	Q8 Floor	Q8 S Sidewall	D0 Floor	D0 Floor	A1 Floor
Sample Date			8/3/2000	12/7/2000	1/31/2001	1/31/2001	1/31/2001	2/22/2001	2/22/2001	3/8/2001	3/8/2001	3/12/2001	3/12/2001	3/27/2001
Analyte	Units	Cleanup Goals												
Semivolatile Organic Compounds														
1 2 4-TRICHLOROBENZENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
1 2-DICHLOROBENZENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
1 3-DICHLOROBENZENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
1 4-DICHLOROBENZENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2 4 5-TRICHLOROPHENOL	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 U	1900 U	1700 U	8200 U	7500 U	1800 U
2 4 6-TRICHLOROPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2 4-DICHLOROPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2 4-DIMETHYLPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2 4-DINITROPHENOL	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 U	1900 U	1700 U	8200 U	7500 U	1800 U
2 4-DINITROTOLUENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2 6-DINITROTOLUENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2-CHLORONAPHTHALENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2-CHLOROPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2-METHYLPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
2-NITROANILINE	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 U	1900 U	1700 U	8200 U	7500 U	1800 U
2-NITROPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
3 3'-DICHLOROBENZIDINE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	2100 U	2100 U	380 U	350 U	2000 U	1800 U	450 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
3-NITROANILINE	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 U	1900 U	1700 U	8200 U	7500 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 U	1900 U	1700 U	8200 U	7500 U	1800 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
4-CHLOROANILINE	µg/kg	NE	32000 U	1500 U	840 U	720 U	900 U	2100 U	2100 U	380 U	350 U	3900 U	3600 U	860 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
4-NITROANILINE	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 U	1900 UJ	1700 UJ	8200 U	7500 U	1800 U
4-NITROPHENOL	µg/kg	NE	160000 U	7400 U	2000 U	1700 U	2100 U	7400 U	7600 UJ	1900 U	1700 U	8200 U	7500 U	1800 U
ACENAPHTHENE	µg/kg	NE	2000	1800	31 U	27 U	33 U	580 U	590 U	29 U	27 U	15 J	480	29 U
ACENAPHTHYLENE	µg/kg	NE	240 U	290 U	31 U	27 U	33 U	580 U	590 U	29 U	27 U	13 J	420	29 U
ANTHRACENE	µg/kg	6100	21700	560	31 U	27 U	33 U	290 J	360 J	29 U	27 U	13 J	200 J	29 U
BENZ[A]ANTHRACENE	µg/kg	560	1300	290 U	31 U	27 U	33 U	580 U	590 U	29 U	27 U	120	140 J	29 U
BENZO[A]PYRENE	µg/kg	56	240 U	290 U	31 UJ	27 U	33 U	580 U	590 U	29 U	27 U	110	290 U	29 U
BENZO[B]FLUORANTHENE	µg/kg	560	240 U	290 U	31 UJ	27 U	33 U	580 U	590 U	29 U	27 U	190	290 U	29 U
BENZO[G H I]PERYLENE	µg/kg	NE	240 U	290 U	31 UJ	27 U	33 U	580 U	590 U	29 U	27 U	40	290 U	29 U
BENZO[K]FLUORANTHENE	µg/kg	610	240 U	290 U	31 UJ	27 U	33 U	580 U	590 U	29 U	27 U	20 J	290 U	29 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 UJ	840 J	380 U
CHRYSENE	µg/kg	6100	240 U	350	31 U	27 U	21 J	560 J	580 J	29 U	27 U	110	140 J	29 U
DIBENZ[A H]ANTHRACENE	µg/kg	56	240 U	290 U	31 UJ	27 U	33 U	580 U	590 U	29 U	27 U	37	290 U	29 U
DIBENZOFURAN	µg/kg	NE	32000 U	1500 U	NA	NA	NA	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
DIETHYL PHTHALATE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
DIMETHYL PHTHALATE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 UJ	1600 U	380 U
FLUORANTHENE	µg/kg	NE	240 U	290 U	31 U	27 U	33 U	580 U	590 U	29 U	27 U	98	140 J	29 U
FLUORENE	µg/kg	NE	10600	5400	31 U	27 U	88	3000	3200	29 U	27 U	30 J	950	29 U
HEXACHLOROBENZENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
HEXACHLOROBUTADIENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 3

Sample Number			0002-1551[5]	0002-1894	0002-2074 [6]	0002-2076	0002-2077	0002-2144	0002-2146 (FD)	0002-2169	0002-2170	0002-2206	0002-2207 (FD)	0002-2294
Sample Location			G0 Floor	J0 Sidewall	D0 Floor	G0 Sidewall	G0 Floor	P5 Floor	P5 Floor	Q8 Floor	Q8 S Sidewall	D0 Floor	D0 Floor	A1 Floor
Sample Date			8/3/2000	12/7/2000	1/31/2001	1/31/2001	1/31/2001	2/22/2001	2/22/2001	3/8/2001	3/8/2001	3/12/2001	3/12/2001	3/27/2001
Analyte	**Units**	**Cleanup Goals**												
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	32000 U	1500 U	560 U	480 U	610 U	2600 U	2700 U	380 U	350 U	2000 U	1800 U	440 U
HEXACHLOROETHANE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
INDENO[1 2 3-CD]PYRENE	µg/kg	560	240 U	290 U	31 UJ	27 U	33 U	580 U	590 U	29 U	27 U	39	290 U	29 U
NAPHTHALENE	µg/kg	NE	19300	12700	31 U	27 U	190	10000	9800	29 U	27 U	32 U	260 J	29 U
NITROBENZENE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	32000 U	1500 U	530 U	450 U	570 U	1800 U	1900 U	380 U	350 U	3100 U	2900 U	700 U
PENTACHLOROPHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	410 U	380 U	2300 UJ	2100 UJ	510 U
PHENANTHRENE	µg/kg	NE	24100	5400	31 U	27 U	170	3300	3400	29 U	27 U	45	1200	29 U
PHENOL	µg/kg	NE	32000 U	1500 U	410 U	350 U	440 U	1500 U	1600 U	380 U	350 U	1700 U	1600 U	380 U
PYRENE	µg/kg	NE	240 U	490	31 U	27 U	16 J	480 J	440 J	29 U	27 U	110	250 J	29 U
Organotin														
DIBUTYLTIN	µg/kg	NE	6 1 R	170 U	19 U	16 U	20 U	20 J	5 9 U	12 U	11 U	13 U	12 R	11 U
MONOBUTYLTIN	µg/kg	NE	6 1 R	170 U	19 U	16 U	20 U	5 8 U	5 9 U	12 U	11 U	13 U	12 R	11 U
TETRABUTYLTIN	µg/kg	NE	6 1 R	170 U	19 U	16 U	20 U	5 8 U	21	12 U	11 U	13 U	12 R	11 U
TRIBUTYLTIN	µg/kg	NE	6.1 R	170 U	19 U	16 U	20 U	5.8 U	5.9 U	12 U	11 U	13 U	12 R	11 U
Dioxins and Furans														
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	243	2 9 U	11 6 J	2 4 J	2 8 J	4.7 U	8 8 J	15.6 J	17 J	184	613	1 6 J
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	4 6 J	2 1 U	1 2 J	0 7 UJ	0 4 UJ	3 5 U	3 8 U	0.5 U	0.98 J	29 6 U	22 3	0 9 J
1,2,3,4,6,7,8-HPCDD	pg/g	NE	17.9	1 8 U	1 3 J	0 4 U	0.32 J	2.2 U	2 2 U	2 J	2 4 J	20 7 U	122	0.35 J
1,2,3,4,6,7,8-HPCDF	pg/g	NE	5 2	1 2 J	0 6 J	0 3 U	0 2 U	1 3 U	1.4 U	0.74 J	0.94 J	11 5 U	3 1 J	0.48 J
1,2,3,4,7,8,9-HPCDF	pg/g	NE	0 59 J	1 4 U	0 2 UJ	0 3 UJ	0 2 UJ	1 6 U	1 7 U	0.3 U	0 2 U	14 4 U	0 4 U	0 2 U
1,2,3,4,7,8-HXCDD	pg/g	NE	0 33 J	1 2 U	0 2 U	0 2 U	0 1 U	1 1 U	1 2 U	0 2 U	0 2 U	10 4 U	0 3 U	0 1 U
1,2,3,4,7,8-HXCDF	pg/g	NE	2 3 J	0.99 J	0 1 U	0 2 U	0.14 J	0.7 U	0.8 U	0.23 J	0.22 J	7 1 U	0 2 U	0.16 J
1,2,3,6,7,8-HXCDD	pg/g	NE	0 66 J	1 1 U	0 2 U	0 2 U	0 1 U	1.1 U	1 2 U	0 2 U	0 2 U	10 5 U	2 4 J	0.18 J
1,2,3,6,7,8-HXCDF	pg/g	NE	0 91 J	0 74 J	0 1 U	0 2 U	0 1 U	0 6 U	0 8 U	0.1 U	0 1 U	6 8 U	0 2 U	0.16 J
1,2,3,7,8,9-HXCDD	pg/g	NE	0 76 J	1.2 U	0 2 U	0 2 U	0 1 U	1.1 U	1.2 U	0 2 U	0.2 U	9 5 U	0 3 U	0.1 U
1,2,3,7,8,9-HXCDF	pg/g	NE	0.49 J	1 UJ	0 2 U	0 2 U	0 1 U	0 8 U	1 U	0 2 U	0 1 U	8 2 U	0 2 U	0.1 U
1,2,3,7,8-PECDD	pg/g	NE	0 58 J	1 UJ	0.2 U	0 2 U	0 1 U	0.7 U	0.7 U	0 2 U	0.1 U	5 9 U	0 2 U	0 1 U
1,2,3,7,8-PECDF	pg/g	NE	1.1	0 8 UJ	0 1 U	0 2 U	0.18 J	0 4 U	0 4 U	0.1 U	0.1 U	4 3 U	0 1 U	0.16 J
2,3,4,6,7,8-HXCDF	pg/g	NE	2 J	0 8 UJ	0 1 U	0 2 U	0 1 U	0 7 U	0 9 U	0 1 U	0.23 J	7 4 U	0 2 U	0.1 U
2,3,4,7,8-PECDF	pg/g	NE	1 2 J	0 8 UJ	0 2 J	0.2 UJ	0 09 U	0 4 U	0 4 U	0.1 U	0 1 U	4 2 U	0 1 U	0 1 U
2,3,7,8-TCDD	pg/g	NE	0 33 J	1 UJ	0 1 U	0 2 U	0 1 U	0 5 U	0 5 U	0 2 U	0 1 U	3 7 U	0 2 U	0.09 U
2,3,7,8-TCDF	pg/g	NE	1.1 J	0.6 UJ	0 1 U	0 2 U	0 1 U	0 3 U	0 3 U	0 1 U	0.14 J	2 5 U	0.1 U	0 25 J
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	2.61E-06	1.85E-07	1.32E-07	2.40E-09	2.90E-08	0.00E+00	8.80E-09	6.60E-08	1.10E-07	1.84E-07	2.13E-06	9.38E-08
Radiochemistry														
GROSS ALPHA	pCi/g	NE	1 2	3 4 J	11.9	7 J	8.4 J	8 8 J	4 J	5 8 J	9 2 J	5.3 J	3 1 U	5 8
GROSS BETA	pCi/g	NE	11	10 J	19 3	16	21	12.4	13 6	14 5	12 9	12.4	13 5	14 2
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	NA	NA	0.62 J	0 3 J	0 65 J	NA	NA	NA	NA	NA	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	0 2 U	0 47	0 73 J	0 31 J	0 67 J	NA	NA	NA	NA	NA	NA	NA
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 3

Sample Number Sample Location Sample Date			0002-1551[5] G0 Floor 8/3/2000	0002-1894 J0 Sidewall 12/7/2000	0002-2074 [6] D0 Floor 1/31/2001	0002-2076 G0 Sidewall 1/31/2001	0002-2077 G0 Floor 1/31/2001	0002-2144 P5 Floor 2/22/2001	0002-2146 (FD) P5 Floor 2/22/2001	0002-2169 Q8 Floor 3/8/2001	0002-2170 Q8 S Sidewall 3/8/2001	0002-2206 D0 Floor 3/12/2001	0002-2207 (FD) D0 Floor 3/12/2001	0002-2294 A1 Floor 3/27/2001
Analyte	Units	Cleanup Goals												
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	NA	NA	NA	NA	0 012 U	-0 003 U	-0 009 U	-0 024 U	-0 013 U	0 005 U	-0 052 U
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0.29	0 52	0.7 J	0 28 J	0.7 J	0.277	0 28	0 3	0 3	NA	NA	NA
LEAD-214	pCi/g	NE	0.2 U	0 41	0 82 J	0 35 J	0.64 J	0.28	NA	0 3	0 3	NA	NA	NA
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	11	13	14 J	9.7 J	11 J	12.1	12.1	11 2	12.5	10 5	9.6	12.2
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	NA	0.2	0 26 J	0.093 J	0 22 J	NA	NA	NA	NA	NA	NA	NA
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 4

Sample Number Sample Location Sample Date			0002-1995 M0 Floor 1/9/2001	0002-1996 M0 Sidewall 1/9/2001	0002-1997 O1 Sidewall 1/9/2001	0002-1998 O1 Floor 1/9/2001	0002-2145 P5 Sidewall 2/22/2001
Analyte	**Units**	**Cleanup Goals**					
Metals							
HEXAVALENT CHROMIUM	mg/kg	0.2	0.65 U	0.95 U	0.55 U	0.64 U	0.2 J
ANTIMONY	mg/kg	NE	6.5 U	9.5 U	5.5 U	6.4 U	5.8 U
ARSENIC	mg/kg	9.05	2.7	6	2.1	3.6	1.7
BARIUM	mg/kg	NE	164	131	51.9	158	34.4
BERYLLIUM	mg/kg	NE	0.26 U	0.38 U	0.22 U	0.25 U	0.23 U
CADMIUM	mg/kg	NE	0.26 U	0.38 U	0.22 U	0.25 U	0.23 U
CHROMIUM	mg/kg	NE	21.5	25	9	24.5	9.4
COBALT	mg/kg	NE	13.8	9.7	5.2	18.4	3.8
COPPER	mg/kg	NE	17	15.9	7.5	27.1	32.1
LEAD	mg/kg	130	3.7	4	16.8	6.8	6.1
MERCURY	mg/kg	NE	0.26 U	0.38 U	0.038 J	0.064 J	0.046 J
MOLYBDENUM	mg/kg	NE	0.26 U	0.38 U	0.22 U	0.25 U	0.23 U
NICKEL	mg/kg	NE	9.1	10.5	3.7	13	3.4
SELENIUM	mg/kg	NE	0.65 U	0.95 U	0.55 U	0.64 U	0.58 U
SILVER	mg/kg	NE	0.65 U	0.95 U	0.55 U	0.64 U	0.58 U
THALLIUM	mg/kg	NE	0.65 U	0.95 U	0.55 U	0.64 U	0.58 U
VANADIUM	mg/kg	NE	69.9	101	28.7	74.1	34.7
ZINC	mg/kg	NE	46	30	18.5	55.7	25.4
Total Petroleum Hydrocarbons							
DIESEL	mg/kg	NE	4 J	19 U	20	9000	370
MOTOR OIL	mg/kg	NE	13 U	19 U	57	1200	88
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.05 J	12	90 J
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	0.02 J	2 J	3 J
Pesticides							
4,4'-DDD	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
4,4'-DDE	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
4,4'-DDT	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
ALDRIN	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
ALPHA-BHC	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
CHLORDANE	µg/kg	NE	65 U	95 U	55 U	64 U	290 U
DELTA-BHC	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
DIELDRIN	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
ENDOSULFAN I	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
ENDOSULFAN II	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
ENDOSULFAN SULFATE	µg/kg	NE	6.5 U	9.5 U	5.5 U	6.4 U	29 U
ENDRIN	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
ENDRIN ALDEHYDE	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
ENDRIN KETONE	µg/kg	NE	2.6 U	3.8 U	2.2 U	2.5 U	12 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.3 U	1.9 U	1.1 U	1.3 U	5.8 U
METHOXYCHLOR	µg/kg	NE	13 U	19 U	11 U	13 U	58 UJ
TOXAPHENE	µg/kg	NE	130 U	190 U	110 U	130 U	580 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 4

Sample Number Sample Location Sample Date			0002-1995 M0 Floor 1/9/2001	0002-1996 M0 Sidewall 1/9/2001	0002-1997 O1 Sidewall 1/9/2001	0002-1998 O1 Floor 1/9/2001	0002-2145 P5 Sidewall 2/22/2001
Analyte	**Units**	**Cleanup Goals**					
Polychlorinated Biphenyls							
AROCLOR 1016	µg/kg	NE	65 U	95 U	55 U	64 U	58 U
AROCLOR 1221	µg/kg	NE	130 U	190 U	110 U	130 U	120 U
AROCLOR 1232	µg/kg	NE	65 U	95 U	55 U	64 U	58 U
AROCLOR 1242	µg/kg	NE	65 U	95 U	55 U	64 U	58 U
AROCLOR 1248	µg/kg	NE	65 U	95 U	55 U	64 U	58 U
AROCLOR 1254	µg/kg	NE	32 U	48 U	27 U	32 U	29 U
AROCLOR 1260	µg/kg	NE	32 U	48 U	27 U	32 U	29 U
Volatile Organic Compounds							
1.1.1-TRICHLOROETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
1.1.2.2-TETRACHLOROETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
1.1.2-TRICHLOROETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
1.1-DICHLOROETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
1.1-DICHLOROETHENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
1.2-DICHLOROETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
1.2-DICHLOROPROPANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
2-BUTANONE	µg/kg	NE	170 U	170 U	110 U	64000 U	640 J
2-HEXANONE	µg/kg	NE	83 U	83 U	56 U	32000 U	5800 U
4-METHYL-2-PENTANONE	µg/kg	NE	83 U	83 U	56 U	32000 U	5800 U
ACETONE	µg/kg	NE	170 U	170 U	110 U	64000 U	12000 U
BENZENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
BROMODICHLOROMETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
BROMOFORM	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
BROMOMETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
CARBON DISULFIDE	µg/kg	NE	2 J	8.3 U	5.6 U	3200 U	580 U
CARBON TETRACHLORIDE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
CHLOROBENZENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
CHLOROETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
CHLOROFORM	µg/kg	NE	10 J	9 J	5.6 U	3200 U	580 U
CHLOROMETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
CIS-1.2-DICHLOROETHENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
CIS-1.3-DICHLOROPROPENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
DIBROMOCHLOROMETHANE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
ETHYLBENZENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	17 U	17 U	1 J	6400 U	1200 U
METHYLENE CHLORIDE	µg/kg	NE	8.3 U	8.3 U	6 J	3200 U	580 U
STYRENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
TETRACHLOROETHENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
TOLUENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
TRANS-1.2-DICHLOROETHENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
TRANS-1.3-DICHLOROPROPENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
TRICHLOROETHENE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
VINYL ACETATE	µg/kg	NE	83 U	83 U	56 U	32000 U	5800 U
VINYL CHLORIDE	µg/kg	NE	8.3 U	8.3 U	5.6 U	3200 U	580 U
XYLENES (TOTAL)	µg/kg	NE	25 U	25 U	17 U	9600 U	1700 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 4

Sample Number Sample Location Sample Date			0002-1995 M0 Floor 1/9/2001	0002-1996 M0 Sidewall 1/9/2001	0002-1997 O1 Sidewall 1/9/2001	0002-1998 O1 Floor 1/9/2001	0002-2145 P5 Sidewall 2/22/2001
Analyte	Units	Cleanup Goals					
Semivolatile Organic Compounds							
1 2 4-TRICHLOROBENZENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
1.2-DICHLOROBENZENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
1.3-DICHLOROBENZENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
1 4-DICHLOROBENZENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2 4 5-TRICHLOROPHENOL	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
2.4.6-TRICHLOROPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2.4-DICHLOROPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2 4-DIMETHYL PHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2 4-DINITROPHENOL	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
2.4-DINITROTOLUENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2.6-DINITROTOLUENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2-CHLORONAPHTHALENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2-CHLOROPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2-METHYLPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
2-NITROANILINE	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
2-NITROPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
3.3'-DICHLOROBENZIDINE	µg/kg	NE	430 U	630 U	2900 U	1700 U	510 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
3-NITROANILINE	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
4-CHLOROANILINE	µg/kg	NE	430 U	630 U	2900 U	1700 U	510 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
4-NITROANILINE	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
4-NITROPHENOL	µg/kg	NE	2100 U	3000 U	14000 U	8200 U	1800 U
ACENAPHTHENE	µg/kg	NE	32 U	48 U	140 U	64 U	120 U
ACENAPHTHYLENE	µg/kg	NE	32 U	48 U	140 U	64 U	120 U
ANTHRACENE	µg/kg	6100	32 U	48 U	140 U	64 U	110 J
BENZ[A]ANTHRACENE	µg/kg	560	32 U	48 U	140 U	64 U	120 U
BENZO[A]PYRENE	µg/kg	56	32 U	48 U	140 U	64 U	120 U
BENZO[B]FLUORANTHENE	µg/kg	560	32 U	48 U	140 U	64 U	120 U
BENZO[G H I]PERYLENE	µg/kg	NE	32 U	48 U	140 U	64 U	120 U
BENZO[K]FLUORANTHENE	µg/kg	610	32 U	48 U	140 U	64 U	120 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
CHRYSENE	µg/kg	6100	32 U	48 U	140 U	64 U	200
DIBENZ[A H]ANTHRACENE	µg/kg	56	32 U	48 U	140 U	64 U	120 U
DIBENZOFURAN	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
DIETHYL PHTHALATE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
DIMETHYL PHTHALATE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
FLUORANTHENE	µg/kg	NE	32 U	48 U	140 U	19 J	32 J
FLUORENE	µg/kg	NE	32 U	48 U	140 U	170	950
HEXACHLOROBENZENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
HEXACHLOROBUTADIENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 4

Sample Number Sample Location Sample Date			0002-1995 M0 Floor 1/9/2001	0002-1996 M0 Sidewall 1/9/2001	0002-1997 O1 Sidewall 1/9/2001	0002-1998 O1 Floor 1/9/2001	0002-2145 P5 Sidewall 2/22/2001
Analyte	**Units**	**Cleanup Goals**					
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	650 U
HEXACHLOROETHANE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
INDENO[1.2.3-CD]PYRENE	µg/kg	560	32 U	48 U	140 U	64 U	120 U
NAPHTHALENE	µg/kg	NE	32 U	48 U	140 U	60 J	120 U
NITROBENZENE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	430 U	630 U	2900 U	1700 U	450 U
PENTACHLOROPHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
PHENANTHRENE	µg/kg	NE	32 U	48 U	140 U	270	460
PHENOL	µg/kg	NE	430 U	630 U	2900 U	1700 U	380 U
PYRENE	µg/kg	NE	32 U	48 U	140 U	38 J	350
Organotin							
DIBUTYLTIN	µg/kg	NE	19 U	29 U	16 U	19 U	13
MONOBUTYLTIN	µg/kg	NE	19 U	29 U	16 U	19 U	5.8 U
TETRABUTYLTIN	µg/kg	NE	19 U	29 U	16 U	19 U	5.8 U
TRIBUTYLTIN	µg/kg	NE	19 U	29 U	16 U	19 U	5.8 U
Dioxins and Furans							
1.2.3.4.6.7.8.9-OCDD	pg/g	NE	1.2 J	1.1 J	2.7 J	16.2 U	208
1.2.3.4.6.7.8.9-OCDF	pg/g	NE	0.6 U	0.4 U	0.4 U	12.5 U	15.1 J
1.2.3.4.6.7.8-HPCDD	pg/g	NE	0.4 U	0.3 U	0.5 J	8.8 U	28.4
1.2.3.4.6.7.8-HPCDF	pg/g	NE	0.2 U	0.2 U	0.2 U	5.3 U	6.1
1.2.3.4.7.8.9-HPCDF	pg/g	NE	0.3 U	0.2 U	0.3 U	7.3 U	0.8 U
1.2.3.4.7.8-HXCDD	pg/g	NE	0.2 U	0.2 U	0.3 U	4.5 U	0.5 U
1.2.3.4.7.8-HXCDF	pg/g	NE	0.1 U	0.1 U	0.2 U	4.2 U	0.3 U
1.2.3.6.7.8-HXCDD	pg/g	NE	0.2 U	0.2 U	0.3 U	4.4 U	0.5 U
1.2.3,6.7.8-HXCDF	pg/g	NE	0.1 U	0.1 U	0.2 U	4 U	0.3 U
1.2.3.7.8.9-HXCDD	pg/g	NE	0.2 U	0.2 U	0.3 U	4.4 U	0.5 U
1.2.3.7.8.9-HXCDF	pg/g	NE	0.2 U	0.2 U	0.2 U	5.4 U	0.4 U
1.2.3.7.8-PECDD	pg/g	NE	0.2 U	0.3 U	0.3 U	2.3 U	0.4 U
1.2.3.7.8-PECDF	pg/g	NE	0.2 U	0.2 U	0.2 U	1.7 U	0.2 U
2.3.4.6.7.8-HXCDF	pg/g	NE	0.1 U	0.2 U	0.2 U	4.5 U	0.3 U
2.3.4.7.8-PECDF	pg/g	NE	0.2 U	0.2 U	0.2 U	1.7 U	0.2 U
2.3.7.8-TCDD	pg/g	NE	0.2 U	0.2 U	0.2 U	1.2 U	0.3 U
2.3.7.8-TCDF	pg/g	NE	0.1 U	0.2 U	0.2 U	1.1 U	0.2 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	1.20E-09	1.10E-09	7.70E-09	0.00E+00	5.68E-07
Radiochemistry							
GROSS ALPHA	pCi/g	NE	5.1 J	9.2 J	2 U	4.3 U	14.2
GROSS BETA	pCi/g	NE	10.6	9.7 J	12.4	13	31.1
ACTINIUM-227	pCi/g	NE	NA	NA	NA	NA	NA
ACTINIUM-228	pCi/g	NE	NA	NA	NA	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA	NA	NA
BISMUTH-214	pCi/g	NE	NA	NA	NA	NA	NA
CERIUM-139	pCi/g	NE	NA	NA	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 4

Sample Number Sample Location Sample Date			0002-1995 M0 Floor 1/9/2001	0002-1996 M0 Sidewall 1/9/2001	0002-1997 O1 Sidewall 1/9/2001	0002-1998 O1 Floor 1/9/2001	0002-2145 P5 Sidewall 2/22/2001
Analyte	Units	Cleanup Goals					
CESIUM-134	pCi/g	NE	NA	NA	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA	NA	NA
CESIUM-137	pCi/g	NE	-0 044 U	0 019 U	-0 011 U	-0 028 U	0 024 U
CHROMIUM-51	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA	NA	NA
LEAD-212	pCi/g	NE	0 51	0 46	NA	NA	NA
LEAD-214	pCi/g	NE	0 32	0 38	NA	NA	NA
MANGANESE-54	pCi/g	NE	NA	NA	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	10 1	12	9 8	9 4	13 2
PROMETHIUM-144	pCi/g	NE	NA	NA	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA	0 36	NA
RADIUM-228	pCi/g	NE	NA	NA	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA	NA	NA
THALLIUM-208	pCi/g	NE	NA	NA	NA	NA	NA
THORIUM-230	pCi/g	NE	NA	NA	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	0 37	NA	0 48
TIN-113	pCi/g	NE	NA	NA	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	0.37	NA	0.48

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 5

Sample Number Sample Location Sample Date			0002-2075 (7) D0 Sidewall 1/31/2001	0002-2208 D0 Sidewall 3/12/2001	0002-2209 (FD) D0 Sidewall 3/12/2001
Analyte	**Units**	**Cleanup Goals**			
Metals					
HEXAVALENT CHROMIUM	mg/kg	0.2	0.23 U	0.05 J	0.07 J
ANTIMONY	mg/kg	NE	5.7 U	5.3 U	5.3 U
ARSENIC	mg/kg	9.05	2	2.7	2.2
BARIUM	mg/kg	NE	9.6	84.1 J	30.8 J
BERYLLIUM	mg/kg	NE	0.23 U	0.21 U	0.21 U
CADMIUM	mg/kg	NE	0.23 U	0.21 U	0.21 U
CHROMIUM	mg/kg	NE	3.9	7.6	4.9
COBALT	mg/kg	NE	2	3.9	2.2
COPPER	mg/kg	NE	1.4	3.6	2.7
LEAD	mg/kg	130	0.48	1.4	1.8
MERCURY	mg/kg	NE	0.23 U	0.039 J	0.044 J
MOLYBDENUM	mg/kg	NE	0.23 U	0.21 U	0.21 U
NICKEL	mg/kg	NE	1.1	2.8	2
SELENIUM	mg/kg	NE	0.57 U	0.53 U	0.53 U
SILVER	mg/kg	NE	0.57 U	0.53 U	0.53 U
THALLIUM	mg/kg	NE	0.57 U	0.53 U	0.53 U
VANADIUM	mg/kg	NE	9.9	26.7	13.1
ZINC	mg/kg	NE	6.3	10 J	10 J
Total Petroleum Hydrocarbons					
DIESEL	mg/kg	NE	11 U	11 U	6 J
MOTOR OIL	mg/kg	NE	11 U	7 J	10 J
SPLP DIESEL	mg/L	NE	0.5 U	0.08 J	0.2 J
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.06 J	0.6
Pesticides					
4,4'-DDD	µg/kg	NE	2.3 U	2.1 U	2.1 U
4,4'-DDE	µg/kg	NE	2.3 U	2.1 U	2.1 U
4,4'-DDT	µg/kg	NE	2.3 U	2.1 U	2.1 U
ALDRIN	µg/kg	NE	1.1 U	1.1 U	1.1 U
ALPHA-BHC	µg/kg	NE	1.1 U	1.1 U	1.1 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA
BETA-BHC	µg/kg	NE	1.1 U	1.1 U	1.1 U
CHLORDANE	µg/kg	NE	57 U	53 U	53 U
DELTA-BHC	µg/kg	NE	1.1 U	1.1 U	1.1 U
DIELDRIN	µg/kg	NE	2.3 U	2.1 U	2.1 U
ENDOSULFAN I	µg/kg	NE	1.1 U	1.1 U	1.1 U
ENDOSULFAN II	µg/kg	NE	2.3 U	2.1 U	2.1 U
ENDOSULFAN SULFATE	µg/kg	NE	5.7 U	5.3 U	5.3 U
ENDRIN	µg/kg	NE	2.3 U	2.1 U	2.1 U
ENDRIN ALDEHYDE	µg/kg	NE	2.3 U	2.1 U	2.1 U
ENDRIN KETONE	µg/kg	NE	2.3 U	2.1 U	2.1 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.1 U	1.1 U	1.1 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.1 U	1.1 U	1.1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.1 U	1.1 U	1.1 U
METHOXYCHLOR	µg/kg	NE	11 U	11 U	11 U
TOXAPHENE	µg/kg	NE	110 U	110 U	110 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 5

Sample Number Sample Location Sample Date			0002-2075 (7) D0 Sidewall 1/31/2001	0002-2208 D0 Sidewall 3/12/2001	0002-2209 (FD) D0 Sidewall 3/12/2001
Analyte	**Units**	**Cleanup Goals**			
Polychlorinated Biphenyls					
AROCLOR 1016	µg/kg	NE	57 U	53 U	53 U
AROCLOR 1221	µg/kg	NE	110 U	110 U	110 U
AROCLOR 1232	µg/kg	NE	57 U	53 U	53 U
AROCLOR 1242	µg/kg	NE	57 U	53 U	53 U
AROCLOR 1248	µg/kg	NE	57 U	53 U	53 U
AROCLOR 1254	µg/kg	NE	29 U	26 U	27 U
AROCLOR 1260	µg/kg	NE	29 U	26 U	27 U
Volatile Organic Compounds					
1,1,1-TRICHLOROETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
1,1-DICHLOROETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
1,1-DICHLOROETHENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
1,2-DICHLOROETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
1,2-DICHLOROPROPANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
2-BUTANONE	µg/kg	NE	130 U	120 U	150 U
2-HEXANONE	µg/kg	NE	67 U	59 U	73 U
4-METHYL-2-PENTANONE	µg/kg	NE	67 U	59 U	73 U
ACETONE	µg/kg	NE	130 U	120 U	150 U
BENZENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
BROMODICHLOROMETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
BROMOFORM	µg/kg	NE	6.7 U	5.9 U	7.3 U
BROMOMETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CARBON DISULFIDE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CARBON TETRACHLORIDE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CHLOROBENZENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CHLOROETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CHLOROFORM	µg/kg	NE	6.7 U	5.9 U	7.3 U
CHLOROMETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
DIBROMOCHLOROMETHANE	µg/kg	NE	6.7 U	5.9 U	7.3 U
ETHYLBENZENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	13 U	12 U	15 U
METHYLENE CHLORIDE	µg/kg	NE	6.7 U	4 J	4 J
STYRENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
TETRACHLOROETHENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
TOLUENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
TRICHLOROETHENE	µg/kg	NE	6.7 U	5.9 U	7.3 U
VINYL ACETATE	µg/kg	NE	67 U	59 U	73 U
VINYL CHLORIDE	µg/kg	NE	6.7 U	5.9 U	7.3 U
XYLENES (TOTAL)	µg/kg	NE	20 U	18 U	22 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 5

Sample Number Sample Location Sample Date			0002-2075 (7) D0 Sidewall 1/31/2001	0002-2208 D0 Sidewall 3/12/2001	0002-2209 (FD) D0 Sidewall 3/12/2001
Analyte	Units	Cleanup Goals			
Semivolatile Organic Compounds					
1,2,4-TRICHLOROBENZENE	µg/kg	NE	380 U	350 U	350 U
1,2-DICHLOROBENZENE	µg/kg	NE	380 U	350 U	350 U
1,3-DICHLOROBENZENE	µg/kg	NE	380 U	350 U	350 U
1,4-DICHLOROBENZENE	µg/kg	NE	380 U	350 U	350 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	1800 U	1700 U	1700 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	380 U	350 U	350 U
2,4-DICHLOROPHENOL	µg/kg	NE	380 U	350 U	350 U
2,4-DIMETHYLPHENOL	µg/kg	NE	380 U	350 U	350 U
2,4-DINITROPHENOL	µg/kg	NE	1800 U	1700 U	1700 U
2,4-DINITROTOLUENE	µg/kg	NE	380 U	350 U	350 U
2,6-DINITROTOLUENE	µg/kg	NE	380 U	350 U	350 U
2-CHLORONAPHTHALENE	µg/kg	NE	380 U	350 U	350 U
2-CHLOROPHENOL	µg/kg	NE	380 U	350 U	350 U
2-METHYLPHENOL	µg/kg	NE	380 U	350 U	350 U
2-NITROANILINE	µg/kg	NE	1800 U	1700 U	1700 U
2-NITROPHENOL	µg/kg	NE	380 U	350 U	350 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	380 U	410 U	420 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	380 U	350 U	350 U
3-NITROANILINE	µg/kg	NE	1800 U	1700 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1800 U	1700 U	1700 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	380 U	350 U	350 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	380 U	350 U	350 U
4-CHLOROANILINE	µg/kg	NE	770 U	800 U	810 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	380 U	350 U	350 U
4-NITROANILINE	µg/kg	NE	1800 U	1700 U	1700 U
4-NITROPHENOL	µg/kg	NE	1800 U	1700 U	1700 U
ACENAPHTHENE	µg/kg	NE	29 U	26 U	27 U
ACENAPHTHYLENE	µg/kg	NE	29 U	26 U	27 U
ANTHRACENE	µg/kg	6100	29 U	26 U	27 U
BENZ[A]ANTHRACENE	µg/kg	560	29 U	26 U	10 J
BENZO[A]PYRENE	µg/kg	56	29 U	26 U	27 U
BENZO[B]FLUORANTHENE	µg/kg	560	29 U	26 U	27 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	29 U	26 U	27 U
BENZO[K]FLUORANTHENE	µg/kg	610	29 U	26 U	27 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	380 U	350 U	350 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	380 U	350 U	350 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	380 U	350 U	350 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	380 U	350 U	350 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	380 U	350 UJ	350 UJ
CHRYSENE	µg/kg	6100	29 U	26 U	27 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	29 U	26 U	27 U
DIBENZOFURAN	µg/kg	NE	NA	350 U	350 U
DIETHYL PHTHALATE	µg/kg	NE	380 U	350 U	350 U
DIMETHYL PHTHALATE	µg/kg	NE	380 U	350 U	350 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	380 U	350 U	350 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	380 U	350 U	350 U
FLUORANTHENE	µg/kg	NE	29 U	26 U	27 U
FLUORENE	µg/kg	NE	29 U	26 U	27 U
HEXACHLOROBENZENE	µg/kg	NE	380 U	350 U	350 U
HEXACHLOROBUTADIENE	µg/kg	NE	380 U	350 U	350 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 5

Sample Number Sample Location Sample Date			0002-2075 (7) D0 Sidewall 1/31/2001	0002-2208 D0 Sidewall 3/12/2001	0002-2209 (FD) D0 Sidewall 3/12/2001
Analyte	**Units**	**Cleanup Goals**			
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	520 U	410 U	410 U
HEXACHLOROETHANE	µg/kg	NE	380 U	350 U	350 U
INDENO[1 2 3-CD]PYRENE	µg/kg	560	29 U	26 U	27 U
NAPHTHALENE	µg/kg	NE	29 U	26 U	27 U
NITROBENZENE	µg/kg	NE	380 U	350 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	380 U	350 U	350 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	480 U	640 U	650 U
PENTACHLOROPHENOL	µg/kg	NE	380 U	470 UJ	470 UJ
PHENANTHRENE	µg/kg	NE	29 U	26 U	27 U
PHENOL	µg/kg	NE	380 U	350 U	350 U
PYRENE	µg/kg	NE	29 U	26 U	27 U
Organotin					
DIBUTYLTIN	µg/kg	NE	17 U	11 U	11 U
MONOBUTYLTIN	µg/kg	NE	17 U	11 U	11 U
TETRABUTYLTIN	µg/kg	NE	17 U	11 U	11 U
TRIBUTYLTIN	µg/kg	NE	17 U	11 U	11 U
Dioxins and Furans					
1,2 3 4,6,7,8 9-OCDD	pg/g	NE	1 8 J	72 3 J	524
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	0 9 UJ	2 4 J	11 3
1 2 3,4 6 7 8-HPCDD	pg/g	NE	0 4 U	8 J	63.8
1 2,3,4 6 7 8-HPCDF	pg/g	NE	0 3 U	0 79 J	2 J
1,2,3,4,7 8,9-HPCDF	pg/g	NE	0 3 UJ	0 3 U	0 2 U
1,2 3,4,7 8-HXCDD	pg/g	NE	0 3 U	0 2 U	0 2 U
1,2,3,4,7,8-HXCDF	pg/g	NE	0 2 U	0 32 J	0.25 J
1,2 3 6,7,8-HXCDD	pg/g	NE	0 3 U	0.86 J	1.1 J
1 2,3,6,7 8-HXCDF	pg/g	NE	0.2 U	0 1 U	0 1 U
1 2 3,7 8,9-HXCDD	pg/g	NE	0 3 U	1 3 J	0.98 J
1 2,3,7 8 9-HXCDF	pg/g	NE	0 2 U	0 1 U	0 1 U
1,2 3 7,8-PECDD	pg/g	NE	0 2 U	0 1 U	0 1 U
1,2 3 7,8-PECDF	pg/g	NE	0 2 U	0 1 U	0.1 U
2,3,4,6,7 8-HXCDF	pg/g	NE	0 2 U	0.76 J	0.42 J
2 3,4,7 8-PECDF	pg/g	NE	0 2 UJ	0 1 U	0 1 U
2 3,7 8-TCDD	pg/g	NE	0 2 U	0.1 U	0 1 U
2,3,7 8-TCDF	pg/g	NE	0 2 U	0 3 J	0.09 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	1.80E-09	5.17E-07	1.47E-06
Radiochemistry					
GROSS ALPHA	pCi/g	NE	3 8 U	2.2 U	3.6 U
GROSS BETA	pCi/g	NE	15.2	13 3	15 6
ACTINIUM-227	pCi/g	NE	NA	NA	NA
ACTINIUM-228	pCi/g	NE	0 2 J	NA	NA
AMERICIUM-241	pCi/g	NE	NA	NA	NA
ANTIMONY-124	pCi/g	NE	NA	NA	NA
ANTIMONY-125	pCi/g	NE	NA	NA	NA
BARIUM-133	pCi/g	NE	NA	NA	NA
BARIUM-140	pCi/g	NE	NA	NA	NA
BERYLLIUM-7	pCi/g	NE	NA	NA	NA
BISMUTH-212	pCi/g	NE	NA	NA	NA
BISMUTH-214	pCi/g	NE	0.35 J	NA	NA
CERIUM-139	pCi/g	NE	NA	NA	NA
CERIUM-141	pCi/g	NE	NA	NA	NA
CERIUM-144	pCi/g	NE	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 5

Sample Number Sample Location Sample Date			0002-2075 (7) D0 Sidewall 1/31/2001	0002-2208 D0 Sidewall 3/12/2001	0002-2209 (FD) D0 Sidewall 3/12/2001
Analyte	Units	Cleanup Goals			
CESIUM-134	pCi/g	NE	NA	NA	NA
CESIUM-136	pCi/g	NE	NA	NA	NA
CESIUM-137	pCi/g	NE	NA	0.036 U	-0.009 U
CHROMIUM-51	pCi/g	NE	NA	NA	NA
COBALT-56	pCi/g	NE	NA	NA	NA
COBALT-57	pCi/g	NE	NA	NA	NA
COBALT-58	pCi/g	NE	NA	NA	NA
COBALT-60	pCi/g	NE	NA	NA	NA
EUROPIUM-152	pCi/g	NE	NA	NA	NA
EUROPIUM-154	pCi/g	NE	NA	NA	NA
EUROPIUM-155	pCi/g	NE	NA	NA	NA
IODINE-131	pCi/g	NE	NA	NA	NA
IRIDIUM-192	pCi/g	NE	NA	NA	NA
IRON-59	pCi/g	NE	NA	NA	NA
LEAD-210	pCi/g	NE	NA	NA	NA
LEAD-212	pCi/g	NE	0.29 J	0.26 J	NA
LEAD-214	pCi/g	NE	0.29 J	0.24 J	NA
MANGANESE-54	pCi/g	NE	NA	NA	NA
MERCURY-203	pCi/g	NE	NA	NA	NA
NEODYMIUM-147	pCi/g	NE	NA	NA	NA
NEPTUNIUM-239	pCi/g	NE	NA	NA	NA
NIOBIUM-94	pCi/g	NE	NA	NA	NA
NIOBIUM-95	pCi/g	NE	NA	NA	NA
POTASSIUM-40	pCi/g	NE	10 J	10.4	13.3
PROMETHIUM-144	pCi/g	NE	NA	NA	NA
PROMETHIUM-146	pCi/g	NE	NA	NA	NA
RADIUM-226DA	pCi/g	NE	NA	NA	NA
RADIUM-228	pCi/g	NE	NA	NA	NA
RUTHENIUM-106	pCi/g	NE	NA	NA	NA
SILVER-110M	pCi/g	NE	NA	NA	NA
SODIUM-22	pCi/g	NE	NA	NA	NA
THALLIUM-208	pCi/g	NE	0.062 J	NA	NA
THORIUM-230	pCi/g	NE	NA	NA	NA
THORIUM-234	pCi/g	NE	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA
TIN-113	pCi/g	NE	NA	NA	NA
URANIUM-235	pCi/g	NE	NA	NA	NA
URANIUM-238	pCi/g	NE	NA	NA	NA
YTTRIUM-88	pCi/g	NE	NA	NA	NA
ZINC-65	pCi/g	NE	NA	NA	NA
ZIRCONIUM-95	pCi/g	NE	NA	NA	NA

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0002-2299	0002-2300	0002-2301(FD)	0002-2302 [8]	0039-002	0039-003	0039-004	0039-005	0039-006	0039-007	0039-008 (FD)	0039-009	0039-010	0039-011	0039-012
Sample Location			C5 West Sidewall-2	C5 North Sidewall-2	C5 North Sidewall-2	B2 West Sidewall	E1 West Sidewall	E1 South Sidewall	E1 North Sidewall	E1 East Sidewall	E1 Floor	D4 Floor	D4 Floor	D4 East Sidewall	D4 South Sidewall	D4 North Sidewall	B2 Floor
Sample Date			10/1/2001	10/1/2001	10/1/2001	10/1/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001
Analyte	**Units**	**Cleanup Goals**															
Metals																	
HEXAVALENT CHROMIUM	mg/kg	0.2	1	2	0.5	1	0.24 U	0.24 U	0.24 U	0.23 U	0.3 U	0.27 U	0.24 U	0.24 U	0.24 U	0.28 U	0.26 U
ANTIMONY	mg/kg	NE	7.4 U	6 U	6.1 U	0.17 J	6 U	5.9 U	5.9 U	5.8 U	7.4 U	0.29 J	6.1 U	6 U	5.9 U	7 U	6.4 U
ARSENIC	mg/kg	9.05	4.6 J	2.5	5.4	7.3	1.1	1.2	1.4	1	1.1	1.7	0.67	1.7	2.3	2.3	1.1
BARIUM	mg/kg	NE	157	116	113	141	29.2	64.2	43.2	49	73.5	78.6	38.5	104	159	35.4	55.7
BERYLLIUM	mg/kg	NE	0.52	0.24 U	0.23 J	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.3 U	0.27 U	0.24 U	0.24 U	0.24 U	0.28 U	0.26 U
CADMIUM	mg/kg	NE	0.063 J	0.061 J	0.56	1.4	0.24 U	0.053 J	0.24 U	0.23 U	0.3 U	0.035 J	0.24 U	0.029 J	0.24 U	0.28 U	0.02 J
CHROMIUM	mg/kg	NE	36.1	15.7	39.2	26.8	7.4	7.3	6.5	8.7	9.9	7.1	6.8	14	32.7	8.3	4.5
COBALT	mg/kg	NE	17.8	9.4	18.2	37.3	3.4	4.3	3.6	4	5.6	4.6	2.6	7.6	15	3.7	2.7
COPPER	mg/kg	NE	27.8	14.8	28.3	28	4.5	4.2	4.9	5.9	7.5	7.5	3.9	26.8	30.6	8.2	3.5
LEAD	mg/kg	130	12	2.9	10.8	6.8	1.3	1.5	1.9	2.5	1.7 J	3.4	0.93 J	13.7	6.1	3.9	0.93 J
MERCURY	mg/kg	NE	0.44	2.7	0.24 J	0.25	0.24 U	0.24 U	0.24 U	0.23 U	0.3 U	0.033 J	0.24 U	0.064 J	0.24 U	0.034 J	0.26 U
MOLYBDENUM	mg/kg	NE	0.29 U	0.24 U	0.24 U	0.22 J	0.24 U	0.71	0.24 U	0.23 U	0.3 U	0.27 U	0.24 U	0.24 U	0.24 U	0.15 J	0.26 U
NICKEL	mg/kg	NE	14.1	6.8	17.9	19.9	2.2	2.3	2.3	2.8	3.6	2.6	1.9	5.6	13.7	3	1.4
SELENIUM	mg/kg	NE	0.74 U	0.2 J	0.13 J	0.6 U	0.6 UJ	0.36 J	0.59 UJ	0.58 UJ	0.74 UJ	0.68 UJ	0.61 UJ	0.6 UJ	0.59 UJ	0.7 UJ	0.64 UJ
SILVER	mg/kg	NE	0.74 U	0.6 U	0.61 U	0.6 U	0.6 U	0.052 J	0.59 U	0.58 U	0.74 U	0.68 U	0.61 U	0.6 U	0.59 U	0.7 U	0.64 U
THALLIUM	mg/kg	NE	0.74 U	0.6 U	0.61 U	0.6 U	0.6 U	0.59 U	0.59 U	0.58 U	0.74 U	0.68 U	0.61 U	0.6 U	0.59 U	0.7 U	0.64 U
VANADIUM	mg/kg	NE	84.5	42.8	89.6	70.5	27.9	23.2	24.9	33.2	37.1	25.4	21.6	42.1	85.7	18.7	18.5
ZINC	mg/kg	NE	80.8	36.3	74.7	84.2	11.4 J	10.8 J	12.9 J	14.6 J	17.2 J	17.6 J	8.3 J	65.7 J	70.4 J	24.1 J	8.2 J
Total Petroleum Hydrocarbons																	
DIESEL	mg/kg	NE	15 UJ	27 J	12 UJ	3000	12 U	12 U	58 J	3 J	15 U	14 U	12 U	12 U	12 U	14 U	13 U
MOTOR OIL	mg/kg	NE	18 J	46 J	21 J	2800	12 U	12 U	690	120	8 J	14 U	12 U	12 U	12 U	14 U	13 U
SPLP DIESEL	mg/L	NE	0.5 UJ	0.5 U	0.8 J	45	0.5 U	0.5 U	0.04 J	0.2 J	0.04 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.9 J	0.5 U	1 J	49	0.5 U	0.5 U	0.5 U	0.09 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pesticides																	
4,4'-DDD	µg/kg	NE	2.9 U	2.4 U	2.4 U	1100	2.4 UJ	2.4 UJ	2.4 UJ	2.3 UJ	3 UJ	2.7 UJ	2.4 UJ	2.4 UJ	2.4 UJ	2.8 UJ	2.6 UJ
4,4'-DDE	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 U	2.4 U	2.4 U	2.3 U	3 U	2.7 U	2.4 U	2.4 U	2.4 U	2.8 U	2.6 U
4,4'-DDT	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 UJ	10 J	0.9 J	2.3 UJ	3 UJ	2.7 UJ	2.4 UJ	2.4 UJ	2.4 UJ	2.8 UJ	2.6 UJ
ALDRIN	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.4 U	1.2 U	1.2 U	1.2 U	1.4 U	1.3 U
ALPHA-BHC	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.5 UJ	1.4 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.4 UJ	1.3 UJ
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.4 U	1.2 U	1.2 U	1.2 U	1.4 U	1.3 U
CHLORDANE	µg/kg	NE	74 U	60 U	61 U	1200 U	60 U	59 U	59 U	58 U	74 U	68 U	61 U	60 U	59 U	70 U	64 U
DELTA-BHC	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.5 UJ	1.4 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.4 UJ	1.3 UJ
DIELDRIN	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 U	2.4 U	2.4 U	2.3 U	3 U	2.7 U	2.4 U	2.4 U	2.4 U	2.8 U	2.6 U
ENDOSULFAN I	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.4 U	1.2 U	1.2 U	1.2 U	1.4 U	1.3 U
ENDOSULFAN II	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 U	2.4 U	2.4 U	2.3 U	3 U	2.7 U	2.4 U	2.4 U	2.4 U	2.8 U	2.6 U
ENDOSULFAN SULFATE	µg/kg	NE	7.4 U	6 U	6.1 U	120 U	6 U	5.9 U	5.9 U	5.8 U	7.4 U	6.8 U	6.1 U	6 U	5.9 U	7 U	6.4 U
ENDRIN	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 U	2.4 U	2.4 U	2.3 U	3 U	2.7 U	2.4 U	2.4 U	2.4 U	2.8 U	2.6 U
ENDRIN ALDEHYDE	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 UJ	2.4 UJ	2.4 UJ	2.3 UJ	3 UJ	2.7 UJ	2.4 UJ	2.4 UJ	2.4 U	2.8 U	2.6 U
ENDRIN KETONE	µg/kg	NE	2.9 U	2.4 U	2.4 U	48 U	2.4 UJ	2.4 UJ	2.4 UJ	2.3 UJ	3 UJ	2.7 UJ	2.4 UJ	2.4 UJ	2.4 UJ	2.8 UJ	2.6 UJ
GAMMA-BHC (LINDANE)	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.5 UJ	1.4 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.4 UJ	1.3 UJ
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.5 UJ	1.2 UJ	1.2 UJ	24 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.4 U	1.2 U	1.2 U	1.2 U	1.4 U	1.3 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.5 U	1.2 U	1.2 U	24 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.4 U	1.2 U	1.2 U	1.2 U	1.4 U	1.3 U
METHOXYCHLOR	µg/kg	NE	15 U	12 U	12 U	240 U	12 U	12 U	12 U	12 U	15 U	14 U	12 U	12 U	12 U	14 U	13 U
TOXAPHENE	µg/kg	NE	150 U	120 U	120 U	2400 U	120 U	120 U	120 U	120 U	150 U	140 U	120 U	120 U	120 U	140 U	130 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0002-2299	0002-2300	0002-2301(FD)	0002-2302 [B]	0039-002	0039-003	0039-004	0039-005	0039-006	0039-007	0039-008 (FD)	0039-009	0039-010	0039-011	0039-012
Sample Location			C5 West Sidewall-2	C5 North Sidewall-2	C5 North Sidewall-2	B2 West Sidewall	E1 West Sidewall	E1 South Sidewall	E1 North Sidewall	E1 East Sidewall	E1 Floor	D4 Floor	D4 Floor	D4 East Sidewall	D4 South Sidewall	D4 North Sidewall	B2 Floor
Sample Date			10/1/2001	10/1/2001	10/1/2001	10/1/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001
Analyte	Units	Cleanup Goals															
Polychlorinated Biphenyls																	
AROCLOR 1016	µg/kg	NE	74 U	60 U	61 U	300 U	60 U	59 U	59 U	58 U	74 U	68 U	61 U	60 U	59 U	70 U	64 U
AROCLOR 1221	µg/kg	NE	150 U	120 U	120 U	600 U	120 U	120 U	120 U	120 U	150 U	140 U	120 U	120 U	120 U	140 U	130 U
AROCLOR 1232	µg/kg	NE	74 U	60 U	61 U	300 U	60 U	59 U	59 U	58 U	74 U	68 U	61 U	60 U	59 U	70 U	64 U
AROCLOR 1242	µg/kg	NE	74 U	60 U	61 U	300 U	60 U	59 U	59 U	58 U	74 U	68 U	61 U	60 U	59 U	70 U	64 U
AROCLOR 1248	µg/kg	NE	74 U	60 U	61 U	300 U	60 U	59 U	59 U	58 U	74 U	68 U	61 U	60 U	59 U	70 U	64 U
AROCLOR 1254	µg/kg	NE	37 U	30 U	31 U	150 U	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
AROCLOR 1260	µg/kg	NE	37 U	3 J	3 J	700	30 U	48	4 J	3 J	37 U	34 U	4 J	30 U	29 U	35 U	32 U
Volatile Organic Compounds																	
1 1 1-TRICHLOROETHANE	µg/kg	NE	7 6 U	5.5 U	5.9 U	1200 U	5.9 U	6 2 U	5.9 U	5 9 U	7.4 U	7.3 U	6 5 U	7 U	5 U	5 8 U	6.7 U
1 1 2 2-TETRACHLOROETHANE	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7 4 U	7.3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5.9 U	6 2 U	5 9 U	5 9 U	7 4 U	7.3 U	6.5 U	7 U	5 U	5 8 U	6 7 U
1 1-DICHLOROETHANE	µg/kg	NE	7.6 U	5 5 U	5 9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7 4 U	7 3 U	6 5 U	7 U	5 U	5 8 U	6.7 U
1 1-DICHLOROETHENE	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5 9 U	6.2 U	5.9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5.8 U	6.7 U
1 2-DICHLOROETHANE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
1.2-DICHLOROPROPANE	µg/kg	NE	7 6 U	5 5 U	5.9 U	1200 U	5.9 U	6 2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
2-BUTANONE	µg/kg	NE	10 J	110 U	5 J	24000 U	120 U	120 U	120 U	120 U	150 U	150 U	130 U	140 U	100 U	120 U	130 U
2-HEXANONE	µg/kg	NE	76 U	55 U	59 U	12000 U	59 U	62 U	59 U	59 U	74 U	73 U	65 U	70 U	50 U	58 U	67 U
4-METHYL-2-PENTANONE	µg/kg	NE	76 U	55 U	59 U	12000 U	59 U	62 U	59 U	59 U	74 U	73 U	65 U	70 U	50 U	58 U	67 U
ACETONE	µg/kg	NE	32 J	11 J	6 J	24000 U	120 U	120 U	120 U	120 U	150 U	150 U	130 U	140 U	100 U	120 U	130 U
BENZENE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5.9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
BROMODICHLOROMETHANE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
BROMOFORM	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
BROMOMETHANE	µg/kg	NE	7 6 U	5 5 U	5.9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7.4 U	7.3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CARBON DISULFIDE	µg/kg	NE	14	5.5 U	5.9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CARBON TETRACHLORIDE	µg/kg	NE	7 6 U	5.5 U	5.9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CHLOROBENZENE	µg/kg	NE	7.6 U	5 5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CHLOROETHANE	µg/kg	NE	7 6 U	5 5 U	5.9 U	1200 U	5 9 U	6.2 U	5.9 U	5 9 U	7.4 U	7 3 U	6 5 U	7 U	5 U	5 8 U	6.7 U
CHLOROFORM	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5.9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CHLOROMETHANE	µg/kg	NE	7 6 U	5.5 U	5.9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
CIS-1 3-DICHLOROPROPENE	µg/kg	NE	7.6 U	5 5 U	5 9 U	1200 U	5 9 U	6 2 U	5.9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
DIBROMOCHLOROMETHANE	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5.9 U	6 2 U	5.9 U	5.9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5.8 U	6.7 U
ETHYLBENZENE	µg/kg	NE	7 6 U	5 5 U	5 9 U	2200	5 9 U	6 2 U	5.9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	15 U	11 U	12 U	2400 U	12 U	12 U	12 U	12 U	15 U	15 U	13 U	14 U	10 U	12 U	13 U
METHYLENE CHLORIDE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5.9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
STYRENE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5.8 U	6.7 U
TETRACHLOROETHENE	µg/kg	NE	7 6 U	5 5 U	5.9 U	1200 U	5 9 U	6.2 U	5 9 U	5.9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
TOLUENE	µg/kg	NE	7.6 U	5 5 U	5.9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
TRANS-1 2-DICHLOROETHENE	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
TRANS-1 3-DICHLOROPROPENE	µg/kg	NE	7 6 U	5.5 U	5 9 U	1200 U	5 9 U	6.2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
TRICHLOROETHENE	µg/kg	NE	7 6 U	5 5 U	5 9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7 4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
VINYL ACETATE	µg/kg	NE	76 U	55 U	59 U	12000 U	59 U	62 U	59 U	59 U	74 U	73 U	65 U	70 U	50 U	58 U	67 U
VINYL CHLORIDE	µg/kg	NE	7 6 U	5 5 U	5.9 U	1200 U	5 9 U	6 2 U	5 9 U	5 9 U	7.4 U	7 3 U	6.5 U	7 U	5 U	5 8 U	6.7 U
XYLENES (TOTAL)	µg/kg	NE	23 U	16 U	18 U	6600	18 U	19 U	18 U	18 U	22 U	22 U	20 U	21 U	15 U	17 U	20 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0002-2299	0002-2300	0002-2301(FD)	0002-2302 [8]	0039-002	0039-003	0039-004	0039-005	0039-006	0039-007	0039-008 (FD)	0039-009	0039-010	0039-011	0039-012
Sample Location			C5 West Sidewall-2	C5 North Sidewall-2	C5 North Sidewall-2	B2 West Sidewall	E1 West Sidewall	E1 South Sidewall	E1 North Sidewall	E1 East Sidewall	E1 Floor	D4 Floor	D4 Floor	D4 East Sidewall	D4 South Sidewall	D4 North Sidewall	B2 Floor
Sample Date			10/1/2001	10/1/2001	10/1/2001	10/1/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001
Analyte	Units	Cleanup Goals															
Semivolatile Organic Compounds																	
1 2,4-TRICHLOROBENZENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
1 2-DICHLOROBENZENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
1,3-DICHLOROBENZENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
1,4-DICHLOROBENZENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2,4-DICHLOROPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2,4-DIMETHYLPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2,4-DINITROPHENOL	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
2,4-DINITROTOLUENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2,6-DINITROTOLUENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2-CHLORONAPHTHALENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2-CHLOROPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2-METHYLPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
2-NITROANILINE	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
2-NITROPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	970 U	790 U	810 U	31000 U	790 U	780 U	780 U	770 U	980 U	900 U	800 U	790 U	780 U	930 U	840 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
3-NITROANILINE	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
4-CHLOROANILINE	µg/kg	NE	1100 U	910 U	930 U	36000 U	900 U	900 U	890 U	880 U	1100 U	1000 U	920 U	900 U	890 U	1100 U	970 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
4-NITROANILINE	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 UJ	1900 UJ	1900 UJ	1900 UJ	2400 UJ	2200 UJ	1900 UJ	1900 UJ	1900 UJ	2200 UJ	2000 UJ
4-NITROPHENOL	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
ACENAPHTHENE	µg/kg	NE	37 U	30 U	31 U	120 U	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
ACENAPHTHYLENE	µg/kg	NE	37 U	30 U	31 U	120 U	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
ANTHRACENE	µg/kg	6100	37 U	30 U	31 U	120 U	13 J	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
BENZ[A]ANTHRACENE	µg/kg	560	37 U	8 J	31 U	120 U	24 J	30 U	13 J	8 J	37 U	34 U	30 U	12 J	29 U	35 U	32 U
BENZO[A]PYRENE	µg/kg	56	37 U	10 J	31 U	120 U	13 J	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
BENZO[B]FLUORANTHENE	µg/kg	560	37 U	16 J	9 J	120 U	13 J	30 U	10 J	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	37 U	13 J	9 J	120 U	30 U	30 U	29 U	8 J	37 U	34 U	30 U	30 U	29 U	35 U	32 U
BENZO[K]FLUORANTHENE	µg/kg	610	37 U	30 U	31 U	120 U	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
CHRYSENE	µg/kg	6100	37 U	30 U	31 U	59 J	17 J	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	37 U	30 U	31 U	120 U	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
DIBENZOFURAN	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
DIETHYL PHTHALATE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
DIMETHYL PHTHALATE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 UJ	490 U	450 U	400 U	390 U	390 U	460 U	420 U
FLUORANTHENE	µg/kg	NE	37 U	30 U	31 U	120 U	35	30 U	29 U	29 U	37 U	34 U	30 U	62	29 U	35 U	32 U
FLUORENE	µg/kg	NE	37 U	30 U	31 U	160	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
HEXACHLOROBENZENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0002-2299	0002-2300	0002-2301(FD)	0002-2302 [8]	0039-002	0039-003	0039-004	0039-005	0039-006	0039-007	0039-008 (FD)	0039-009	0039-010	0039-011	0039-012
Sample Location			C5 West Sidewall-2	C5 North Sidewall-2	C5 North Sidewall-2	B2 West Sidewall	E1 West Sidewall	E1 South Sidewall	E1 North Sidewall	E1 East Sidewall	E1 Floor	D4 Floor	D4 Floor	D4 East Sidewall	D4 South Sidewall	D4 North Sidewall	B2 Floor
Sample Date			10/1/2001	10/1/2001	10/1/2001	10/1/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001
Analyte	**Units**	**Cleanup Goals**															
HEXACHLOROBUTADIENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
HEXACHLOROETHANE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
INDENO[1 2,3-CD]PYRENE	µg/kg	560	37 U	10 J	31 U	120 U	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
NAPHTHALENE	µg/kg	NE	37 U	30 U	31 U	2400	30 U	30 U	29 U	29 U	37 U	34 U	30 U	30 U	29 U	35 U	32 U
NITROBENZENE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	970 U	790 U	810 U	31000 U	790 U	780 U	780 U	770 U	980 U	900 U	800 U	790 U	780 U	930 U	840 U
PENTACHLOROPHENOL	µg/kg	NE	2400 U	1900 U	2000 U	76000 U	1900 U	1900 U	1900 U	1900 U	2400 U	2200 U	1900 U	1900 U	1900 U	2200 U	2000 U
PHENANTHRENE	µg/kg	NE	37 U	30 U	31 U	350	32	30 U	29 U	29 U	37 U	34 U	30 U	29 J	29 U	35 U	32 U
PHENOL	µg/kg	NE	490 U	400 U	400 U	16000 U	390 U	390 U	390 U	380 U	490 U	450 U	400 U	390 U	390 U	460 U	420 U
PYRENE	µg/kg	NE	37 U	17 J	31 U	120 U	36	30 U	29 U	29 U	37 U	34 U	30 U	30 J	29 U	35 U	32 U
Organotin																	
DIBUTYLTIN	µg/kg	NE	15 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	15 U	14 U	12 U	12 U	12 U	14 U	13 U
MONOBUTYLTIN	µg/kg	NE	15 U	12 U	12 U	12 UJ	12 U	12 U	12 U	12 U	15 U	14 U	12 U	12 U	12 U	14 U	13 U
TETRABUTYLTIN	µg/kg	NE	15 U	12 U	12 U	12 U	12 UJ	12 U	12 U	12 U	15 U	14 U	12 U	12 U	12 U	14 U	13 U
TRIBUTYLTIN	µg/kg	NE	15 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	15 U	14 U	12 U	12 U	12 U	14 U	13 U
Dioxins and Furans																	
1,2 3,4 6 7 8 9-OCDD	pg/g	NE	1.8 U	8 U	6 5 U	4760	1 U	1 5 U	10 U	50 9	1 1 U	1 8 U	2 9 U	22.4 J	1 6 U	17 8 J	1 3 U
1 2 3,4 6 7 8,9-OCDF	pg/g	NE	0 3 U	1 8 J	0 5 J	518	0.63 U	62 7	7 4 U	13 3 U	0.59 U	1 4 U	2 3 U	4 5 U	21 6 J	3 7 U	1 7 U
1 2 3 4 6 7 8-HPCDD	pg/g	NE	0 4 U	1 7 U	0.99 U	710	0 2 U	0.27 J	1 9 U	5 3	0 6 U	0.58 J	0 81 J	5 6	0 53 J	3 9	0 2 U
1 2 3,4,6 7 8-HPCDF	pg/g	NE	0.49 J	0 95 J	0 5 J	15.8 U	0.1 U	1 2 U	0 93 U	2 3 U	0 3 U	0.85 U	2 U	12 4 J	1 7 U	9 4 J	0 45 U
1 2 3 4 7 8 9-HPCDF	pg/g	NE	0 2 U	0 91 J	0 2 U	22 1 U	0 2 U	1 1 J	0 51 U	0 46 J	0 5 U	0 3 U	0 2 U	0 61 J	1 J	0 46 J	0 2 U
1 2 3 4 7 8-HXCDD	pg/g	NE	0 1 U	0 55 J	0.1 U	10 5 U	0.1 U	0 11 J	0.2 U	0 1 U	0.4 U	0.2 U	0 2 U	0.43 J	0 2 U	0 34 J	0 1 U
1,2 3 4 7 8-HXCDF	pg/g	NE	0 37 J	0 6 J	0.17 J	6 5 U	0 15 U	0 57 U	0 46 U	0 69 U	0 3 U	0 61 U	0 84 U	5 7 J	0 94 U	4 6 J	0 23 U
1 2 3 6 7 8-HXCDD	pg/g	NE	0.2 U	0 74 J	0.1 U	39 9	0.1 U	0 13 J	0.2 U	0 25 J	0 4 U	0 3 U	0 31 J	0 7 J	0 2 U	0 36 J	0 2 U
1 2 3 6 7 8-HXCDF	pg/g	NE	0.1 U	0 56 J	0 1 U	6 7 U	0 09 U	0.34 J	0 28 U	0 32 J	0 3 U	0 24 J	0 32 J	2 J	0.68 J	1 6 J	0 13 J
1,2,3,7,8 9-HXCDD	pg/g	NE	0.1 U	1 1 J	0 1 U	10 5 U	0 1 U	0 12 J	0 2 U	0 1 U	0 4 U	0 2 U	0 35 J	1 1 J	0 2 U	0 81 J	0 1 U
1 2,3 7 8 9-HXCDF	pg/g	NE	0 1 U	1 2 J	0 1 U	8 3 U	0 1 U	0 28 J	0 2 U	0 09 U	0 3 U	0 2 U	0 35 J	0 26 J	0 1 U	0 2 U	0 1 U
1 2 3 7 8-PECDD	pg/g	NE	0 1 U	0 64 J	0 2 U	7 6 U	0 1 U	0 08 J	0 2 U	0 1 U	0.3 U	0 2 U	0 2 U	0 28 J	0 2 U	0 37 J	0 1 U
1 2 3 7 8-PECDF	pg/g	NE	0 1 U	0 74 J	0 1 U	4 7 U	0 1 U	0 31 J	0 37 U	0 1 U	0.3 U	0 2 U	0 23 J	1 J	0 38 J	0 86 J	0 1 U
2 3 4 6 7,8-HXCDF	pg/g	NE	0 22 J	0 53 J	0 1 U	6 7 U	0 09 U	0 19 J	0 1 U	0 3 J	0 3 U	0 23 J	0 35 J	3 4 J	0 31 J	2 2 J	0 1 U
2 3 4 7 8-PECDF	pg/g	NE	0 23 J	0 39 J	0 1 U	4 6 U	0 1 U	0 05 U	0 1 U	0 27 U	0 3 U	0 2 U	0 34 U	2 5 U	0 35 U	2 2 U	0 1 U
2 3 7 8-TCDD	pg/g	NE	0.2 U	0 26 J	0 1 U	3 U	0 2 U	0 06 U	0 2 U	0 1 U	0 4 U	0 2 U	0 2 U	0 1 U	0 2 U	0 3 UJ	0 2 U
2 3 7 8-TCDF	pg/g	NE	0 99 J	0 25 J	0 1 U	2 5 U	0 09 U	0 11 J	0 1 U	0 09 U	0 3 U	0 38 J	0 6 J	3	0 31 J	2 7 J	0 1 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	2.78E-07	1.39E-06	2.25E-08	1.64E-05	0.00E+00	2.60E-07	0.00E+00	1.96E-07	0.00E+00	9.08E-08	2.48E-07	2.06E-06	1.86E-07	1.64E-06	1.30E-08
Radiochemistry																	
GROSS ALPHA	pCi/g	NE	12 5	12 4	10 7	10 2	3.49	4 02	1 55 U	4 12	1 8 U	1 18 U	0 203 U	3 31	4 93	4 24 U	2 09 U
GROSS BETA	pCi/g	NE	20 9	23	25	20 4	14 4 U	11 6 U	14 7 U	11 2 U	17 3 U	16 6 U	11 6 U	15 2 U	14 7 U	15 4 U	19 1 U
ACTINIUM-227	pCi/g	NE	0 0764 U	-0.0897 U	-0 0235 U	0 0797 U	-0 0104 U	0 0853 U	-0 212 U	0 0687 U	-0 0244 U	-0 0236 U	0 0366 U	0 187 U	-0.048 U	-0 0355 U	-0 0323 U
ACTINIUM-228	pCi/g	NE	1 26	1 24	1 04	1 02	0 452	0 465	0 U	0 481	0 457	0 746	0 412	0 79	0 758	0 731	0 592
AMERICIUM-241	pCi/g	NE	-0 0708 U	0 173 U	0 0947 U	-0 000623 U	0 0275 U	0 0158 U	0 0483 U	0 0051 U	-0 0398 U	-0 027 U	-0 00183 U	0 00508 U	0 0234 U	0 0236 U	-0 0104 U
ANTIMONY-124	pCi/g	NE	-0 0022 U	-0 0249 U	0 0159 U	-0 00968 U	-0 00623 U	-0 00168 U	-0 0137 U	0 00138 U	0 00256 U	-0 00264 U	0 0102 U	-0 00934 U	0 0194 U	-0 0155 U	0 0193 U
ANTIMONY-125	pCi/g	NE	0 00449 U	-0 00311 U	0 0507 U	0 00215 U	-0 00152 U	0 0291 U	0 0201 U	0 00455 U	-0 0136 U	0 0161 U	-0 0105 U	-0 00566 U	0 0171 U	0 0167 U	0 0226 U
BARIUM-133	pCi/g	NE	-0 00691 U	0 00873 U	0 0361 U	0 014 U	-0 0024 U	0 0108 U	0 0337 U	0 0112 U	-0 00218 U	-0 00303 U	0 00259 U	-0 00974 U	0 012 U	-0 184 U	-0 0545 U
BARIUM-140	pCi/g	NE	0 314 U	0 113 U	0 493 U	0 478 U	0 0543 U	0 00813 U	0 0245 U	-0 0393 U	-0 0955 U	0 0295 U	-0 0193 U	-0 061 U	0 0322 U	0 0625 U	-0 0311 U
BERYLLIUM-7	pCi/g	NE	0 076 U	0 0877 U	0 286 U	-0 152 U	-0 0669 U	0 0729 U	0 00373 U	-0 00909 U	-0 0908 U	0 0502 U	0 068 U	0 0907 U	-0 254 U	0 0835 U	0 00306 U
BISMUTH-212	pCi/g	NE	0.817	0 U	0 94	0 824	0 378	0 U	0 U	0 U	0 422	0 695	0 114 U	0 348 U	0 243 U	0 462	0 557
BISMUTH-214	pCi/g	NE	0 69	0 753	0 U	1 06	0 278	0 U	0 313	0 297	0 352	0 546	0 359	0 478	0 756	0 426	0 482
CERIUM-139	pCi/g	NE	-0.00429 U	0.0179 U	-0.0218 U	0.00928 U	0.00425 U	-6.96E-06 U	-0.0194 U	-0.00365 U	-0.00142 U	-0.0107 U	-0.00892 U	-0.00491 U	-0.0159 U	-0.00323 U	-0.00303 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0002-2299	0002-2300	0002-2301(FD)	0002-2302 [8]	0039-002	0039-003	0039-004	0039-005	0039-006	0039-007	0039-008 (FD)	0039-009	0039-010	0039-011	0039-012
Sample Location			C5 West Sidewall-2	C5 North Sidewall-2	C5 North Sidewall-2	B2 West Sidewall	E1 West Sidewall	E1 South Sidewall	E1 North Sidewall	E1 East Sidewall	E1 Floor	D4 Floor	D4 Floor	D4 East Sidewall	D4 South Sidewall	D4 North Sidewall	B2 Floor
Sample Date			10/1/2001	10/1/2001	10/1/2001	10/1/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001	7/19/2001
Analyte	Units	Cleanup Goals															
CERIUM-141	pCi/g	NE	0 0302 U	0 0366 U	0.06 U	0 U	-0 00466 U	-0.0106 U	0.0373 U	0 00877 U	0 U	0 0175 U	0.0232 U	0 0111 U	0.0455 U	0.0153 U	0 00387 U
CERIUM-144	pCi/g	NE	-0 0561 U	0.117 U	-0.104 U	0 0128 U	-0.0489 U	-0 0732 U	-0.143 U	-0 00421 U	0 0316 U	-0 0133 U	0 00945 U	-0 0575 U	0 0202 U	-0 0368 U	0 015 U
CESIUM-134	pCi/g	NE	-0 0226 U	0 00146 U	0 0292 U	-0.00162 U	-0 00748 U	-0 0141 U	0 00476 U	0 00321 U	-0 0162 U	9 13E-05 U	-0.00341 U	-0 00363 U	-0 0267 U	-0.00368 U	-0 00714 U
CESIUM-136	pCi/g	NE	-0 124 U	0.107 U	-0.0421 U	0.144 U	-0 0356 U	0 0519 U	0.0203 U	0.00398 U	-0.0421 U	-0 0347 U	0 0204 U	-0.0203 U	0.0455 U	0.0239 U	-0 0782 U
CESIUM-137	pCi/g	NE	-0 00574 U	-0 0299 U	-0.0312 U	-0.026 U	0.0164 U	-0.00508 U	0 U	-0 0109 U	0 0264 U	-0 00359 U	-0 0055 U	0 000675 U	0.0118 U	0 00803 U	0 015 U
CHROMIUM-51	pCi/g	NE	-0.469 U	0.0185 U	0 0739 U	0 1 U	-0 0125 U	-0 0452 U	-0 253 U	0.0242 U	-0 0441 U	0 0794 U	0.000523 U	0 173 U	-0.0209 U	0 0373 U	-0 0242 U
COBALT-56	pCi/g	NE	-0 00766 U	-0.0219 U	0 0306 U	0.0455 U	0 00191 U	0 0148 U	-0 00932 U	0 0219 U	0.000829 U	-0 0139 U	-0 00794 U	-0 0114 U	-0 00234 U	0 0271 U	0 001 U
COBALT-57	pCi/g	NE	0 0231 U	0.00641 U	0 011 U	0 0218 U	-0 00219 U	0 00486 U	0 00162 U	-0 00259 U	-0 00407 U	-0.000418 U	-0 00237 U	-0 00107 U	0 00839 U	-0 00095 U	0 0066 U
COBALT-58	pCi/g	NE	-0.0367 U	-0.00515 U	-0 0038 U	0 0113 U	0 00465 U	-0 00806 U	-0 00212 U	-0 00659 U	0 0148 U	0 0157 U	0 00212 U	-0 0248 U	0 0281 U	0 00313 U	-0 00855 U
COBALT-60	pCi/g	NE	-0 0162 U	0 0575 U	-0 0301 U	-0 00994 U	-0 0166 U	0 014 U	-0 00124 U	-0.00289 U	0 00399 U	0 0208 U	0 00532 U	0 00912 U	-0 00899 U	0 00673 U	-0 00628 U
EUROPIUM-152	pCi/g	NE	-0 0236 U	-0.0329 U	0 0176 U	0 0176 U	-0 012 U	0 0221 U	-0 0465 U	-0.0206 U	-0 00338 U	-0 0195 U	-0.00613 U	-0 016 U	0 0293 U	0 00346 U	0 0112 U
EUROPIUM-154	pCi/g	NE	-0 0194 U	0.123 U	0 0255 U	-0 0939 U	-0 0153 U	0 0173 U	0 00546 U	0 0506 U	0 071 U	-0 0392 U	-0.0451 U	0 0417 U	0 0111 U	-0 0241 U	0 0559 U
EUROPIUM-155	pCi/g	NE	0 0578 U	0 059 U	0.115 U	0.0549 U	0 0296 U	0 0388 U	0 00671 U	-0 00337 U	0 0385 U	0 00522 U	-0 0059 U	0 0375 U	0.0327 U	0 0625 U	0 0289 U
IODINE-131	pCi/g	NE	0 0178 U	0 733 U	0 225 U	-0.0461 U	-0 00253 U	0 00678 U	-0 0412 U	-0 0317 U	0 0342 U	0 0349 U	-0 0256 U	-0 0188 U	-0.0463 U	0.0542 U	0 0054 U
IRIDIUM-192	pCi/g	NE	0.0222 U	-0 000622 U	0 0369 U	-0.00816 U	0 000227 U	-0.00406 U	-0 00305 U	0 00434 U	0 00367 U	0 00907 U	-0.000472 U	0 000368 U	-0.0127 U	-0 00196 U	-0 00255 U
IRON-59	pCi/g	NE	-0 0193 U	-0 0715 U	0 0456 U	-0.0261 U	0.00835 U	-0 0361 U	0.0921 U	0.0285 U	-0 0287 U	0 0129 U	-0 0295 U	0.039 U	-0.0281 U	-0 0104 U	-0.039 U
LEAD-210	pCi/g	NE	1 14 U	8 27 U	2 13 U	0.776	0.926 U	0 394 U	0 271 U	0.483	1.84 U	2.32 U	0 U	0 U	0.217 U	1.19 U	0 451
LEAD-212	pCi/g	NE	1 21	1 43	1 51	1.12	0 467	0 442	0.539	0.538	0 435	0 806	0 4	0 761	0 425	0 721	0 631
LEAD-214	pCi/g	NE	0 721	0 984	0.806	1 09	0 391	0.346	0.388	0.382	0 379	0 621	0 439	0 6	0 604	0.546	0.538
MANGANESE-54	pCi/g	NE	0 00207 U	0 0464 U	0 0346 U	0.0365 U	0.0138 U	-0 00385 U	0 0173 U	0 0129 U	0.00515 U	0.00797 U	0 00825 U	0.00131 U	0 00491 U	0.00584 U	0.00486 U
MERCURY-203	pCi/g	NE	0 0613 U	0 0354 U	0 00375 U	0.0266 U	0 00105 U	0 0165 U	0 000287 U	0.00746 U	-0 00611 U	0 U	0 011 U	0 0145 U	0 0101 U	0 0237 U	0 0314 U
NEODYMIUM-147	pCi/g	NE	0 249 U	1 95 U	0 757 U	-0.193 U	0.0279 U	0 128 U	0 059 U	0 112 U	-0.115 U	0 119 U	-0 165 U	-0 104 U	0 0665 U	0 188 U	-0.133 U
NEPTUNIUM-239	pCi/g	NE	0.111 U	-0 0723 U	0 113 U	0.0165 U	0 U	-0 0503 U	-0.171 U	0.0124 U	-0 0168 U	0 000631 U	0 U	-0 0213 U	-0.069 U	0.00105 U	0 0519 U
NIOBIUM-94	pCi/g	NE	-0.0168 U	0 0328 U	0.00729 U	0.00456 U	0.00742 U	0 00149 U	0 0158 U	0 0149 U	-0 00475 U	-0 00253 U	0 00525 U	0 0223 U	0.0225 U	-0 00808 U	0 00244 U
NIOBIUM-95	pCi/g	NE	-0 0455 U	0 0227 U	0 U	0 053 U	0.0029 U	0.00847 U	0 0348 U	-0 00289 U	0 0206 U	0 0294 U	0.0149 U	-0 00572 U	0 00795 U	0 U	0.00324 U
POTASSIUM-40	pCi/g	NE	17	21 9	22.6	19	11.8	11 9	11.7	12 9	11.8	12 7	11 3	12 3	11 1	14 6	11 9
PROMETHIUM-144	pCi/g	NE	-0 0092 U	0 0134 U	-0.0137 U	-0.00076 U	0 00513 U	0.0278 U	0 00501 U	0 0077 U	-0 00447 U	-0 00508 U	6 5E-06 U	0.0074 U	-0 00518 U	0 017 U	0 00569 U
PROMETHIUM-146	pCi/g	NE	0 0105 U	-0 00695 U	0.0608 U	0 0126 U	-0 0103 U	0 00113 U	-0 00707 U	0 00615 U	-0.011 U	0.0118 U	-0 00639 U	0 0213 U	0 0186 U	0 00458 U	0 00271 U
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	1 26	1 24	1 04	1 02	0.452	0.465	0 U	0.481	0 457	0.746	0 412	0.79	0.758	0.731	0 592
RUTHENIUM-106	pCi/g	NE	-0 013 U	0.183 U	0.0147 U	-0.0139 U	-0.0166 U	-0 0335 U	-0.0659 U	0 00884 U	0 0328 U	-0 0337 U	0.0551 U	0 0607 U	-0.19 U	-0.0487 U	-0 131 U
SILVER-110M	pCi/g	NE	0 0162 U	0 0252 U	0.0137 U	-0 00519 U	0.00357 U	-0 00957 U	-0.117 U	0.00569 U	-0 00374 U	0 000253 U	0 00141 U	0 00394 U	0 00847 U	-0 0124 U	-0 00444 U
SODIUM-22	pCi/g	NE	-0.00703 U	0 0446 U	0.00923 U	-0.0343 U	-0.00531 U	0.00594 U	0 00204 U	0 0181 U	0 0258 U	-0 0141 U	-0.0147 U	0 0149 U	0.00382 U	-0.00626 U	0 0201 U
THALLIUM-208	pCi/g	NE	0 342	0 44	0 444	0.366	0 175	0.125	0.165	0 175	0 128	0 246	0 11	0 213	0.222	0 237	0 172
THORIUM-230	pCi/g	NE	0 69	0 753	0 888	1 06	0 278	0 379	0 313	0 297	0 352	0 546	0 359	0 478	0 756	0 426	0 482
THORIUM-234	pCi/g	NE	1 84	2 39 U	0 819 U	1 04	0.783 U	1 3	0.15 U	0.539	0 544 U	1 22	0 429 U	0 83	0 U	0 219 U	0 685
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	-0.0556 U	0 0346 U	0.0215 U	-0.0196 U	-0.0201 U	0.00135 U	0 00175 U	0.00613 U	-0 00241 U	-0.0111 U	-0 00529 U	0.00449 U	0 0126 U	-0 00409 U	-0.011 U
URANIUM-235	pCi/g	NE	0 00209 U	0 268 U	0 0112 U	0.354	0 0653 U	0.0109 U	-0 0777 U	0 0362 U	0 U	0 0688 U	0 0849 U	0 143 U	0 033 U	0 054 U	0 0598 U
URANIUM-238	pCi/g	NE	1 84	2 39 U	0 819 U	1 04	0 783 U	1 3	0 15 U	0.539	0 544 U	1 22	0 429 U	0 83	0 U	0 219 U	0 685
YTTRIUM-88	pCi/g	NE	-0 00429 U	0 0164 U	0 0351 U	-0.0146 U	-0 00947 U	0 0119 U	-0.00138 U	0 0109 U	0 00159 U	-0 0123 U	0 00424 U	0 0134 U	0 00768 U	0 00827 U	-0 00764 U
ZINC-65	pCi/g	NE	-0 0453 U	0 0246 U	0 0604 U	-0 00139 U	-0 0134 U	0 0185 U	-0.00242 U	0 0168 U	0 019 U	-0 0269 U	-0 00486 U	0 00837 U	0 0264 U	0 0141 U	0 0374 U
ZIRCONIUM-95	pCi/g	NE	-0.0257 U	0.0576 U	-0.00794 U	0.00557 U	0.0237 U	0.0197 U	0.0883 U	0.0203 U	-0.00879 U	0.00297 U	0.00425 U	-0.00873 U	-0.0472 U	0.000238 U	-0.00277 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-013 (9)	0039-014	0039-015	0039-061	0039-062	0039-063	0039-064	0039-065	0039-066 (FD)	0039-067	0039-068 (FD)	0039-069	0039-070	0039-071	0039-072
Sample Location			B2 West Sidewall	B2 South Sidewall	B2 North Sidewall	B4 East Sidewall	B4 North Sidewall	B4 West Sidewall	B4 Floor	B4 South Sidewall	B4 South Sidewall	C5 Floor	C5 Floor	C5 East Sidewall	C5 North Sidewall-1	C5 West Sidewall-1	C5 South Sidewall-1
Sample Date			7/19/2001	7/19/2001	7/19/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001
Analyte	Units	Cleanup Goals															
Metals																	
HEXAVALENT CHROMIUM	mg/kg	0.2	0.25 U	0.23 U	0.23 U	0.25 U	0.26 U	0.25 U	0.23 U	0.26 U	0.25 U	0.23 U	0.22 U	0.25 U	0.24 U	0.22 U	0.24 U
ANTIMONY	mg/kg	NE	0.38 J	5.8 U	5.8 U	6.2 U	6.6 U	6.4 U	5.6 U	6.4 U	6.2 U	0.77 J	5.4 U	6.4 U	1 J	2.4 J	5.9 U
ARSENIC	mg/kg	9.05	3.3	1.4	1.3	2	3.1	2.1	1.9	2.7	2.1	3.2	1.9	3.1	2.9	3	2.9
BARIUM	mg/kg	NE	86.3	10.9	5.1	159	203	185	98.4	193	196	79.3	53.1	175	153	123	157
BERYLLIUM	mg/kg	NE	0.25 U	0.23 U	0.23 U	0.25 U	0.26 U	0.25 U	0.23 U	0.26 U	0.25 U	0.23 U	0.22 U	0.25 U	0.24 U	0.22 U	0.24 U
CADMIUM	mg/kg	NE	0.23 J	0.23 U	0.23 U	0.25 U	0.26 U	0.25 U	0.23 U	0.029 J	0.042 J	0.043 J	0.22 U	0.15 J	0.24 J	0.18 J	0.041 J
CHROMIUM	mg/kg	NE	26.1	3.6	2.4	18.8	28.8	20.8	18	21	20.6	13.7	10.2	28.4	30.4	29.6	27.1
COBALT	mg/kg	NE	7.2	1.9	1.5 J	11.9	16.2	13.2	11.8	13.5	13	6.4	5.1	13.7	11.7	9.2	12.8
COPPER	mg/kg	NE	287	2.2	1.5	16.5	25	18.6	17.8	20.4	18.1	22.8	11.6	49.6	131	250	21.6
LEAD	mg/kg	130	123	0.56 J	0.34 J	3.2	5.7	4.4	3.3	4.8	3.8	11.9	5.2	14.4	72.8	135	6.1
MERCURY	mg/kg	NE	1	0.23 U	0.23 U	0.062 J	0.11 J	0.091 J	0.081 J	0.084 J	0.077 J	0.11 J	0.053 J	0.25 J	0.48	0.89	0.084 J
MOLYBDENUM	mg/kg	NE	1.9	0.23 U	0.23 U	0.25 U	0.26 U	0.25 U	0.23 U	0.26 U	0.25 U	0.23 U	0.22 U	0.25 U	0.24 U	0.22 U	0.24 U
NICKEL	mg/kg	NE	9.4	0.88	0.66	8.8	13.1	9.7	8.5	9.2	9.5	5.9	3.9	12	13.6	9.4	10.8
SELENIUM	mg/kg	NE	0.62 UJ	0.58 UJ	0.58 UJ	0.62 U	0.66 U	0.64 U	0.56 U	0.53 J	0.65	0.24 J	0.54 U	0.28 J	0.6 U	0.65	0.59 U
SILVER	mg/kg	NE	0.62 U	0.58 U	0.58 U	0.62 U	0.66 U	0.64 U	0.56 U	0.64 U	0.62 U	0.57 U	0.54 U	0.64 U	0.6 U	0.56 U	0.59 U
THALLIUM	mg/kg	NE	0.62 U	0.58 U	0.58 U	0.62 U	0.66 U	0.64 U	0.56 U	0.64 U	0.62 U	0.57 U	0.54 U	0.64 U	0.6 U	0.56 U	0.59 U
VANADIUM	mg/kg	NE	38	12.4	9.9	52.3	78.3	59.2	61.6	62.5	58.3	34.4	31	67.8	60.7	48.6	68.8
ZINC	mg/kg	NE	204 J	6.3 J	4.2 J	38.3	60.9	42.2	33.6	45.6	44.5	49.8	25.8	89.3	181	264	53.6
Total Petroleum Hydrocarbons																	
DIESEL	mg/kg	NE	240	12 U	12 U	12 U	5 J	13 U	11 U	13 U	12 U	11 U	21	3 J	93	38	12 J
MOTOR OIL	mg/kg	NE	850	12 U	12 U	12 U	8 J	13 U	11 U	13 U	12 U	7 J	160	6 J	260	110	21
SPLP DIESEL	mg/L	NE	0.4 J	0.5 U	0.5 U	0.06 J	0.2 J	0.08 J	0.08 J	0.1 J	0.05 J	0.05 J	0.07 J	0.2 J	0.4 J	0.3 J	0.3 J
SPLP MOTOR OIL	mg/L	NE	0.5	0.5 U	0.5 U	0.3 J	0.4 J	0.1 J	0.2 J	0.2 J	0.1 J	0.1 J	0.2 J	0.4 J	0.7	0.5 J	0.5
Pesticides																	
4,4'-DDD	µg/kg	NE	620 UJ	2.3 UJ	2.3 UJ	2.5 UJ	2.6 UJ	2.5 UJ	2.3 UJ	2.6 UJ	2.5 UJ	2.3 UJ	2.2 UJ	2.5 UJ	11 J	3 J	2.4 UJ
4,4'-DDE	µg/kg	NE	620 U	2.3 U	2.3 U	2.5 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U	2.2 U	2.5 U	6	1 J	2.4 U
4,4'-DDT	µg/kg	NE	4300 J	2.3 UJ	2.3 UJ	2.5 UJ	2.6 UJ	2.5 UJ	2.3 UJ	2.6 UJ	2.5 UJ	2.3 UJ	4 J	5 J	24 J	7 J	2.4 UJ
ALDRIN	µg/kg	NE	310 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U
ALPHA-BHC	µg/kg	NE	310 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.2 UJ
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	310 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U
CHLORDANE	µg/kg	NE	16000 U	58 UJ	58 U	62 U	66 U	64 U	56 U	64 U	62 U	57 U	54 U	64 U	60 U	56 U	59 U
DELTA-BHC	µg/kg	NE	310 UJ	1.2 U	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.2 UJ
DIELDRIN	µg/kg	NE	620 U	2.3 U	2.3 U	2.5 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U	2.2 U	2.5 U	2.4 U	2.2 U	2.4 U
ENDOSULFAN I	µg/kg	NE	310 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U
ENDOSULFAN II	µg/kg	NE	620 U	2.3 U	2.3 U	2.5 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U	2.2 U	2.5 U	2.4 U	2.2 U	2.4 U
ENDOSULFAN SULFATE	µg/kg	NE	1600 U	5.8 U	5.8 U	6.2 UJ	6.6 UJ	6.4 UJ	5.6 UJ	6.4 UJ	6.2 UJ	5.7 UJ	5.4 UJ	6.4 U	6 U	5.6 U	5.9 U
ENDRIN	µg/kg	NE	620 U	2.3 U	2.3 U	2.5 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U	2.2 U	2.5 U	2.4 U	2.2 U	2.4 U
ENDRIN ALDEHYDE	µg/kg	NE	620 U	2.3 U	2.3 U	2.5 U	2.6 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U	2.2 U	2.5 UJ	2.4 UJ	2.2 UJ	2.4 UJ
ENDRIN KETONE	µg/kg	NE	620 UJ	2.3 UJ	2.3 UJ	2.5 UJ	2.6 UJ	2.5 UJ	2.3 UJ	2.6 UJ	2.5 UJ	2.3 UJ	2.2 UJ	2.5 U	2.4 U	2.2 U	2.4 U
GAMMA-BHC (LINDANE)	µg/kg	NE	310 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ	1.2 UJ
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	310 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	310 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U
METHOXYCHLOR	µg/kg	NE	3600	12 U	12 U	12 UJ	13 UJ	13 UJ	11 UJ	13 UJ	12 UJ	11 UJ	11 UJ	13 UJ	12 UJ	11 UJ	12 UJ
TOXAPHENE	µg/kg	NE	31000 U	120 U	120 U	120 U	130 U	130 U	110 U	130 U	120 U	110 U	110 U	130 U	120 U	110 U	120 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-013 (9)	0039-014	0039-015	0039-061	0039-062	0039-063	0039-064	0039-065	0039-066 (FD)	0039-067	0039-068 (FD)	0039-069	0039-070	0039-071	0039-072
Sample Location			B2 West Sidewall	B2 South Sidewall	B2 North Sidewall	B4 East Sidewall	B4 North Sidewall	B4 West Sidewall	B4 Floor	B4 South Sidewall	B4 South Sidewall	C5 Floor	C5 Floor	C5 East Sidewall	C5 North Sidewall-1	C5 West Sidewall-1	C5 South Sidewall-1
Sample Date			7/19/2001	7/19/2001	7/19/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001
Analyte	Units	Cleanup Goals															
Polychlorinated Biphenyls																	
AROCLOR 1016	µg/kg	NE	62000 U	58 U	58 U	62 U	66 U	64 U	56 U	64 U	62 U	57 U	54 U	64 U	60 U	56 U	59 U
AROCLOR 1221	µg/kg	NE	120000 U	120 U	120 U	120 U	130 U	130 U	110 U	130 U	120 U	110 U	110 U	130 U	120 U	110 U	120 U
AROCLOR 1232	µg/kg	NE	62000 U	58 U	58 U	62 U	66 U	64 U	56 U	64 U	62 U	57 U	54 U	64 U	60 U	56 U	59 U
AROCLOR 1242	µg/kg	NE	62000 U	58 U	58 U	62 U	66 U	64 U	56 U	64 U	62 U	57 U	54 U	64 U	60 U	56 U	59 U
AROCLOR 1248	µg/kg	NE	62000 U	58 U	58 U	62 U	66 U	64 U	56 U	64 U	62 U	57 U	54 U	64 U	60 U	56 U	59 U
AROCLOR 1254	µg/kg	NE	31000 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	30 U	28 U	30 U
AROCLOR 1260	µg/kg	NE	150000	3 J	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	3 J	32 U	33	20 J	30 U
Volatile Organic Compounds																	
1,1,1-TRICHLOROETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
1,1-DICHLOROETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
1,1-DICHLOROETHENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
1,2-DICHLOROETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
1,2-DICHLOROPROPANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
2-BUTANONE	µg/kg	NE	120 U	120 U	130 U	110 U	130 U	110 U	95 U	110 U	150 U	120 U	100 U	120 U	95 U	97 U	96 U
2-HEXANONE	µg/kg	NE	59 U	59 U	66 U	55 U	63 U	53 U	47 U	54 U	73 U	60 U	51 U	60 U	48 U	49 U	48 U
4-METHYL-2-PENTANONE	µg/kg	NE	59 U	59 U	66 U	55 U	63 U	53 U	47 U	54 U	73 U	60 U	51 U	60 U	48 U	49 U	48 U
ACETONE	µg/kg	NE	120 U	120 U	130 U	110 U	130 U	110 U	95 U	110 U	150 U	120 U	100 U	120 U	95 U	97 U	96 U
BENZENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
BROMODICHLOROMETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
BROMOFORM	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
BROMOMETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CARBON DISULFIDE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CARBON TETRACHLORIDE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	7
CHLOROBENZENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CHLOROETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CHLOROFORM	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CHLOROMETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
ETHYLBENZENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	12 U	12 U	13 U	11 U	13 U	11 U	9.5 U	11 U	15 U	12 U	10 U	12 U	9.5 U	9.7 U	9.6 U
METHYLENE CHLORIDE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
STYRENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
TETRACHLOROETHENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
TOLUENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
TRICHLOROETHENE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
VINYL ACETATE	µg/kg	NE	59 U	59 U	66 U	55 U	63 U	53 U	47 U	54 U	73 U	60 U	51 U	60 U	48 U	49 U	48 U
VINYL CHLORIDE	µg/kg	NE	5.9 U	5.9 U	6.6 U	5.5 U	6.3 U	5.3 U	4.7 U	5.4 U	7.3 U	6 U	5.1 U	6 U	4.8 U	4.9 U	4.8 U
XYLENES (TOTAL)	µg/kg	NE	18 U	18 U	20 U	16 U	19 U	16 U	14 U	16 U	22 U	18 U	15 U	18 U	14 U	15 U	14 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-013 (9)	0039-014	0039-015	0039-061	0039-062	0039-063	0039-064	0039-065	0039-066 (FD)	0039-067	0039-068 (FD)	0039-069	0039-070	0039-071	0039-072
Sample Location			B2 West Sidewall	B2 South Sidewall	B2 North Sidewall	B4 East Sidewall	B4 North Sidewall	B4 West Sidewall	B4 Floor	B4 South Sidewall	B4 South Sidewall	C5 Floor	C5 Floor	C5 East Sidewall	C5 North Sidewall-1	C5 West Sidewall-1	C5 South Sidewall-1
Sample Date			7/19/2001	7/19/2001	7/19/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001
Analyte	Units	Cleanup Goals															
Semivolatile Organic Compounds																	
1 2 4-TRICHLOROBENZENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
1 2-DICHLOROBENZENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
1 3-DICHLOROBENZENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
1 4-DICHLOROBENZENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2.4 5-TRICHLOROPHENOL	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
2.4.6-TRICHLOROPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2.4-DICHLOROPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2.4-DIMETHYLPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2 4-DINITROPHENOL	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
2.4-DINITROTOLUENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2 6-DINITROTOLUENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2-CHLORONAPHTHALENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2-CHLOROPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2-METHYLPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
2-NITROANILINE	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
2-NITROPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
3 3'-DICHLOROBENZIDINE	µg/kg	NE	3300 UJ	760 U	770 U	810 U	870 U	840 U	740 U	840 U	810 U	750 U	710 U	840 U	790 U	740 U	780 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
3-NITROANILINE	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
4-CHLOROANILINE	µg/kg	NE	3800 U	870 U	880 U	940 U	1000 U	970 U	860 U	970 U	940 U	860 U	820 U	970 U	910 U	850 U	900 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
4-NITROANILINE	µg/kg	NE	8000 UJ	1800 UJ	1900 UJ	2000 U	2100 U	2000 U	1800 U	2000 U	2000 UJ	1800 UJ	1700 UJ	2000 UJ	1900 UJ	1800 UJ	1900 UJ
4-NITROPHENOL	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
ACENAPHTHENE	µg/kg	NE	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	30 U	28 U	30 U
ACENAPHTHYLENE	µg/kg	NE	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	9 J	28 U	30 U
ANTHRACENE	µg/kg	6100	150 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	39	46	30 U
BENZ[A]ANTHRACENE	µg/kg	560	100 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	10 J	32 U	400	190	30 U
BENZO[A]PYRENE	µg/kg	56	85 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	400	140	30 U
BENZO[B]FLUORANTHENE	µg/kg	560	230 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	690	240	30 U
BENZO[G H I]PERYLENE	µg/kg	NE	150 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	230	98	30 U
BENZO[K]FLUORANTHENE	µg/kg	610	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	180	58	30 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	1600 UJ	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	1600 UJ	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
CHRYSENE	µg/kg	6100	170 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	510	210	30 U
DIBENZ[A H]ANTHRACENE	µg/kg	56	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	83	32	30 U
DIBENZOFURAN	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
DIETHYL PHTHALATE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
DIMETHYL PHTHALATE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	1600 UJ	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 UJ	420 U	390 UJ	370 UJ	390 UJ
FLUORANTHENE	µg/kg	NE	180 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	15 J	32 U	740	440	30 U
FLUORENE	µg/kg	NE	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	30 U	8 J	30 U
HEXACHLOROBENZENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-013 (9)	0039-014	0039-015	0039-061	0039-062	0039-063	0039-064	0039-065	0039-066 (FD)	0039-067	0039-068 (FD)	0039-069	0039-070	0039-071	0039-072
Sample Location			B2 West Sidewall	B2 South Sidewall	B2 North Sidewall	B4 East Sidewall	B4 North Sidewall	B4 West Sidewall	B4 Floor	B4 South Sidewall	B4 South Sidewall	C5 Floor	C5 Floor	C5 East Sidewall	C5 North Sidewall-1	C5 West Sidewall-1	C5 South Sidewall-1
Sample Date			7/19/2001	7/19/2001	7/19/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001
Analyte	Units	Cleanup Goals															
HEXACHLOROBUTADIENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
HEXACHLOROETHANE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
INDENO[1 2,3-CD]PYRENE	µg/kg	560	97 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	220	83	30 U
NAPHTHALENE	µg/kg	NE	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	27 U	32 U	30 U	28 U	30 U
NITROBENZENE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	3300 U	760 U	770 U	810 U	870 U	840 U	740 U	840 U	810 U	750 U	710 U	840 U	790 U	740 U	780 U
PENTACHLOROPHENOL	µg/kg	NE	8000 U	1800 U	1900 U	2000 U	2100 U	2000 U	1800 U	2000 U	2000 U	1800 U	1700 U	2000 U	1900 U	1800 U	1900 U
PHENANTHRENE	µg/kg	NE	250 U	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	8 J	32 U	170	180	30 U
PHENOL	µg/kg	NE	1600 U	380 U	380 U	410 U	440 U	420 U	370 U	420 U	410 U	370 U	360 U	420 U	390 U	370 U	390 U
PYRENE	µg/kg	NE	160 J	29 U	29 U	31 U	33 U	32 U	28 U	32 U	31 U	28 U	11 J	32 U	580	300	30 U
Organotin																	
DIBUTYLTIN	µg/kg	NE	12 U	12 U	12 U	12 U	13 U	13 U	11 U	13 U	12 U	11 U	11 U	13 U	12 U	11 U	12 U
MONOBUTYLTIN	µg/kg	NE	12 U	12 U	12 U	12 U	13 U	13 U	11 U	13 U	12 U	11 U	11 U	13 U	12 U	11 U	12 U
TETRABUTYLTIN	µg/kg	NE	12 U	12 U	12 U	12 U	13 U	13 U	11 U	13 U	12 U	11 U	11 U	13 U	12 U	11 U	12 U
TRIBUTYLTIN	µg/kg	NE	12 U	12 U	12 U	12 U	13 U	13 U	11 U	13 U	12 U	11 U	11 U	9 J	12 U	11 U	12 U
Dioxins and Furans																	
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	11180	1.1 U	1 6 U	6 6 U	4 5 U	2 5 U	14 9 J	17 8 J	6 8 U	68 7	218	18 J	1310	28810 J	184 J
1 2 3 4 6 7 8 9-OCDF	pg/g	NE	661	1.1 U	0 88 U	3 8 U	3 6 U	3 1 U	2 8 U	4 7 U	1.4 U	16 3 J	13 J	5 U	73 2	1000	72 3
1 2 3 4 6 7 8-HPCDD	pg/g	NE	1280	0 2 U	0.3 J	0 71 J	1 J	0 7 U	2 5 J	3 1 J	0 54 J	10 8	34	3 2 J	185	4380 J	29 2 J
1,2 3 4 6 7 8-HPCDF	pg/g	NE	346	0 24 U	0 15 U	0.54 U	0 67 U	0 57 U	1 1 U	1 U	0 44 U	6 1 J	11 1	2.1 U	48.4	396	12
1 2 3 4 7 8 9-HPCDF	pg/g	NE	87 2	0 1 U	0 09 U	0 4 U	0 3 U	0 4 U	0 5 U	0 7 U	0 4 U	0 93 J	0 4 U	0 5 U	2 J	18	5 1
1 2 3 4 7 8-HXCDD	pg/g	NE	13 5	0 1 U	0 08 U	0 4 U	0 3 U	0 4 U	0 4 U	0 7 U	0 4 U	0 7 U	1 2 J	0 5 U	5	168	0 7 J
1,2,3 4 7 8-HXCDF	pg/g	NE	248	0.22 U	0 15 U	0 3 U	0 33 U	0 32 U	0 3 U	0 4 U	0 3 U	2 8 U	4 7 U	0 46 U	20 1	103	5
1 2 3 6 7 8-HXCDD	pg/g	NE	48 5	0 1 U	0 09 U	0 5 U	0 3 U	0 5 U	0 4 U	0 7 U	0 4 U	0 59 J	1 5 J	0 5 U	6 4	140	1 1 J
1 2 3,6 7 8-HXCDF	pg/g	NE	35 9	0 18 J	0 06 U	0 3 U	0 24 J	0 3 U	0 3 U	0 5 U	0 3 U	1.1 J	1 7 J	0 37 J	6 7	38 9	2 6 J
1,2 3 7,8,9-HXCDD	pg/g	NE	33.5	0 23 J	0 08 U	0 4 U	0 3 U	0 4 U	0.4 U	0 7 U	0 4 U	1.1 J	3 4 J	0 51 J	15 1	475	2 3 J
1 2 3 7 8 9-HXCDF	pg/g	NE	10 4 J	0 1 U	0 07 U	0 4 U	0 2 U	0 4 U	0 4 U	0 6 U	0 3 U	0 5 U	0 3 U	0 4 U	0 4 U	3 1 J	1 5 J
1 2 3 7 8-PECDD	pg/g	NE	6 4	0 1 U	0 08 U	0 4 U	0 2 U	0 4 U	0 4 U	0 6 U	0 4 U	0 5 U	0 81 J	0 3 U	2 7 J	60 9	0 24 J
1 2 3 7 8-PECDF	pg/g	NE	22 1	0 1 U	0 08 U	0 2 U	0 23 J	0 3 U	0 3 U	0 4 U	0 2 U	1 3 J	0 81 J	0 2 U	2 8 J	18 6	2.5 J
2 3 4 6,7 8-HXCDF	pg/g	NE	30 1	0.18 J	0 06 U	0 3 U	0 2 U	0 3 U	0 3 U	0 4 U	0 3 U	1.3 J	2 5 J	0 3 U	10 2	53	1.5 J
2,3,4 7 8-PECDF	pg/g	NE	64 5	0 1 U	0 07 U	0 2 U	0 2 U	0 3 U	0 3 U	0 4 U	0 2 U	0.8 J	1 6 J	0.2 U	7	35 9	0 73 J
2.3.7 8-TCDD	pg/g	NE	0 42 J	0 1 U	0 1 U	0 3 U	0 2 U	0 3 U	0 3 U	0 6 U	0 3 U	0 4 U	0 3 U	0 2 U	0 51 J	10 2	0 34 J
2.3.7 8-TCDF	pg/g	NE	69 2	0 09 U	0.06 U	0 2 U	0 24 U	0 2 U	0 3 U	0 4 U	0 2 U	1 3 J	2 7 J	0.31 U	11 9	62 4	1 6 J
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	1.15E-04	5.90E-08	3.00E-09	7.10E-09	4.55E-08	0.00E+00	3.99E-08	4.88E-08	5.40E-09	1.27E-06	3.23E-06	1.38E-07	1.68E-05	2.42E-04	3.30E-06
Radiochemistry																	
GROSS ALPHA	pCi/g	NE	2.93 U	1 57 U	2 88	5 17	4 53	6 43	2 8 U	2 57	6.72	1 98	3 48	-0 133 U	0 966	5.9	7 54
GROSS BETA	pCi/g	NE	12 8 U	14 8 U	12.2 U	17 1 U	8 89	11 9	14 5 U	7 29	17 9	11.2	12	6	0 388 U	13 8	21 5
ACTINIUM-227	pCi/g	NE	-0 027 U	-0 123 U	-0 174 U	-0 11 U	0 0509 U	-0 164 U	-0 151 U	0 14 U	-0 272 U	-0 123 U	0 0592 U	0 106 U	-0 0275 U	-0 11 U	-0 09 U
ACTINIUM-228	pCi/g	NE	0.476	0 268	0 U	0 691	0 971	0 709	0 531	0 947	0.633	0 507	0 676	0 598	0 613	0 U	0 884
AMERICIUM-241	pCi/g	NE	-0 0088 U	0 0053 U	0 0306 U	0 0521 U	0 0208 U	0 00811 U	-0 0245 U	0 039 U	0 0811 U	0 00469 U	0 0373 U	0 000481 U	-0 0182 U	-0 162 U	0 0757 U
ANTIMONY-124	pCi/g	NE	0 019 U	0 00877 U	-0 00031 U	-0 00601 U	-0 00179 U	0.00207 U	-0 0107 U	0 00138 U	-0 044 U	-0 0061 U	-0 006 U	-0 0134 U	0 U	0 0405 U	-0 00653 U
ANTIMONY-125	pCi/g	NE	0 0098 U	0 0176 U	0 00731 U	0 0169 U	-0 00873 U	0 0139 U	-0 0111 U	0 00709 U	-0 00746 U	0 0195 U	0 00342 U	0 0183 U	-0 0184 U	0 0389 U	-0 000524 U
BARIUM-133	pCi/g	NE	-0 00733 U	0 00143 U	0 0173 U	-0 00275 U	-0 00849 U	-0 015 U	-0 00408 U	0 0231 U	0 0022 U	-0 187 U	-0 000149 U	0 00763 U	0 0069 U	0 00585 U	-0 00348 U
BARIUM-140	pCi/g	NE	0 0249 U	0 0654 U	0 0805 U	-0 0942 U	0 0587 U	-0 0655 U	-0 0841 U	-0 055 U	0.0206 U	-0 0848 U	0 021 U	0 111 U	0 145 U	-0 049 U	0 00249 U
BERYLLIUM-7	pCi/g	NE	-0 0271 U	0 00717 U	-0 0362 U	0 00727 U	0 0137 U	-0 242 U	-0 0684 U	0 0499 U	0 116 U	0 0156 U	0 0188 U	0 0397 U	-0 038 U	0 0601 U	-0 0204 U
BISMUTH-212	pCi/g	NE	0 322	0 131 U	0 228 U	0 594	0 293	0 769	0 329	0 547	0 196 U	0 149 U	0 409	0 421	0 639	0 276 U	0 688
BISMUTH-214	pCi/g	NE	0 502	0 252	0 276	0 U	0 685	0 627	0 462	0 565	0 661	0 432	0 384	0 46	0 677	0 803	0 567
CERIUM-139	pCi/g	NE	0.00144 U	-0.00357 U	0.00603 U	-0.00265 U	-0.00567 U	-0.0203 U	0.00158 U	-0.00195 U	-0.0189 U	0.00401 U	0.000408 U	0.00206 U	-0.00901 U	-0.00105 U	-0.00761 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-013 (9)	0039-014	0039-015	0039-061	0039-062	0039-063	0039-064	0039-065	0039-066 (FD)	0039-067	0039-068 (FD)	0039-069	0039-070	0039-071	0039-072
Sample Location			B2 West Sidewall	B2 South Sidewall	B2 North Sidewall	B4 East Sidewall	B4 North Sidewall	B4 West Sidewall	B4 Floor	B4 South Sidewall	B4 South Sidewall	C5 Floor	C5 Floor	C5 East Sidewall	C5 North Sidewall-1	C5 West Sidewall-1	C5 South Sidewall-1
Sample Date			7/19/2001	7/19/2001	7/19/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001	7/23/2001
Analyte	Units	Cleanup Goals															
CERIUM-141	pCi/g	NE	0.0316 U	-0.00406 U	0.0216 U	0.0165 U	-0.00631 U	0.0591 U	0.0052 U	0.0093 U	0.0108 U	0.0178 U	0.0492 U	0.0125 U	0.0382 U	0.0357 U	0.0192 U
CERIUM-144	pCi/g	NE	0.0323 U	-0.00653 U	-0.0208 U	-0.0922 U	0.0428 U	-0.045 U	0.0181 U	0.0213 U	-0.00817 U	-0.00411 U	-0.0385 U	0.0148 U	0.0858 U	-0.103 U	0.0864 U
CESIUM-134	pCi/g	NE	-0.0294 U	-0.00722 U	0.00408 U	-0.00705 U	-0.0028 U	-0.06 U	-0.0211 U	-0.00142 U	0.00108 U	-0.00419 U	-0.0114 U	0.00312 U	0 U	0.00336 U	0.00303 U
CESIUM-136	pCi/g	NE	0.00195 U	0.00266 U	-0.0219 U	-0.0151 U	-0.00585 U	-0.332 U	0.0807 U	-0.0333 U	0.0303 U	0.0566 U	0.0206 U	-0.028 U	0.0194 U	-0.0826 U	0.0101 U
CESIUM-137	pCi/g	NE	0.0009 U	-0.00675 U	-0.00589 U	0.00593 U	0.00167 U	0.0132 U	0.0307 U	0.0102 U	0 U	-0.00223 U	0.0237 U	0.0092 U	0.0104 U	0 U	0.0068 U
CHROMIUM-51	pCi/g	NE	0.00122 U	-0.0927 U	-0.0148 U	-0.0856 U	0.000937 U	-0.0787 U	0.133 U	-0.131 U	0.237 U	0.0457 U	0.073 U	-0.104 U	0.202 U	-0.044 U	0.117 U
COBALT-56	pCi/g	NE	-0.00141 U	-0.0186 U	0.0033 U	-0.00779 U	-0.0123 U	0.0395 U	-0.0302 U	-0.0113 U	-0.0355 U	-0.0268 U	-0.00581 U	0.00904 U	0.000216 U	0.0144 U	0.00771 U
COBALT-57	pCi/g	NE	-0.003 U	-0.00446 U	-0.00222 U	-0.00414 U	0.00164 U	0.00317 U	-0.00061 U	-0.00155 U	0.00438 U	-0.00741 U	0.00092 U	0.00252 U	0.00483 U	-0.00679 U	0.000429 U
COBALT-58	pCi/g	NE	-0.00119 U	0.0015 U	-0.013 U	-0.013 U	0.00128 U	-0.0201 U	-0.00954 U	0.00344 U	-0.00637 U	-0.0246 U	0.0141 U	0.00234 U	-0.00991 U	0.0224 U	-0.0108 U
COBALT-60	pCi/g	NE	-0.00358 U	0.00296 U	0.0251 U	-0.00321 U	-0.00318 U	-0.00888 U	0.00873 U	0.00263 U	0.0125 U	0.0169 U	0.0182 U	0.00587 U	0.0216 U	0.0132 U	0.0023 U
EUROPIUM-152	pCi/g	NE	0.00117 U	-0.0114 U	0.00487 U	-0.0124 U	0.0303 U	0.018 U	-0.00489 U	-0.00732 U	-0.012 U	-0.00321 U	-0.0246 U	-0.0103 U	-0.0475 U	0.0159 U	-0.0112 U
EUROPIUM-154	pCi/g	NE	0.0377 U	0.0345 U	-0.0694 U	-0.0557 U	0.0132 U	0.0192 U	-0.00028 U	-0.00197 U	0.0219 U	0.0388 U	-0.0473 U	0.0285 U	0.0227 U	-0.0266 U	-0.0168 U
EUROPIUM-155	pCi/g	NE	0.0315 U	-0.00988 U	0.000245 U	0.0128 U	0.0882 U	0.086 U	-0.0192 U	0.0201 U	0.00574 U	0.0436 U	0.0015 U	0.0209 U	0.059 U	-0.0362 U	0.0689 U
IODINE-131	pCi/g	NE	-0.0164 U	-0.0335 U	-0.0142 U	-0.0249 U	-0.00943 U	0.17 U	-0.0172 U	-0.0237 U	-0.0672 U	-0.0365 U	-0.0743 U	-0.00301 U	0.0036 U	0.0437 U	0.0191 U
IRIDIUM-192	pCi/g	NE	0.00848 U	0.00749 U	0.00332 U	0.014 U	-0.000439 U	-0.026 U	0.00446 U	0.0059 U	-0.0214 U	-0.0151 U	-0.00901 U	0.0148 U	0.0206 U	0.00793 U	-0.0022 U
IRON-59	pCi/g	NE	0.0308 U	-0.00388 U	-0.0117 U	0.0112 U	-0.031 U	-0.1 U	-0.023 U	-0.0256 U	0.0204 U	-0.0356 U	-3.87E-05 U	-0.0239 U	0.00679 U	-0.012 U	-0.0435 U
LEAD-210	pCi/g	NE	0.805 U	0.543	0.34 U	3.64 U	1.5 U	0.689	3.88 U	0.64 U	0.604 U	0.468	1.66 U	1.44 U	0.165 U	0.0832 U	2.84 U
LEAD-212	pCi/g	NE	0.494	0.275	0.389	0.784	0.883	0.859	0.601	0.977	0.801	0.561	0.683	0.732	0.784	0.609	0.964
LEAD-214	pCi/g	NE	0.512	0.199	0.272	0.605	0.734	0.614	0.497	0.721	0.576	0.481	0.493	0.626	0.585	0.617	0.697
MANGANESE-54	pCi/g	NE	0.0188 U	-0.00574 U	0.00775 U	0.00755 U	0.00575 U	0.0358 U	0.0178 U	0.00924 U	0.0165 U	-0.00381 U	0.00768 U	0.0194 U	0.0218 U	-0.0178 U	0.0199 U
MERCURY-203	pCi/g	NE	0.0118 U	0.00518 U	0.0259 U	0.016 U	0 U	0.0201 U	-0.00599 U	0.0154 U	0.044 U	0.0109 U	0 U	0.0224 U	0.00989 U	0.0069 U	0 U
NEODYMIUM-147	pCi/g	NE	0.00623 U	0.0327 U	0.0227 U	-0.0916 U	-0.0623 U	-1.02 U	-0.153 U	0.00561 U	0.296 U	-0.126 U	-0.0756 U	-0.0589 U	-0.023 U	-0.296 U	-0.211 U
NEPTUNIUM-239	pCi/g	NE	-0.0443 U	-0.0498 U	-0.00319 U	0.0585 U	0.0266 U	0.00922 U	-0.0345 U	-0.0287 U	-0.111 U	0.0256 U	0.00954 U	0.00193 U	0.0298 U	0.00503 U	-0.0684 U
NIOBIUM-94	pCi/g	NE	0.00622 U	0.00526 U	0.00466 U	0.027 U	-0.00545 U	0.00548 U	0.00222 U	-0.00404 U	0.0126 U	0.00321 U	0.00794 U	0.00477 U	0.0276 U	-0.00969 U	0.00169 U
NIOBIUM-95	pCi/g	NE	-0.00362 U	0.00394 U	0.0263 U	0.0251 U	0.0233 U	-0.0461 U	-0.00292 U	0.0392 U	0.0231 U	-0.0387 U	0 U	0.0354 U	-0.0105 U	0.0122 U	0.00647 U
POTASSIUM-40	pCi/g	NE	13.9	13.3	11.5	16	17.8	16.1	14	18.2	14.3	13.4	13.7	16.6	16.2	13.8	17.1
PROMETHIUM-144	pCi/g	NE	-0.00872 U	0.0149 U	-0.0105 U	-0.00652 U	-0.0136 U	-0.00784 U	0.00879 U	0.00212 U	-0.0018 U	0.00823 U	0.00167 U	-0.000545 U	-0.0163 U	0.00882 U	0.00342 U
PROMETHIUM-146	pCi/g	NE	0.00111 U	0.00827 U	-0.007 U	-0.00799 U	-0.0003 U	-0.00563 U	0.00947 U	0.000488 U	0.0137 U	0.0309 U	-0.0123 U	0.00191 U	0.0207 U	0 U	0.00229 U
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	0.476	0.268	0 U	0.691	0.971	0.709	0.531	0.947	0.633	0.507	0.676	0.598	0.613	0 U	0.884
RUTHENIUM-106	pCi/g	NE	-0.0594 U	-0.0104 U	0.135 U	0.039 U	0.0477 U	0.212 U	0.0913 U	0.00448 U	-0.145 U	0.00055 U	0.0461 U	-0.00823 U	0.0878 U	-0.0612 U	-0.0118 U
SILVER-110M	pCi/g	NE	-0.00864 U	-0.00267 U	0.00121 U	-0.0115 U	0.0125 U	0.000169 U	-0.00612 U	-0.00178 U	-0.098 U	-0.0101 U	-0.00271 U	-0.0117 U	-0.00249 U	-0.126 U	0.00143 U
SODIUM-22	pCi/g	NE	0.0135 U	0.0125 U	-0.0249 U	-0.0201 U	0.00464 U	0.00645 U	-5.14E-05 U	-0.002 U	0.00795 U	0.0138 U	-0.0171 U	0.0159 U	0.00816 U	-0.00953 U	-0.00603 U
THALLIUM-208	pCi/g	NE	0.182	0.0926	0.117	0.26	0.273	0.292	0.184	0.256	0.238	0.165	0.19	0.213	0.256	0.256	0.278
THORIUM-230	pCi/g	NE	0.502	0.252	0.276	0.46	0.685	0.627	0.462	0.565	0.661	0.432	0.384	0.46	0.677	0.803	0.567
THORIUM-234	pCi/g	NE	0.865 U	0.54	0.562	1.74 J	2.81	0.751	0.957 U	1	1.38	0.95	0.164 U	0.0706 U	1.25	0 U	1.64
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	-0.00783 U	0.000673 U	-0.0152 U	-0.0131 U	-0.0133 U	-0.00118 U	0.00825 U	-0.00602 U	-0.0226 U	-0.00506 U	-0.0182 U	0.00179 U	-0.000622 U	0.00959 U	0.00566 U
URANIUM-235	pCi/g	NE	0.117 U	0.0383 U	0.0706 U	0.0618 U	0.0696 U	0.105 U	0.0428 U	0.0381 U	0.24 U	0.0639 U	0 U	0.0518 U	0.137 U	0.17 U	0.0743 U
URANIUM-238	pCi/g	NE	0.865 U	0.54	0.562	1.74 J	2.81	0.751	0.957 U	1	1.38	0.95	0.164 U	0.0706 U	1.25	0 U	1.64
YTTRIUM-88	pCi/g	NE	0.02 U	0.00591 U	-0.00146 U	0.00423 U	-0.00332 U	-0.0167 U	0.0122 U	-0.000202 U	0.00314 U	0.0135 U	0.00507 U	-0.00527 U	0.0103 U	-0.0126 U	-0.000119 U
ZINC-65	pCi/g	NE	-0.0389 U	-0.0337 U	0.0165 U	0.0349 U	0.0182 U	-0.0201 U	-0.00166 U	0.0205 U	-0.0765 U	-0.00229 U	0.00954 U	0.027 U	0.0231 U	0.0212 U	-0.0183 U
ZIRCONIUM-95	pCi/g	NE	0.03 U	0.00666 U	-0.00708 U	0.000329 U	0.0154 U	-0.012 U	-0.0214 U	0.0509 U	0.0205 U	0.0377 U	0 U	0.0399 U	0.0238 U	0.0133 U	0.0151 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-075	0039-076	0039-077	0039-078	0039-079	0039-080	0039-081 (FD)	0039-082	0039-083	0039-084	0039-085	0039-087
Sample Location			C1 Floor	C1 East Sidewall	C1 South Sidewall	C1 West Sidewall	C1 North Sidewall	B1 Floor	B1 Floor	B1 North Sidewall	B1 West Sidewall	B1 South Sidewall	B1 East Sidewall	C5 West Sidewall-3
Sample Date			7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	12/18/2001
Analyte	Units	Cleanup Goals												
Metals														
HEXAVALENT CHROMIUM	mg/kg	0.2	0.21 U	0.23 U	0.21 U	0.21 U	0.24 U	0.23 U	0.24 U	0.21 U	0.21 U	0.21 U	0.22 U	0.2 J
ANTIMONY	mg/kg	NE	5.2 U	5.7 U	5.2 U	5.3 U	5.9 U	5.8 U	6 U	5.2 U	5.2 U	5.3 U	5.6 U	0.45 J
ARSENIC	mg/kg	9.05	2.1	2.2	1.9	2.1	2.3	1.4	1.7	0.58	0.6	0.54	2	5.3
BARIUM	mg/kg	NE	28	27.7	17.2	20.6	87.8	30.7	25.2	22.7	13	20.8	108	138
BERYLLIUM	mg/kg	NE	0.21 U	0.23 U	0.21 U	0.21 U	0.24 U	0.23 U	0.24 U	0.21 U	0.21 U	0.21 U	0.22 U	0.24 U
CADMIUM	mg/kg	NE	0.19 J	0.021 J	0.21 U	0.21 U	0.24 U	0.23 U	0.24 U	0.014 J	0.21 U	0.21 U	0.057 J	0.32
CHROMIUM	mg/kg	NE	7.3	8.5	5.7	6.1	7.9	6.5	6.6	5.3	4.8	5.5	16.6	28.2
COBALT	mg/kg	NE	2.6	3.1	2.3	2.4	2.9	4.5	3.3	2.4	1.9	1.8	11.8	10.5
COPPER	mg/kg	NE	19.2	4.2	2.9	3.1	7.7	5.9	4	2.9	2.3	2.4	12.4	63.7
LEAD	mg/kg	130	8.4	2.1	1.3	1.4	1.7	1.4	1.2	1	0.75	0.7	4.6	51.4
MERCURY	mg/kg	NE	0.082 J	0.026 J	0.027 J	0.026 J	0.036 J	0.023 J	0.24 U	0.21 U	0.21 U	0.21 U	0.22 U	0.36
MOLYBDENUM	mg/kg	NE	0.86	0.19 J	0.17 J	0.041 J	0.26	0.23 U	0.24 U	0.21 U	0.21 U	0.21 U	0.22 U	0.74
NICKEL	mg/kg	NE	2.6	3.1	1.9	2.1	2.4	2.6	2.4	1.6	1.3	1.4	9.3	10.1
SELENIUM	mg/kg	NE	0.52 U	0.57 U	0.52 U	0.53 U	0.59 U	0.58 U	0.6 U	0.22 J	0.52 U	0.53 U	0.79	0.65
SILVER	mg/kg	NE	0.52 U	0.57 U	0.52 U	0.53 U	0.59 U	0.58 U	0.6 U	0.52 U	0.52 U	0.53 U	0.56 U	0.59 U
THALLIUM	mg/kg	NE	0.52 U	0.57 U	0.52 U	0.53 U	0.59 U	0.58 U	0.6 U	0.52 U	0.52 U	0.53 U	0.56 U	0.59 U
VANADIUM	mg/kg	NE	13.7	16.6	10.8	12.2	22.3	19.5	18.7	20.1	17.7	20.5	44.9	58.5
ZINC	mg/kg	NE	63.9 J	15 J	9.7 J	10.7 J	14 J	13.3 J	11.5 J	7.4 J	4.7 J	6.1 J	38.8 J	123
Total Petroleum Hydrocarbons														
DIESEL	mg/kg	NE	10 U	11 U	10 U	11 U	12 U	12 U	12 U	10 U	10 U	11 U	11 U	60
MOTOR OIL	mg/kg	NE	14	11 U	10 U	11 U	30	12 U	5 J	10 U	10 U	11 U	11 U	240
SPLP DIESEL	mg/L	NE	0.1 J	0.1 J	0.2 J	0.05 J	0.1 J	0.04 J	0.1 J	0.05 J	0.08 J	0.06 J	0.06 J	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.2 J	0.1 J	0.2 J	0.2 J	0.1 J	0.2 J	0.2 J	0.2 J	0.2 J	0.1 J	0.2 J	0.5 U
Pesticides														
4,4'-DDD	µg/kg	NE	2.1 UJ	2.3 UJ	2.1 UJ	2.1 UJ	2.4 UJ	2.3 UJ	2.4 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.2 UJ	3
4,4'-DDE	µg/kg	NE	2.1 UJ	2.3 U	2.1 U	2.1 U	2.4 U	2.3 U	2.4 U	2.1 UJ	2.1 UJ	2.1 UJ	2.2 UJ	2 J
4,4'-DDT	µg/kg	NE	2.1 UJ	2.3 UJ	2.1 UJ	2.1 UJ	2.4 UJ	2.3 UJ	2.4 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.2 UJ	3 J
ALDRIN	µg/kg	NE	1 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U	1 U	1 U	1.1 U	1.1 U	1.2 U
ALPHA-BHC	µg/kg	NE	1 UJ	1.1 UJ	1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1 UJ	1 UJ	1.1 UJ	1.1 UJ	1.2 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U	1 U	1 U	1.1 U	1.1 U	1.2 U
CHLORDANE	µg/kg	NE	52 U	57 U	52 U	53 U	59 U	58 U	60 U	52 U	52 U	53 U	56 U	59 U
DELTA-BHC	µg/kg	NE	1 UJ	1.1 UJ	1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1 UJ	1 UJ	1.1 UJ	1.1 UJ	1.2 U
DIELDRIN	µg/kg	NE	2.1 U	2.3 U	2.1 U	2.1 U	2.4 U	2.3 U	2.4 U	2.1 U	2.1 U	2.1 U	2.2 U	2.4 U
ENDOSULFAN I	µg/kg	NE	1 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U	1 U	1 U	1.1 U	1.1 U	1.2 U
ENDOSULFAN II	µg/kg	NE	2.1 U	2.3 U	2.1 U	2.1 U	2.4 U	2.3 U	2.4 U	2.1 U	2.1 U	2.1 U	2.2 U	2.4 U
ENDOSULFAN SULFATE	µg/kg	NE	5.2 U	5.7 U	5.2 U	5.3 U	5.9 U	5.8 U	6 U	5.2 U	5.2 U	5.3 U	5.6 U	5.9 U
ENDRIN	µg/kg	NE	2.1 U	2.3 U	2.1 U	2.1 U	2.4 U	2.3 U	2.4 U	2.1 U	2.1 U	2.1 U	2.2 U	2.4 UJ
ENDRIN ALDEHYDE	µg/kg	NE	2.1 U	2.3 U	2.1 U	2.1 U	2.4 U	2.3 U	2.4 U	2.1 U	2.1 U	2.1 U	2.2 U	2.4 U
ENDRIN KETONE	µg/kg	NE	2.1 UJ	2.3 U	2.1 U	2.1 U	2.4 U	2.3 U	2.4 U	2.1 UJ	2.1 UJ	2.1 UJ	2.2 UJ	2.4 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1 UJ	1.1 UJ	1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1 UJ	1 UJ	1.1 UJ	1.1 UJ	1.2 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U	1 U	1 U	1.1 U	1.1 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.2 U	1 U	1 U	1.1 U	1.1 U	1.2 U
METHOXYCHLOR	µg/kg	NE	10 U	11 U	10 U	11 U	12 U	12 U	12 U	10 U	10 U	11 U	11 U	12 UJ
TOXAPHENE	µg/kg	NE	100 U	110 U	100 U	110 U	120 U	120 U	120 U	100 U	100 U	110 U	110 U	120 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-075	0039-076	0039-077	0039-078	0039-079	0039-080	0039-081 (FD)	0039-082	0039-083	0039-084	0039-085	0039-087
Sample Location			C1 Floor	C1 East Sidewall	C1 South Sidewall	C1 West Sidewall	C1 North Sidewall	B1 Floor	B1 Floor	B1 North Sidewall	B1 West Sidewall	B1 South Sidewall	B1 East Sidewall	C5 West Sidewall-3
Sample Date			7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	12/18/2001
Analyte	**Units**	**Cleanup Goals**												
Polychlorinated Biphenyls														
AROCLOR 1016	µg/kg	NE	52 U	57 U	52 U	53 U	59 U	58 U	60 U	52 U	52 U	53 U	56 U	59 U
AROCLOR 1221	µg/kg	NE	100 U	110 U	100 U	110 U	120 U	120 U	120 U	100 U	100 U	110 U	110 U	120 U
AROCLOR 1232	µg/kg	NE	52 U	57 U	52 U	53 U	59 U	58 U	60 U	52 U	52 U	53 U	56 U	59 U
AROCLOR 1242	µg/kg	NE	52 U	57 U	52 U	53 U	59 U	58 U	60 U	52 U	52 U	53 U	56 U	59 U
AROCLOR 1248	µg/kg	NE	52 U	57 U	52 U	53 U	59 U	58 U	60 U	52 U	52 U	53 U	56 U	59 U
AROCLOR 1254	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
AROCLOR 1260	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	38
Volatile Organic Compounds														
1,1,1-TRICHLOROETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
1,1-DICHLOROETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
1,1-DICHLOROETHENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
1,2-DICHLOROETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
1,2-DICHLOROPROPANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
2-BUTANONE	µg/kg	NE	120 U	120 U	100 U	110 U	120 U	120 U	120 U	120 U	93 U	110 U	100 U	92 U
2-HEXANONE	µg/kg	NE	59 U	60 U	52 U	56 U	59 U	59 U	58 U	59 U	47 U	57 U	51 U	46 U
4-METHYL-2-PENTANONE	µg/kg	NE	59 U	60 U	52 U	56 U	59 U	59 U	58 U	59 U	47 U	57 U	51 U	46 U
ACETONE	µg/kg	NE	120 UJ	120 UJ	100 UJ	110 UJ	120 UJ	120 UJ	120 UJ	120 UJ	93 UJ	110 UJ	100 UJ	92 U
BENZENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
BROMODICHLOROMETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
BROMOFORM	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
BROMOMETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CARBON DISULFIDE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CARBON TETRACHLORIDE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CHLOROBENZENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CHLOROETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CHLOROFORM	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CHLOROMETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
ETHYLBENZENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	12 U	12 U	10 U	11 U	12 U	12 U	12 U	12 U	9.3 U	11 U	10 U	9.2 U
METHYLENE CHLORIDE	µg/kg	NE	5.9 UJ	6 UJ	5.2 UJ	5.6 UJ	5.9 UJ	5.9 UJ	5.8 UJ	5.9 UJ	4.7 UJ	5.7 UJ	5.1 UJ	4.6 U
STYRENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
TETRACHLOROETHENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
TOLUENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
TRICHLOROETHENE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
VINYL ACETATE	µg/kg	NE	59 U	60 U	52 U	56 U	59 U	59 U	58 U	59 U	47 U	57 U	51 U	46 U
VINYL CHLORIDE	µg/kg	NE	5.9 U	6 U	5.2 U	5.6 U	5.9 U	5.9 U	5.8 U	5.9 U	4.7 U	5.7 U	5.1 U	4.6 U
XYLENES (TOTAL)	µg/kg	NE	18 U	18 U	16 U	17 U	18 U	18 U	17 U	18 U	14 U	17 U	15 U	14 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-075	0039-076	0039-077	0039-078	0039-079	0039-080	0039-081 (FD)	0039-082	0039-083	0039-084	0039-085	0039-087
Sample Location			C1 Floor	C1 East Sidewall	C1 South Sidewall	C1 West Sidewall	C1 North Sidewall	B1 Floor	B1 Floor	B1 North Sidewall	B1 West Sidewall	B1 South Sidewall	B1 East Sidewall	C5 West Sidewall-3
Sample Date			7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	12/18/2001
Analyte	Units	Cleanup Goals												
Semivolatile Organic Compounds														
1 2,4-TRICHLOROBENZENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
1,2-DICHLOROBENZENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
1,3-DICHLOROBENZENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
1 4-DICHLOROBENZENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
2,4 6-TRICHLOROPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2 4-DICHLOROPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2,4-DIMETHYLPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2,4-DINITROPHENOL	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
2,4-DINITROTOLUENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2 6-DINITROTOLUENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2-CHLORONAPHTHALENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2-CHLOROPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2-METHYLPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
2-NITROANILINE	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
2-NITROPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
3 3 -DICHLOROBENZIDINE	µg/kg	NE	680 U	760 U	680 U	710 U	780 U	770 U	790 U	690 U	680 U	690 U	730 U	780 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
3-NITROANILINE	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
4-CHLOROANILINE	µg/kg	NE	780 U	870 U	790 U	810 U	900 U	890 U	910 U	790 U	790 U	800 U	840 U	900 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
4-NITROANILINE	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
4-NITROPHENOL	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
ACENAPHTHENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
ACENAPHTHYLENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
ANTHRACENE	µg/kg	6100	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
BENZ[A]ANTHRACENE	µg/kg	560	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	9 J
BENZO[A]PYRENE	µg/kg	56	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	9 J
BENZO[B]FLUORANTHENE	µg/kg	560	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	22 J
BENZO[G,H,I]PERYLENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	16 J
BENZO[K]FLUORANTHENE	µg/kg	610	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	11 J
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
CHRYSENE	µg/kg	6100	26 U	29 U	26 U	27 U	8 J	29 U	30 U	26 U	26 U	26 U	28 U	17 J
DIBENZ[A,H]ANTHRACENE	µg/kg	56	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
DIBENZOFURAN	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
DIETHYL PHTHALATE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
DIMETHYL PHTHALATE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
FLUORANTHENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	17 J
FLUORENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
HEXACHLOROBENZENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-075	0039-076	0039-077	0039-078	0039-079	0039-080	0039-081 (FD)	0039-082	0039-083	0039-084	0039-085	0039-087
Sample Location			C1 Floor	C1 East Sidewall	C1 South Sidewall	C1 West Sidewall	C1 North Sidewall	B1 Floor	B1 Floor	B1 North Sidewall	B1 West Sidewall	B1 South Sidewall	B1 East Sidewall	C5 West Sidewall-3
Sample Date			7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	12/18/2001
Analyte	**Units**	**Cleanup Goals**												
HEXACHLOROBUTADIENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
HEXACHLOROETHANE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	11 J
NAPHTHALENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
NITROBENZENE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	680 U	760 U	680 U	710 U	780 U	770 U	790 U	690 U	680 U	690 U	730 U	780 U
PENTACHLOROPHENOL	µg/kg	NE	1700 U	1800 U	1700 U	1700 U	1900 U	1900 U	1900 U	1700 U	1700 U	1700 U	1800 U	1900 U
PHENANTHRENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	30 U
PHENOL	µg/kg	NE	340 U	380 U	340 U	350 U	390 U	380 U	400 U	340 U	340 U	350 U	370 U	390 U
PYRENE	µg/kg	NE	26 U	29 U	26 U	27 U	29 U	29 U	30 U	26 U	26 U	26 U	28 U	17 J
Organotin														
DIBUTYLTIN	µg/kg	NE	10 U	11 U	10 U	11 U	12 U	12 U	12 U	10 U	10 U	11 U	11 U	12 U
MONOBUTYLTIN	µg/kg	NE	10 UJ	11 UJ	10 UJ	11 UJ	12 UJ	12 UJ	12 UJ	10 UJ	10 UJ	11 UJ	11 UJ	12 UJ
TETRABUTYLTIN	µg/kg	NE	10 U	11 U	10 U	11 U	12 U	12 U	12 U	10 U	10 U	11 U	11 U	12 U
TRIBUTYLTIN	µg/kg	NE	10 U	11 U	10 U	2 J	12 U	12 U	6 J	10 U	10 U	6 J	11 U	12 U
Dioxins and Furans														
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	363 J	2.3 U	3.5 U	3.3 U	18.4 J	5.4 U	28.7 J	1.3 U	1.3 U	1.3 U	0.95 U	1630
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	13.7 J	0.7 U	0.98 U	0.5 U	1.4 U	0.92 U	1.8 U	0.6 U	1.4 U	4.2 U	8.4 U	63.7
1,2,3,4,6,7,8-HPCDD	pg/g	NE	70 J	0.4 U	0.35 J	0.49 J	2.5 J	0.97 J	4.7 J	0.3 J	0.9 U	0.9 U	0.8 U	206
1,2,3,4,6,7,8-HPCDF	pg/g	NE	12.6	0.3 U	0.38 U	0.2 U	1.3 U	0.41 U	1 U	0.16 U	0.5 U	0.43 U	1 U	44.3
1,2,3,4,7,8,9-HPCDF	pg/g	NE	0.4 U	0.2 U	0.3 U	0.2 U	0.2 U	0.1 U	0.21 J	0.2 U	0.5 U	0.5 U	0.85 J	2.2 J
1,2,3,4,7,8-HXCDD	pg/g	NE	0.84 J	0.2 U	0.3 U	0.2 U	0.2 U	0.1 U	0.31 J	0.1 U	0.5 U	0.5 U	0.5 U	5.1 J
1,2,3,4,7,8-HXCDF	pg/g	NE	1.3 U	0.1 U	0.08 U	0.1 U	0.1 U	0.18 U	0.36 U	0.1 U	0.2 J	0.27 J	0.49 J	15.8
1,2,3,6,7,8-HXCDD	pg/g	NE	3.5 J	0.2 U	0.3 U	0.2 U	0.2 U	0.1 U	0.32 J	0.2 U	0.6 U	0.6 U	0.5 U	7.1 J
1,2,3,6,7,8-HXCDF	pg/g	NE	1.1 J	0.1 U	0.2 U	0.1 U	0.1 U	0.07 U	0.19 J	0.09 U	0.4 U	0.4 U	0.3 U	5.6 J
1,2,3,7,8,9-HXCDD	pg/g	NE	1.6 J	0.2 U	0.3 U	0.2 U	0.28 J	0.12 J	0.57 J	0.1 U	0.5 U	0.5 U	0.5 U	15.6
1,2,3,7,8,9-HXCDF	pg/g	NE	0.2 U	0.1 U	0.2 U	0.2 U	0.1 U	0.08 U	0.19 J	0.1 U	0.4 U	0.4 U	0.4 U	0.78 J
1,2,3,7,8-PECDD	pg/g	NE	0.2 U	0.09 U	0.2 U	0.1 U	0.1 U	0.09 U	0.1 U	0.1 U	0.4 U	0.4 U	0.4 U	2.8 J
1,2,3,7,8-PECDF	pg/g	NE	0.17 J	0.08 U	0.1 U	0.1 U	0.1 U	0.07 U	0.07 U	0.1 U	0.3 U	0.3 U	0.3 U	3.5 J
2,3,4,6,7,8-HXCDF	pg/g	NE	1.4 J	0.1 U	0.2 U	0.1 U	0.12 J	0.07 U	0.21 J	0.09 U	0.4 U	0.4 U	0.3 U	9.2 J
2,3,4,7,8-PECDF	pg/g	NE	0.36 J	0.08 U	0.1 U	0.1 U	0.1 U	0.07 U	0.22 J	0.1 U	0.3 U	0.3 U	0.3 U	6.9 J
2,3,7,8-TCDD	pg/g	NE	0.1 U	0.08 U	0.1 U	0.1 U	0.2 U	0.09 U	0.09 U	0.1 U	0.4 U	0.4 U	0.4 U	0.77 J
2,3,7,8-TCDF	pg/g	NE	0.52 U	0.14 U	0.22 U	0.08 U	0.1 U	0.07 U	0.27 U	0.09 U	0.3 U	0.3 U	0.3 U	11.1
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	2.24E-06	0.00E+00	3.50E-09	4.90E-09	8.38E-08	2.17E-08	3.67E-07	3.00E-09	2.00E-08	2.70E-08	5.75E-08	1.70E-05
Radiochemistry														
GROSS ALPHA	pCi/g	NE	3.01	1.77 U	2.16	3.78	4.9	1.83	1.7 U	0.667 U	1.96 U	16.7	2.33	11.4
GROSS BETA	pCi/g	NE	16	7.46	7.35	10.4 U	13.5 U	11.6	12.6 U	1.45 U	8.89	43.6	13.3 U	18.2
ACTINIUM-227	pCi/g	NE	-0.0351 U	0.01 U	-0.356 U	-0.15 U	0.145 U	0.0681 U	-0.0307 U	-0.0389 U	-0.0968 U	-0.0398 U	0.133 U	-0.14 U
ACTINIUM-228	pCi/g	NE	0.274	0.548	0.547	0.587	0.638	0 U	0.422	0.294	0.322	0.385	0.417	0.998
AMERICIUM-241	pCi/g	NE	0.00555 U	0.00392 U	-0.0949 U	0.0247 U	0.0787 U	0.034 U	-0.0102 U	0.118	-0.0388 U	-0.00813 U	0.0217 U	0.0719 U
ANTIMONY-124	pCi/g	NE	0.00592 U	0.00601 U	-0.00425 U	0.000348 U	-0.0522 U	-0.012 U	0.0103 U	0.0236 U	0.01 U	-0.00195 U	-0.00478 U	-0.000309 U
ANTIMONY-125	pCi/g	NE	0.00904 U	0.0152 U	0.00804 U	0.00912 U	0.0123 U	-0.00657 U	-0.0219 U	0.00339 U	0.0282 U	-0.00439 U	-0.00459 U	-0.022 U
BARIUM-133	pCi/g	NE	-0.0418 U	-0.0118 U	0.00194 U	-0.00352 U	0.0124 U	0.0104 U	0.00942 U	-0.0245 U	0.0108 U	0.00671 U	0.0036 U	-0.00791 U
BARIUM-140	pCi/g	NE	-0.0326 U	0.0616 U	0.225 U	0.0197 U	0.0889 U	0.0694 U	0.0117 U	0.0356 U	0.0317 U	0.0104 U	-0.0288 U	-0.271 U
BERYLLIUM-7	pCi/g	NE	-0.0841 U	-0.0285 U	-0.0737 U	0.000985 U	-0.0187 U	0.0674 U	0.0548 U	0.0341 U	-0.108 U	0.035 U	0.00376 U	-0.00668 U
BISMUTH-212	pCi/g	NE	0.265	0.393	0.38 U	0.288 U	0.428 U	0.0949 U	0.403	0.18 U	0.305	0.21	0.503	0.496
BISMUTH-214	pCi/g	NE	0.217	0.425	0.64	0.352	0 U	0 U	0.283	0.233	0.226	0.234	0.376	0.489
CERIUM-139	pCi/g	NE	-0.00636 U	-0.00395 U	0.00834 U	-0.0217 U	-0.0043 U	0.0152 U	-0.00712 U	-0.00187 U	0.0023 U	-0.00927 U	0.011 U	-0.0163 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 6

Sample Number			0039-075	0039-076	0039-077	0039-078	0039-079	0039-080	0039-081 (FD)	0039-082	0039-083	0039-084	0039-085	0039-087
Sample Location			C1 Floor	C1 East Sidewall	C1 South Sidewall	C1 West Sidewall	C1 North Sidewall	B1 Floor	B1 Floor	B1 North Sidewall	B1 West Sidewall	B1 South Sidewall	B1 East Sidewall	C5 West Sidewall-3
Sample Date			7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	7/24/2001	12/18/2001
Analyte	Units	Cleanup Goals												
CERIUM-141	pCi/g	NE	-0.0086 U	0.00782 U	0.0317 U	0.0117 U	0.0194 U	0.0237 U	0.0118 U	-0.00479 U	0.0184 U	0.0218 U	0.0136 U	0.0417 U
CERIUM-144	pCi/g	NE	0.0245 U	0.0312 U	0.102 U	-0.0513 U	0.0613 U	0.121 U	-0.034 U	0.0174 U	-0.0188 U	-0.024 U	0.0226 U	0.106 U
CESIUM-134	pCi/g	NE	0.00234 U	0.00204 U	-0.0127 U	0.00741 U	0.00183 U	-0.00469 U	-0.00973 U	0.02 U	-0.0091 U	-0.00195 U	0.00933 U	-0.0247 U
CESIUM-136	pCi/g	NE	0.00126 U	0.0097 U	-0.0358 U	-0.0529 U	0.0643 U	-0.0561 U	0.0225 U	0.041 U	0.0126 U	0.00589 U	-0.0294 U	0.0554 U
CESIUM-137	pCi/g	NE	0.00767 U	-0.00123 U	0 U	0.00809 U	0.0121 U	0 U	0.000653 U	0.0115 U	0.0234	-0.00118 U	0.0311 U	0.0397 U
CHROMIUM-51	pCi/g	NE	0.0113 U	0.0411 U	-0.0832 U	0.157 U	0.108 U	0.216 U	0.0586 U	-0.0368 U	0.0473 U	-0.0117 U	0.0484 U	0.141 U
COBALT-56	pCi/g	NE	-0.00628 U	-0.0034 U	0.000748 U	-0.00269 U	0.0185 U	0.00248 U	-0.00494 U	-0.00091 U	-0.00901 U	0.0009 U	0.0145 U	0.00245 U
COBALT-57	pCi/g	NE	-0.00062 U	-0.00212 U	0.012 U	3.57E-05 U	0.00291 U	-0.0188 U	0.00153 U	-0.00222 U	-0.00464 U	0.000636 U	-0.00374 U	0.00904 U
COBALT-58	pCi/g	NE	0.00105 U	-0.00703 U	-0.000175 U	-0.00841 U	-0.0239 U	0.00178 U	-0.0095 U	-0.00386 U	0.00675 U	0.00278 U	0.0106 U	-0.0234 U
COBALT-60	pCi/g	NE	0.00243 U	0.015 U	-0.00115 U	0.0145 U	-0.00427 U	0.00403 U	0.00778 U	0.0102 U	-0.00609 U	-0.00138 U	0.00232 U	0.0009 U
EUROPIUM-152	pCi/g	NE	-0.0223 U	-0.0192 U	-0.0525 U	-0.0103 U	-0.09 U	-0.0863 U	0.00369 U	-0.00809 U	-0.00716 U	-0.0177 U	-0.041 U	-0.023 U
EUROPIUM-154	pCi/g	NE	0.00813 U	0.00984 U	-0.0233 U	0.0399 U	-0.0257 U	0.0246 U	0.0217 U	-0.0137 U	-0.0121 U	-0.0283 U	-0.0353 U	-0.00129 U
EUROPIUM-155	pCi/g	NE	0.024 U	0.044 U	-0.0238 U	0.0487 U	0.053 U	0.0111 U	0.0744 U	0.0307 U	0.0159 U	0.0197 U	0.0203 U	0.0652 U
IODINE-131	pCi/g	NE	-3.31E-05 U	0.0302 U	-0.00943 U	-0.0367 U	0.05 U	0.00211 U	-0.0291 U	0.0186 U	-0.00981 U	0.00686 U	0.00544 U	0.0311 U
IRIDIUM-192	pCi/g	NE	-0.0027 U	-0.00739 U	-0.000395 U	-0.0121 U	0.000651 U	-0.00396 U	0.000838 U	0.00321 U	-0.00406 U	-0.00188 U	-0.00778 U	-0.0233 U
IRON-59	pCi/g	NE	0.0179 U	-0.0344 U	-0.00262 U	0.00444 U	-0.0637 U	0.00978 U	-0.02 U	0.0234 U	-0.00697 U	-0.0125 U	-0.0246 U	-0.0405 U
LEAD-210	pCi/g	NE	0.727 U	0.552	0.562 U	0.259 U	0.837 U	0.647 U	-0.92 U	1.15 U	1.25 U	0.927 U	0.623	0.296 U
LEAD-212	pCi/g	NE	0.284	0.653	0.572	0.52	0.665	0.449	0.419	0.252	0.324	0.363	0.559	0.947
LEAD-214	pCi/g	NE	0.238	0.428	0.469	0.439	0.643	0.294	0.316	0.25	0.239	0.276	0.35	0.727
MANGANESE-54	pCi/g	NE	0.00431 U	-0.00186 U	0.00629 U	-0.0141 U	0.000539 U	-0.0152 U	-0.00124 U	-0.000665 U	0.00767 U	0.00334 U	-0.0136 U	-0.00135 U
MERCURY-203	pCi/g	NE	-0.00432 U	0.0199 U	0.0227 U	0.0194 U	0.0425 U	0.00584 U	0.00117 U	0.00967 U	0.013 U	0.00798 U	0.00565 U	0 U
NEODYMIUM-147	pCi/g	NE	-0.0802 U	-0.0818 U	-0.119 U	-0.108 U	0.514 U	0.0526 U	0.184 U	0.248 U	0.117 U	-0.078 U	-0.336 U	-0.185 U
NEPTUNIUM-239	pCi/g	NE	-0.00262 U	-0.00763 U	0.0309 U	-0.0224 U	-0.189 U	0.00423 U	0.104 U	-0.0304 U	-0.00124 U	-0.0257 U	-0.0685 U	0.0521 U
NIOBIUM-94	pCi/g	NE	-0.00701 U	0.00893 U	0.0209 U	0.00384 U	-0.00163 U	-0.000969 U	-0.000212 U	-0.00488 U	0.0108 U	0.00101 U	0.0118 U	-0.00712 U
NIOBIUM-95	pCi/g	NE	0.0228 U	0 U	0.00937 U	-0.0161 U	0.0474 U	0 U	-0.00989 U	0.000211 U	-0.0132 U	0.0202 U	0.0136 U	0.0566 U
POTASSIUM-40	pCi/g	NE	13.5	12.3	12	12.7	11.9	13.4	13.6	12.7	14.1	13.8	12.3	16.8
PROMETHIUM-144	pCi/g	NE	-0.00212 U	0.00295 U	-0.0212 U	-0.00395 U	-0.0101 U	0.0141 U	0.00552 U	-0.00147 U	0.00188 U	-0.00039 U	0.00393 U	-0.00536 U
PROMETHIUM-146	pCi/g	NE	-0.00161 U	0.0167 U	-0.0223 U	0.0101 U	0.0101 U	0.0274 U	-0.00126 U	-0.00389 U	-0.0114 U	-0.00211 U	-0.00718 U	0.022 U
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	0.274	0.548	0.547	0.587	0.638	0 U	0.422	0.294	0.322	0.385	0.417	0.998
RUTHENIUM-106	pCi/g	NE	0.0317 U	-0.152 U	0.0214 U	0.00754 U	-0.105 U	0.0162 U	0.092 U	-0.00865 U	0.0211 U	0.0209 U	-0.028 U	-0.00696 U
SILVER-110M	pCi/g	NE	-0.00648 U	0.0173 U	0.0266 U	0.00839 U	0.00461 U	-0.0818 U	0.00276 U	0.000826 U	-0.0014 U	-0.000325 U	-0.0148 U	-0.0311 U
SODIUM-22	pCi/g	NE	0.00298 U	0.00349 U	-0.0081 U	0.0143 U	-0.00919 U	0.00859 U	0.00777 U	-0.00493 U	-0.00424 U	-0.00668 U	-0.0128 U	-0.000515 U
THALLIUM-208	pCi/g	NE	0.0962	0.199	0.272	0.188	0.262	0.14	0.123	0.0949	0.0978	0.0998	0.181	0.306
THORIUM-230	pCi/g	NE	0.217	0.425	0.64	0.352	0.721	0.297	0.283	0.233	0.226	0.234	0.376	0.489
THORIUM-234	pCi/g	NE	0.32 U	0.787	0 U	0.717	0.91 U	0.446 U	0.86 U	0.294 U	0.136 U	0.408 U	0.396 U	1.09 U
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	-0.00429 U	-0.00617 U	0.00622 U	0.00406 U	-0.00414 U	0.00159 U	-0.024 U	-0.00856 U	0.0161 U	0.00206 U	-0.00686 U	-0.0171 U
URANIUM-235	pCi/g	NE	0.0844 U	0.03 U	0.0328 U	0.0425 U	0.0133 U	0.276 U	0.0573 U	0.0833 U	0.104 U	0.0946 U	0.153 U	0.132 U
URANIUM-238	pCi/g	NE	0.32 U	0.787	0 U	0.717	0.91 U	0.446 U	0.86 U	0.294 U	0.136 U	0.408 U	0.396 U	1.09 U
YTTRIUM-88	pCi/g	NE	0.000479 U	0.0154 U	0.01 U	-0.00632 U	-0.00872 U	-0.0134 U	0.00238 U	0.0154 U	0.00325 U	0.0087 U	0.00622 U	0.0079 U
ZINC-65	pCi/g	NE	0.00161 U	-0.0669 U	0.068 U	0.0181 U	-0.0142 U	0.0691 U	-0.00062 U	-0.0146 U	0.00689 U	0.0178 U	0.00756 U	-0.0525 U
ZIRCONIUM-95	pCi/g	NE	0.0199 U	-0.000795 U	-0.0134 U	0.00746 U	0.00709 U	0.0141 U	-0.0145 U	-0.00321 U	-0.00541 U	0.00596 U	0.0226 U	0.032 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 7

Sample Number			TO14-016	TO14-017 (FD)	TO14-018	0039-117*	0039-118*	0039-119*	0039-124*	0039-127*	0039-128 (FD)*	0039-129*	0039-130*	0039-133*	0039-136*	0039-139*
Sample Location			CST SE Floor	CST SE Floor	CST E1 Sidewall	CST N1 SIDEWALL	CST E2 SIDEWALL	CST NE FLOOR	CST NW FLOOR	CST N2 SIDEWALL	CST N2 SIDEWALL	CST S2 SIDEWALL	CST S1 SIDEWALL	CST SW FLOOR	CST W1 SIDEWALL	CST W2 SIDEWALL
Sample Date			9/18/2002	9/18/2002	9/18/2002	12/9/2002	12/9/2002	12/9/2002	1/6/2003	1/13/2003	1/13/2003	1/13/2003	1/13/2003	1/16/2003	1/20/2003	1/30/2003
Analyte	**Units**	**Cleanup Goals**														
Metals																
HEXAVALENT CHROMIUM	mg/kg	0.2	1	0.24 U	0.21	1	1	1	0.5	0.22 U	0.23 U	0.7	0.5	0.3	0.3	0.6
ANTIMONY	mg/kg	NE	6.2 U	5.9 U	0.39 J	5.5 U	6.3 U	0.52 J	6.4 U	5.5 U	5.6 U	5.4 U	5.9 U	6.1 U	5.4 U	5.2 U
ARSENIC	mg/kg	9.05	0.66	0.71	2.2	1.5	1.4	1.6	1.8	0.65	0.89	0.84	2	0.8	2.2	1.5
BARIUM	mg/kg	NE	38.7	37.1	8.9	50.3	21.5	121	58	39.6	47.6	50	73.3	47.1	25.9	39.4
BERYLLIUM	mg/kg	NE	0.25 U	0.24 U	0.21 U	0.22 U	0.25 U	0.26 U	0.26 U	0.22 U	0.23 U	0.22 U	0.24 U	0.24 U	0.22 U	0.21 U
CADMIUM	mg/kg	NE	0.25 U	0.24 U	0.21 U	0.019 J	0.25 U	0.26 U	0.026 J	0.22 U	0.016 J	0.27	0.088 J	0.24 U	0.025 J	0.21 U
CHROMIUM	mg/kg	NE	9.6	9	3.4	7.7	7.5	15.2	10.9	6.1	6.3	7.3	10.8	10	7.1	7.3
COBALT	mg/kg	NE	3.8	3.5	2.4	3.7	3	7.8	6.5	3.9	3.8	4.4	5.7	5.5	3.9	3.5
COPPER	mg/kg	NE	4.4	4.2	1.6	4.8	3	11.5	7	4.1	3.9	5	7.6	6	2.9	4.4
LEAD	mg/kg	130	1.6	1.5	1.1	1.7	0.89	2	2	1.3	1.1	3.4	3	1.3	1.4	2.7
MERCURY	mg/kg	NE	0.026 J	0.031 J	0.023 J	0.06 J	0.04 J	0.031 J	0.022 J	0.0069 J	0.0082 J	0.006 J	0.052 J	0.018 J	0.021 J	0.033 J
MOLYBDENUM	mg/kg	NE	0.25 U	0.24 U	0.076 J	0.22 U	0.25 U	0.26 U	0.26 U	0.027 J	0.23 U	0.22 U	0.24 U	0.24 U	0.019 J	0.21 U
NICKEL	mg/kg	NE	2.8	2.6	1.3	2.8	2	6.2	4	2.3	2.4	3.1	4	3.5	2.2	2.3
SELENIUM	mg/kg	NE	0.62 U	0.59 U	0.24 J	0.55 U	0.63 U	0.65 U	0.64 U	0.23 J	0.56 U	0.54 U	0.43 J	0.61 U	0.54 U	0.52 U
SILVER	mg/kg	NE	0.62 U	0.59 U	0.16 J	0.55 U	0.63 U	0.65 U	0.64 U	0.55 U	0.56 U	0.54 U	0.59 U	0.61 U	0.54 U	0.52 U
THALLIUM	mg/kg	NE	0.62 U	0.59 U	0.52 U	0.55 U	0.63 U	0.65 U	0.64 U	0.55 U	0.56 U	0.54 U	0.59 U	0.61 U	0.54 U	0.52 U
VANADIUM	mg/kg	NE	34.7	33.1	9.6	23.8	24.5	47.5	35.8	24.2	24.5	25.1	24.7	34.7	16.1	29
ZINC	mg/kg	NE	11.5 J	10.9 J	6.3 J	16	9.9	29.1	19.4	10	10.1	13.9	22	15.5	14	11.7
Total Petroleum Hydrocarbons																
DIESEL	mg/kg	NE	12 UJ	1 J	9 J	11 U	13 U	13 U	2 J	11 U	11 U	11 J	12 U	12 U	11 U	10 U
MOTOR OIL	mg/kg	NE	12 UJ	12 U	27	11 U	13 U	13 U	13 U	11 U	11 U	120	12 U	12 U	11 U	10 U
SPLP DIESEL	mg/L	NE	0.03 J	0.03 J	0.02 J	0.5 U	0.5 U	0.5 U	0.03 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	4	0.5 U	0.5 U	0.5 U	0.5 U
Pesticides																
4,4'-DDD	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
4,4'-DDE	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
4,4'-DDT	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
ALDRIN	µg/kg	NE	1.2 U	1.2 U	1 U	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
ALPHA-BHC	µg/kg	NE	1.2 UJ	1.2 UJ	1 UJ	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
ALPHA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BETA-BHC	µg/kg	NE	1.2 U	1.2 U	1 U	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
CHLORDANE	µg/kg	NE	62 U	59 U	52 U	55 U	63 U	65 U	64 U	55 U	56 U	54 U	59 U	61 U	54 U	52 U
DELTA-BHC	µg/kg	NE	1.2 UJ	1.2 UJ	1 UJ	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
DIELDRIN	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
ENDOSULFAN I	µg/kg	NE	1.2 U	1.2 U	1 U	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
ENDOSULFAN II	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
ENDOSULFAN SULFATE	µg/kg	NE	6.2 U	5.9 U	5.2 U	5.5 U	6.3 U	6.5 U	6.4 U	5.5 U	5.6 U	5.4 U	5.9 U	6.1 U	5.4 U	5.2 U
ENDRIN	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
ENDRIN ALDEHYDE	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
ENDRIN KETONE	µg/kg	NE	2.5 U	2.4 U	2.1 U	2.2 U	2.5 U	2.6 U	2.6 U	2.2 U	2.3 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.2 U	1.2 U	1 UJ	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
GAMMA-CHLORDANE	µg/kg	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	µg/kg	NE	1.2 U	1.2 U	1 U	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.2 U	1.2 U	1 U	1.1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1 U
METHOXYCHLOR	µg/kg	NE	12 UJ	12 UJ	10 UJ	11 U	13 U	13 U	13 U	11 U	11 U	11 U	12 U	12 U	11 U	10 U
TOXAPHENE	µg/kg	NE	120 U	120 U	100 U	110 U	130 U	130 U	130 U	110 U	110 U	110 U	120 U	120 U	110 U	100 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 7

Sample Number Sample Location Sample Date			TO14-016 CST SE Floor 9/18/2002	TO14-017 (FD) CST SE Floor 9/18/2002	TO14-018 CST E1 Sidewall 9/18/2002	0039-117* CST N1 SIDEWALL 12/9/2002	0039-118* CST E2 SIDEWALL 12/9/2002	0039-119* CST NE FLOOR 12/9/2002	0039-124* CST NW FLOOR 1/6/2003	0039-127* CST N2 SIDEWALL 1/13/2003	0039-128 (FD)* CST N2 SIDEWALL 1/13/2003	0039-129* CST S2 SIDEWALL 1/13/2003	0039-130* CST S1 SIDEWALL 1/13/2003	0039-133* CST SW FLOOR 1/16/2003	0039-136* CST W1 SIDEWALL 1/20/2003	0039-139* CST W2 SIDEWALL 1/30/2003
Analyte	**Units**	**Cleanup Goals**														
Polychlorinated Biphenyls																
AROCLOR 1016	µg/kg	NE	62 U	59 U	52 U	55 U	63 U	65 U	64 U	55 U	56 U	54 U	59 U	61 U	54 U	52 U
AROCLOR 1221	µg/kg	NE	120 U	120 U	100 U	110 U	130 U	130 U	130 U	110 U	110 U	110 U	120 U	120 U	110 U	100 U
AROCLOR 1232	µg/kg	NE	62 U	59 U	52 U	55 U	63 U	65 U	64 U	55 U	56 U	54 U	59 U	61 U	54 U	52 U
AROCLOR 1242	µg/kg	NE	62 U	59 U	52 U	55 U	63 U	65 U	64 U	55 U	56 U	54 U	59 U	61 U	54 U	52 U
AROCLOR 1248	µg/kg	NE	62 U	59 U	52 U	55 U	63 U	65 U	64 U	55 U	56 U	54 U	59 U	61 U	54 U	52 U
AROCLOR 1254	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
AROCLOR 1260	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
Volatile Organic Compounds																
1 1 1-TRICHLOROETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
1 1 2 2-TETRACHLOROETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
1 1-DICHLOROETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
1 1-DICHLOROETHENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
1 2-DICHLOROETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
1 2-DICHLOROPROPANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
2-BUTANONE	µg/kg	NE	110 U	110 U	90 U	110 U	130 U	110 U	120 U	110 U	110 U	120 U	120 U	110 U	130 U	100 U
2-HEXANONE	µg/kg	NE	56 U	55 U	45 U	53 U	65 U	56 U	59 U	55 U	55 U	61 U	59 U	54 U	67 U	52 U
4-METHYL-2-PENTANONE	µg/kg	NE	56 U	55 U	45 U	53 U	65 U	56 U	59 U	55 U	55 U	61 U	59 U	54 U	67 U	52 U
ACETONE	µg/kg	NE	33 U	32 U	25 U	110 U	130 U	110 U	120 U	110 U	110 U	120 U	120 U	110 U	130 U	100 U
BENZENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
BROMODICHLOROMETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
BROMOFORM	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
BROMOMETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CARBON DISULFIDE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CARBON TETRACHLORIDE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CHLOROBENZENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CHLOROETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CHLOROFORM	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CHLOROMETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
CIS-1 3-DICHLOROPROPENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
ETHYLBENZENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	11 U	9 U	11 U	13 U	11 U	12 U	11 U	11 U	12 U	12 U	11 U	13 U	10 U
METHYLENE CHLORIDE	µg/kg	NE	3 U	6 U	2 U	0 6 J	0 8 J	0 8 J	5 9 U	3 J	2 J	5 J	5 J	1 J	6 7 U	5 2 U
STYRENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
TETRACHLOROETHENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
TOLUENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
TRANS-1 2-DICHLOROETHENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
TRANS-1 3-DICHLOROPROPENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
TRICHLOROETHENE	µg/kg	NE	5 6 U	5 5 U	4 5 U	5 3 U	6 5 U	5 6 U	5 9 U	5 5 U	5 5 U	6 1 U	5 9 U	5 4 U	6 7 U	5 2 U
VINYL ACETATE	µg/kg	NE	56 U	55 U	45 U	53 U	65 U	56 U	59 U	55 U	55 U	61 U	59 U	54 U	67 U	52 U
VINYL CHLORIDE	µg/kg	NE	5.6 U	5.5 U	4 5 U	5 3 U	6.5 U	5.6 U	5.9 U	5.5 U	5 5 U	6 1 U	5 9 U	5.4 U	6 7 U	5 2 U
XYLENES (TOTAL)	µg/kg	NE	17 U	17 U	14 U	16 U	20 U	17 U	18 U	16 U	16 U	18 U	18 U	16 U	20 U	16 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 7

Sample Number			TO14-016	TO14-017 (FD)	TO14-018	0039-117*	0039-118*	0039-119*	0039-124*	0039-127*	0039-128 (FD)*	0039-129*	0039-130*	0039-133*	0039-136*	0039-139*
Sample Location			CST SE Floor	CST SE Floor	CST E1 Sidewall	CST N1 SIDEWALL	CST E2 SIDEWALL	CST NE FLOOR	CST NW FLOOR	CST N2 SIDEWALL	CST N2 SIDEWALL	CST S2 SIDEWALL	CST S1 SIDEWALL	CST SW FLOOR	CST W1 SIDEWALL	CST W2 SIDEWALL
Sample Date			9/18/2002	9/18/2002	9/18/2002	12/9/2002	12/9/2002	12/9/2002	1/6/2003	1/13/2003	1/13/2003	1/13/2003	1/13/2003	1/16/2003	1/20/2003	1/30/2003
Analyte	Units	Cleanup Goals														
Semivolatile Organic Compounds																
1,2,4-TRICHLOROBENZENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
1,2-DICHLOROBENZENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
1,3-DICHLOROBENZENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
1,4-DICHLOROBENZENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2,4-DICHLOROPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2,4-DIMETHYLPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2,4-DINITROPHENOL	µg/kg	NE	3100 UJ	2900 UJ	2600 UJ	2700 U	3100 U	3300 U	2000 U	1700 U	1800 U	1700 U	1900 U	3000 U	2700 U	2600 U
2,4-DINITROTOLUENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2,6-DINITROTOLUENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2-CHLORONAPHTHALENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2-CHLOROPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2-METHYLPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
2-NITROANILINE	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
2-NITROPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	820 U	780 U	680 U	720 U	830 U	860 U	840 U	720 U	740 U	710 U	780 U	800 U	710 U	680 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
3-NITROANILINE	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	2000 UJ	1900 UJ	1700 UJ	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
4-CHLOROANILINE	µg/kg	NE	940 U	900 U	790 U	830 U	950 U	990 U	970 U	830 U	860 U	820 U	900 U	920 U	820 U	790 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
4-NITROANILINE	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
4-NITROPHENOL	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
ACENAPHTHENE	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
ACENAPHTHYLENE	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
ANTHRACENE	µg/kg	6100	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
BENZ[A]ANTHRACENE	µg/kg	560	31 U	29 U	17 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
BENZO[A]PYRENE	µg/kg	56	31 U	29 U	8 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
BENZO[B]FLUORANTHENE	µg/kg	560	31 U	29 U	14 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	31 U	29 U	8 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
BENZO[K]FLUORANTHENE	µg/kg	610	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	100 J	360 U	370 U	360 U	390 U	400 U	360 U	340 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
CHRYSENE	µg/kg	6100	31 U	29 U	9 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
DIBENZOFURAN	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
DIETHYL PHTHALATE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
DIMETHYL PHTHALATE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	190 J
DI-N-OCTYL PHTHALATE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
FLUORANTHENE	µg/kg	NE	31 U	29 U	11 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 7

Sample Number			TO14-016	TO14-017 (FD)	TO14-018	0039-117*	0039-118*	0039-119*	0039-124*	0039-127*	0039-128 (FD)*	0039-129*	0039-130*	0039-133*	0039-136*	0039-139*
Sample Location			CST SE Floor	CST SE Floor	CST E1 Sidewall	CST N1 SIDEWALL	CST E2 SIDEWALL	CST NE FLOOR	CST NW FLOOR	CST N2 SIDEWALL	CST N2 SIDEWALL	CST S2 SIDEWALL	CST S1 SIDEWALL	CST SW FLOOR	CST W1 SIDEWALL	CST W2 SIDEWALL
Sample Date			9/18/2002	9/18/2002	9/18/2002	12/9/2002	12/9/2002	12/9/2002	1/6/2003	1/13/2003	1/13/2003	1/13/2003	1/13/2003	1/16/2003	1/20/2003	1/30/2003
Analyte	Units	Cleanup Goals														
FLUORENE	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
HEXACHLOROBENZENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
HEXACHLOROBUTADIENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
HEXACHLOROETHANE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
NAPHTHALENE	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
NITROBENZENE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	820 U	780 U	680 U	720 U	830 U	860 U	840 U	720 U	740 U	710 U	780 U	800 U	710 U	680 U
PENTACHLOROPHENOL	µg/kg	NE	2000 U	1900 U	1700 U	1700 U	2000 U	2100 U	2000 U	1700 U	1800 U	1700 U	1900 U	1900 U	1700 U	1700 U
PHENANTHRENE	µg/kg	NE	31 U	29 U	26 U	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
PHENOL	µg/kg	NE	410 U	390 U	340 U	360 U	410 U	430 U	420 U	360 U	370 U	360 U	390 U	400 U	360 U	340 U
PYRENE	µg/kg	NE	31 U	29 U	13 J	27 U	31 U	33 U	32 U	27 U	28 U	27 U	29 U	30 U	27 U	26 U
Organotin																
DIBUTYLTIN	µg/kg	NE	12 U	12 U	10 U	11 U	13 U	13 U	13 U	11 U	11 U	11 U	12 U	12 U	11 U	10 U
MONOBUTYLTIN	µg/kg	NE	12 U	12 U	10 U	11 U	13 U	13 U	13 U	11 U	11 U	11 U	12 U	12 U	11 U	10 U
TETRABUTYLTIN	µg/kg	NE	12 U	12 U	10 U	11 U	13 U	13 U	13 U	11 U	11 U	11 U	12 U	12 U	11 U	10 U
TRIBUTYLTIN	µg/kg	NE	12 U	12 U	10 U	11 U	13 U	13 U	13 U	11 U	11 U	11 U	12 U	12 U	11 U	10 U
Dioxins and Furans																
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	19.8 U	7.6 U	23.9	1.5 U	1.7 U	1 U	0.91 J	2.6 J	2 J	1.5 J	8.6 J	6.2 J	1.4 U	0.97 J
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	14.4 U	1.3 U	1.5 U	1.1 U	1.3 U	0.7 U	0.93 J	0.18 J	0.43 J	0.27 J	0.63 J	0.9 U	1 U	0.9 U
1,2,3,4,6,7,8-HPCDD	pg/g	NE	9.2 U	1.6 J	4.7 J	0.9 U	0.9 U	0.6 U	0.25 J	0.3 J	0.37 J	0.3 J	2 J	0.81 J	0.5 U	0.7 U
1,2,3,4,6,7,8-HPCDF	pg/g	NE	4.2 U	0.4 U	1 J	0.6 U	0.6 U	0.4 U	0.18 J	0.11 J	0.26 J	0.29 J	0.95 J	0.2 U	0.3 U	0.4 U
1,2,3,4,7,8,9-HPCDF	pg/g	NE	5.1 U	0.4 U	0.4 U	0.7 U	0.7 U	0.4 U	0.26 J	0.09 U	0.23 J	0.07 U	0.08 U	0.3 U	0.3 U	0.5 U
1,2,3,4,7,8-HXCDD	pg/g	NE	4.1 U	0.4 U	0.4 U	0.6 U	0.6 U	0.4 U	0.17 J	0.1 U	0.2 J	0.08 U	0.12 J	0.2 U	0.2 U	0.4 U
1,2,3,4,7,8-HXCDF	pg/g	NE	2.4 U	0.38 J	1 J	0.5 U	0.5 U	0.3 U	0.2 J	0.09 J	0.25 J	0.2 J	0.28 J	0.1 U	0.15 J	0.2 U
1,2,3,6,7,8-HXCDD	pg/g	NE	4.1 U	0.4 U	0.4 U	0.6 U	0.5 U	0.4 U	0.19 J	0.09 U	0.23 J	0.07 U	0.25 J	0.2 U	0.2 U	0.5 U
1,2,3,6,7,8-HXCDF	pg/g	NE	2.9 J	0.3 U	0.52 J	0.5 U	0.4 U	0.3 U	0.18 J	0.06 U	0.2 J	0.09 J	0.12 J	0.1 U	0.1 U	0.2 U
1,2,3,7,8,9-HXCDD	pg/g	NE	4 U	0.4 U	0.4 U	0.6 U	0.5 U	0.4 U	0.26 J	0.09 U	0.24 J	0.07 U	0.46 J	0.2 U	0.2 U	0.4 U
1,2,3,7,8,9-HXCDF	pg/g	NE	2.9 U	0.3 U	0.3 U	0.6 U	0.6 U	0.4 U	0.28 J	0.08 U	0.18 J	0.06 U	0.07 U	0.1 U	0.1 U	0.3 U
1,2,3,7,8-PECDD	pg/g	NE	3.9 J	0.3 U	0.2 U	1 U	0.8 U	0.6 U	0.23 J	0.2 U	0.1 U	0.09 U	0.1 U	0.2 U	0.2 U	0.5 U
1,2,3,7,8-PECDF	pg/g	NE	6.1	0.3 U	0.2 U	0.6 U	0.5 U	0.4 U	0.33 J	0.08 U	0.06 U	0.05 U	0.06 U	0.1 U	0.1 U	0.3 U
2,3,4,6,7,8-HXCDF	pg/g	NE	2.7 U	0.3 U	0.42 J	0.5 U	0.5 U	0.3 U	0.18 J	0.07 U	0.19 J	0.11 J	0.21 J	0.1 U	0.1 U	0.3 U
2,3,4,7,8-PECDF	pg/g	NE	4.6 J	0.3 U	0.37 J	0.6 U	0.5 U	0.4 U	0.25 J	0.08 U	0.14 J	0.1 J	0.08 J	0.1 U	0.1 U	0.3 U
2,3,7,8-TCDD	pg/g	NE	3.8 U	0.3 U	0.2 U	0.9 U	0.6 U	0.5 U	0.1 U	0.1 U	0.09 U	0.07 U	0.09 U	0.1 U	0.1 U	0.4 U
2,3,7,8-TCDF	pg/g	NE	3.1 U	0.3 U	0.2 U	0.7 U	0.5 U	0.4 U	0.09 U	0.09 U	0.07 U	0.06 U	0.12 J	0.07 U	0.09 U	0.3 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	4.85E-06	5.40E-08	4.60E-07	0.00E+00	0.00E+00	0.00E+00	4.11E-07	1.59E-08	2.30E-07	9.77E-08	2.35E-07	1.43E-08	1.50E-08	9.70E-10
Radiochemistry																
GROSS ALPHA	pCi/g	NE	7.1 J	8.39	4.19	4.63	0.833 U	4.08	1.55	2.47	3.14	5.15	8.76	2.64	3.02	3.32 U
GROSS BETA	pCi/g	NE	15.5 UJ	18.1 U	17.2 U	19.5 U	12.9 U	14.4 U	2.84	11.4	9.44	9.06	14.4	11.5	15.7 U	17.4
ACTINIUM-227	pCi/g	NE	0.0971 U	0.0792 U	-0.0246 U	-0.00211 U	0.00565 U	-0.00879 U	0.119 U	-0.0385 U	-0.0212 U	0.0186 U	-0.0342 U	0 U	0.0143 U	-0.0686 U
ACTINIUM-228	pCi/g	NE	0.548	0.462	0.436	0.249	0.372	0.351	0.435	0.442	0.462	0.392	0.581	0.55	0.237	0.386
AMERICIUM-241	pCi/g	NE	-0.0189 U	-0.0385 U	0.00767 U	0.00966 U	-0.0284 U	0.0222 U	-0.0162 U	-0.00966 U	0.00966 U	-0.00102 U	0.00843 U	-0.0218 U	-0.0525 U	0.00613 U
ANTIMONY-124	pCi/g	NE	-0.0044 U	-0.00937 U	-0.00802 U	-0.00369 U	0.000527 U	-0.00169 U	-0.00377 U	0.0038 U	-0.00675 U	0.00497 U	0.00495 U	-0.0146 U	-0.00836 U	-0.0108 U
ANTIMONY-125	pCi/g	NE	-0.00207 U	-0.015 U	0.00458 U	0.031 U	-0.00443 U	-0.015 U	0.00198 U	0.00594 U	0.0135 U	0.00479 U	-0.0199 U	-0.00518 U	-0.00172 U	-0.00636 U
BARIUM-133	pCi/g	NE	0.00592 U	0.0122 U	-0.00762 U	-0.000462 U	0.00128 U	0.00138 U	-0.000675 U	-0.00103 U	-0.00536 U	0.0132 U	-0.00576 U	-0.00718 U	0.0172 U	0.000416 U

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
PHASE 7

Sample Number			TO14-016	TO14-017 (FD)	TO14-018	0039-117*	0039-118*	0039-119*	0039-124*	0039-127*	0039-128 (FD)*	0039-129*	0039-130*	0039-133*	0039-136*	0039-139*
Sample Location			CST SE Floor	CST SE Floor	CST E1 Sidewall	CST N1 SIDEWALL	CST E2 SIDEWALL	CST NE FLOOR	CST NW FLOOR	CST N2 SIDEWALL	CST N2 SIDEWALL	CST S2 SIDEWALL	CST S1 SIDEWALL	CST SW FLOOR	CST W1 SIDEWALL	CST W2 SIDEWALL
Sample Date			9/18/2002	9/18/2002	9/18/2002	12/9/2002	12/9/2002	12/9/2002	1/6/2003	1/13/2003	1/13/2003	1/13/2003	1/13/2003	1/16/2003	1/20/2003	1/30/2003
Analyte	Units	Cleanup Goals														
BARIUM-140	pCi/g	NE	-0 0269 U	0 052 U	-0 0538 U	0.0536 U	-0 0256 U	0 0214 U	0 0414 U	0 000745 U	-0.00427 U	-0.0201 U	-0.0649 U	0 U	-0 00984 U	-0.0151 U
BERYLLIUM-7	pCi/g	NE	0 0625 U	0.0797 U	0 0364 U	-0 00179 U	-0 0284 U	0 0252 U	-0 00415 U	0 00322 U	-0 0127 U	-0 00867 U	-0.0867 U	0 0567 U	0 0521 U	-0 0389 U
BISMUTH-212	pCi/g	NE	0 312	0 43	0 389	0 241	0 284	0 26	0 533	0 275	0 264	0 252	0 456	0 286	0 127 U	0 318
BISMUTH-214	pCi/g	NE	0 407	0.434	0 223	0.28	0 208	0 221	0 332	0 27	0 314	0 U	0 399	0,331	0 209	0 305
CERIUM-139	pCi/g	NE	0 00727 U	-0 0212 U	-0 00315 U	-0 00625 U	0 0024 U	0 00979 U	0 000663 U	0 00723 U	0 00258 U	0 000354 U	0 00682 U	-0 00652 U	-0 000169 U	0 00109 U
CERIUM-141	pCi/g	NE	0 0137 U	0 0501 U	-0 0131 U	0 0182 U	0 00785 U	0 00855 U	0 00494 U	0 0102 U	0 0153 U	0 U	0 0241 U	0 0171 U	-0 00275 U	-0.000904 U
CERIUM-144	pCi/g	NE	0 0073 U	-0 0694 U	0 0948 U	-0 0221 U	-0 0248 U	0 00733 U	-0 00954 U	-0 00735 U	0 00899 U	-0 000572 U	-0 0533 U	-0 0175 U	0 0119 U	-0 0243 U
CESIUM-134	pCi/g	NE	-0 00203 U	-0.0775 U	0 00974 U	-0 00646 U	-0 00787 U	-0 00687 U	0 00316 U	-0.00239 U	-0 00027 U	-0 00868 U	-0 0114 U	-0 00111 U	-0 00731 U	-0 00822 U
CESIUM-136	pCi/g	NE	-0 0774 U	-0.0421 U	-0.0385 U	-0 00365 U	-0 0145 U	-0 0106 U	-0 0107 U	-0 00194 U	-0 00636 U	-0.0218 U	-0 0226 U	0 011 U	0 0108 U	-0 00468 U
CESIUM-137	pCi/g	NE	-0 00996 U	-0 0126 U	-0 0137 U	0 00628 U	-0 00383 U	0 000979 U	-0 0109 U	0 00574 U	-0.00503 U	-0.0141 U	0 00087 U	0 000248 U	-0 00529 U	-0 000283 U
CHROMIUM-51	pCi/g	NE	0 114 U	-0 0031 U	0 0716 U	-0 00112 U	-0 0139 U	-0 000307 U	-0 123 U	0.11 U	-0 0787 U	0 0562 U	0 0959 U	-0 0657 U	-0 0755 U	-0 0267 U
COBALT-56	pCi/g	NE	-0 00487 U	0 0132 U	-0 00274 U	-0 00193 U	0 00949 U	-0.0058 U	0.007 U	0 00837 U	0 00616 U	-0 00937 U	-0.0102 U	0 00518 U	0 00733 U	0 00376 U
COBALT-57	pCi/g	NE	0 00881 U	0 0146 U	-0 000444 U	-0 00319 U	0 000591 U	-0 000916 U	0 00158 U	-0 00191 U	0 00267 U	0 00304 U	-0 00115 U	-0 00591 U	-0 00716 U	-0 000377 U
COBALT-58	pCi/g	NE	0 00335 U	0.00078 U	-0 000331 U	-0 0176 U	0 0126 U	-0 00771 U	-0 00884 U	0 00434 U	0.0026 U	-0 00167 U	0 0101 U	-0 00746 U	-0 0105 U	-0.00623 U
COBALT-60	pCi/g	NE	0 00361 U	0 00565 U	-0.00572 U	-0 00209 U	-0 00689 U	0.00101 U	-0.015 U	0 00242 U	0 00174 U	-0 00868 U	-0 00189 U	0 00689 U	-0 00566 U	0.00156 U
EUROPIUM-152	pCi/g	NE	-0 00738 U	0 0697 U	0 0451 U	-0 0114 U	-0 000192 U	-0 0014 U	0 0125 U	-0 00187 U	-0.00307 U	0 00515 U	0 0431 U	-0 0317 U	0 00473 U	-0.00316 U
EUROPIUM-154	pCi/g	NE	0.0488 U	0 072 U	-0 0299 U	0 0127 U	0 0148 U	-0 0156 U	-0.0274 U	0 0162 U	-0 0197 U	-0 0208 U	-0.0376 U	0.0135 U	0 0174 U	-0 00821 U
EUROPIUM-155	pCi/g	NE	0.0354 U	0.000137 U	0 U	0 0117 U	0 0157 U	0 0293 U	0 00484 U	0 0138 U	0 0337 U	0 0275 U	0 U	0 0429 U	0 0436 U	0 0322 U
IODINE-131	pCi/g	NE	-0.101 U	-0 0163 U	0.00157 U	0 0146 U	0.00553 U	-0 00442 U	0.0667 U	-0 0158 U	-0.0122 U	0 0116 U	-0 00252 U	-0 0159 U	0 0568 U	0 0158 U
IRIDIUM-192	pCi/g	NE	-0 00284 U	-0 00666 U	-0.00145 U	0 00563 U	0 000235 U	0 000683 U	-0.000397 U	0 00129 U	0 000454 U	-0 00306 U	0.00115 U	0.00633 U	-0 00212 U	-0.00111 U
IRON-59	pCi/g	NE	0.00619 U	-0 0429 U	-0 015 U	-0 0151 U	0 0066 U	0 00497 U	-0 0361 U	0 0132 U	0 00944 U	-0 00499 U	-0 0101 U	-0.017 U	0 0315 U	0 00176 U
LEAD-210	pCi/g	NE	0 658 U	-1 18 U	0 0451 U	1 03	1 51 U	0 531 U	-3 56 U	3 4	0 279 U	0 73	0 634	0.497 U	2 68 U	-0.747 U
LEAD-212	pCi/g	NE	0 581	0 777	0 517	0.324	0 432	0.387	0 511	0 472	0 543	0 459	0 716	0 632	0 328	0 422
LEAD-214	pCi/g	NE	0 42	0 539	0 332	0 28	0 281	0 27	0.408	0 329	0 372	0 354	0 5	0 421	0 281	0 414
MANGANESE-54	pCi/g	NE	0 00492 U	0 0166 U	-0 000322 U	0 00776 U	0 00451 U	-0 0059 U	-0 00115 U	0 00729 U	0 01 U	0 00833 U	0 0101 U	-0 000485 U	0 0075 U	0 0166 U
MERCURY-203	pCi/g	NE	0.0242 U	0 041 U	0 000973 U	0 00296 U	0 00713 U	0 U	-0 0193 U	0 U	0 U	0 U	0 U	0 U	-0 000149 U	0 0121 U
NEODYMIUM-147	pCi/g	NE	0 155 U	0 301 U	0 2 U	-0 0694 U	-0 0942 U	0 0351 U	0 0087 U	-0 0282 U	0 027 U	0 0573 U	-0 117 U	-0.248 U	-0 0368 U	-0 0111 U
NEPTUNIUM-239	pCi/g	NE	-0.00349 U	-0 0382 U	-0 0358 U	-0.00779 U	0 0563 U	0 0189 U	0 0923 U	0 0312 U	0 02 U	0 0202 U	-0 0435 U	0 00513 U	-0 0223 U	0 0371 U
NIOBIUM-94	pCi/g	NE	0 0135 U	0.00379 U	0 00193 U	-0 00579 U	0.0113 U	-0.00186 U	0 00656 U	0 000818 U	0 00702 U	-0.00266 U	0.00104 U	-0 00023 U	0 00539 U	0 00496 U
NIOBIUM-95	pCi/g	NE	0.0012 U	0 00544 U	0 00871 U	0.0144 U	-0 00132 U	0 U	-0 0203 U	0 0134 U	0 00199 U	0.0026 U	0.0238 U	0 U	0.00966 U	0 U
POTASSIUM-40	pCi/g	NE	9 99	13 1	10 3	10 8	10 4	11.8	12 1	12.2	11.8	11 1	13 5	10.1	11 8	11.2
PROMETHIUM-144	pCi/g	NE	0.0154 U	0 00852 U	-0 00954 U	-0 00726 U	-0 00177 U	0 00619 U	0 000934 U	-0 00237 U	0 00113 U	-0 00499 U	-0 00842 U	0 00549 U	0 003 U	-0 00415 U
PROMETHIUM-146	pCi/g	NE	-0.00394 U	-0 00532 U	-0 0087 U	0 00461 U	-0 00671 U	0.00313 U	-0 00596 U	0 00723 U	0 00223 U	0 0109 U	-0 00546 U	0 00362 U	-0 00222 U	0.0128 U
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	pCi/g	NE	0.548	0 462	0.436	0.249	0 372	0.351	0.435	0 442	0 462	0 392	0 581	0 55	0 237	0 386
RUTHENIUM-106	pCi/g	NE	-0.0621 U	0 0783 U	0 0632 U	0 0202 U	-0.0424 U	0 00291 U	-0 00627 U	0 0319 U	0.0118 U	0 00547 U	0 U	0 0782 U	0 018 U	-0 0765 U
SILVER-110M	pCi/g	NE	0 00797 U	0 0166 U	0 02 U	-0 00724 U	-0 00205 U	0 00368 U	0 000362 U	-0 00522 U	-0 00281 U	0 00244 U	0 0067 U	-0 00159 U	0 00974 U	0 00426 U
SODIUM-22	pCi/g	NE	0 0175 U	0 026 U	-0 0109 U	0 00465 U	0 0053 U	-0 00554 U	-0 00981 U	0 0057 U	-0.00716 U	-0 00763 U	-0 0135 U	0.00478 U	0 00636 U	-0 00275 U
THALLIUM-208	pCi/g	NE	0 173	0.252	0 137	0 113	0 112	0 0994	0 168	0 146	0 152	0 145	0 193	0 182	0.0814	0 141
THORIUM-230	pCi/g	NE	0.407	0.434	0.223	0 28	0 208	0 221	0.332	0 27	0 314	0 331	0 399	0 331	0 209	0 305
THORIUM-234	pCi/g	NE	0 98	0 651 U	0 455 U	1 26	0 404 U	0.793	0 849 U	0.636	0.779	1 17	1 32	1 26	0 784 U	0 395 U
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN-113	pCi/g	NE	-0 00489 U	0 0229 U	-0 00555 U	0 00641 U	0 00746 U	2 44E-05 U	-0 00578 U	-0 00154 U	-0 00109 U	-0 00485 U	-0 008 U	-0 00863 U	0 00146 U	-0 0136 U
URANIUM-235	pCi/g	NE	0 0413 U	0 184 U	0 05 U	0.0705 U	0 0488 U	0 0367 U	0 0441 U	0 0474 U	0 0385 U	0 139	0 0827 U	0 0583 U	-0.024 U	-0 00955 U
URANIUM-238	pCi/g	NE	0.98	0.651 U	0 455 U	1 26	0 404 U	0.793	0 849 U	0 636	0.779	1.17	1 32	1 26	0.784 U	0 395 U
YTTRIUM-88	pCi/g	NE	0 0133 U	-0 00206 U	0 00164 U	-0 00394 U	0.00238 U	-0.00275 U	0 00686 U	0 0021 U	-0 00304 U	-0 00156 U	0 00817 U	0 00196 U	0.00529 U	0 00266 U
ZINC-65	pCi/g	NE	-0 0428 U	0 00938 U	0 0286 U	0.0283 U	-0 00386 U	-0 000397 U	-0.00395 U	-0.00242 U	-0 0172 U	-0 00983 U	0 0113 U	0 0329 U	-0.00303 U	0 00516 U
ZIRCONIUM-95	pCi/g	NE	0.0232 U	-0.00215 U	0.00262 U	0.00624 U	0.00901 U	0.00878 U	0.000387 U	0.000174 U	0.00585 U	-0.00269 U	0.00355 U	0 U	0.000508 U	0.00881

TABLE 8-1

CONFIRMATION SOIL ANALYTICAL RESULTS
ALL PHASES

Notes:

Shading indicates result above cleanup goal

(1) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-1491.
(2) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2293.
(3) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2166.
(4) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2165.
(5) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2077.
(6) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2206.
(7) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2208.
(8) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0039-089.
(9) This sample had analytes above the cleanup goals. Therefore, after over-excavation of this sample point, another confirmation sample was collected as 0002-2302.

* - data validation is pending
µg/kg - micrograms per kilogram
CST - consolidation, storage, and transfer facility
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
FD - field duplicate
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NA - not analyzed
NE - not established
pCi/g - picocuries per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

The validation companies reported only one major discrepancy in regard to organotin analysis. Organotin results for three samples were rejected ("R" qualifier) because of surrogate recovery below 10 percent. Data validation for the remaining analyses reported only minor discrepancies, which resulted in a "J" qualifier (estimated value) applied to some of the analytical results.

Confirmation Sampling Results

Confirmation sample analytical results were compared to established target cleanup goals. The target cleanup goals consisted of residential PRGs for chemical compounds and background concentrations for metals. Confirmation sample locations and results above target cleanup goals are presented in Figure 8-1. Complete confirmation sample analytical results are presented in Table 8-1. Confirmation sample results were screened for concentrations in excess of target cleanup goals. When analytical results in excess of the target cleanup goals were detected, a decision was made by the project team as further excavation of additional soil was followed by resampling to confirm appropriate removal of the contamination. Soil that exceeded target cleanup goals was removed, except when one or more of the following criteria were met:

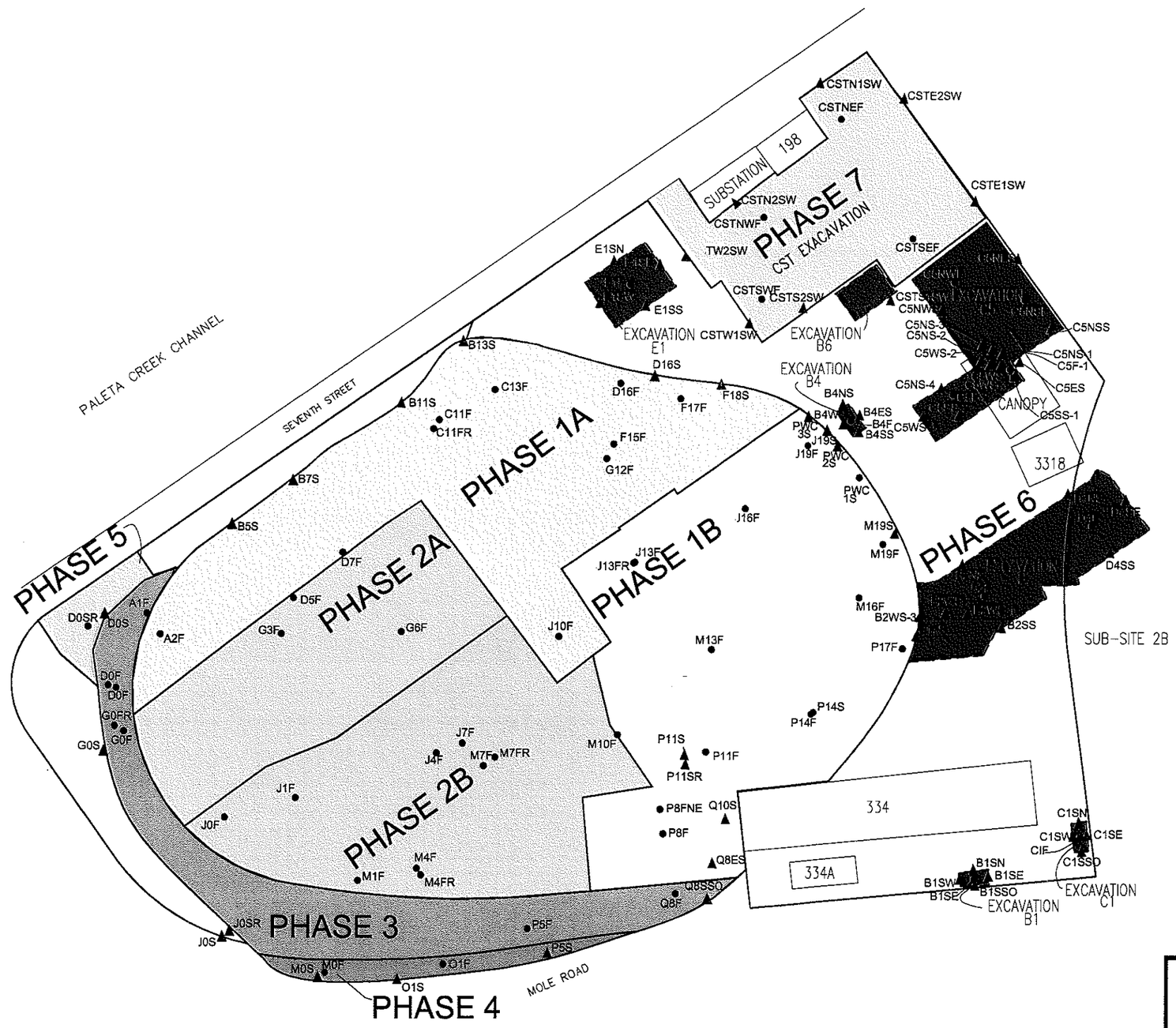
- Exceedance was in a sidewall located at the horizontal limits of the IRP Sub-Site 2A boundary;
- Exceedance was for hexavalent chromium only;
- Exceedance was located next to a building or structure not designated for demolition;
- Exceedance was located near utilities and removal would not be feasible; and/or
- Exceedance was determined after the area had been backfilled.

8.2 WASTE CHARACTERIZATION SAMPLING AND ANALYSIS

Waste generated during the removal action included excavated soil, soil cuttings generated during temporary well installation, water collected during excavation dewatering and equipment decontamination, asbestos from steam lines, paint chips, PPE, water filter media, spray paint booth filters, and concrete from sumps. Wastes were sampled and characterized prior to disposal.

During excavation activities at IRP Sub-Site 2A, an undocumented UST was encountered near the former Building 199. The 500-gallon capacity single-walled steel tank was previously used to store diesel fuel for an emergency generator located in Building 199. The UST had been filled with soil and abandoned in place. Waste generated during UST removal included the soil inside the tank and the tank rinsate. Following emptying, rinsing, and degassing, the tank was crushed and recycled at Pacific Steel.

Low-level radioactive soil at concentrations 1.5 times that of background and point sources were identified during the NTCRA.



LEGEND:

- ▲ SIDEWALL SOIL SAMPLE LOCATION
- PHASE BOUNDARY
- ● FLOOR SOIL SAMPLE LOCATION

SAMPLE LOCATION LEGEND:

J19 = GRID LOCATION
S = SIDEWALL
F = FLOOR
R = RESAMPLE
W = WEST
E = EAST
N = NORTH
SO = SOUTH
PWC = PUBLIC WORK CENTER

CST FORMER HAZARDOUS WASTE COLLECTION, STORAGE, AND TRANSFER FACILITY

NOTES

1. SEE TABLE 8-1 FOR A COMPLETE SET OF ANALYTICAL DATA
2. SOME COMFIRMATION SAMPLE LOCATIONS WERE REMOVED AS PART OF THE REMOVAL ACTION. SEE FIGURE 12-1 FOR SAMPLE LOCATIONS THAT REMAIN IN PLACE POST REMOVAL ACTION

-N-

40 0 40 80

SCALE: 1"=80'

Figure 8-1
CONFIRMATION SOIL SAMPLE LOCATIONS

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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DRAWN BY: KLD | DATE: 10/10/03
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APPROVED BY: RR
DCN:FWSD-RAC-03-0759 | N68711-98-D-5713 CTO-0039
DRAWING NO: 03075981.DWG

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Waste Characterization Sampling

Waste characterization sampling was performed in accordance with the FSPs (FWENC, 1999; 2002a; 2002b). Excavated soil and soil generated during temporary well installation were accumulated in stockpiles. Soil samples were collected from the stockpile at a rate of approximately one sample per 100 cubic yards. This process continued until June 2000, when sampling was changed to one stockpile per week for 1 day of excavation. Excavated soil for Phases 6 and 7 was sampled from the first stockpiles for both phases and the remaining excavated soil was shipped and disposed of under the same profile, as it was determined to be Cal-Haz. Soil from inside the UST was sampled separately. The asbestos from the steam line was sampled for friability and percent asbestos. The paint chips were sampled and were determined to require disposal at a RCRA facility. The water filter media, absorbent pads, and PPE were not sampled but characterized as Cal-Haz for disposal based on soil data. Water was collected from the excavation using a vacuum truck and temporarily stored on site in a 21,000-gallon Baker tank. Water from equipment decontamination also was temporarily stored in either the Baker tank or in a 6,900-gallon double-shelled water storage tank. Water from the tanks was sampled using a disposable bailer. The UST rinsate was also sampled.

Waste Characterization Analysis

Soil samples from the stockpiles were initially analyzed for the same chemicals as the pre-removal action samples (Section 7.1.5) to fully characterize the soil for disposal. Based on the initial sample analytical results that identified lead and copper as determining the waste classification, a decision was made by the DON to reduce the analytical suite. This reduced analytical suite included the lead Toxicity Characterization Leaching Procedure (TCLP) and the lead and copper Soluble Threshold Limit Concentration (STLC). Further, one out of every five samples was also analyzed for Title 22 metals, TPH-d, TPH-mo, and PAHs.

Water samples collected from the storage tanks were analyzed for SVOCs, VOCs, Title 22 metals, PCBs/pesticides, TPH (purgeable and extractable), pH, and flash point. Soil from inside the UST was analyzed for TPH (purgeable and extractable), PCBs, VOCs, and hexavalent chromium. UST rinsate was analyzed for TPH (purgeable and extractable), PCBs, and VOCs.

Waste Characterization Results

Table D-2 presents the stockpile identification, date sampled, and results of the waste characterization sampling for the soil. Based on these data, soil was classified as either RCRA, Cal-Haz, or non-hazardous waste and disposed of appropriately, as described in Section 10.0.

Additional waste characterization analytical results are presented in Table D-3.

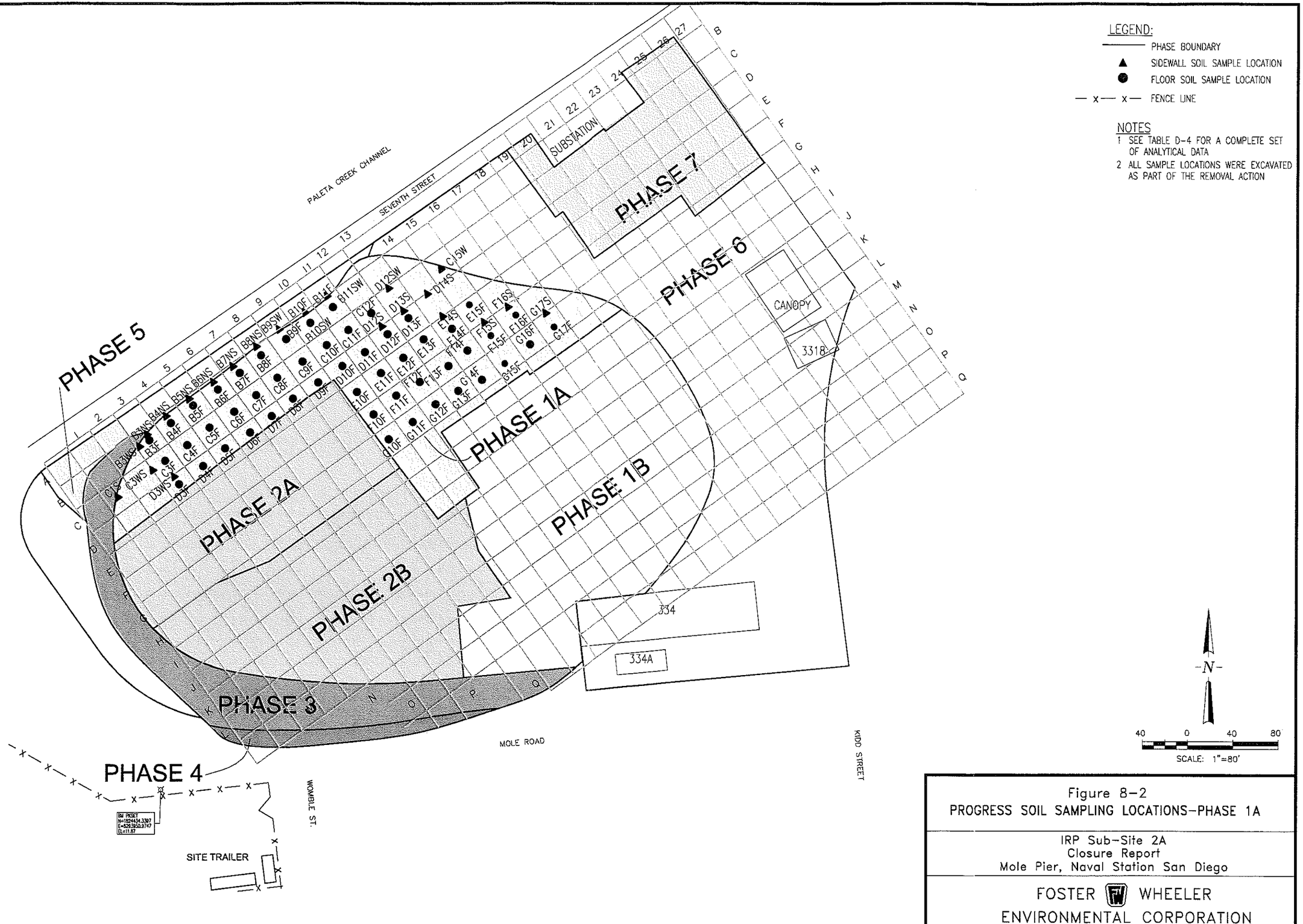

Figure 8-2
PROGRESS SOIL SAMPLING LOCATIONS-PHASE 1A

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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DCN: FWSD-RAC-03-0759
N68711-98-D-5713 CTO-0039
APPROVED BY: RR
CHECKED BY: RR
REV: 1
DRAWN BY: KLD
DATE: 10/10/03

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COCs were detected throughout the Phase 1A area at the 5 to 10 feet bgs sampling depths. The following is a summary of the COC distribution in Phase 1A:

- Hexavalent chromium was detected in concentrations above the residential PRG of 0.2 mg/kg in a total of 190 samples collected between 5 to 10 feet bgs. The range of concentrations detected above the PRG varied between 0.22 to 29 mg/kg and were found throughout the lateral and vertical extent of the sampling area.
- Arsenic was detected in concentrations above the NAVSTA background valve of 9.05 mg/kg in a total of 19 samples collected between 5 to 10 feet bgs. The range of concentrations detected above the PRG varied between 9.7 to 39.6 mg/kg and were localized to an approximate 8,000-square foot area just north of former Building 3224.
- Lead was detected in concentrations above the 1998 Cal-modified residential PRG of 130 mg/kg in a total of 35 samples collected between 5 and 10 feet bgs. The range of concentrations detected above the PRG varied between 131 and 30,900 mg/kg and were localized to the same general area where the elevated arsenic concentration was detected.
- Various PAHs were detected at concentrations above the PRGs in a total of 15 samples collected between 5 and 10 feet bgs. The concentrations detected above the residential PRGs were localized to the same general area where the elevated arsenic and lead concentrations were detected. However, the two samples with the highest relative values for the various PAHs were detected in Location G10 floor at 8.0 to 8.5 feet bgs and Location G11 floor at 6.5 to 7 feet bgs. Both of these sample locations were located in the Phase 2A area, which was the suspected location of the burn pit.

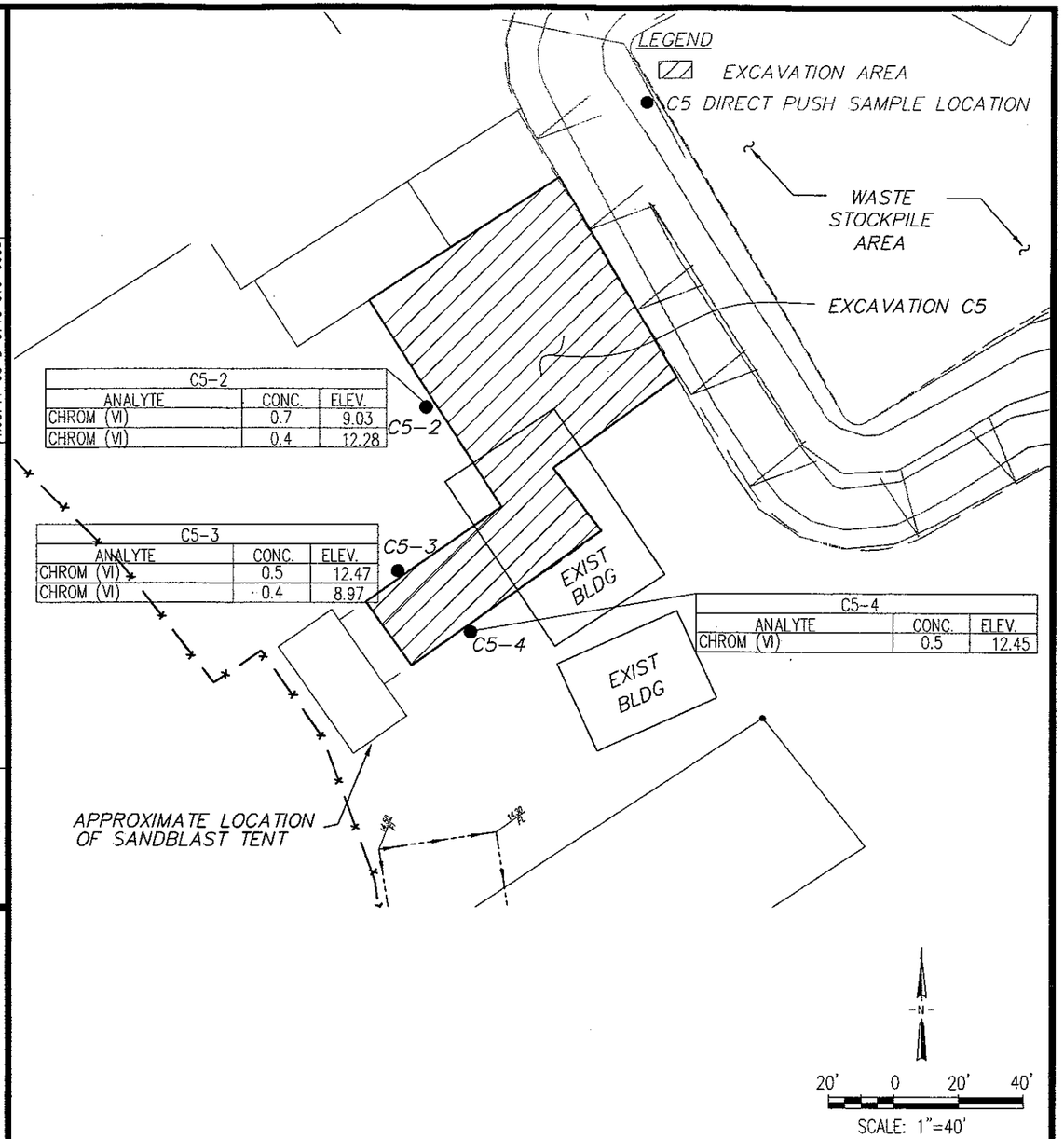
Based upon the results of the Phase 1A progress samples, the DON determined that the excavation of the Phase 1A area would extend vertically to the 10 feet bgs level versus the original 5 feet bgs as identified in the RAIP (FWENC, 1999).

Analytical results from the Area C5 soil samples were compared with NAVSTA San Diego background metal concentrations and respective residential PRGs (EPA, 1998). Table D-5 and Figure 8-3 summarize the analytical results.

Hexavalent chromium exceeded its target cleanup concentration of 0.2 mg/kg at each of the four soil boring locations ranging in concentration from 0.5 to 1 mg/kg. The soil from sample C5-1 was removed during the over-excavation of the C5 area in June 2002.

8.3.2 Total Petroleum Hydrocarbon Delineation Sampling and Analysis (Phase 2A)

TPH delineation sampling was initiated at the request of the DON and DTSC and consisted of collecting excavation bottom soil samples in areas with apparent TPH staining.



C5-2		
ANALYTE	CONC.	ELEV.
CHROM (VI)	0.7	9.03
CHROM (VI)	0.4	12.28

C5-3		
ANALYTE	CONC.	ELEV.
CHROM (VI)	0.5	12.47
CHROM (VI)	0.4	8.97

C5-4		
ANALYTE	CONC.	ELEV.
CHROM (VI)	0.5	12.45

Figure 8-3
EXCAVATION C5 SOIL BORING SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS GREATER OR EQUAL TO TARGET CLEANUP CONCENTRATIONS-PHASE 6

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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DRAWN BY: KLD
DATE: 10/10/03
CHEC Y: RR
REV: 1
APPROVED BY: RR
DCN: FWSD-RAC-03-0759
N68711-98-D-5713 CTO-0039
DRAWING NO: 0307598.DWG

TPH Delineation Sampling

TPH delineation samples were collected during the Phase 2A excavation activities. The samples were collected in accordance with the FSP (FWENC, 1999) to determine the vertical extent of TPH contamination. Forty-two soil samples were collected from 13 locations between 11 and 16 feet bgs in areas of apparent TPH staining using a direct-push rig. The excavation depths were adjusted based on the results of the TPH sample analytical results.

TPH Delineation Sampling Analysis

TPH delineation samples were analyzed for TPH-d and TPH-mo.

TPH Delineation Sampling Results

TPH delineation sample analytical results for Phase 2A are presented in Table 8-2 and on Figure 8-4. TPH-d was detected in concentrations ranging from 3J mg/kg at Location G6-SB-4 (14.5 to 16 feet bgs), to 18,300 mg/kg at Location G3-SB-2 (11 to 11.5 feet bgs), and TPH-mo was detected in concentrations ranging from 2J mg/kg at four locations, G3-SB-5 (15 to 15.5 feet bgs), G6-SB-1 (13 to 13.5 feet bgs), G6-SB-2 (15 to 15.5 feet bgs) and G6-SB-2 (11 to 11.5 feet bgs), to 5,100 mg/kg at G3-SB-2 (11 to 11.5 feet bgs).

8.3.3 Building 199 (Phase 5) Characterization

The Building 199 characterization was performed on December 13, 2000. Sample locations and analytical results above target cleanup goals are shown on Figure 8-5.

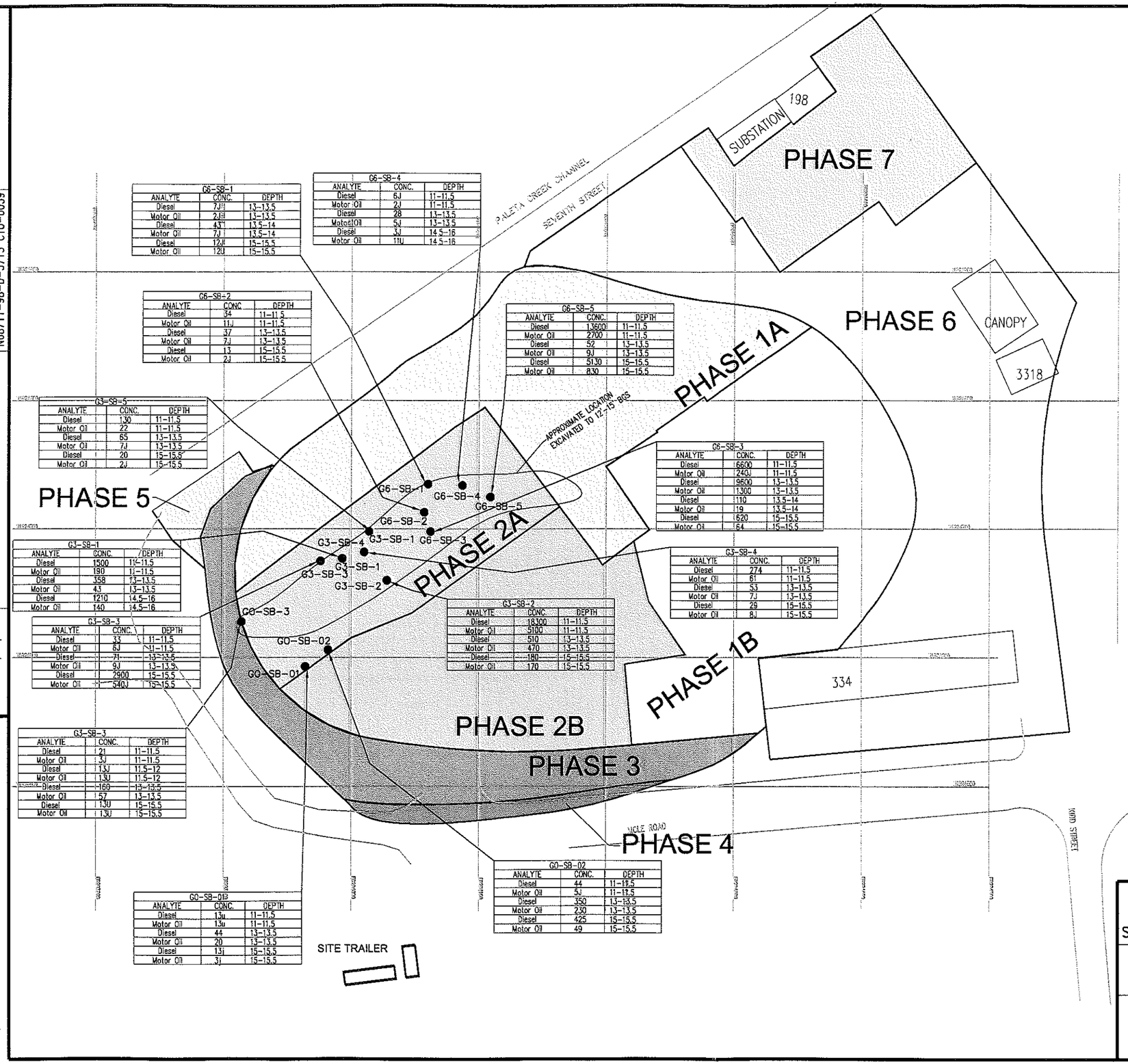
Building 199 Characterization Sampling

Soil samples were collected at three locations within Phase 5, approximately 10 feet south of the former Building 199, and north of the Phase 3 excavation boundary. The purpose of the characterization was to identify whether Title 22 metals, hexavalent chromium, TPH, and PAHs in soil exceeded target cleanup goals.

Three soil borings were hand-augered at the locations shown on Figure 8-5. Core samplers were used to retrieve soil samples from each location. Prior to hand-augering and sampling, the depth to groundwater was measured in nearby monitoring wells to ensure that groundwater would not be encountered. Samples were visually inspected, screened with a photoionization detector (PID), and logged prior to collection into the sample containers.

Building 199 Characterization Analysis

Soil samples were analyzed for Title 22 metals (EPA Method 6010B/7000), hexavalent chromium (EPA Method 7196A), TPH (EPA Method 8015B), PCBs (EPA Method 8082), and PAHs (EPA Method 8270C).



G6-SB-1		
ANALYTE	CONC.	DEPTH
Diesel	7J	13-13.5
Motor Oil	2J	13-13.5
Diesel	43	13.5-14
Motor Oil	7J	13.5-14
Diesel	12J	15-15.5
Motor Oil	12U	15-15.5

G6-SB-4		
ANALYTE	CONC.	DEPTH
Diesel	6J	11-11.5
Motor Oil	2J	11-11.5
Diesel	28	13-13.5
Motor Oil	5J	13-13.5
Diesel	3J	14.5-16
Motor Oil	11U	14.5-16

G6-SB-2		
ANALYTE	CONC	DEPTH
Diesel	34	11-11.5
Motor Oil	11J	11-11.5
Diesel	37	13-13.5
Motor Oil	7J	13-13.5
Diesel	13	15-15.5
Motor Oil	2J	15-15.5

G6-SB-5		
ANALYTE	CONC.	DEPTH
Diesel	13600J	11-11.5
Motor Oil	2700	11-11.5
Diesel	52	13-13.5
Motor Oil	9J	13-13.5
Diesel	5130	15-15.5
Motor Oil	830	15-15.5

G3-SB-5		
ANALYTE	CONC.	DEPTH
Diesel	130	11-11.5
Motor Oil	22	11-11.5
Diesel	65	13-13.5
Motor Oil	7J	13-13.5
Diesel	20	15-15.5
Motor Oil	2J	15-15.5

G6-SB-3		
ANALYTE	CONC.	DEPTH
Diesel	6600	11-11.5
Motor Oil	240J	11-11.5
Diesel	9600	13-13.5
Motor Oil	1300	13-13.5
Diesel	110	13.5-14
Motor Oil	19	13.5-14
Diesel	620	15-15.5
Motor Oil	64	15-15.5

G3-SB-1		
ANALYTE	CONC.	DEPTH
Diesel	1500	11-11.5
Motor Oil	190	11-11.5
Diesel	358	13-13.5
Motor Oil	43	13-13.5
Diesel	1210	14.5-16
Motor Oil	140	14.5-16

G3-SB-4		
ANALYTE	CONC.	DEPTH
Diesel	274	11-11.5
Motor Oil	61	11-11.5
Diesel	53	13-13.5
Motor Oil	7J	13-13.5
Diesel	29	15-15.5
Motor Oil	8J	15-15.5

G3-SB-2		
ANALYTE	CONC.	DEPTH
Diesel	18300	11-11.5
Motor Oil	5100	11-11.5
Diesel	510	13-13.5
Motor Oil	470	13-13.5
Diesel	180	15-15.5
Motor Oil	170	15-15.5

G3-SB-3		
ANALYTE	CONC.	DEPTH
Diesel	33	11-11.5
Motor Oil	8J	11-11.5
Diesel	71	13-13.5
Motor Oil	9J	13-13.5
Diesel	2900	15-15.5
Motor Oil	540J	15-15.5

G3-SB-3		
ANALYTE	CONC.	DEPTH
Diesel	21	11-11.5
Motor Oil	3J	11-11.5
Diesel	13J	11.5-12
Motor Oil	13U	11.5-12
Diesel	160	13-13.5
Motor Oil	57	13-13.5
Diesel	13U	15-15.5
Motor Oil	13U	15-15.5

GO-SB-02		
ANALYTE	CONC.	DEPTH
Diesel	44	11-11.5
Motor Oil	5J	11-11.5
Diesel	350	13-13.5
Motor Oil	230	13-13.5
Diesel	425	15-15.5
Motor Oil	49	15-15.5

GO-SB-03		
ANALYTE	CONC.	DEPTH
Diesel	13u	11-11.5
Motor Oil	13u	11-11.5
Diesel	44	13-13.5
Motor Oil	20	13-13.5
Diesel	13j	15-15.5
Motor Oil	3j	15-15.5

LEGEND

● LOCATION OF TPH DELINEATION SOIL BORING

—— PHASE BOUNDARY

NOTES

1 CONCENTRATIONS IN MG/KG
2 SEE TABLE 8-2 FOR A COMPLETE SET OF ANALYTICAL DATA
3 ALL DEPTH ARE BELOW PRE-REMOVAL ACTION GROUND SURFACE

-N-

40 0 40 80

SCALE: 1"=80'

Figure 8-4
TOTAL PETROLEUM HYDROCARBON DELINEATION SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS-PHASE 2A

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER
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DRAWING NO: 03075984.DWG
DCN: FWSD-RAC-03-0759
N68711-98-D-5713 CTO-0039
APPROVED BY: RR
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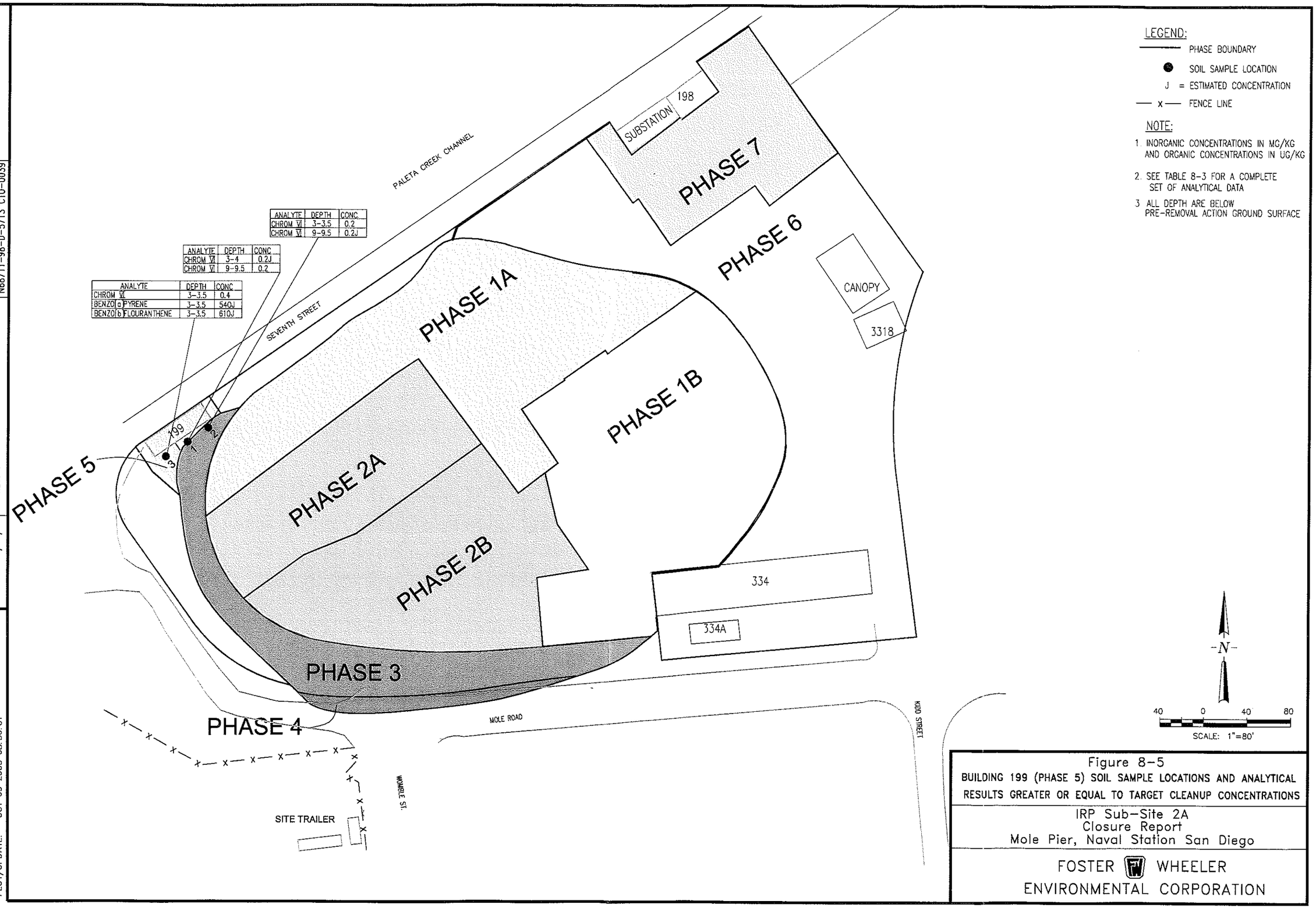

Figure 8-5
BUILDING 199 (PHASE 5) SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS GREATER OR EQUAL TO TARGET CLEANUP CONCENTRATIONS

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

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N68711-98-D-5713 CTO-0039
DRAWING NO: 03075985.DWG

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PLOT/UPDATE: OCT 09 2003 08:56:01

TABLE 8-2

TPH DELINEATION ANALYTICAL RESULTS - PHASE 2A

Sample Number			0002-1570A	0002-1571	0002-1572	0002-1573	0002-1574	0002-1575	0002-1576	0002-1577 (FD)	0002-1578	0002-1579	0002-1580	0002-1581	0002-1582	0002-1583
Sample Location			G0-SB-1	G0-SB-1	G0-SB-1	G0-SB-2	G0-SB-2	G0-SB-2	G0-SB-3	G0-SB-3	G0-SB-3	G0-SB-3	G3-SB-1	G3-SB-1	G3-SB-1	G3-SB-2
Sample Date			8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000
Sample Depth (feet)			11-11.5'	13-13.5'	15-15.5'	11-11.5'	13-13.5'	15-15.5'	11-11.5'	11.5-12'	13-13.5'	15-15.5'	11-11.5'	13-13.5'	14.5-16'	11-11.5'
Analyte	Units	Cleanup Goals														
Total Petroleum Hydrocarbons																
DIESEL	mg/kg	NE	13 U	44	13 J	44	350	425	21	13 J	160	13 U	1500	358	1210	18300
MOTOR OIL	mg/kg	NE	13 U	20	3 J	5 J	230	49	3 J	13 U	57	13 U	190	43	140	5100

Sample Number			0002-1584	0002-1585	0002-1586	0002-1587	0002-1588	0002-1589	0002-1590	0002-1591	0002-1592	0002-1593	0002-1594	0002-1595	0002-1596 (FD)	0002-1597
Sample Location			G3-SB-2	G3-SB-2	G3-SB-3	G3-SB-3	G3-SB-3	G3-SB-4	G3-SB-4	G3-SB-4	G3-SB-5	G3-SB-5	G3-SB-5	G6-SB-1	G6-SB-1	G6-SB-1
Sample Date			8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000
Sample Depth (feet)			13-13.5'	15-15.5'	11-11.5'	13-13.5'	15-15.5'	11-11.5'	13-13.5'	15-15.5'	11-11.5'	13-13.5'	15-15.5'	13-13.5'	13.5-14'	15-15.5'
Analyte	Units	Cleanup Goals														
Total Petroleum Hydrocarbons																
DIESEL	mg/kg	NE	510	180	33	71	2900	274	53	29	130	65	20	7 J	43	12 J
MOTOR OIL	mg/kg	NE	470	170	6 J	9 J	540 J	61	7 J	8 J	22	7 J	2 J	2 J	7 J	12 U

Sample Number			0002-1598	0002-1599	0002-1600	0002-1601	0002-1602	0002-1603 (FD)	0002-1604	0002-1605	0002-1606	0002-1607	0002-1608	0002-1609	0002-1610
Sample Location			G6-SB-2	G6-SB-2	G6-SB-2	G6-SB-3	G6-SB-3	G6-SB-3	G6-SB-3	G6-SB-4	G6-SB-4	G6-SB-4	G6-SB-5	G6-SB-5	G6-SB-5
Sample Date			8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000	8/9/2000
Sample Depth (feet)			11-11.5'	13-13.5'	15-15.5'	11-11.5'	13-13.5'	13.5-14'	15-15.5'	11-11.5'	13-13.5'	14.5-16'	11-11.5'	13-13.5'	15-15.5'
Analyte	Units	Cleanup Goals													
Total Petroleum Hydrocarbons															
DIESEL	mg/kg	NE	34	37	13	6600	9600	110	620	6 J	28	3 J	13600	52	5130
MOTOR OIL	mg/kg	NE	11 J	7 J	2 J	240 J	1300	19	64	2 J	5 J	11 U	2700	9 J	830

Notes:

FD - field duplicate

J - estimated value

mg/kg - milligrams per kilogram

NE - not established

TPH - total petroleum hydrocarbons

U - not detected

Building 199 Characterization Results

The soil encountered during the characterization activities was non-homogeneous and consisted predominantly of silty sand with randomly interbedded layers of sand, gravel, and clay, which is typical of hydraulic backfill.

Based upon the Building 199 characterization activities, hexavalent chromium, benzo[a]pyrene, and benzo[b]fluoranthene concentrations equaled or exceeded their respective target cleanup goals. Five hexavalent chromium concentrations exceeded cleanup goals ranging from 0.2 mg/kg to 0.4 mg/kg. Benzo[a]pyrene and benzo[b]fluoranthene were detected at concentrations above their respective target cleanup goals in only one soil sample at 540J and 610J micrograms kilogram (µg/kg), respectively. This soil sample was collected at a depth interval of 3 feet to 3.5 feet bgs. The "J" sample qualifier indicates that the concentrations are estimated values. Complete analytical results are included in Table 8-3 and shown graphically on Figure 8-5.

8.3.4 Seventh Street/Redondo Yard (Phase 6) Characterization

The Seventh Street/Redondo Yard characterization was performed during two sampling events. Samples A3, A5, and A9 were collected on May 30, 2000. Samples A12, A15, A18, and Redondo Yard Samples (Phase 6) RY1, RY2, and RY3 were collected on June 14, 2000. Sample locations and analytical results above target cleanup goals are shown on Figure 8-6.

Seventh Street/Redondo Yard Characterization Sampling

The Seven Street/Redondo Yard sampling activities included six locations along Seven Street and three locations at the eastern end of Seven Street and inside of the Redondo Yard. The purpose of the characterization effort was to identify whether chromium, hexavalent chromium, and/or lead concentrations in soil outside the northern boundary of IRP Sub-Site 2A and within a limited area within the Redondo Yard exceeded target cleanup goals.

Nine soil borings were drilled at the locations shown on Figure 8-6. A direct-push drill rig equipped with a core sampler was used to retrieve soil samples from each location. Prior to drilling and sampling, the depth to groundwater was measured in nearby monitoring wells to ensure that groundwater would not be encountered. Samples were visually inspected, screened for organic vapors using a PID, and logged prior to being collected into sample containers.

Soil borings were located approximately every 75 feet along Seventh Street as directed by the DON. The exact locations of several soil borings were adjusted to accommodate existing structures, obstacles, and underground utilities. Three soil samples were collected from each boring from approximately 4 to 4.5 feet bgs, 6 to 6.5 feet bgs, and 9 to 9.5 feet bgs.

The soil borings were completed pursuant to the *SAM Manual* (DEH, 1998), DTSC requirements, and appropriate protocols for logging, decontamination, and backfilling. The

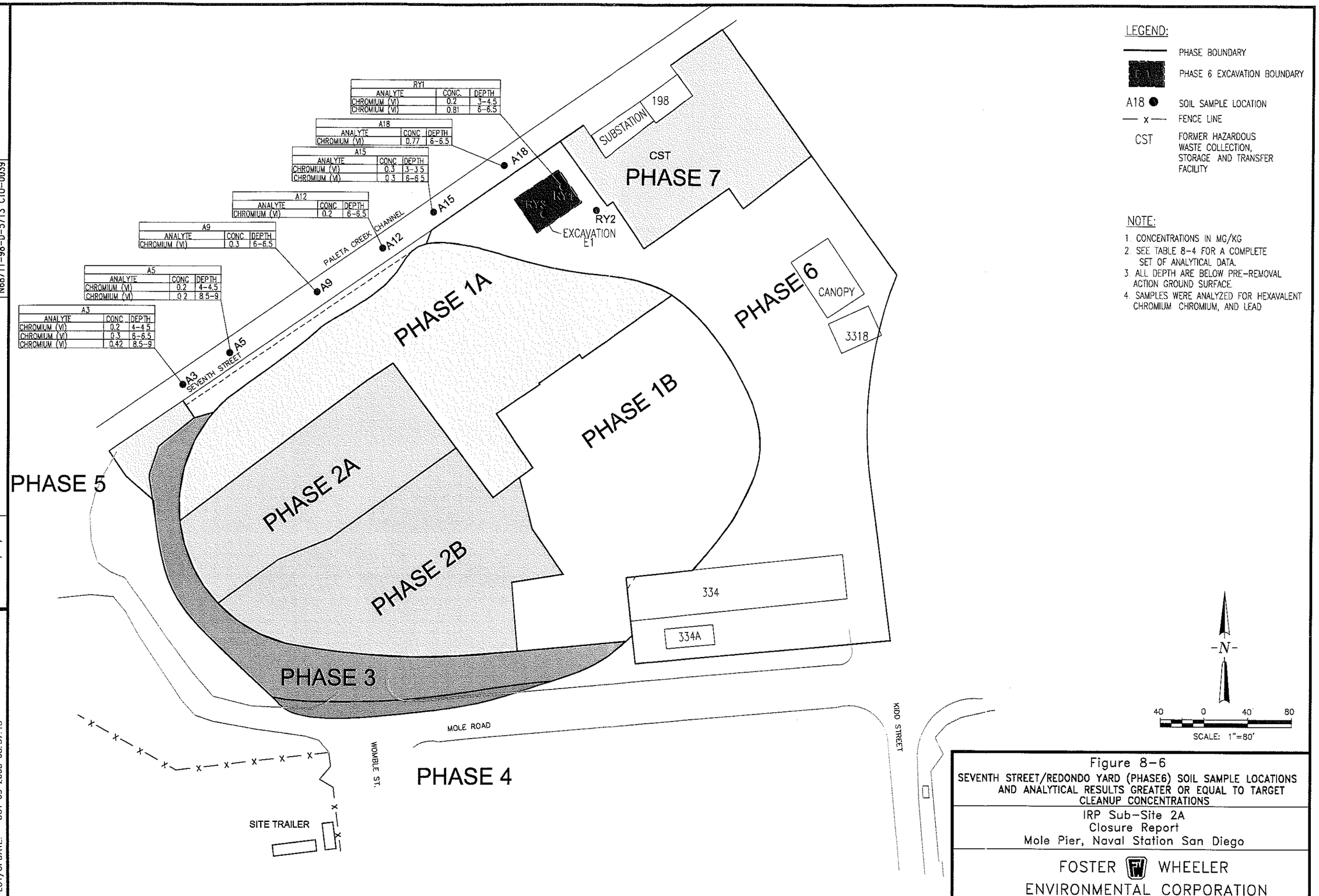

Figure 8-6
SEVENTH STREET/REDONDO YARD (PHASE6) SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS GREATER OR EQUAL TO TARGET CLEANUP CONCENTRATIONS

IRP Sub-Site 2A
Closure Report
Mole Pier, Naval Station San Diego

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

TABLE 8-3

BUILDING 199 SOIL ANALYTICAL RESULTS - PHASE 5

Sample Number			0002-1931	0002-1932	0002-1933	0002-1934	0002-1935	0002-1936	0002-1937	0002-1938	0002-1939
Sample Location			B1	B1	B1	B2	B2	B2	B3	B3	B3
Sample Date			12/13/2000	12/13/2000	12/13/2000	12/13/2000	12/13/2000	12/13/2000	12/13/2000	12/13/2000	12/13/2000
Sample Depth (feet)			3-4'	6-6.5'	9-9.5'	3-3.5'	6-6.5'	9-9.5'	3-3.5'	6-6.5'	9-9.5'
Analyte	Units	Cleanup Goals	3-4'	6-6.5'	9-9.5'	3-3.5'	6-6.5'	9-9.5'	3-3.5'	6-6.5'	9-9.5'
Metals											
HEXAVALENT CHROMIUM	mg/kg	0.2	0.2 J	0.26 U	0.2	0.2	0.22 U	0.2 J	0.4	0.21 U	0.29 U
ANTIMONY	mg/kg	NE	0.28 J	6.5 U	5.4 U	6.1 U	5.5 U	7 U	5.4 U	5.3 U	7.2 U
ARSENIC	mg/kg	9.05	2.2	2.4	1.5	2.3	1.9	2.3	2.5	2	2.4
BARIUM	mg/kg	NE	23.1	15.8	10.8	17.4	12.2	12.3	45.8	14.8	14.8
BERYLLIUM	mg/kg	NE	0.25 U	0.26 U	0.22 U	0.24 U	0.22 U	0.28 U	0.21 U	0.21 U	0.29 U
CADMIUM	mg/kg	NE	0.19 J	0.26 U	0.22 U	0.24 U	0.22 U	0.28 U	0.2 J	0.21 U	0.29 U
CHROMIUM	mg/kg	NE	14.3	6.5	5.4	5.5	4.6	4.2	11.1	5.1	9.7
COBALT	mg/kg	NE	3.2	2.6	2	2.9	2.1	2.7	3.8	2.2	3.2
COPPER	mg/kg	NE	10.9	2.4	1.7	1.5	1.2	0.71	27.6	3.2	4.7
LEAD	mg/kg	130	64.7	1.7	1.9	1.2	0.97	0.57	58.6	3.4	2.6
MERCURY	mg/kg	NE	0.25 U	0.26 U	0.22 U	0.24 U	0.22 U	0.28 U	0.21 U	0.068 J	0.29 U
MOLYBDENUM	mg/kg	NE	0.25 U	0.26 U	0.22 U	0.24 U	0.22 U	0.28 U	0.62	0.21 U	0.42
NICKEL	mg/kg	NE	2.8	2.2	2.1	1.6	1.3	1.5	5.3	1.8	3.6
SELENIUM	mg/kg	NE	0.61 U	0.65 U	0.54 U	0.61 U	0.55 U	0.7 U	0.54 U	0.53 U	0.72 U
SILVER	mg/kg	NE	0.61 U	0.65 U	0.54 U	0.61 U	0.55 U	0.7 U	0.54 U	0.53 U	0.72 U
THALLIUM	mg/kg	NE	0.61 U	0.65 U	0.54 U	0.61 U	0.55 U	0.7 U	0.54 U	0.53 U	0.72 U
VANADIUM	mg/kg	NE	17.3	12.1	9.5	14.7	11.6	11.7	22.2	12.1	14.8
ZINC	mg/kg	NE	103	11.4	9.1	9.7	7.7	6.5	103	13.3	12.3
Total Petroleum Hydrocarbons											
DIESEL	mg/kg	NE	260	1900	1200	12 U	11 U	14 U	110 U	11 U	82
MOTOR OIL	mg/kg	NE	2410	690	110	20	11 U	14 U	170	13	34
Polychlorinated Biphenyls											
AROCLOR 1016	µg/kg	NE	61 U	65 U	54 U	61 U	55 U	70 U	54 U	53 U	72 U
AROCLOR 1221	µg/kg	NE	120 U	130 U	110 U	120 U	110 U	140 U	110 U	110 U	140 U
AROCLOR 1232	µg/kg	NE	61 U	65 U	54 U	61 U	55 U	70 U	54 U	53 U	72 U
AROCLOR 1242	µg/kg	NE	61 U	65 U	54 U	61 U	55 U	70 U	54 U	53 U	72 U
AROCLOR 1248	µg/kg	NE	61 U	65 U	54 U	61 U	55 U	70 U	54 U	53 U	72 U
AROCLOR 1254	µg/kg	NE	31 U	32 U	27 U	30 U	28 U	35 U	27 U	26 U	36 U
AROCLOR 1260	µg/kg	NE	31 U	32 U	27 U	30 U	28 U	35 U	30	26 U	36 U
Polynuclear Aromatic Hydrocarbons											
ACENAPHTHENE	µg/kg	NE	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
ACENAPHTHYLENE	µg/kg	NE	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
ANTHRACENE	µg/kg	6100	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
BENZ[A]ANTHRACENE	µg/kg	560	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
BENZO[A]PYRENE	µg/kg	56	810 U	430 U	360 U	400 U	360 U	460 U	540 J	350 U	480 U
BENZO[B]FLUORANTHENE	µg/kg	560	810 U	430 U	360 U	400 U	360 U	460 U	610 J	350 U	480 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
BENZO[K]FLUORANTHENE	µg/kg	610	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
CHRYSENE	µg/kg	6100	810 U	430 U	360 U	400 U	360 U	460 U	510 J	350 U	480 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
FLUORANTHENE	µg/kg	NE	810 U	430 U	360 U	400 U	360 U	460 U	1000 J	350 U	480 U
FLUORENE	µg/kg	NE	810 U	430 U	130 J	400 U	360 U	460 U	2800 U	350 U	480 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
NAPHTHALENE	µg/kg	NE	810 U	430 U	360 U	400 U	360 U	460 U	2800 U	350 U	480 U
PHENANTHRENE	µg/kg	NE	810 U	430 U	170 J	400 U	360 U	460 U	2800 U	350 U	480 U
PYRENE	µg/kg	NE	810 U	430 U	360 U	400 U	360 U	460 U	770 J	350 U	480 U

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram

J - estimated value

mg/kg - milligrams per kilogram

NE = not established

U - not detected

direct-push rig, with a stainless steel core barrel lined with clear acetate sleeves, was used to retrieve the cores. A boring log was prepared for each soil boring and soils were classified in accordance with ASTM D 2488-90. The core barrels were decontaminated between each sample. The boreholes were backfilled to the surface with hydrated bentonite, and the surface pavement was patched, as appropriate

Seventh Street/Redondo Yard Characterization Analysis

Soil samples were analyzed for total chromium (EPA Method 6010B), hexavalent chromium (EPA Method 7196A), and total lead (EPA Method 6010B).

Seventh Street/Redondo Yard Characterization Data Validation

A third-party validation company, Laboratory Data Consultants, Inc., located in Carlsbad, California, validated the Seventh Street/Redondo Yard Soil sample results. The validation was conducted in accordance with the *EPA Contract Laboratory Program National Functional Guidelines For Inorganic Data Review* (EPA, 1994) and the criteria specified in Appendix C, QAPP, of the RAIP (FWENC, 1999). Ten percent of the total number of Seventh Street/Redondo Yard soil samples were validated in accordance with EPA Level IV, and the remainder of the samples were validated in accordance with EPA Level III protocol.

The validation included review of the following criteria:

- Technical holding times
- Instrument performance checks
- Initial and continuing calibration verification
- Blanks (laboratory and field)
- MS/MSDs
- Laboratory control samples
- Target compound identification
- Compounds quantification
- System performance

The validation company reported that all of the above criteria were met for all of the Seventh Street/Redondo Yard soil samples.

Seventh Street/Redondo Yard Characterization Results

The soil encountered during the characterization was non-homogeneous and consisted predominantly of silty sand with randomly interbedded layers of sand, gravel, and clay, typical

CST Site Assessment Analysis

The soil samples collected during the CST site assessment were analyzed for Title 22 metals, hexavalent chromium, TPH, organotins, VOCs, SVOCs, organochlorine pesticides, PCBs, chlorinated herbicides, dioxins, and radiochemistry.

CST Site Assessment Results

Soil at the CST was non-homogeneous and consisted predominantly of silty sand with randomly interbedded layers of sand, gravel, and clay, typical of hydraulic backfill. Dredge materials consisting of sediment containing shells were present throughout the soil in the vicinity of the CST, which increased with depth. Soil at the CST was not uniform in deposition. Visual signs of contamination (discoloration) were observed in Borings D3 and D4.

COCs above target cleanup goals were detected in the CST Phase 7 area primarily in the shallow (zero to 1.5 feet bgs) soil interval and the intermediate soil interval (3 feet to 4.5 feet bgs) with a few isolated soil samples in the deeper soil interval (7 feet to 9 feet bgs). A summary of the COC distribution is summarized as follows:

- Hexavalent chromium was predominantly detected in soil samples collected from borings located in the CST near and around Building 3275, as well as in other isolated shallow areas of Phase 7. No discernable pattern of reported concentrations of hexavalent chromium could be identified.
- Metals, including antimony, arsenic, lead, and thallium detected in soil samples collected from borings in the CST above their respective target cleanup goals, were predominantly located under or near Building 3275 and southeast of Building 204. No discernible pattern of reported concentrations of metals could be identified.
- The highest PCB concentractions (Aroclor 1242) were detected in soil samples collected from two boring locations; one under Building 3275 in the shallow sampling interval near the floor slab of the former reactive material storage room and the second on the east side of the shed in the intermediate soil depth interval. The detected concentrations were 73.3 mg/kg, and it should be noted that no PCBs were detected in either the shallow or the deeper sample intervals in this boring. No target cleanup goal has been established for PCBs.This implies that the source of this PCB contamination pre-dates the construction of the shed and access ramp.
- PAHs in the CST were identified throughout the site, predominantly in shallow soils, with several isolated soil samples collected from the intermediate soil interval. No discernible pattern of reported concentrations of PAHs could be identified.
- Dioxins in the CST were identified predominantly in the shallow soil interval under or near Building 3275 with three isolated soil samples collected from the intermediate soil interval and two isolated soil samples collected from the deeper soil interval. Boring logs from Borings D3 and D4 identified the presence of metal, wood, charred wood, and debris.

Field duplicate samples consist of two samples (an original and a duplicate) of the same matrix, collected at the same time and location to the extent possible, and using the same sampling technique. The purpose of field duplicate samples is to evaluate the precision of the overall sample collection and analysis process. The relative percent difference (RPD) can be calculated if the original and its duplicate have detected analytes. Field duplicates were collected at a frequency of 10 percent of the total number of confirmation soil samples. Calculated RPDs ranged from zero to 200 percent. The RPD variability can be attributed to the non-homogeneity of soil samples and high concentrations of analytes in the original samples.

Laboratory QC Samples

The MS/MSD determines whether the sample matrix is affecting sample analyte recoveries. MS/MSD samples were collected at a frequency of 1 per 20 samples. The samples used for MS/MSD were flagged as estimated ("J" qualifier) if the percent recoveries or RPDs were outside of QC limits. For this project, only one MS/MSD (sample number 0002-2208) had a RPD outside of QC limits for dioxins. This sample was flagged as estimated ("J" qualifier) for dioxins.

TABLE 8-4

SEVENTH STREET/REDONDO YARD (PHASE 6) SOIL ANALYTICAL RESULTS

Sample Number			0002-1391	0002-1392	0002-1393	0002-1394	0002-1395	0002-1396	0002-1397	0002-1398	0002-1399	0002-1431	0002-1432 (FD)	0002-1433	0002-1434	0002-1435	0002-1436 (FD)
Sample Location			SB-A3	SB-A3	SB-A3	SB-A5	SB-A5	SB-A5	SB-A9	SB-A9	SB-A9	SB-A12	SB-A12	SB-A12	SB-A12	SB-A15	SB-A15
Sample Date			5/30/2000	5/30/2000	5/30/2000	5/30/2000	5/30/2000	5/30/2000	5/30/2000	5/30/2000	5/30/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000
Sample Depth (feet)			4-4.5'	6-6.5'	8.5-9'	4-4.5'	6-6.5'	8.5-9'	4-4.5'	6-6.5'	8.5-9'	3-3.5'	3-3.5'	6-6.5'	8.5-9'	3-3.5'	3-3.5'
Analyte	Units	Cleanup Goals															
CHROMIUM	mg/kg	NE	8.4	4.3	18.2	6.9	3.7	13.8	4.6	4.3	4.2	10.4	7.2	5.2	4.9	6.6	5.9
LEAD	mg/kg	130	1.7	1.1 J	1.3	1.5	0.77 J	0.84 J	0.92 J	0.89 J	0.67 J	2.3	6.4	1.3	0.91	0.97	1.2
HEXAVALENT CHROMIUM	mg/kg	0.2	0.2	0.3	0.42	0.2	0.21 U	0.2	0.21 U	0.3	0.25 U	0.23 U	0.22 U	0.2	0.24 U	0.22 U	0.3

Sample Number			0002-1437	0002-1438	0002-1439	0002-1440	0002-1441	0002-1442	0002-1443	0002-1444 (FD)	0002-1445	0002-1446	0002-1447	0002-1448	0002-1449	0002-1450	0002-1460
Sample Location			SB-A15	SB-A15	SB-A18	SB-A18	SB-A18	SB-RY1	SB-RY1	SB-RY1	SB-RY1	SB-RY2	SB-RY2	SB-RY2	SB-RY3	SB-RY3	SB-RY3
Sample Date			6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000	6/14/2000
Sample Depth (feet)			6-6.5'	8.5-9'	3-3.5'	6-6.5'	8.5-9'	3-3.5'	6-6.5'	6-6.5'	8.5-9'	3-3.5'	6-6.5'	8.5-9'	3-3.5'	6-6.5'	8.5-9'
Analyte	Units	Cleanup Goals															
CHROMIUM	mg/kg	NE	5	7.1	6.8	8.1	6.2	8.7	5	4.4	5.6	6.3	7.5	8	5.7	6.6	4.8
LEAD	mg/kg	130	1.3	0.88	1.2	1.6	0.98	1.7	0.97	0.89	0.83	2.3	1.1	1.2	1.6	1.1	0.75
HEXAVALENT CHROMIUM	mg/kg	0.2	0.3	0.24 U	0.22 U	0.77	0.24 U	0.2	0.81	0.22 U	0.24 U	0.21 U	0.21 U	0.24 U	0.21 U	0.22 U	0.22 U

Notes:

Shading indicates result above cleanup goal

Depths are in feet below ground surface

FD - Field Duplicate

J - estimated value

mg/kg - milligrams per kilogram

NE - not established

U - not detected

A boring log was prepared for each soil boring location, and the soil was classified in accordance with the ASTM D 2488-90. The core barrels were decontaminated between samples. The boreholes were backfilled to the surface with hydrated bentonite, and the surface pavement was patched, as appropriate.

A total of 64 soil samples were collected from 18 boring locations in SWMU No. 6. The reported concentrations for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) equivalency were calculated using detected values only. Analytical results for SWMU No. 6 are presented in Table 8-5.

SWMU No. 6 Site Assessment Analysis

The soil samples collected from SWMU No. 6 were analyzed for Title 22 metals, hexavalent chromium, TPH, organotins, VOCs, SVOCs, organochlorine pesticides, PCBs, chlorinated herbicides, dioxins, and radiochemistry.

SWMU No. 6 Site Assessment Results

Soil at SWMU No. 6 was non-homogeneous and consisted predominantly of silty sand with randomly interbedded layers of sand, gravel, and clay, typical of hydraulic backfill. Dredge materials consisting of sediment containing shells were present throughout the soil in the vicinity of SWMU No. 6, increasing with depth. Soil at SWMU No. 6 was not uniform in deposition. Visual signs (staining) of contamination were observed in Borings D3 and D4.

COCs were detected in SWMU No. 6 primarily in the shallow (zero to 1.5 feet bgs) and intermediate (4 feet to 5.5 feet bgs) soil depth intervals with a few isolated detections in deeper soils (8.5 feet to 10 feet bgs). The interpreted COC distribution at SWMU No. 6 is summarized as follows:

- Two soil samples collected from the intermediate zone of SWMU No. 6 showed detected hexavalent chromium concentrations above the target cleanup goal of 0.2 mg/kg. The identified hexavalent chromium concentrations were detected at 0.5 mg/kg and 0.6 mg/kg.
- Metals, including antimony, arsenic, lead, and thallium are scattered throughout SWMU No. 6.
- PAHs in SWMU No. 6 above target cleanup goals were isolated to two soil samples collected from the shallow soil interval and one soil sample collected from the intermediate soil interval.
- Dioxins in SWMU No. 6 above the 2,3,7,8-TCDD-equivalent target cleanup goal were identified in four isolated shallow soil sample locations, one in intermediate soils, and one in deeper soils. Boring logs from Borings D3 and D4 identified the presence of metal, wood, charred wood, and debris.

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2234	0002-2235	0002-2236	0002-2237	0002-2238	0002-2239	0002-2240	0002-2241	0002-2242	0002-2243	0002-2244	0002-2245	0002-2246	0002-2247
Sample Location			B5	B5	B5	C6	C6	C6	B6	B6	B6	D6	D6	D6	C5	C5
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'
Analyte	**Units**	**Cleanup Goals**														
Metals																
HEXAVALENT CHROMIUM	mg/kg	0.2	0.26 U	0.23 U	0.26 U	0.21 U	0.26 U	0.3 U	0.24 U	0.21 U	0.23 U	0.29 U	0.24 U	0.21 U	0.35 U	0.26 U
ANTIMONY	mg/kg	NE	6.5 U	5.8 U	6.6 U	5.3 U	6.4 U	7.4 U	6 U	5.3 U	5.8 U	7.2 U	6 U	5.3 U	8.7 U	6.6 U
ARSENIC	mg/kg	9.05	4.1	3.5	2.3	7.1	5.5	7.1	3.8	9.8	1.1	5.6	2.7	6.1	6.3	2
BARIUM	mg/kg	NE	191	33.9	122	200	99.4	121	82.6	103	26.2	108	42.3	125	172	14.8
BERYLLIUM	mg/kg	NE	0.26 U	0.23 U	0.26 U	0.19 J	0.26 U	0.3 U	0.24 U	0.21 U	0.23 U	0.1 J	0.24 U	0.21 U	0.35 U	0.26 U
CADMIUM	mg/kg	NE	0.26 U	0.23 U	0.26 U	0.074 J	0.26 U	0.3 U	0.24 U	0.21 U	0.23 U	0.29 U	0.24 U	0.038 J	0.15 J	0.017 J
CHROMIUM	mg/kg	NE	26.5	9.2	15.4	4.8	20.7	28.6	15.1	29.7	5	24	9.6	7.1	44.1	5.5
COBALT	mg/kg	NE	14.7	6.3	8.8	2.6	9.3	13.7	6.4	4	2.2	22.2	5	3.2	19.7	2.5
COPPER	mg/kg	NE	25	11.4	11.6	5.7	16.2	22.5	13.7	10.7	2.9	19.6	6.4	7.4	32.4	2.6
LEAD	mg/kg	130	5.6	5.4	2.8	5.9	6.3	9.2	5.1	6.4	1.4	14.8	2	5.5	12.7	0.82
MERCURY	mg/kg	NE	0.063 J	0.075 J	0.26 U	0.055 J	0.095 J	0.11 J	0.087 J	0.21 U	0.23 U	0.22 J	0.053 J	0.059 J	0.19 J	0.049 J
MOLYBDENUM	mg/kg	NE	0.26 U	0.23 U	0.26 U	0.35	0.26 U	0.3 U	0.24 U	1.8	0.23 U	0.29 U	0.24 U	0.96	0.35 U	0.29
NICKEL	mg/kg	NE	12.5	3.7	6.3	2.6	8.8	12.4	5.3	13.3	1.6	9.5	4.1	4.2	17.7	1.7
SELENIUM	mg/kg	NE	0.65 U	0.58 U	0.66 U	0.91	0.64 U	0.74 U	0.6 U	0.26 J	0.58 U	0.72 U	0.6 U	0.43 J	0.87 U	0.66 U
SILVER	mg/kg	NE	0.65 U	0.58 U	0.66 U	0.53 U	0.64 U	0.74 U	0.6 U	0.53 U	0.58 U	0.72 U	0.6 U	0.53 U	0.87 U	0.66 U
THALLIUM	mg/kg	NE	0.65 U	0.58 U	0.66 U	0.53 U	0.64 U	0.74 U	0.6 U	0.53 U	0.58 U	0.72 U	0.6 U	0.53 U	0.87 U	0.66 U
VANADIUM	mg/kg	NE	78.3	35.3	52.7	8.7	50.6	74.1	35.3	21.3	17.2	65.4	25.5	15.3	116	14.3
ZINC	mg/kg	NE	62.1	37.1	32.3	23.7	46	59.5	30.3	31.6	8.2	59	19.6	25.6	89.4	8.4
Total Petroleum Hydrocarbons																
DIESEL	mg/kg	NE	13 U	12 U	13 U	11 U	94	84	21	39	12 U	39	12 U	21	21	13 U
MOTOR OIL	mg/kg	NE	13 U	12 U	22	11 U	220	170	46	120	14	71	12 U	96	47	13 U
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.5 U	0.8	0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	5 U	0.9	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.5 U	1	0.5 U	0.5 U	1	0.5 U	0.5 U	0.5 U	5	1	0.5 U
Pesticides																
4,4'-DDD	µg/kg	NE	2.6 U	2.3 U	2.6 U	1 J	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
4,4'-DDE	µg/kg	NE	2.6 U	2.3 U	2.6 U	0.7 J	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
4,4'-DDT	µg/kg	NE	2.6 U	2.3 U	2.6 U	2.1 U	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
ALDRIN	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
ALPHA-BHC	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
BETA-BHC	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
CHLORDANE	µg/kg	NE	65 U	58 U	66 U	53 U	64 U	74 U	60 U	53 U	58 U	72 U	60 U	53 U	87 U	66 U
DELTA-BHC	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
DIELDRIN	µg/kg	NE	2.6 U	2.3 U	2.6 U	2.1 U	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
ENDOSULFAN I	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
ENDOSULFAN II	µg/kg	NE	2.6 U	2.3 U	2.6 U	2.1 U	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
ENDOSULFAN SULFATE	µg/kg	NE	6.5 U	5.8 U	6.6 U	5.3 U	6.4 U	7.4 U	6 U	5.3 U	5.8 U	7.2 U	6 U	5.3 U	8.7 U	6.6 U
ENDRIN	µg/kg	NE	2.6 U	2.3 U	2.6 U	2.1 U	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
ENDRIN ALDEHYDE	µg/kg	NE	2.6 U	2.3 U	2.6 U	2.1 U	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
ENDRIN KETONE	µg/kg	NE	2.6 U	2.3 U	2.6 U	2.1 U	2.6 U	3 U	2.4 U	2.1 U	2.3 U	2.9 U	2.4 U	2.1 U	3.5 U	2.6 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
HEPTACHLOR	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.3 U	1.2 U	1.3 U	1.1 U	1.3 U	1.5 U	1.2 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U	1.7 U	1.3 U
METHOXYCHLOR	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
TOXAPHENE	µg/kg	NE	130 U	120 U	130 U	110 U	130 U	150 U	120 U	110 U	120 U	140 U	120 U	110 U	170 U	130 U
Polychlorinated Biphenyls																
AROCLOR 1016	µg/kg	NE	65 U	58 U	66 U	53 U	64 U	74 U	60 U	53 U	58 U	72 U	60 U	53 U	87 U	66 U
AROCLOR 1221	µg/kg	NE	130 U	120 U	130 U	110 U	130 U	150 U	120 U	110 U	120 U	140 U	120 U	110 U	170 U	130 U
AROCLOR 1232	µg/kg	NE	65 U	58 U	66 U	53 U	64 U	74 U	60 U	53 U	58 U	72 U	60 U	53 U	87 U	66 U
AROCLOR 1242	µg/kg	NE	65 U	58 U	66 U	53 U	64 U	74 U	60 U	53 U	58 U	72 U	60 U	53 U	87 U	66 U
AROCLOR 1248	µg/kg	NE	65 U	58 U	66 U	53 U	64 U	74 U	60 U	53 U	58 U	72 U	60 U	53 U	87 U	66 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2234	0002-2235	0002-2236	0002-2237	0002-2238	0002-2239	0002-2240	0002-2241	0002-2242	0002-2243	0002-2244	0002-2245	0002-2246	0002-2247
Sample Location			B5	B5	B5	C6	C6	C6	B6	B6	B6	D6	D6	D6	C5	C5
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'
Analyte	**Units**	**Cleanup Goals**														
AROCLOR 1254	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	27 U	29 U	36 U	30 U	26 U	44 U	33 U
AROCLOR 1260	µg/kg	NE	4 J	29 U	33 U	5 J	32 U	37 U	30 U	27 U	29 U	36 U	30 U	26 U	44 U	33 U
Herbicides																
2 4 5-T	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
2 4 5-TP	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
2 4-D	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
2 4-DB	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
3 5-DICHLOROBENZOIC	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
4-NITROPHENOL	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
ACIFLUORFEN	µg/kg	NE	26 U	23 U	26 U	21 U	26 U	30 U	24 U	21 U	23 U	29 U	24 U	21 U	35 U	26 U
BENTAZON (BASAGRAN)	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
CHLORAMBEN	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
DALAPON	µg/kg	NE	26 U	23 U	26 U	21 U	26 U	30 U	24 U	21 U	23 U	29 U	24 U	21 U	35 U	26 U
DICAMBA	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
DICHLOROPROP	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
DINOSEB	µg/kg	NE	26 U	23 U	26 U	21 U	26 U	30 U	24 U	21 U	23 U	29 U	24 U	21 U	35 U	26 U
MCPA	µg/kg	NE	260 U	230 U	260 U	210 U	260 U	300 U	240 U	210 U	230 U	290 U	240 U	210 U	350 U	260 U
MCPP	µg/kg	NE	260 U	230 U	260 U	210 U	260 U	300 U	240 U	210 U	230 U	290 U	240 U	210 U	350 U	260 U
PENTACHLOROPHENOL	µg/kg	NE	13 U	12 U	13 U	8 J	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
PICLORAM	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
Volatile Organic Compounds																
1 1 1-TRICHLOROETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
1 1 2 2-TETRACHLOROETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
1 1-DICHLOROETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
1 1-DICHLOROETHENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
1 2-DICHLOROETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
1,2-DICHLOROPROPANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
2-BUTANONE	µg/kg	NE	170 U	300 U	120 U	85 U	120 U	150 U	95 U	100 U	97 U	120 U	130 U	110 U	170 U	120 U
2-HEXANONE	µg/kg	NE	86 U	150 U	60 U	43 U	62 U	75 U	48 U	50 U	48 U	62 U	63 U	57 U	84 U	62 U
4-METHYL-2-PENTANONE	µg/kg	NE	86 U	150 U	60 U	43 U	62 U	75 U	48 U	50 U	48 U	62 U	63 U	57 U	84 U	62 U
ACETONE	µg/kg	NE	170 U	300 U	120 U	85 U	120 U	150 U	95 U	100 U	97 U	120 U	130 U	110 U	170 U	35 J
BENZENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
BROMODICHLOROMETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
BROMOFORM	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
BROMOMETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CARBON DISULFIDE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	6 J	4 8 U	2 J	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	12
CARBON TETRACHLORIDE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CHLOROBENZENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CHLOROETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CHLOROFORM	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CHLOROMETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	0 8 J	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
DIBROMOCHLOROMETHANE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
ETHYLBENZENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	17 U	30 U	12 U	8 5 U	12 U	15 U	9 5 U	10 U	9 7 U	12 U	13 U	11 U	17 U	12 U
METHYLENE CHLORIDE	µg/kg	NE	2 J	3 J	1 J	0 9 J	1 J	2 J	1 J	1 J	1 J	1 J	1 J	5 7 U	8 4 U	6 2 U
STYRENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
TETRACHLOROETHENE	µg/kg	NE	8 6 U	15 U	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	4 8 U	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
TOLUENE	µg/kg	NE	8 6 U	2 J	6 U	4 3 U	6 2 U	7 5 U	4 8 U	5 U	1 J	6 2 U	6 3 U	5 7 U	8 4 U	6 2 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	8.6 U	15 U	6 U	4.3 U	6.2 U	7.5 U	4.8 U	5 U	4.8 U	6.2 U	6.3 U	5.7 U	8.4 U	6.2 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2234	0002-2235	0002-2236	0002-2237	0002-2238	0002-2239	0002-2240	0002-2241	0002-2242	0002-2243	0002-2244	0002-2245	0002-2246	0002-2247
Sample Location			B5	B5	B5	C6	C6	C6	B6	B6	B6	D6	D6	D6	C5	C5
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'
Analyte	Units	Cleanup Goals														
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	8.6 U	15 U	6 U	4.3 U	6.2 U	7.5 U	4.8 U	5 U	4.8 U	6.2 U	6.3 U	5.7 U	8.4 U	6.2 U
TRICHLOROETHENE	µg/kg	NE	8.6 U	15 U	6 U	4.3 U	6.2 U	7.5 U	4.8 U	5 U	4.8 U	6.2 U	6.3 U	5.7 U	8.4 U	6.2 U
VINYL ACETATE	µg/kg	NE	86 U	150 U	60 U	43 U	62 U	75 U	48 U	50 U	48 U	62 U	63 U	57 U	84 U	62 U
VINYL CHLORIDE	µg/kg	NE	8.6 U	15 U	6 U	4.3 U	6.2 U	7.5 U	4.8 U	5 U	4.8 U	6.2 U	6.3 U	5.7 U	8.4 U	6.2 U
XYLENES (TOTAL)	µg/kg	NE	26 U	45 U	18 U	13 U	19 U	22 U	14 U	15 U	15 U	19 U	19 U	17 U	25 U	19 U
Semivolatile Organic Compounds																
1,2,4-TRICHLOROBENZENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
1,2-DICHLOROBENZENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
1,3-DICHLOROBENZENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
1,4-DICHLOROBENZENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	2100 U	1900 U	8400 U	1700 U	2100 U	2400 U	1900 U	1700 U	1800 U	2300 U	1900 U	1700 U	2800 U	2100 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2,4-DICHLOROPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2,4-DIMETHYLPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2,4-DINITROPHENOL	µg/kg	NE	2100 U	1900 U	8400 U	1700 U	2100 U	2400 U	1900 U	1700 U	1800 U	2300 U	1900 U	1700 U	2800 U	2100 U
2,4-DINITROTOLUENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2,6-DINITROTOLUENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2-CHLORONAPHTHALENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2-CHLOROPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2-METHYLPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
2-NITROANILINE	µg/kg	NE	2100 U	1900 U	8400 U	1700 U	2100 U	2400 U	1900 U	1700 U	1800 U	2300 U	1900 U	1700 U	2800 U	2100 U
2-NITROPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	580 U	520 U	2300 U	470 U	570 U	660 U	530 U	470 U	510 U	630 U	530 U	470 U	770 U	580 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
3-NITROANILINE	µg/kg	NE	2100 U	1900 U	8400 U	1700 U	2100 U	2400 U	1900 U	1700 U	1800 U	2300 U	1900 U	1700 U	2800 U	2100 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	2100 U	1900 U	8400 U	1700 U	2100 U	2400 U	1900 U	1700 U	1800 U	2300 U	1900 U	1700 U	2800 U	2100 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
4-CHLOROANILINE	µg/kg	NE	580 U	520 U	2300 U	470 U	570 U	660 U	530 U	470 U	510 U	630 U	530 U	470 U	770 U	580 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
4-NITROANILINE	µg/kg	NE	2100 U	1900 U	8400 U	1700 U	2100 U	2400 U	1900 U	1700 U	1800 U	2300 U	1900 U	1700 U	2800 U	2100 U
ACENAPHTHENE	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
ACENAPHTHYLENE	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
ANTHRACENE	µg/kg	6100	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
BENZ[A]ANTHRACENE	µg/kg	560	21 J	12 J	9 J	17 J	14 J	16 J	13 J	52 J	12 J	13 J	8 J	26 U	44 U	33 U
BENZO[A]PYRENE	µg/kg	56	33 U	29 U	33 U	26 U	32 U	10 J	30 U	110 U	29 U	36 U	30 U	9 J	44 U	33 U
BENZO[B]FLUORANTHENE	µg/kg	560	11 J	29 U	33 U	8 J	32 U	13 J	30 U	110 U	29 U	36 U	30 U	9 J	44 U	33 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	6 J	44 U	33 U
BENZO[K]FLUORANTHENE	µg/kg	610	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	5 J	44 U	33 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
CHRYSENE	µg/kg	6100	33 U	29 U	33 U	7 J	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
DIBENZOFURAN	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
DIETHYL PHTHALATE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	81 J	380 U	470 U	400 U	350 U	580 U	440 U
DIMETHYL PHTHALATE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
FLUORANTHENE	µg/kg	NE	33 U	29 U	33 U	13 J	32 U	37 U	30 U	110 U	29 U	36 U	30 U	7 J	44 U	33 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2234	0002-2235	0002-2236	0002-2237	0002-2238	0002-2239	0002-2240	0002-2241	0002-2242	0002-2243	0002-2244	0002-2245	0002-2246	0002-2247
Sample Location			B5	B5	B5	C6	C6	C6	B6	B6	B6	D6	D6	D6	C5	C5
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'
Analyte	Units	Cleanup Goals														
FLUORENE	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
HEXACHLOROBENZENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
HEXACHLOROBUTADIENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	740 U	660 U	3000 U	590 U	730 U	830 U	670 U	600 U	650 U	810 U	680 U	600 U	980 U	740 U
HEXACHLOROETHANE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
INDENO[1,2 3-CD]PYRENE	µg/kg	560	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	4 J	44 U	33 U
NAPHTHALENE	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	110 U	29 U	36 U	30 U	26 U	44 U	33 U
NITROBENZENE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	430 U	390 U	1700 U	350 U	420 U	490 U	390 U	350 U	380 U	470 U	400 U	350 U	580 U	440 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	510 U	460 U	2100 U	410 U	500 U	580 U	470 U	420 U	450 U	560 U	470 U	420 U	680 U	520 U
PHENANTHRENE	µg/kg	NE	33 U	29 U	33 U	26 U	32 U	37 U	30 U	68 J	13 J	36 U	30 U	8 J	44 U	33 U
PHENOL	µg/kg	NE	430 U	390 U	1700 U	400	420 U	490 U	500	350 U	380 U	280 J	990	350 U	580 U	440 U
PYRENE	µg/kg	NE	10 J	29 U	33 U	15 J	32 U	37 U	30 U	31 J	29 U	36 U	30 U	10 J	44 U	33 U
Organotin																
DIBUTYLTIN	µg/kg	NE	13 U	12 U	13 U	9 J	13 U	15 U	12 U	11 U	12 U	13 J	12 U	11 U	17 U	14
MONOBUTYLTIN	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
TETRABUTYLTIN	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
TRIBUTYLTIN	µg/kg	NE	13 U	12 U	13 U	11 U	13 U	15 U	12 U	11 U	12 U	14 U	12 U	11 U	17 U	13 U
Dioxins and Furans																
1 2 3 4 6,7,8 9-OCDD	pg/g	NE	85	4 J	1 5 U	5780	8 J	90 9	8 5 J	6 9 J	35 U	5 1 J	3 2 J	4 3 J	13 7	0 6 U
1 2 3 4 6 7 8 9-OCDF	pg/g	NE	3 4 J	1 5 U	1 2 U	139	0 7 U	19 2 U	0 6 U	1 2 U	27 3 U	0 6 U	2 1 U	0 9 U	1 3 J	0 5 U
1,2,3 4 6,7,8-HPCDD	pg/g	NE	14	1 3 J	1 1 U	1110	1 8 J	43 4	1 7 J	1 5 J	14 2 U	0 74 J	2 5 J	0 76 J	3 J	0 4 U
1 2 3 4 6 7 8-HPCDF	pg/g	NE	1 4 J	1 3 J	0 5 U	72 8	0 71 J	5 5 U	0 59 J	0 57 J	6 7 U	0 3 U	0 74 J	0 4 U	0 94 J	0 2 U
1 2 3 4 7 8 9-HPCDF	pg/g	NE	0 1 U	0 9 U	0 8 U	4 6	0 5 U	7 6 U	0 4 U	0 7 U	8 4 U	0 4 U	0 8 U	0 6 U	0 3 U	0 3 U
1,2,3 4,7 8-HXCDD	pg/g	NE	0 2 U	0 8 U	0 7 U	23 8	0 4 U	3 3 U	0 4 U	0 6 U	4 1 U	0 4 U	0 6 U	0 5 U	0 3 U	0 2 U
1 2 3 4 7 8-HXCDF	pg/g	NE	0 26 J	0 95 J	0 4 U	26	0 3 U	1 8 U	0 2 U	0 4 U	2 3 U	0 2 U	0 86 J	0 3 U	0 2 U	0 1 U
1 2 3 6 7 8-HXCDD	pg/g	NE	1 2 J	0 7 U	0 6 U	28 2	0 4 U	3 4 U	0 3 U	0 6 U	4 2 U	0 3 U	0 99 J	0 4 U	0 3 U	0 2 U
1 2,3,6,7,8-HXCDF	pg/g	NE	0 21 J	0 4 U	0 4 U	9 4	0 2 U	1 8 U	0 2 U	0 4 U	2 2 U	0 2 U	0 35 J	0 3 U	0 2 U	0 1 U
1 2 3 7 8,9-HXCDD	pg/g	NE	1 5 J	0 7 U	0 6 U	72 4	0 4 U	11 5	0 3 U	0 6 U	3 8 U	0 3 U	0 94 J	0 5 U	0 3 U	0 2 U
1 2 3 7 8 9-HXCDF	pg/g	NE	0 18 J	0 7 U	0 6 U	0 38 J	0 4 U	2 6 U	0 3 U	0 5 U	2 7 U	0 3 U	0 4 U	0 4 U	0 2 U	0 2 U
1 2 3 7 8-PECDD	pg/g	NE	0 18 J	0 7 U	0 6 U	10	0 4 U	1 6 U	0 3 U	0 6 U	1 9 U	0 3 U	0 34 J	0 4 U	0 3 U	0 2 U
1 2 3 7 8-PECDF	pg/g	NE	0 1 U	0 5 U	0 4 U	9 1	0 3 U	1 U	0 2 U	0 5 U	1 2 U	0 2 U	0 66 J	0 3 U	0 2 U	0 1 U
2 3,4,6 7,8-HXCDF	pg/g	NE	0 39 J	0 47 J	0 5 U	12 8	0 3 U	2 1 U	0 3 U	0 5 U	2 4 U	0 3 U	0 27 J	0 4 U	0 2 U	0 1 U
2 3 4 7 8-PECDF	pg/g	NE	0 1 U	0 54 J	0 4 U	10 8	0 3 U	1 U	0 2 U	0 5 U	1 2 U	0 2 U	0 74 J	0 3 U	0 2 U	0 1 U
2 3 7 8-TCDD	pg/g	NE	0 1 U	0 6 U	0 6 U	1 7	0 4 U	0 6 U	0 3 U	0 7 U	0 9 U	0 3 U	0 4 U	0 4 U	0 2 U	0 1 U
2,3 7,8-TCDF	pg/g	NE	0 1 U	2 3	0 4 U	22 4	0 3 U	0 4 U	0 2 U	0 5 U	0 8 U	0 2 U	1 5	0 3 U	0 2 U	0 1 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	7.06E-07	6.72E-07	0.00E+00	4.99E-05	3.31E-08	1.67E-06	3.14E-08	2.76E-08	0.00E+00	1.25E-08	1.10E-06	1.19E-08	5.44E-08	0.00E+00
Radiochemistry																
GROSS-ALPHA	pCi/g	NE	74 5	12 1	9 56	9 26	2 95	8 52	10 3	5 92	4 46	4 95	1 22 U	2 07 U	6 16	6 32
GROSS-BETA	pCi/g	NE	250	18 9	16 2	18	14 3	27 9	22 8	14 6	13 2	13 8	5 81	8 34	17 5	13 8
ACTINIUM-228	pCi/g	NE	1 11	1 27	0 505	0 U	0 U	1 1	1 45	0 874	0 U	0 U	0 433 U	0 359 U	0 U	0 226 U
AMERICIUM-241	pCi/g	NE	0 0242 U	0 00236 U	0 167 U	0 0628 U	0 0491 U	-0 0686 U	0 161 U	-0 266 U	0 0288 U	0 000131 U	0 0208 U	0 212 U	-0 165 U	-0 0333 U
ANTIMONY-124	pCi/g	NE	-0 0329 U	-0 0658 U	-0 0132 U	0 00424 U	-0 0231 U	-0 0867 U	-0 0913 U	0 064 U	-0 0734 U	0 0419 U	-0 0691 U	0 0173 U	-0 0109 U	0 0791 U
ANTIMONY-125	pCi/g	NE	0 0108 U	-0 0599 U	-0 0372 U	-0 0405 U	-0 0319 U	-0 075 U	-0 0457 U	-0 067 U	-0 0444 U	-0 0521 U	-0 104 U	0 0248 U	-0 0796 U	-0 031 U
BARIUM-133	pCi/g	NE	-0 0271 U	-0 0403 U	-0 00554 U	0 0317 U	-0 2 U	0 00891 U	0 011 U	-0 00665 U	0 00951 U	0 0164 U	-0 0638 U	-0 00616 U	-0 0363 U	0 0749 U
BARIUM-140	pCi/g	NE	-0 475 U	-3 08 U	1 32 U	2 48 U	-1 44 U	1 74 U	1 09 U	0 236 U	-0 247 U	-1 87 U	-4 44 U	-0 498 U	3 45 U	2 76 U
BERYLLIUM-7	pCi/g	NE	-0 446 U	-0 612 U	-0 419 U	0 595 U	-0 435 U	0 139 U	-0 291 U	0 437 U	0 283 U	0 482 U	0 317 U	-0 0852 U	0 33 U	0 116 U
BISMUTH-212	pCi/g	NE	0 65	1 06	0 U	0 345 U	0 234 U	0 817 U	0 U	0 852 U	0 859 U	0 76 U	0 598 U	0 385 U	1 13	1 06
BISMUTH-214	pCi/g	NE	1 02	0 702	0 328	0 336	0 44	0 343	1 37	0 571	0 372	0 U	0 U	0 325	0 539	0 649
CERIUM-139	pCi/g	NE	-0 00616 U	-0 0301 U	-0 0134 U	-0 0152 U	0 0287 U	-0 0538 U	-0 00924 U	-0 0216 U	0 00188 U	-0 0443 U	0 0245 U	-0 0237 U	0 0228 U	-0 00809 U
CERIUM-141	pCi/g	NE	0 0559 U	0 0359 U	0 257 U	0 0275 U	-0 0267 U	0 146 U	0 0283 U	0 0439 U	0 183 U	-0 126 U	0 3 U	-0 0953 U	0 0386 U	0 00808 U
CERIUM-144	pCi/g	NE	0.0634 U	-0.0465 U	0.0355 U	-0.205 U	0.0996 U	-0.599 U	0.0532 U	-0.15 U	0.137 U	-0.209 U	0.0571 U	0.0797 U	0.116 U	0.112 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2234	0002-2235	0002-2236	0002-2237	0002-2238	0002-2239	0002-2240	0002-2241	0002-2242	0002-2243	0002-2244	0002-2245	0002-2246	0002-2247
Sample Location			B5	B5	B5	C6	C6	C6	B6	B6	B6	D6	D6	D6	C5	C5
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'
Analyte	Units	Cleanup Goals														
CESIUM-134	pCi/g	NE	0.00197 U	-0.0443 U	-0.0224 U	0.016 U	0.00762 U	-0.0313 U	-0.011 U	-0.0219 U	-0.0249 U	-0.000405 U	-0.0583 U	-0.0137 U	-0.00899 U	0.0151 U
CESIUM-136	pCi/g	NE	0.391 U	1.37 U	-0.263 U	-0.576 U	0.119 U	-1.06 U	-1.26 U	-1.01 U	0.478 U	-1.19 U	0.309 U	0.354 U	0.233 U	-0.617 U
CESIUM-137	pCi/g	NE	0.0163 U	0.0478 U	0 U	-0.0495 U	0.0129 U	-0.0442 U	-0.0484 U	-0.0146 U	-0.00352 U	-0.0159 U	0.0296 U	0.0127 U	-0.0271 U	0.0171 U
CHROMIUM-51	pCi/g	NE	-0.486 U	-1.28 U	-0.136 U	-1.11 U	0.32 U	-0.58 U	-1.32 U	1.73 U	1.7 U	0.701 U	0.212 U	-0.0141 U	1.83 U	-0.191 U
COBALT-56	pCi/g	NE	0.0141 U	0.0263 U	-0.0231 U	0.0337 U	0.000217 U	0.0482 U	0.0132 U	-0.00466 U	0.0355 U	0.0037 U	0.0244 U	-0.0143 U	0.000475 U	0.0149 U
COBALT-57	pCi/g	NE	0.00976 U	-0.0127 U	0.0276 U	0.0142 U	-0.0079 U	-0.00633 U	0.000324 U	0.00444 U	0.000256 U	0.0284 U	0.0398 U	-0.00223 U	0.0413 U	-0.0152 U
COBALT-58	pCi/g	NE	0.02 U	-0.00264 U	0.0157 U	0.0688 U	0.0753 U	-0.115 U	0.0119 U	-0.0178 U	0.0397 U	0.0355 U	-0.0207 U	-0.0254 U	-0.0716 U	-7.08E-05 U
COBALT-60	pCi/g	NE	0.0251 U	0.0113 U	0.0042 U	0.0963 U	-0.0182 U	0.089 U	-0.00203 U	-0.0174 U	0.00339 U	0.0115 U	0.0295 U	0.0116 U	0.0147 U	0.0421 U
EUROPIUM-152	pCi/g	NE	-0.0241 U	-0.0416 U	0.0595 U	-0.0122 U	-0.0436 U	-0.149 U	-0.0311 U	-0.025 U	-0.0689 U	0.0791 U	-0.0292 U	-0.0734 U	-0.0964 U	-0.11 U
EUROPIUM-154	pCi/g	NE	-0.0939 U	-0.0277 U	0.148 U	-0.13 U	0.0896 U	-0.171 U	-0.102 U	-0.132 U	-0.0359 U	0.0149 U	0.138 U	0.0131 U	-0.0934 U	0.0727 U
EUROPIUM-155	pCi/g	NE	-0.00223 U	0.0891 U	-0.0365 U	0.0432 U	-0.0324 U	-0.0124 U	0.149 U	-0.125 U	0.0853 U	0.0138 U	-0.0423 U	0.00461 U	0.121 U	-0.0062 U
IRIDIUM-192	pCi/g	NE	0.0207 U	0.0395 U	0.00947 U	0.0523 U	-0.0165 U	0.0961 U	0.0136 U	-0.00405 U	0.00864 U	-0.0238 U	0.0418 U	-0.00545 U	-0.0358 U	0.015 U
IRON-59	pCi/g	NE	0.11 U	-0.14 U	-0.0243 U	-0.264 U	-0.134 U	0.0568 U	0.0208 U	0.0458 U	0.223 U	-0.039 U	0.305 U	0.104 U	-0.162 U	-0.188 U
LEAD-210	pCi/g	NE	1.13	12.3 U	1.33 U	0 U	6.19 U	0.23 U	6.53 U	-0.115 U	0.173 U	2.18 U	0.486 U	3.11 U	-1.4 U	-18.5 U
LEAD-212	pCi/g	NE	1.03	1.15	0.607	0.836	0.704	0.938	1.43	1.12	0.549	0.855	0.668	0.458	1.19	0.384
LEAD-214	pCi/g	NE	1.11	0.656	0.486	0.272	0.557	0.7	1.61	0.697	0.464	0.674	0.666	0.281	0.828	0.554
MANGANESE-54	pCi/g	NE	-0.0021 U	0.00214 U	0.0529 U	0.0614 U	0.00879 U	0.022 U	-0.0407 U	0.0913 U	0.018 U	-0.0214 U	0.0989 U	0.0221 U	-0.0424 U	-0.0205 U
MERCURY-203	pCi/g	NE	0.0278 U	-0.0304 U	0.0537 U	0.0463 U	0.0422 U	0.105 U	-0.00957 U	0 U	0 U	-0.0237 U	0.0414 U	-0.0294 U	0.00506 U	0.00502 U
NEODYMIUM-147	pCi/g	NE	0.868 U	-3.11 U	-7.1 U	-5.52 U	-5.33 U	-3.28 U	-3.53 U	-1.3 U	2.02 U	13.5 U	10.3 U	-2.92 U	-9.18 U	0.593 U
NEPTUNIUM-239	pCi/g	NE	-0.133 U	0.19 U	0.0259 U	-0.0159 U	-0.0781 U	-0.0158 U	-0.0393 U	-0.102 U	-0.0837 U	0.272 U	-0.0136 U	-0.0218 U	-0.175 U	0.0854 U
NIOBIUM-94	pCi/g	NE	-0.0284 U	-0.0168 U	0.0273 U	0.00425 U	-0.0254 U	-0.0923 U	0.0418 U	0.0766 U	0.0439 U	0.0793 U	-0.0349 U	0.00402 U	-0.00372 U	-0.0304 U
NIOBIUM-95	pCi/g	NE	0.0916 U	0.0713 U	0 U	0.0747 U	0.00291 U	0.0157 U	0.338 U	-0.259 U	-0.0388 U	-0.11 U	0.117 U	-0.078 U	0.101 U	0.024 U
POTASSIUM-40	pCi/g	NE	17.5	21.6	12.3	20.9	16.7	18.5	25	22	11.7	18.4	15.4	13.3	19.5	13.3
PROMETHIUM-144	pCi/g	NE	0.0112 U	0.0354 U	0.0537 U	0.0473 U	-0.0374 U	0.0413 U	0.0864 U	-0.0477 U	-0.0555 U	-0.0237 U	0.0236 U	-0.00705 U	-0.00627 U	-0.0125 U
PROMETHIUM-146	pCi/g	NE	0.0195 U	-0.00706 U	-0.0105 U	0.0157 U	0.0269 U	-0.0115 U	-0.0124 U	0.0564 U	0.0507 U	0.029 U	0.0503 U	-0.0204 U	-0.0776 U	0.00267 U
RADIUM-228	pCi/g	NE	1.05	1.27	0.505	0.881	0 U	1.1	1.45	0.874	0 U	0.844	0.433 U	0.359 U	0.809	0.226 U
RUTHENIUM-106	pCi/g	NE	0.562 U	-0.331 U	0 U	0.219 U	-0.132 U	0.21 U	-0.0992 U	-0.211 U	-0.216 U	0.0441 U	0.3 U	-0.224 U	0.38 U	0.139 U
SILVER-110M	pCi/g	NE	-0.0386 U	-0.012 U	-0.13 U	0.019 U	0.0104 U	0.0231 U	0.00773 U	-0.0212 U	0.0179 U	0.0184 U	-0.035 U	-0.0278 U	-0.0248 U	0.0379 U
SODIUM-22	pCi/g	NE	-0.0347 U	-0.0104 U	0.0541 U	-0.0541 U	0.0326 U	-0.0615 U	-0.0378 U	-0.0485 U	-0.0134 U	0.00569 U	0.0491 U	0.00465 U	-0.035 U	0.0272 U
THALLIUM-208	pCi/g	NE	0.233	0.352	0.088	0.176	0.254	0.279	0.403	0 U	0.189	0.191	0.292	0.22	0.287	0 U
THORIUM-230	pCi/g	NE	1.02	0.702	0.328	0.336	0.44	0.343	1.37	0.571	0.372	0.599	0.337	0.325	0.539	0.649
THORIUM-234	pCi/g	NE	1.11	1.05 U	1.62 U	0 U	1.42 U	1.01 U	2.24 U	4.18 U	1.11 U	1.76 U	0 U	0.577 U	1.67 U	0.48 U
TIN-113	pCi/g	NE	-0.0551 U	0.0557 U	-0.0195 U	-0.0578 U	-0.0434 U	0.154 U	-0.0352 U	0.0834 U	0.022 U	0.0625 U	0.0449 U	0.0445 U	0.0104 U	0.0651 U
URANIUM-235	pCi/g	NE	0.0726 U	-0.0308 U	0 U	0.267 U	0.0778 U	0.455 U	0.0628 U	0.0597 U	0.286 U	0.0149 U	0 U	0.239 U	-0.0737 U	0.0119 U
URANIUM-238	pCi/g	NE	1.11	1.05 U	1.62 U	0 U	1.42 U	1.01 U	2.24 U	4.18 U	1.11 U	1.76 U	0 U	0.577 U	1.67 U	0.48 U
YTTRIUM-88	pCi/g	NE	-0.0174 U	-0.0576 U	0.0481 U	0.0377 U	0.00647 U	-0.0095 U	0.0133 U	-0.023 U	0.014 U	0.0149 U	-0.0371 U	-0.016 U	0.0517 U	-0.066 U
ZINC-65	pCi/g	NE	-0.00792 U	0.115 U	-0.0597 U	0.147 U	0.0384 U	0.0271 U	0.0543 U	-0.092 U	0.0983 U	0.0624 U	-0.204 U	0.123 U	0.285	-0.0179 U
ZIRCONIUM-95	pCi/g	NE	-0.0236 U	-0.0501 U	-0.0962 U	0.0399 U	-0.0452 U	0.197 U	0.0721 U	-0.0163 U	-0.0477 U	0 U	0.359 U	-0.0446 U	0.0979 U	-0.0448 U

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2248	0002-2249	0002-2250	0002-2251	0002-2252	0002-2253	0002-2254	0002-2255	0002-2256	0002-2257	0002-2258	0002-2259	0002-2260	0002-2263
Sample Location			C5	D5	D5	D5	D4	D4	D4	D3	D3	D3	C4	C4	C4	C3
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/16/2001
Sample Depth (feet)			8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'
Analyte	**Units**	**Cleanup Goals**														
Metals																
HEXAVALENT CHROMIUM	mg/kg	0.2	0.2	0.31 U	0.22 U	0.22 U	0.22 U	0.24 U	0.3 U	0.22 U	0.21 U	0.21 U	0.24 U	0.26 U	0.23 U	0.21 U
ANTIMONY	mg/kg	NE	5.2 U	7.7 U	5.6 U	5.5 U	31.7	5.9 U	7.4 U	2.7 J	5.3 U	5.3 U	6 U	6.4 U	5.8 U	5.2 U
ARSENIC	mg/kg	9.05	8.4	5.9	0.73	8.1	10	1.9	2.7	4.3	1.8	1.2	3.9	1.9	1.8	6.7
BARIUM	mg/kg	NE	172	109	107	164	164	120	34.6	123	11.3	13.1	172	39.4	21.6	83.9
BERYLLIUM	mg/kg	NE	0.037 J	0.31 U	0.22 U	0.22 U	0.22 U	0.24 U	0.3 U	0.22 U	0.21 U	0.21 U	0.24 U	0.26 U	0.23 U	0.21 U
CADMIUM	mg/kg	NE	0.046 J	0.45	0.22 U	0.053 J	1.7	0.24 U	0.023 J	0.36	0.014 J	0.21 U	0.4	0.046 J	0.024 J	0.03 J
CHROMIUM	mg/kg	NE	4	24.6	12.9	15.3	83.5	12.5	7.7	19.7	4	4.3	25.5	13.6	7.2	9.2
COBALT	mg/kg	NE	3	21.8	8.9	5	8.3	9.5	3.9	7.9	1.9	2.8	13.4	4.7	3.5	4.8
COPPER	mg/kg	NE	6.3	22	9.4	11.1	556	11.7	4.5	179	1.9	2.9	28.6	9.8	3.7	25.5
LEAD	mg/kg	130	5.3	12.3	1.7	5.9	517	2.9	1.4	137	0.73	0.74	5.3	2.2	1.2	12.9
MERCURY	mg/kg	NE	0.21 U	0.096 J	0.036 J	0.056 J	0.085 J	0.054 J	0.048 J	0.62	0.05 J	0.046 J	0.14 J	0.086 J	0.055 J	0.055 J
MOLYBDENUM	mg/kg	NE	0.18 J	0.31 U	0.22 U	2.7	1.7	0.24 U	0.35	0.089 J	0.33	0.21 U	0.34	1.9	0.35	2.6
NICKEL	mg/kg	NE	5.2	15.2	5.2	10.4	23.3	5.7	2.7	9.1	1.3	1.6	10.1	3.2	2.9	10.8
SELENIUM	mg/kg	NE	0.68	0.77 U	0.56 U	0.24 J	0.56 U	0.59 U	0.74 U	0.55 U	0.53 U	0.53 U	0.6 U	0.64 U	0.58 U	0.52 U
SILVER	mg/kg	NE	0.52 U	0.77 U	0.56 U	0.55 U	0.051 J	0.59 U	0.74 U	0.55 U	0.53 U	0.53 U	0.6 U	0.64 U	0.58 U	0.52 U
THALLIUM	mg/kg	NE	0.52 U	0.77 U	0.56 U	0.55 U	0.56 U	0.59 U	0.74 U	0.55 U	0.53 U	0.53 U	0.6 U	0.64 U	0.58 U	0.52 U
VANADIUM	mg/kg	NE	11.4	63.6	46.4	26.3	34.4	45.7	18.7	37.8	9.5	13.5	64.7	27.6	16.2	25.1
ZINC	mg/kg	NE	25.4	59.5	28	32.8	1140	34.3	16	233	7.1	8.4	59.7	18.9	13.6	45.1
Total Petroleum Hydrocarbons																
DIESEL	mg/kg	NE	10 U	15 U	11 U	11 U	300	12 U	15 U	120	11 U	33 J	12 U	13 U	12 U	210 U
MOTOR OIL	mg/kg	NE	10 U	15 U	11 U	14	630	12 U	15 U	810	11 U	200	22	13 U	12 U	550
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.5 U	5 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	0.5 U	4 J	2	0.5 U	0.5 U	0.6	0.5 U	0.6	0.5 J	0.7	0.5 U	6
Pesticides																
4,4'-DDD	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	5	2.4 U	3 U	12	2.1 U	11 U	2.4 U	2.6 U	2.3 U	10 U
4,4'-DDE	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	4	2.4 U	3 U	5	2.1 U	11 U	2.4 U	2.6 U	2.3 U	10 U
4,4'-DDT	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	20	2.4 U	3 U	45	2.1 U	11 U	2.4 U	2.6 U	2.3 U	15
ALDRIN	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
ALPHA-BHC	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
BETA-BHC	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
CHLORDANE	µg/kg	NE	52 U	77 U	56 U	55 U	56 U	59 U	74 U	55 U	53 U	270 U	60 U	64 U	58 U	260 U
DELTA-BHC	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
DIELDRIN	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	2.2 U	2.4 U	3 U	2.2 U	2.1 U	11 U	2.4 U	2.6 U	2.3 U	10 U
ENDOSULFAN I	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
ENDOSULFAN II	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	1 J	2.4 U	3 U	2.2 U	2.1 U	11 U	2.4 U	2.6 U	2.3 U	10 U
ENDOSULFAN SULFATE	µg/kg	NE	5.2 U	7.7 U	5.6 U	5.5 U	5.6 U	5.9 U	7.4 U	5.5 U	5.3 U	27 U	6 U	6.4 U	5.8 U	26 U
ENDRIN	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	2.2 U	2.4 U	3 U	2	2.1 U	11 U	2.4 U	2.6 U	2.3 U	12
ENDRIN ALDEHYDE	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	4	2.4 U	3 U	2.2 U	2.1 U	11 U	2.4 U	2.6 U	2.3 U	10 U
ENDRIN KETONE	µg/kg	NE	2.1 U	3.1 U	2.2 U	2.2 U	2.2 U	2.4 U	3 U	2.2 U	2.1 U	11 U	2.4 U	2.6 U	2.3 U	10 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
HEPTACHLOR	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1 U	1.5 U	1.1 U	1.1 U	1.1 U	1.2 U	1.5 U	1.1 U	1.1 U	5.3 U	1.2 U	1.3 U	1.2 U	5.2 U
METHOXYCHLOR	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	53 U	12 U	13 U	12 U	52 U
TOXAPHENE	µg/kg	NE	100 U	150 U	110 U	110 U	110 U	120 U	150 U	110 U	110 U	530 U	120 U	130 U	120 U	520 U
Polychlorinated Biphenyls																
AROCLOR 1016	µg/kg	NE	52 U	77 U	56 U	55 U	56 U	59 U	74 U	55 U	53 U	53 U	60 U	64 U	58 U	52 U
AROCLOR 1221	µg/kg	NE	100 U	150 U	110 U	110 U	110 U	120 U	150 U	110 U	110 U	110 U	120 U	130 U	120 U	100 U
AROCLOR 1232	µg/kg	NE	52 U	77 U	56 U	55 U	56 U	59 U	74 U	55 U	53 U	53 U	60 U	64 U	58 U	52 U
AROCLOR 1242	µg/kg	NE	52 U	77 U	56 U	55 U	56 U	59 U	74 U	55 U	53 U	53 U	60 U	64 U	58 U	52 U
AROCLOR 1248	µg/kg	NE	52 U	77 U	56 U	55 U	56 U	59 U	74 U	55 U	53 U	53 U	60 U	64 U	58 U	52 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2248	0002-2249	0002-2250	0002-2251	0002-2252	0002-2253	0002-2254	0002-2255	0002-2256	0002-2257	0002-2258	0002-2259	0002-2260	0002-2263
Sample Location			C5	D5	D5	D5	D4	D4	D4	D3	D3	D3	C4	C4	C4	C3
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/16/2001
Sample Depth (feet)			8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'
Analyte	**Units**	**Cleanup Goals**														
AROCLOR 1254	µg/kg	NE	26 U	39 U	28 U	27 U	28 U	29 U	37 U	28 U	26 U	27 U	30 U	32 U	29 U	26 U
AROCLOR 1260	µg/kg	NE	26 U	7 J	28 U	27 U	67	29 U	37 U	38	26 U	2 J	30 U	32 U	29 U	180
Herbicides																
2,4,5-T	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
2,4,5-TP	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
2,4-D	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
2,4-DB	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
3,5-DICHLOROBENZOIC	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
4-NITROPHENOL	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
ACIFLUORFEN	µg/kg	NE	21 U	31 U	22 U	22 U	22 U	24 U	30 U	22 U	21 U	21 U	24 U	26 U	23 U	21 U
BENTAZON (BASAGRAN)	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
CHLORAMBEN	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
DALAPON	µg/kg	NE	21 U	31 U	22 U	22 U	22 U	24 U	30 U	22 U	21 U	21 U	24 U	26 U	23 U	21 U
DICAMBA	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
DICHLOROPROP	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
DINOSEB	µg/kg	NE	21 U	31 U	22 U	22 U	22 U	24 U	30 U	22 U	21 U	21 U	24 U	26 U	23 U	21 U
MCPA	µg/kg	NE	210 U	310 U	220 U	220 U	220 U	240 U	300 U	220 U	210 U	210 U	240 U	260 U	230 U	210 U
MCPP	µg/kg	NE	210 U	310 U	220 U	220 U	220 U	240 U	300 U	220 U	210 U	210 U	240 U	260 U	230 U	210 U
PENTACHLOROPHENOL	µg/kg	NE	10 U	15 U	11 U	11 U	4 J	12 U	15 U	11	11 U	11 U	12 U	13 U	12 U	10 U
PICLORAM	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
Volatile Organic Compounds																
1,1,1-TRICHLOROETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
1,1-DICHLOROETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
1,1-DICHLOROETHENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
1,2-DICHLOROETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
1,2-DICHLOROPROPANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
2-BUTANONE	µg/kg	NE	110 U	130 U	120 U	110 U	100 U	140 U	150 U	120 U	110 U	120 U	130 U	130 U	120 U	98 U
2-HEXANONE	µg/kg	NE	54 U	67 U	61 U	57 U	51 U	71 U	77 U	59 U	57 U	58 U	66 U	65 U	61 U	49 U
4-METHYL-2-PENTANONE	µg/kg	NE	54 U	67 U	61 U	57 U	51 U	71 U	77 U	59 U	57 U	58 U	66 U	65 U	61 U	49 U
ACETONE	µg/kg	NE	110 U	130 U	120 U	110 U	100 U	140 U	40 J	120 U	110 U	120 U	130 U	35 J	120 U	98 U
BENZENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
BROMODICHLOROMETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
BROMOFORM	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
BROMOMETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CARBON DISULFIDE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	8 J	5.9 U	5.7 U	5.8 U	6.6 U	6 J	6.1 U	4.9 U
CARBON TETRACHLORIDE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CHLOROBENZENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CHLOROETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CHLOROFORM	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CHLOROMETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
ETHYLBENZENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	13 U	12 U	11 U	10 U	14 U	15 U	12 U	11 U	12 U	13 U	13 U	12 U	9.8 U
METHYLENE CHLORIDE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
STYRENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
TETRACHLOROETHENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
TOLUENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2248	0002-2249	0002-2250	0002-2251	0002-2252	0002-2253	0002-2254	0002-2255	0002-2256	0002-2257	0002-2258	0002-2259	0002-2260	0002-2263
Sample Location			C5	D5	D5	D5	D4	D4	D4	D3	D3	D3	C4	C4	C4	C3
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/16/2001
Sample Depth (feet)			8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'
Analyte	Units	Cleanup Goals														
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
TRICHLOROETHENE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
VINYL ACETATE	µg/kg	NE	54 U	67 U	61 U	57 U	51 U	71 U	77 U	59 U	57 U	58 U	66 U	65 U	61 U	49 U
VINYL CHLORIDE	µg/kg	NE	5.4 U	6.7 U	6.1 U	5.7 U	5.1 U	7.1 U	7.7 U	5.9 U	5.7 U	5.8 U	6.6 U	6.5 U	6.1 U	4.9 U
XYLENES (TOTAL)	µg/kg	NE	16 U	20 U	18 U	17 U	15 U	21 U	23 U	18 U	17 U	17 U	20 U	20 U	18 U	15 U
Semivolatile Organic Compounds																
1,2,4-TRICHLOROBENZENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
1,2-DICHLOROBENZENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
1,3-DICHLOROBENZENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
1,4-DICHLOROBENZENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	1700 U	2500 U	1800 U	1800 U	7200 U	1900 U	2400 U	7100 U	1700 U	6800 U	1900 U	2100 U	1900 U	33000 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2,4-DICHLOROPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2,4-DIMETHYLPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2,4-DINITROPHENOL	µg/kg	NE	1700 U	2500 U	1800 U	1800 U	7200 U	1900 U	2400 U	7100 U	1700 U	6800 U	1900 U	2100 U	1900 U	33000 U
2,4-DINITROTOLUENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2,6-DINITROTOLUENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2-CHLORONAPHTHALENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2-CHLOROPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2-METHYLPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
2-NITROANILINE	µg/kg	NE	1700 U	2500 U	1800 U	1800 U	7200 U	1900 U	2400 U	7100 U	1700 U	6800 U	1900 U	2100 U	1900 U	33000 U
2-NITROPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	460 U	690 U	490 U	490 U	2000 U	520 U	650 U	2000 U	470 U	1900 U	530 U	570 U	510 U	8100 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
3-NITROANILINE	µg/kg	NE	1700 U	2500 U	1800 U	1800 U	7200 U	1900 U	2400 U	7100 U	1700 U	6800 U	1900 U	2100 U	1900 U	33000 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1700 U	2500 U	1800 U	1800 U	7200 U	1900 U	2400 U	7100 U	1700 U	6800 U	1900 U	2100 U	1900 U	33000 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
4-CHLOROANILINE	µg/kg	NE	460 U	690 U	490 U	490 U	2000 U	520 U	650 U	2000 U	470 U	1900 U	530 U	570 U	510 U	16000 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
4-NITROANILINE	µg/kg	NE	1700 U	2500 U	1800 U	1800 U	7200 U	1900 U	2400 U	7100 U	1700 U	6800 U	1900 U	2100 U	1900 U	33000 U
ACENAPHTHENE	µg/kg	NE	26 U	39 U	28 U	27 U	120	29 U	37 U	55 U	26 U	16 J	30 U	32 U	29 U	520 U
ACENAPHTHYLENE	µg/kg	NE	26 U	39 U	28 U	27 U	18 J	29 U	37 U	13 J	26 U	18 J	30 U	32 U	29 U	520 U
ANTHRACENE	µg/kg	6100	26 U	39 U	28 U	27 U	400	29 U	37 U	80	26 U	26 J	30 U	32 U	29 U	520 U
BENZ[A]ANTHRACENE	µg/kg	560	26 U	39 U	28 U	27 U	1300	29 U	37 U	200	26 U	31	30 U	32 U	29 U	400 J
BENZO[A]PYRENE	µg/kg	56	26 U	39 U	28 U	5 J	1400	29 U	37 U	130	26 U	23 J	8 J	32 U	29 U	190 J
BENZO[B]FLUORANTHENE	µg/kg	560	26 U	39 U	28 U	6 J	2000	29 U	37 U	220	26 U	23 J	9 J	32 U	29 U	160 J
BENZO[G,H,I]PERYLENE	µg/kg	NE	26 U	39 U	28 U	27 U	280	29 U	37 U	81	26 U	18 J	6 J	32 U	29 U	520 U
BENZO[K]FLUORANTHENE	µg/kg	610	26 U	39 U	28 U	27 U	750	29 U	37 U	100	26 U	21 J	5 J	32 U	29 U	170 J
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	340 U	510 U	370 U	360 U	480 J	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
CHRYSENE	µg/kg	6100	26 U	39 U	28 U	27 U	1300	29 U	37 U	270	26 U	27	30 U	32 U	29 U	520 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	26 U	39 U	28 U	27 U	120	29 U	37 U	31 J	26 U	18 J	30 U	32 U	29 U	520 U
DIBENZOFURAN	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
DIETHYL PHTHALATE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
DIMETHYL PHTHALATE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
FLUORANTHENE	µg/kg	NE	26 U	39 U	28 U	27 U	3100	29 U	37 U	440	26 U	25 J	6 J	32 U	29 U	520 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2248	0002-2249	0002-2250	0002-2251	0002-2252	0002-2253	0002-2254	0002-2255	0002-2256	0002-2257	0002-2258	0002-2259	0002-2260	0002-2263
Sample Location			C5	D5	D5	D5	D4	D4	D4	D3	D3	D3	C4	C4	C4	C3
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/16/2001
Sample Depth (feet)			8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'
Analyte	Units	Cleanup Goals														
FLUORENE	µg/kg	NE	26 U	39 U	28 U	27 U	130	29 U	37 U	55 U	26 U	18 J	30 U	32 U	29 U	520 U
HEXACHLOROBENZENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
HEXACHLOROBUTADIENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	580 U	870 U	630 U	620 U	2500 U	670 U	830 U	2500 U	600 U	2400 U	680 U	720 U	650 U	8100 U
HEXACHLOROETHANE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	26 U	39 U	28 U	27 U	310	29 U	37 U	64	26 U	19 J	5 J	32 U	29 U	520 U
NAPHTHALENE	µg/kg	NE	26 U	39 U	28 U	27 U	53 J	29 U	37 U	55 U	26 U	18 J	30 U	32 U	29 U	520 U
NITROBENZENE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	410 U	610 U	440 U	430 U	1800 U	460 U	580 U	1700 U	410 U	1700 U	470 U	500 U	450 U	13000 U
PHENANTHRENE	µg/kg	NE	26 U	39 U	28 U	27 U	1800	29 U	37 U	160	26 U	20 J	30 U	32 U	29 U	270 J
PHENOL	µg/kg	NE	340 U	510 U	370 U	360 U	1500 U	390 U	490 U	1500 U	350 U	1400 U	400 U	420 U	380 U	6900 U
PYRENE	µg/kg	NE	26 U	39 U	28 U	5 J	2600	29 U	37 U	350	26 U	25 J	7 J	32 U	29 U	520 U
Organotin																
DIBUTYLTIN	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
MONOBUTYLTIN	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
TETRABUTYLTIN	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
TRIBUTYLTIN	µg/kg	NE	10 U	15 U	11 U	11 U	11 U	12 U	15 U	11 U	11 U	11 U	12 U	13 U	12 U	10 U
Dioxins and Furans																
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	2 U	4.7 J	0.7 U	2.9 J	4190	7.8 J	3200	5440	3.7 J	1.8 J	9.6 J	6.6 J	3.7 J	41.3
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	1.6 U	0.6 U	0.5 U	3.1 U	727	1 U	1240	982	0.5 U	0.6 U	0.69 J	0.62 J	0.2 U	2.6 J
1,2,3,4,6,7,8-HPCDD	pg/g	NE	0.9 U	1.3 J	0.4 U	2.5 J	1110	3 J	1440	2420	1.4 J	0.41 J	1.6 J	1.4 J	1.1 J	7
1,2,3,4,6,7,8-HPCDF	pg/g	NE	0.5 U	0.38 J	0.2 U	0.82 J	3280	1.1 J	5580	3250	1.9 J	0.18 J	0.53 J	1.6 J	1.2 J	2.1 J
1,2,3,4,7,8,9-HPCDF	pg/g	NE	0.6 U	0.2 U	0.3 U	1.1 U	109	0.4 U	198	87.7	0.2 U	0.3 U	0.3 U	0.2 U	0.09 U	0.4 U
1,2,3,4,7,8-HXCDD	pg/g	NE	0.5 U	0.2 U	0.2 U	0.9 U	69.9	0.29 J	123	142	0.2 U	0.2 U	0.2 U	0.1 U	0.08 U	0.3 U
1,2,3,4,7,8-HXCDF	pg/g	NE	0.2 U	0.34 J	0.1 U	1 J	1760	0.87 J	2710	1700	1.1 J	0.19 J	0.29 J	0.62 J	0.67 J	0.97 J
1,2,3,6,7,8-HXCDD	pg/g	NE	0.5 U	0.3 J	0.2 U	0.74 J	121	0.82 J	205	342	0.23 J	0.2 U	0.2 U	0.1 U	0.08 U	0.54 J
1,2,3,6,7,8-HXCDF	pg/g	NE	0.2 U	0.2 J	0.1 U	0.4 U	548	0.39 J	904	576	0.38 J	0.2 U	0.2 U	0.2 J	0.23 J	0.44 J
1,2,3,7,8,9-HXCDD	pg/g	NE	0.4 U	0.3 J	0.2 U	0.78 J	201	0.62 J	344	422	0.41 J	0.2 U	0.2 U	0.1 U	0.08 U	0.25 J
1,2,3,7,8,9-HXCDF	pg/g	NE	0.3 U	0.2 J	0.2 U	0.5 U	21.9	0.2 U	29.9	16.4	0.1 U	0.2 U	0.2 U	0.1 U	0.06 U	0.2 U
1,2,3,7,8-PECDD	pg/g	NE	0.3 U	0.33 J	0.2 U	0.6 U	76.4	0.38 J	120	139	0.2 U	0.2 U	0.2 U	0.1 U	0.07 U	0.3 U
1,2,3,7,8-PECDF	pg/g	NE	0.2 U	0.47 J	0.2 U	0.49 J	298	0.49 J	431	349	0.2 U	0.2 U	0.1 U	0.09 U	0.16 J	0.2 U
2,3,4,6,7,8-HXCDF	pg/g	NE	0.2 U	0.17 J	0.2 U	0.36 J	907	0.35 J	1420	766	0.64 J	0.2 U	0.2 U	0.37 J	0.33 J	0.48 J
2,3,4,7,8-PECDF	pg/g	NE	0.2 U	0.26 J	0.2 U	0.55 J	680	0.58 J	1060	761	0.44 J	0.2 U	0.1 U	0.09 U	0.29 J	0.33 J
2,3,7,8-TCDD	pg/g	NE	0.2 U	0.28 J	0.2 U	0.5 U	15.3	0.2 U	20.7	24.3	0.2 U	0.2 U	0.2 U	0.09 U	0.06 U	0.2 U
2,3,7,8-TCDF	pg/g	NE	0.2 U	0.06 U	0.1 U	1.5	235	1.4	2290	239	1	0.2 U	0.28 J	0.24 J	0.59 J	0.54 J
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	0.00E+00	7.71E-07	0.00E+00	7.74E-07	8.45E-04	1.03E-06	1.51E-03	9.76E-04	6.33E-07	2.67E-08	8.86E-08	1.80E-07	3.62E-07	6.22E-07
Radiochemistry																
GROSS-ALPHA	pCi/g	NE	4.26	3.2	5.78	9.51	4.86	4.9	4.39	7.78	5.13	4.75	9.46	8.82	10.7	5.67
GROSS-BETA	pCi/g	NE	16.1	17.3	14.1	19.5	15.7	16.5	13.5	17.5	13.9	14.5	17.5	18.5	18.2	21.7
ACTINIUM-228	pCi/g	NE	0.441 U	0 U	0.467	0.522	0 U	0.162 U	0.752	0 U	0.71	0 U	0.0274 U	0.253 U	0.598	0 U
AMERICIUM-241	pCi/g	NE	0.12 U	-0.00115 U	-0.101 U	-0.037 U	0.0558 U	0.042 U	0.112 U	0.0736 U	-0.051 U	-0.468 U	-0.00326 U	-0.134 U	0.00272 U	0.022 U
ANTIMONY-124	pCi/g	NE	-0.0788 U	-0.0132 U	-0.0362 U	0.0217 U	0.0057 U	-0.00257 U	0.00195 U	-0.0176 U	-0.0341 U	-0.117 U	-0.0186 U	-0.0367 U	-0.0672 U	0.00319 U
ANTIMONY-125	pCi/g	NE	-0.142 U	-0.0396 U	-0.0506 U	-0.0275 U	-0.0645 U	0.0527 U	-0.0388 U	-0.0626 U	0.00734 U	0.0965 U	0.0359 U	-0.0118 U	0.0882 U	-0.0756 U
BARIUM-133	pCi/g	NE	-0.0276 U	-0.0176 U	-0.000331 U	0.0138 U	-0.000044 U	0.00165 U	-0.000345 U	-0.0252 U	0.0324 U	0.0115 U	-0.00128 U	0.00802 U	-0.00349 U	0.0288 U
BARIUM-140	pCi/g	NE	-0.524 U	-0.245 U	-2.3 U	0.967 U	1.65 U	1.61 U	1.23 U	1.43 U	-0.479 U	-2.02 U	-5.55 U	2.53 U	1.3 U	0.496 U
BERYLLIUM-7	pCi/g	NE	0.13 U	-0.171 U	0.284 U	0.753 U	-0.923 U	0.00893 U	0.624 U	-0.324 U	-0.298 U	0.554 U	-0.0359 U	-0.19 U	0.177 U	-0.175 U
BISMUTH-212	pCi/g	NE	0.0248 U	0.34 U	0.541 U	0.265 U	1.14 U	0 U	0.422 U	0 U	0.45 U	0.772 U	0.289 U	0.194 U	0.594 U	0 U
BISMUTH-214	pCi/g	NE	0.284	0 U	0.268	0.518	0.86	0 U	0.493	0.796	0.285	0 U	0 U	0.569	0.435	0.53
CERIUM-139	pCi/g	NE	-0.0159 U	-0.00764 U	-0.0357 U	-0.0659 U	-0.0607 U	-0.0339 U	0.0188 U	-0.0288 U	-0.0162 U	-0.00853 U	0.00377 U	-0.025 U	-0.0121 U	-0.00255 U
CERIUM-141	pCi/g	NE	0.00071 U	0.0903 U	-0.0129 U	0.147 U	0.033 U	0.0184 U	0.0228 U	0.101 U	0.0767 U	0.256 U	0.0954 U	0.0358 U	0.0442 U	0.102 U
CERIUM-144	pCi/g	NE	-0.0031 U	-0.0746 U	0.0554 U	-0.0327 U	-0.0433 U	0.0865 U	0.023 U	0.0369 U	-0.112 U	-0.0463 U	0.00283 U	0.0478 U	0.0341 U	0.172 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2248	0002-2249	0002-2250	0002-2251	0002-2252	0002-2253	0002-2254	0002-2255	0002-2256	0002-2257	0002-2258	0002-2259	0002-2260	0002-2263
Sample Location			C5	D5	D5	D5	D4	D4	D4	D3	D3	D3	C4	C4	C4	C3
Sample Date			3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/15/2001	3/16/2001
Sample Depth (feet)			8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'
Analyte	Units	Cleanup Goals														
CESIUM-134	pCi/g	NE	-0.00734 U	-0.0059 U	-0.0128 U	0.0193 U	-0.0624 U	-0.053 U	-0.0162 U	0.00371 U	-0.0178 U	0.0536 U	-0.0323 U	-0.0234 U	0.00822 U	-0.0519 U
CESIUM-136	pCi/g	NE	0.847 U	-0.117 U	-0.369 U	0.0656 U	-0.822 U	0.811 U	-0.487 U	-1.14 U	-0.883 U	-1.18 U	0.899 U	1.29 U	-0.214 U	-0.156 U
CESIUM-137	pCi/g	NE	0 U	-0.0144 U	0.0372 U	-0.00206 U	0.0416 U	-0.0174 U	0 U	0.0655 U	0 U	0.0312 U	0.00176 U	0.027 U	-0.0222 U	-0.0232 U
CHROMIUM-51	pCi/g	NE	-0.379 U	-0.331 U	0.707 U	0.309 U	-0.403 U	0.121 U	0.994 U	-0.713 U	0.472 U	-1.57 U	0.71 U	-0.275 U	-0.319 U	-0.0455 U
COBALT-56	pCi/g	NE	-0.0203 U	-0.0404 U	-0.0517 U	-0.0139 U	0.0984 U	-0.00877 U	0.0076 U	-0.0704 U	-0.0414 U	-0.0831 U	-0.00894 U	0.0257 U	-0.0336 U	-0.000705 U
COBALT-57	pCi/g	NE	-0.00425 U	-0.00371 U	-0.00555 U	0.000632 U	0.00495 U	-0.00823 U	0.00609 U	0.0261 U	-0.013 U	0.00314 U	0.000938 U	0.0346 U	-0.00303 U	-0.0102 U
COBALT-58	pCi/g	NE	-0.0289 U	-0.00706 U	-0.0799 U	-0.0195 U	0.0115 U	0.00914 U	0.0149 U	0.0532 U	-0.000561 U	-0.133 U	-0.0254 U	0.0363 U	0.0139 U	0.00358 U
COBALT-60	pCi/g	NE	0.000842 U	-0.00144 U	0.0242 U	0.0014 U	-0.0255 U	0.0111 U	-0.00842 U	-0.00248 U	-0.0211 U	0.0948 U	0.0477 U	-0.041 U	0.000754 U	-0.00186 U
EUROPIUM-152	pCi/g	NE	-0.0372 U	0.00309 U	0.0197 U	0.00561 U	0.0981 U	0.00315 U	0.0275 U	-0.0468 U	0.0662 U	0.00144 U	0.108 U	0.0603 U	0.0497 U	-0.0469 U
EUROPIUM-154	pCi/g	NE	0.104 U	0.0724 U	0.0434 U	0.0413 U	0.0458 U	-0.0362 U	0.166 U	-0.0265 U	-0.0187 U	-0.259 U	0.12 U	-0.0531 U	-0.0435 U	0.0234 U
EUROPIUM-155	pCi/g	NE	0.0239 U	0.027 U	-0.00353 U	0.0059 U	0.0225 U	0.0556 U	-0.0565 U	0.0467 U	0.138 U	0.214 U	-0.00377 U	0.0486 U	0.0916 U	0.00238 U
IRIDIUM-192	pCi/g	NE	-0.00461 U	-0.00394 U	-0.0444 U	0.0173 U	-0.0164 U	0.0151 U	-0.0302 U	0.0101 U	-0.0402 U	0.0478 U	0.023 U	-0.00102 U	0.0177 U	-0.0364 U
IRON-59	pCi/g	NE	-0.298 U	0.00547 U	0.157 U	0.00606 U	0.133 U	-0.155 U	-0.198 U	0 U	0.00859 U	-0.00477 U	0.0757 U	-0.156 U	0.0739 U	-0.0571 U
LEAD-210	pCi/g	NE	1.73 U	-0.45 U	12.2 U	3.37 U	0.798 U	0.325 U	0.408 U	0 U	10.3 U	1.07 U	0.691 U	-1.89 U	1.74 U	2.28 U
LEAD-212	pCi/g	NE	0.467	0.157	0.59	0.804	0.986	0.331	0.79	0.771	0.626	0.587	0.578	0.517	0.759	0.681
LEAD-214	pCi/g	NE	0.278	0.163	0.493	0.597	0.814	0.235	0.443	0.856	0.464	0.659	0.569	0.619	0.61	0.661
MANGANESE-54	pCi/g	NE	0.0756 U	-0.0125 U	0.0418 U	-0.00118 U	0.0414 U	0.0018 U	0.0408 U	0.0171 U	0.0713 U	0.0214 U	-0.0254 U	0.00805 U	-0.0108 U	-0.0213 U
MERCURY-203	pCi/g	NE	0.0645 U	-0.0363 U	-0.0147 U	0.0883 U	-0.0213 U	0.0283 U	-0.0389 U	0.0712 U	-0.0424 U	-0.0659 U	0.00328 U	0.0105 U	-0.0518 U	0.0434 U
NEODYMIUM-147	pCi/g	NE	0.467 U	-0.301 U	-4.84 U	2.51 U	2.57 U	-6.12 U	1.5 U	0.084 U	5.27 U	-10.9 U	-7.11 U	-4.38 U	6.93 U	-0.457 U
NEPTUNIUM-239	pCi/g	NE	0.0239 U	0.0477 U	0.00124 U	0.061 U	0.12 U	-0.038 U	-0.0159 U	0.0956 U	-0.00764 U	-0.24 U	-0.111 U	-0.0297 U	-0.167 U	-0.21 U
NIOBIUM-94	pCi/g	NE	0.0115 U	0.0204 U	0.00288 U	0.0201 U	-0.0254 U	0.0118 U	0.0191 U	-0.0291 U	-0.0103 U	-0.0283 U	0.00675 U	0.00745 U	0.0258 U	-0.0167 U
NIOBIUM-95	pCi/g	NE	-0.0831 U	0.0761 U	-0.129 U	0.127 U	0.184 U	-0.00609 U	-0.088 U	0.166 U	-0.115 U	-0.163 U	0.157 U	0.0171 U	0.0589 U	0.0354 U
POTASSIUM-40	pCi/g	NE	13.6	11	12.5	15.5	17.2	13.5	12.7	17.9	13.8	13.1	16.3	15.2	15.5	17
PROMETHIUM-144	pCi/g	NE	0.0102 U	0.0165 U	-0.00165 U	-0.0156 U	0.0245 U	0.00109 U	0.0646 U	-0.00318 U	-0.00715 U	0 U	-0.00461 U	0.0237 U	-0.0255 U	0.002 U
PROMETHIUM-146	pCi/g	NE	-0.0561 U	0.000373 U	0.0195 U	-0.0104 U	-0.00204 U	0.0177 U	0.0155 U	0.0588 U	0.0379 U	0.023 U	0.00129 U	0.00454 U	0.0027 U	0.0265 U
RADIUM-228	pCi/g	NE	0.441 U	0 U	0.467	0.522	0 U	0.162 U	0.752	0 U	0.71	0.805	0.0274 U	0.253 U	0.598	0.594
RUTHENIUM-106	pCi/g	NE	0.247 U	0.171 U	-0.213 U	-0.164 U	-0.151 U	0.308 U	0.00213 U	0.402 U	-0.134 U	-0.033 U	-0.103 U	0.161 U	-0.0567 U	0.0276 U
SILVER-110M	pCi/g	NE	-0.0871 U	0.0118 U	0.0207 U	-0.0187 U	-0.00973 U	0.0258 U	-0.0301 U	0.057 U	-0.0568 U	0.0314 U	0.0458 U	-0.0251 U	-0.00265 U	0.0505 U
SODIUM-22	pCi/g	NE	0.039 U	0.0265 U	0.0157 U	0.0151 U	0.0174 U	-0.0135 U	0.0603 U	-0.00934 U	-0.00654 U	-0.0946 U	0.0436 U	-0.0197 U	-0.0228 U	0.00827 U
THALLIUM-208	pCi/g	NE	0.214	0.131	0 U	0.214	0.342	0.0245 U	0.307	0.37	0.264	0.203	0.194	0.202	0.15	0.262
THORIUM-230	pCi/g	NE	0.284	0.177	0.268	0.518	0.86	0.232	0.493	0.796	0.285	0.627	0.555	0.569	0.435	0.53
THORIUM-234	pCi/g	NE	0.492 U	1.12 U	1.65 U	0.631 U	0.0671 U	0 U	2.25 U	0.853 U	2.55 U	0 U	0.446 U	0.695 U	0.022 U	0 U
TIN-113	pCi/g	NE	-0.0595 U	-0.0196 U	0.00485 U	0.0614 U	0.0413 U	-0.0177 U	-0.0563 U	-0.0356 U	-0.00385 U	-0.0708 U	0.0172 U	-0.0178 U	-0.0273 U	0.0111 U
URANIUM-235	pCi/g	NE	0.277 U	0.0438 U	0.229 U	0.151 U	0.0452 U	0.0784 U	0.178 U	0.273 U	0.127 U	0 U	0.0481 U	0.119 U	0.271 U	0.163 U
URANIUM-238	pCi/g	NE	0.492 U	1.12 U	1.65 U	0.631 U	0.0671 U	0 U	2.25 U	0.853 U	2.55 U	0 U	0.446 U	0.695 U	0.022 U	0 U
YTTRIUM-88	pCi/g	NE	-0.0138 U	0.0338 U	0.0113 U	0.0292 U	0.0167 U	0.0122 U	0.0579 U	0.021 U	0.0206 U	0.0577 U	0.0357 U	0.00319 U	-0.0289 U	-0.000439 U
ZINC-65	pCi/g	NE	-0.00229 U	-0.0312 U	0.0345 U	0.0677 U	-0.0187 U	0.0779 U	0.00787 U	-0.144 U	0.106 U	-0.165 U	0.151 U	-0.0493 U	-0.0527 U	-0.183 U
ZIRCONIUM-95	pCi/g	NE	-0.00902 U	0.0124 U	-0.064 U	-0.082 U	0.0927 U	0.00382 U	0.0332 U	-0.166 U	0 U	-0.171 U	0.0227 U	0.0139 U	-0.0166 U	-0.031 U

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2264	0002-2265	0002-2266	0002-2267	0002-2268	0002-2269	0002-2270	0002-2271	0002-2272	0002-2273	0002-2274	0002-2275	0002-2276	0002-2277
Sample Location			C3	C3	B2	B2	B2	C2	C2	C2	C1	C1	C1	B1	B1	B1
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals														
Metals																
HEXAVALENT CHROMIUM	mg/kg	0.2	0.21 U	0.21 U	0.22 U	0.5	0.23 U	0.22 U	0.23 U	0.24 U	0.29 U	0.37 U	0.22 U	0.22 U	0.6	0.23 U
ANTIMONY	mg/kg	NE	5.2 U	5.3 U	12.8	5.7 U	5.8 U	5.4 U	5.7 U	6.1 U	7.3 U	9.2 U	5.5 U	5.4 U	6.8 U	5.6 U
ARSENIC	mg/kg	9.05	1.2	5.8	5.4	4.4	4.5	1.5	1.9	2.8	10.4	2.4	2.5	1.7	4.3	1.4
BARIUM	mg/kg	NE	14.6	77.7	66.7	103	80.2	27.6	11.2	23.6	134	65.6	16.9	10.2	178	24
BERYLLIUM	mg/kg	NE	0.21 U	0.21 U	0.22 U	0.23 U	0.23 U	0.22 U	0.23 U	0.24 U	0.25 J	0.37 U	0.22 U	0.22 U	0.27 U	0.23 U
CADMIUM	mg/kg	NE	0.21 U	0.21 U	1.2	0.11 J	0.054 J	0.22 U	0.23 U	0.24 U	0.027 J	0.37 U	0.22 U	0.22 U	0.27 U	0.23 U
CHROMIUM	mg/kg	NE	3.4	19.1	117	33.1	25.2	6.4	6	12.2	5.8	12.3	5.7	3.4	25.4	8.7
COBALT	mg/kg	NE	1.9	5.3	6.3	8.9	6.4	2.8	2	3	3.4	4.7	2.6	1.4	14.8	2.6
COPPER	mg/kg	NE	1.5	24.6	1970	80	94	4.3	1.6	3.5	16.8	17.5	2.4	1.9	22.1	3.3
LEAD	mg/kg	130	0.75	11.5	545	39.6	33.3	1.7	0.82	1.6	9.4	4.9	1.2	1.4	5.4	1
MERCURY	mg/kg	NE	0.034 J	0.094 J	6.5	0.5	0.32	0.22 U	0.23 U	0.039 J	0.06 J	0.091 J	0.074 J	0.045 J	0.11 J	0.046 J
MOLYBDENUM	mg/kg	NE	0.21 U	5.3	0.057 J	3.1	6.6	0.22 U	0.68	2.2	0.29 U	0.37 U	0.25	0.055 J	0.27 U	0.13 J
NICKEL	mg/kg	NE	1	11.2	12.3	14.1	6.6	2.2	1.3	2.5	4.1	3.6	1.6	1.2	11.3	2.1
SELENIUM	mg/kg	NE	0.52 U	0.53 U	0.86	0.57 U	0.58 U	0.54 U	0.57 U	0.61 U	0.73 U	0.25 J	0.15 J	0.54 U	0.68 U	0.56 U
SILVER	mg/kg	NE	0.52 U	0.53 U	0.54 U	0.57 U	0.58 U	0.54 U	0.57 U	0.61 U	0.73 U	0.92 U	0.55 U	0.54 U	0.68 U	0.56 U
THALLIUM	mg/kg	NE	0.52 U	0.53 U	0.54 U	0.57 U	0.58 U	0.54 U	0.57 U	0.61 U	0.73 U	0.92 U	0.55 U	0.54 U	0.68 U	0.56 U
VANADIUM	mg/kg	NE	12.5	26.8	31.8	45.2	37.5	20.1	9.8	13.9	12.9	32.8	11.4	9.1	82.8	24.6
ZINC	mg/kg	NE	4.9	45.8	1610	124	116	12	6.6	12.6	38.1	26.9	9.5	3.7	57.3	8.3
Total Petroleum Hydrocarbons																
DIESEL	mg/kg	NE	10 U	11 U	190	68	12 U	11 U	11 U	12 U	16	18 U	11 U	11 U	14 U	11 U
MOTOR OIL	mg/kg	NE	10 U	11 U	600	200	12 U	11 U	11 U	12 U	140	18 U	70	39	29	42
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	1 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.5 U	0.5 U	4	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U
Pesticides																
4,4'-DDD	µg/kg	NE	2.1 U	2.1 U	8	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
4,4'-DDE	µg/kg	NE	2.1 U	2.1 U	2	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
4,4'-DDT	µg/kg	NE	2.1 U	2.1 U	29	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
ALDRIN	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
ALPHA-BHC	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
BETA-BHC	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
CHLORDANE	µg/kg	NE	52 U	53 U	54 U	57 U	58 U	54 U	57 U	61 U	73 U	92 U	55 U	54 U	340 U	56 U
DELTA-BHC	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
DIELDRIN	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
ENDOSULFAN I	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
ENDOSULFAN II	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
ENDOSULFAN SULFATE	µg/kg	NE	5.2 U	5.3 U	5.4 U	5.7 U	5.8 U	5.4 U	5.7 U	6.1 U	7.3 U	9.2 U	5.5 U	5.4 U	34 U	5.6 U
ENDRIN	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
ENDRIN ALDEHYDE	µg/kg	NE	2.1 U	2.1 U	2.2 U	4	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
ENDRIN KETONE	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.9 U	3.7 U	2.2 U	2.2 U	14 U	2.3 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
HEPTACHLOR	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.5 U	1.8 U	1.1 U	1.1 U	6.8 U	1.1 U
METHOXYCHLOR	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	68 U	11 U
TOXAPHENE	µg/kg	NE	100 U	110 U	110 U	110 U	120 U	110 U	110 U	120 U	150 U	180 U	110 U	110 U	680 U	110 U
Polychlorinated Biphenyls																
AROCLOR 1016	µg/kg	NE	52 U	53 U	54 U	57 U	58 U	54 U	57 U	61 U	73 U	92 U	55 U	54 U	68 U	56 U
AROCLOR 1221	µg/kg	NE	100 U	110 U	110 U	110 U	120 U	110 U	110 U	120 U	150 U	180 U	110 U	110 U	140 U	110 U
AROCLOR 1232	µg/kg	NE	52 U	53 U	54 U	57 U	58 U	54 U	57 U	61 U	73 U	92 U	55 U	54 U	68 U	56 U
AROCLOR 1242	µg/kg	NE	52 U	53 U	54 U	57 U	58 U	54 U	57 U	61 U	73 U	92 U	55 U	54 U	68 U	56 U
AROCLOR 1248	µg/kg	NE	52 U	53 U	54 U	57 U	58 U	54 U	57 U	61 U	73 U	92 U	55 U	54 U	68 U	56 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2264	0002-2265	0002-2266	0002-2267	0002-2268	0002-2269	0002-2270	0002-2271	0002-2272	0002-2273	0002-2274	0002-2275	0002-2276	0002-2277
Sample Location			C3	C3	B2	B2	B2	C2	C2	C2	C1	C1	C1	B1	B1	B1
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals														
AROCLOR 1254	µg/kg	NE	26 U	27 U	27 U	29 U	29 U	27 U	29 U	30 U	36 U	46 U	28 U	27 U	34 U	28 U
AROCLOR 1260	µg/kg	NE	26 U	27 U	110	75	29 U	27 U	29 U	30 U	33 J	46 U	28 U	27 U	34 U	28 U
Herbicides																
2 4 5-T	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
2 4 5-TP	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
2,4-D	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
2 4-DB	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
3 5-DICHLOROBENZOIC	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
4-NITROPHENOL	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
ACIFLUORFEN	µg/kg	NE	21 U	21 U	22 U	23 U	23 U	22 U	23 U	24 U	29 U	37 U	22 U	22 U	27 U	23 U
BENTAZON (BASAGRAN)	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
CHLORAMBEN	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
DALAPON	µg/kg	NE	21 U	21 U	22 U	23 U	23 U	22 U	23 U	24 U	29 U	37 U	22 U	22 U	27 U	23 U
DICAMBA	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
DICHLOROPROP	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
DINOSEB	µg/kg	NE	21 U	21 U	22 U	23 U	23 U	22 U	23 U	24 U	29 U	37 U	22 U	22 U	27 U	23 U
MCPA	µg/kg	NE	210 U	210 U	220 U	230 U	230 U	220 U	230 U	240 U	290 U	370 U	220 U	220 U	270 U	230 U
MCPP	µg/kg	NE	210 U	210 U	220 U	230 U	230 U	220 U	230 U	240 U	290 U	370 U	220 U	220 U	270 U	230 U
PENTACHLOROPHENOL	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
PICLORAM	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
Volatile Organic Compounds																
1 1 1-TRICHLOROETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6.4 U
1 1 2,2-TETRACHLOROETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
1,1-DICHLOROETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
1 1-DICHLOROETHENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
1 2-DICHLOROETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
1,2-DICHLOROPROPANE	µg/kg	NE	5.5 U	7 4 U	4.5 U	5 U	5.9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7.5 U	6 4 U
2-BUTANONE	µg/kg	NE	110 U	130 J	4 J	100 U	120 U	130 U	130 U	140 U	160 U	180 U	120 U	110 U	150 U	130 U
2-HEXANONE	µg/kg	NE	55 U	29 J	45 U	50 U	59 U	63 U	63 U	68 U	79 U	89 U	60 U	54 U	75 U	64 U
4-METHYL-2-PENTANONE	µg/kg	NE	55 U	9 J	45 U	50 U	59 U	63 U	63 U	68 U	79 U	89 U	60 U	54 U	75 U	64 U
ACETONE	µg/kg	NE	110 U	480	27 J	100 U	120 U	130 U	130 U	140 U	160 U	180 U	120 U	110 U	150 U	130 U
BENZENE	µg/kg	NE	5 5 U	3 J	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
BROMODICHLOROMETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
BROMOFORM	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
BROMOMETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5.9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
CARBON DISULFIDE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
CARBON TETRACHLORIDE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
CHLOROBENZENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
CHLOROETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
CHLOROFORM	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6.4 U
CHLOROMETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5.4 U	7 5 U	6 4 U
CIS-1 3-DICHLOROPROPENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6.3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
ETHYLBENZENE	µg/kg	NE	5 5 U	0 9 J	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	15 U	9 1 U	10 U	12 U	13 U	13 U	14 U	16 U	18 U	12 U	11 U	15 U	13 U
METHYLENE CHLORIDE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
STYRENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
TETRACHLOROETHENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	6 J	6.4 U
TOLUENE	µg/kg	NE	5 5 U	4 J	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	5.5 U	7.4 U	4.5 U	5 U	5.9 U	6.3 U	6.3 U	6.8 U	7.9 U	8.9 U	6 U	5.4 U	7.5 U	6.4 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2264	0002-2265	0002-2266	0002-2267	0002-2268	0002-2269	0002-2270	0002-2271	0002-2272	0002-2273	0002-2274	0002-2275	0002-2276	0002-2277
Sample Location			C3	C3	B2	B2	B2	C2	C2	C2	C1	C1	C1	B1	B1	B1
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals														
TRANS-1 3-DICHLOROPROPENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8 9 U	6 U	5 4 U	7 5 U	6 4 U
TRICHLOROETHENE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5 9 U	6 3 U	6 3 U	6 8 U	7 9 U	8.9 U	6 U	5 4 U	7 5 U	6 4 U
VINYL ACETATE	µg/kg	NE	55 U	74 U	45 U	50 U	59 U	63 U	63 U	68 U	79 U	89 U	60 U	54 U	75 U	0 6 J
VINYL CHLORIDE	µg/kg	NE	5 5 U	7 4 U	4 5 U	5 U	5.9 U	6.3 U	6.3 U	6 8 U	7 9 U	8 9 U	6 U	5.4 U	7.5 U	6 4 U
XYLENES (TOTAL)	µg/kg	NE	16 U	5 J	14 U	15 U	18 U	19 U	19 U	20 U	24 U	27 U	18 U	16 U	23 U	19 U
Semivolatile Organic Compounds																
1 2,4-TRICHLOROBENZENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
1,2-DICHLOROBENZENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
1,3-DICHLOROBENZENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
1,4-DICHLOROBENZENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2,4 5-TRICHLOROPHENOL	µg/kg	NE	1700 U	1700 U	6900 U	7300 U	1800 U	1700 U	1800 U	1900 U	4700 U	2900 U	3500 U	3500 U	8700 U	7200 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2,4-DICHLOROPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2,4-DIMETHYLPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2,4-DINITROPHENOL	µg/kg	NE	1700 U	1700 U	6900 U	7300 U	1800 U	1700 U	1800 U	1900 U	4700 U	2900 U	3500 U	3500 U	8700 U	7200 U
2,4-DINITROTOLUENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2,6-DINITROTOLUENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2-CHLORONAPHTHALENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2-CHLOROPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2-METHYLPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
2-NITROANILINE	µg/kg	NE	1700 U	1700 U	6900 U	7300 U	1800 U	1700 U	1800 U	1900 U	4700 U	2900 U	3500 U	3500 U	8700 U	7200 U
2-NITROPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
3 3'-DICHLOROBENZIDINE	µg/kg	NE	410 U	410 U	1700 U	1800 U	450 U	420 U	450 U	470 U	1100 U	710 U	980 U	960 U	2400 U	2000 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
3-NITROANILINE	µg/kg	NE	1700 U	1700 U	6900 U	7300 U	1800 U	1700 U	1800 U	1900 U	4700 U	2900 U	3500 U	3500 U	8700 U	7200 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1700 U	1700 U	6900 U	7300 U	1800 U	1700 U	1800 U	1900 U	4700 U	2900 U	3500 U	3500 U	8700 U	7200 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
4-CHLOROANILINE	µg/kg	NE	790 U	800 U	3300 U	3500 U	870 U	820 U	870 U	920 U	2200 U	1400 U	980 U	960 U	2400 U	2000 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
4-NITROANILINE	µg/kg	NE	1700 U	1700 U	6900 U	7300 U	1800 U	1700 U	1800 U	1900 U	4700 U	2900 U	3500 U	3500 U	8700 U	7200 U
ACENAPHTHENE	µg/kg	NE	26 U	27 U	110 U	59 J	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	110 U
ACENAPHTHYLENE	µg/kg	NE	26 U	27 U	110 U	110 U	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	110 U
ANTHRACENE	µg/kg	6100	26 U	27 U	87 J	570	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	110 U
BENZ[A]ANTHRACENE	µg/kg	560	26 U	27 U	460	2300	12 J	27 U	29 U	30 U	50 J	46 U	55 U	27 U	68 U	110 U
BENZO[A]PYRENE	µg/kg	56	26 U	27 U	430	1400	29 U	27 U	29 U	30 U	53 J	46 U	55 U	27 U	68 U	110 U
BENZO[B]FLUORANTHENE	µg/kg	560	26 U	27 U	690	2000	9 J	27 U	29 U	30 U	86	15 J	55 U	27 U	68 U	110 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	26 U	27 U	380	690	8 J	27 U	29 U	30 U	50 J	14 J	55 U	27 U	68 U	110 U
BENZO[K]FLUORANTHENE	µg/kg	610	26 U	27 U	270	760	29 U	27 U	29 U	30 U	25 J	46 U	55 U	27 U	68 U	110 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
CHRYSENE	µg/kg	6100	26 U	27 U	470	2400	29 U	27 U	29 U	30 U	53 J	46 U	55 U	27 U	68 U	110 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	26 U	27 U	84 J	210	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	110 U
DIBENZOFURAN	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
DIETHYL PHTHALATE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
DIMETHYL PHTHALATE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
FLUORANTHENE	µg/kg	NE	26 U	27 U	720	6000	10 J	27 U	29 U	30 U	61 J	46 U	55 U	27 U	68 U	110 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2264	0002-2265	0002-2266	0002-2267	0002-2268	0002-2269	0002-2270	0002-2271	0002-2272	0002-2273	0002-2274	0002-2275	0002-2276	0002-2277
Sample Location			C3	C3	B2	B2	B2	C2	C2	C2	C1	C1	C1	B1	B1	B1
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals														
FLUORENE	µg/kg	NE	26 U	27 U	110 U	58 J	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	110 U
HEXACHLOROBENZENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
HEXACHLOROBUTADIENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	400 U	410 U	1700 U	1800 U	450 U	420 U	440 U	470 U	1100 U	710 U	1300 U	1200 U	3100 U	2500 U
HEXACHLOROETHANE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	26 U	27 U	310	640	29 U	27 U	29 U	30 U	34 J	46 U	55 U	27 U	68 U	110 U
NAPHTHALENE	µg/kg	NE	26 U	27 U	110 U	110 U	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	110 U
NITROBENZENE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	340 U	350 U	1400 U	1500 U	380 U	360 U	380 U	400 U	960 U	600 U	730 U	720 U	1800 U	1500 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	630 U	650 U	2600 U	2800 U	700 U	660 U	700 U	740 U	1800 U	1100 U	870 U	850 U	2100 U	1800 U
PHENANTHRENE	µg/kg	NE	26 U	27 U	180	3300	29 U	27 U	29 U	30 U	73 U	46 U	55 U	27 U	68 U	33 J
PHENOL	µg/kg	NE	340 U	1300	1400 U	1500 U	2800	360 U	780	520	960 U	600 U	730 U	720 U	1800 U	2300
PYRENE	µg/kg	NE	26 U	27 U	640	4800	12 J	27 U	29 U	30 U	55 J	13 J	55 U	27 U	68 U	110 U
Organotin																
DIBUTYLTIN	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
MONOBUTYLTIN	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
TETRABUTYLTIN	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
TRIBUTYLTIN	µg/kg	NE	10 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	15 U	18 U	11 U	11 U	14 U	11 U
Dioxins and Furans																
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	1 U	0.89 J	4630	857	15.2	4.9 J	9.4	2.5 J	2180	1.3 J	2.5 J	1.1 J	0.91 J	1.3 J
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	0.8 U	0.5 U	87.6	33.4	1.5 J	0.3 U	0.88 J	0.4 U	60.1	0.7 U	0.3 J	0.4 U	0.4 U	0.4 U
1,2,3,4,6,7,8-HPCDD	pg/g	NE	0.5 U	0.4 U	691	128	3.4 J	0.6 J	2.6 J	0.3 U	294	0.7 U	0.44 J	0.57 J	0.3 U	0.4 U
1,2,3,4,6,7,8-HPCDF	pg/g	NE	0.2 U	0.2 U	204	51.2	5.6	0.27 J	1.6 J	0.2 U	60	0.2 U	0.67 J	0.16 J	0.17 J	0.2 U
1,2,3,4,7,8,9-HPCDF	pg/g	NE	0.3 U	0.2 U	6.4	2.5 J	0.31 J	0.2 U	0.3 U	0.2 U	3 J	0.4 U	0.09 U	0.2 U	0.2 U	0.2 U
1,2,3,4,7,8-HXCDD	pg/g	NE	0.3 U	0.2 U	4.2 J	1.7 J	0.1 J	0.1 U	0.2 U	0.2 U	2.3 J	0.3 U	0.07 U	0.2 U	0.2 U	0.2 U
1,2,3,4,7,8-HXCDF	pg/g	NE	0.2 U	0.1 U	86.4	21.6	3.2 J	0.14 J	0.88 J	0.09 U	13.3	0.11 J	0.42 J	0.23 J	0.17 J	0.1 U
1,2,3,6,7,8-HXCDD	pg/g	NE	0.3 U	0.2 U	14.9	5.6	0.27 J	0.1 U	0.28 J	0.2 U	7.1	0.3 U	0.8 J	1.2 J	0.2 U	0.2 U
1,2,3,6,7,8-HXCDF	pg/g	NE	0.2 U	0.1 U	26.2	7.2	0.97 J	0.07 U	0.33 J	0.09 U	5.3	0.1 U	0.18 J	0.16 J	0.1 U	0.1 U
1,2,3,7,8,9-HXCDD	pg/g	NE	0.3 U	0.2 U	15.2	6.6	0.49 J	0.1 U	0.33 J	0.2 U	7.2	0.2 U	0.74 J	1.1 J	0.2 U	0.2 U
1,2,3,7,8,9-HXCDF	pg/g	NE	0.2 U	0.1 U	0.96 J	0.78 J	0.06 U	0.09 U	0.2 U	0.1 U	0.65 J	0.2 U	0.18 J	0.26 J	0.2 U	0.2 U
1,2,3,7,8-PECDD	pg/g	NE	0.2 U	0.2 U	3.3 J	1.9 J	0.21 J	0.08 U	0.2 U	0.1 U	1.4 J	0.2 U	0.14 J	0.31 J	0.2 U	0.2 U
1,2,3,7,8-PECDF	pg/g	NE	0.2 U	0.1 U	15.7	3.6 J	0.53 J	0.06 U	0.1 U	0.08 U	2.5 J	0.1 U	0.05 U	0.16 J	0.1 U	0.1 U
2,3,4,6,7,8-HXCDF	pg/g	NE	0.2 U	0.1 U	41	10.6	1.4 J	0.07 U	0.54 J	0.1 U	7.5	0.2 U	0.34 J	0.34 J	0.1 U	0.1 U
2,3,4,7,8-PECDF	pg/g	NE	0.2 U	0.1 U	26.1	7.5	1.3 J	0.06 U	0.44 J	0.08 U	5.2	0.1 U	0.17 J	0.15 J	0.1 U	0.1 U
2,3,7,8-TCDD	pg/g	NE	0.2 U	0.1 U	0.74 J	0.57 J	0.09 J	0.08 U	0.2 U	0.1 U	0.26 J	0.2 U	0.07 U	0.1 U	0.2 U	0.2 U
2,3,7,8-TCDF	pg/g	NE	0.1 U	0.09 U	40.9	10.6	3.8	0.11 J	0.65 J	0.07 U	6	0.1 U	0.28 J	0.08 U	0.1 U	0.1 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	0.00E+00	8.90E-10	5.29E-05	1.46E-05	2.00E-06	3.86E-08	5.73E-07	2.50E-09	1.44E-05	1.23E-08	4.63E-07	5.75E-07	1.96E-08	1.30E-09
Radiochemistry																
GROSS-ALPHA	pCi/g	NE	1.87 U	1.91 U	11.8	9	3.03	3.36	11.1	7.17	2.38 U	6.43	1.63 U	7.16	5.86	4.31 U
GROSS-BETA	pCi/g	NE	10.4	12.1	17	17.8	15.6	15.5	19.4	17.5	14.7	18.8	11.8	16.5	16	12.3
ACTINIUM-228	pCi/g	NE	0.338 U	0 U	0.396 U	0.98	0 U	0 U	0 U	0.282 U	0.268 U	0 U	0 U	1.28	0.12 U	0.283 U
AMERICIUM-241	pCi/g	NE	0.0166 U	0.0383 U	0.0779 U	0.0135 U	0.312 U	0.0436 U	-0.0508 U	0.167 U	0.136 U	-0.0856 U	0.034 U	-0.331 U	0.101 U	0.0358 U
ANTIMONY-124	pCi/g	NE	-0.0143 U	0.0539 U	0.0143 U	-0.0315 U	-0.00524 U	-0.0594 U	0.00877 U	-0.0407 U	-0.0215 U	0.0564 U	0.0877 U	-0.0766 U	-0.0403 U	0.0538 U
ANTIMONY-125	pCi/g	NE	0.0199 U	0.122 U	-0.0107 U	-0.0305 U	-0.0332 U	-0.0816 U	0.0222 U	-0.0633 U	0.051 U	0.00515 U	-0.0762 U	0.00941 U	-0.0524 U	0.0181 U
BARIUM-133	pCi/g	NE	0.0164 U	-0.0108 U	0.017 U	-0.00885 U	0.0046 U	-0.0206 U	-0.0236 U	0.0322 U	0.0211 U	0.00248 U	-0.0126 U	-0.035 U	-0.091 U	-0.0677 U
BARIUM-140	pCi/g	NE	0.0582 U	3.72 U	-1.06 U	2.03 U	0.0898 U	0.34 U	-2.37 U	-0.507 U	-1.52 U	-0.576 U	2.11 U	-0.129 U	0.605 U	-0.0665 U
BERYLLIUM-7	pCi/g	NE	0.122 U	0.0982 U	0.583 U	0.239 U	0.241 U	0.302 U	-0.24 U	0.476 U	-0.307 U	0.0107 U	0.28 U	0.134 U	-0.101 U	0.569 U
BISMUTH-212	pCi/g	NE	0.0154 U	0.697 U	0.507 U	0 U	0.677	0.513 U	0.315 U	0.413 U	0.218 U	0.641 U	0.784 U	0.479 U	0.764	0.465 U
BISMUTH-214	pCi/g	NE	0.169	0.441	0 U	0.732	0 U	0 U	0 U	0.399	0.11 U	0.698	0.137 U	0.584	0.397	0.289 U
CERIUM-139	pCi/g	NE	-0.0114 U	-0.0497 U	-0.0328 U	0.0129 U	0.00625 U	0.0373 U	0.00621 U	0.0315 U	0.00469 U	0.00648 U	-0.00479 U	-0.0649 U	0.0189 U	0.0115 U
CERIUM-141	pCi/g	NE	-0.0548 U	0.14 U	0.156 U	-0.0676 U	0.0818 U	-0.0258 U	-0.00589 U	-0.0813 U	-0.1 U	0.0903 U	0.15 U	0.137 U	-0.0196 U	0.0168 U
CERIUM-144	pCi/g	NE	-0.0176 U	-0.013 U	0.00197 U	-0.283 U	0.0337 U	0.0366 U	0.0332 U	-0.0696 U	-0.00843 U	0.294 U	-0.127 U	-0.318 U	-0.0504 U	-0.133 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2264	0002-2265	0002-2266	0002-2267	0002-2268	0002-2269	0002-2270	0002-2271	0002-2272	0002-2273	0002-2274	0002-2275	0002-2276	0002-2277
Sample Location			C3	C3	B2	B2	B2	C2	C2	C2	C1	C1	C1	B1	B1	B1
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals														
CESIUM-134	pCi/g	NE	0.00202 U	-0.0769 U	0.00633 U	0.00744 U	0.0145 U	-0.00565 U	-0.0675 U	-0.163 U	-0.0106 U	0.0212 U	-0.0564 U	-0.0186 U	-0.000749 U	-0.0198 U
CESIUM-136	pCi/g	NE	-0.0628 U	-1.08 U	0.0803 U	0.622 U	-0.0524 U	-0.181 U	-1.56 U	0.105 U	-0.00286 U	-1.05 U	-0.046 U	0.0729 U	0.0163 U	0.0235 U
CESIUM-137	pCi/g	NE	0.0276 U	0.0258 U	0.0102 U	0.0176 U	0.0305 U	-0.0165 U	0.0219 U	0.131	0.00227 U	0.0224 U	0.00661 U	-0.0258 U	-0.0147 U	-0.0816 U
CHROMIUM-51	pCi/g	NE	0.171 U	-0.777 U	0.959 U	-0.178 U	-0.0252 U	-0.23 U	1.17 U	0.804 U	-0.671 U	-0.288 U	-0.212 U	0.258 U	0.348 U	-0.143 U
COBALT-56	pCi/g	NE	0.0304 U	-0.0187 U	0.106 U	-0.0112 U	-0.0521 U	0.0733 U	0.0151 U	0 U	-0.035 U	-0.0263 U	0.0513 U	-0.0552 U	0.00627 U	0.047 U
COBALT-57	pCi/g	NE	0.0137 U	-0.0145 U	-0.00463 U	-0.0234 U	0.00818 U	-0.00121 U	0.028 U	-0.0181 U	0.0293 U	-0.0109 U	-0.0115 U	-0.00651 U	-0.00872 U	0.00825 U
COBALT-58	pCi/g	NE	-0.0262 U	-0.0112 U	-0.0621 U	-0.0215 U	0.0416 U	-0.0671 U	-0.0265 U	-0.00994 U	-0.000981 U	0.0123 U	-0.00535 U	-0.0554 U	-0.0256 U	-0.075 U
COBALT-60	pCi/g	NE	0.0182 U	0.093 U	-0.0507 U	-0.016 U	0.0191 U	-0.0243 U	0.0482 U	0.00779 U	0.0317 U	0.0211 U	0.11 U	0.00512 U	0.0153 U	0.083 U
EUROPIUM-152	pCi/g	NE	-0.0122 U	0.0213 U	0.0385 U	0.0608 U	0.0632 U	0.0961 U	-0.0124 U	0.0132 U	-0.0027 U	0.0154 U	0.0197 U	0.287 U	-0.0467 U	0.21 U
EUROPIUM-154	pCi/g	NE	-0.0581 U	-0.159 U	-0.0247 U	-0.0445 U	0.00659 U	-0.0674 U	0.0462 U	0.159 U	0.106 U	-0.0619 U	-0.136 U	0.183 U	-0.0325 U	0.115 U
EUROPIUM-155	pCi/g	NE	-0.0799 U	0.0369 U	0.0627 U	0.0783 U	0.0944 U	0.101 U	0.092 U	0.028 U	0.0145 U	0.0863 U	-0.0313 U	0.102 U	0.138 U	0.0772 U
IRIDIUM-192	pCi/g	NE	0.0147 U	0.0162 U	0.0216 U	0.0492 U	-0.0369 U	0.00225 U	-0.0505 U	-0.05 U	0.00573 U	0.00585 U	0.00732 U	0.0295 U	-0.00122 U	-0.0191 U
IRON-59	pCi/g	NE	0.0462 U	0.0621 U	-0.101 U	-0.107 U	-0.0654 U	-0.0743 U	-0.0886 U	0.179 U	0.0299 U	-0.0708 U	0.123 U	0.00346 U	0.00209 U	0.0244 U
LEAD-210	pCi/g	NE	-2.05 U	0.931	0 U	3.46 U	11.1 U	3.14 U	0 U	1.55 U	-9.64 U	1.58 U	0.924	16.8 U	7.33 U	0.469 U
LEAD-212	pCi/g	NE	0.36	0.383	0.791	1	0.448	0.588	0.761	0 U	0.347	0.937	0.287	1.32	0 U	0.296
LEAD-214	pCi/g	NE	0.171	0.286	0.454	0.848	0.422	0.34	0.476	0.336	0.295	0.709	0.0703 U	0.806	0.298	0.317
MANGANESE-54	pCi/g	NE	0.0208 U	-0.0137 U	-0.0133 U	0.0428 U	0.00213 U	0.00836 U	0.0932	0.0467 U	0.000729 U	0.0377 U	0.0527 U	-0.059 U	-0.00436 U	-0.0303 U
MERCURY-203	pCi/g	NE	0.0557 U	-0.0496 U	0.0361 U	0.0303 U	0.0727 U	-0.0265 U	0.0335 U	0.0401 U	-0.0266 U	0.0681 U	0.161 U	0.087 U	0.0832 U	0.0526 U
NEODYMIUM-147	pCi/g	NE	-0.234 U	6 U	8.24 U	-3.75 U	0.0709 U	-0.1 U	1.09 U	-3.11 U	-3.27 U	-1.63 U	11.2 U	-0.206 U	0.249 U	-1.03 U
NEPTUNIUM-239	pCi/g	NE	-0.0676 U	-0.0467 U	-0.29 U	-0.195 U	0.0633 U	-0.11 U	-0.0643 U	-0.0258 U	0.0135 U	-0.187 U	-0.0771 U	0.219 U	-0.0361 U	0.267 U
NIOBIUM-94	pCi/g	NE	-0.0409 U	-0.0515 U	0.0717 U	-0.00182 U	0.0197 U	0.000509 U	0.0121 U	-0.0187 U	0.00859 U	0.026 U	0.00143 U	-0.0376 U	0.0225 U	0.028 U
NIOBIUM-95	pCi/g	NE	0.00188 U	-0.0697 U	-0.0371 U	0.00203 U	-0.00242 U	0.0144 U	0.18 U	0.066 U	-0.0435 U	0.136 U	-0.0635 U	0.0865 U	0.0178 U	-0.00364 U
POTASSIUM-40	pCi/g	NE	10.8	13.7	15.9	19.8	12.4	12.4	14.7	14	13.9	17.4	13.3	25.2	13.9	14
PROMETHIUM-144	pCi/g	NE	-0.0042 U	-0.0134 U	-0.041 U	0.0243 U	0.0169 U	-0.00252 U	0.000657 U	0.0454 U	0.00564 U	0.00179 U	0.0395 U	-0.0448 U	0.0274 U	-0.0198 U
PROMETHIUM-146	pCi/g	NE	-0.0275 U	0.00909 U	0.0849 U	-0.0202 U	0.00625 U	-0.0319 U	0.043 U	-0.0107 U	0.0055 U	-0.0115 U	0.0422 U	0.0321 U	0.02 U	-0.0411 U
RADIUM-228	pCi/g	NE	0.338 U	0 U	0.396 U	0.98	0 U	0 U	0 U	0.282 U	0.268 U	0 U	0.823	1.28	0.12 U	0.283 U
RUTHENIUM-106	pCi/g	NE	0.169 U	0.0175 U	0.301 U	-0.0547 U	-0.00568 U	0.0205 U	0.217 U	-0.0902 U	-0.0437 U	0.00929 U	0.239 U	-0.311 U	0.0917 U	-0.352 U
SILVER-110M	pCi/g	NE	0.000305 U	0.000662 U	0.0115 U	-0.0054 U	0.0294 U	0.0256 U	-0.0379 U	0.0291 U	0.0237 U	-0.0035 U	0.0144 U	-0.00917 U	-0.0124 U	0.0399 U
SODIUM-22	pCi/g	NE	-0.0206 U	-0.0583 U	-0.00902 U	-0.0164 U	0.00238 U	-0.0254 U	0.0167 U	0.0581 U	0.0383 U	-0.0116 U	-0.05 U	0.0634 U	-0.0115 U	0.0424 U
THALLIUM-208	pCi/g	NE	0.135	0.0849 U	0.28	0.271	0.0818	0.167	0.196	0 U	0 U	0.147	0.148	0 U	0 U	0.292
THORIUM-230	pCi/g	NE	0.169	0.441	0.499	0.732	0.313	0.291	0.473	0.399	0.11 U	0.698	0.137 U	0.584	0.397	0.289
THORIUM-234	pCi/g	NE	1.57 U	0 U	1.45	2.35 U	2.31 U	1.9	0.437 U	0.811 U	2.43 U	0 U	0 U	0.176 U	1.57 U	0 U
TIN-113	pCi/g	NE	-0.0344 U	-0.0136 U	0.0443 U	-0.0483 U	0.00475 U	-0.00784 U	-0.022 U	-0.03 U	0.0292 U	0.000978 U	0.0423 U	0.0504 U	-0.0255 U	0.068 U
URANIUM-235	pCi/g	NE	0.327 U	0.286 U	0.0896 U	0.211 U	0.0215 U	0.0147 U	-0.0589 U	0.131 U	0.134 U	0.29 U	0.474 U	0.243 U	0.163 U	0.0495 U
URANIUM-238	pCi/g	NE	1.57 U	0 U	1.45	2.35 U	2.31 U	1.9	0.437 U	0.811 U	2.43 U	0 U	0 U	0.176 U	1.57 U	0 U
YTTRIUM-88	pCi/g	NE	0.0181 U	0.0464 U	0.145 U	0.00403 U	0.0114 U	-0.0451 U	-0.0138 U	0.0135 U	-0.0256 U	0.0441 U	-0.00578 U	-0.0249 U	-0.0144 U	-0.0652 U
ZINC-65	pCi/g	NE	-0.107 U	-0.185 U	-0.16 U	0.0129 U	0.0763 U	-0.0808 U	0.038 U	-0.059 U	0.0304 U	0.169 U	-0.364 U	0 U	-0.0105 U	-0.103 U
ZIRCONIUM-95	pCi/g	NE	0.0419 U	-0.00149 U	0.00923 U	0.0643 U	-0.0262 U	-0.0468 U	0.0331 U	-0.0595 U	0.00204 U	0.059 U	0.0479 U	0.00449 U	0.0253 U	0.0692 U

Notes:

Shading indicates result above cleanup goal.

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2278	0002-2279	0002-2280	0002-2281	0002-2282	0002-2283	0002-2284	0002-2285	0002-2286	0002-2287	0002-2288	0002-2289
Sample Location			A1	A1	A1	A5	A5	A5	B4	B4	B4	B3	B3	B3
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals												
Metals														
HEXAVALENT CHROMIUM	mg/kg	0.2	0.21 U	0.21 U	0.22 U	0.26 U	0.28 U	0.25 U	0.26 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U
ANTIMONY	mg/kg	NE	5.3 U	5.4 U	5.5 U	6.6 U	7.1 U	6.2 U	6.4 U	6.3 U	6.1 U	6 U	5.2 U	6.4 U
ARSENIC	mg/kg	9.05	1.5	1.7	2.1	7.5	6.5	2.7	9.1	3.7	3	5.2	1.6	2.6
BARIUM	mg/kg	NE	33.9	52	11.9	130	116	117	158	55	123	174	5.9	14
BERYLLIUM	mg/kg	NE	0.21 U	0.21 U	0.22 U	0.26 U	0.28 U	0.25 U	0.26 U	0.25 U	0.24 U	0.24 U	0.21 U	0.26 U
CADMIUM	mg/kg	NE	0.21 U	0.21 U	0.22 U	0.034 J	0.044 J	0.25 U	0.061 J	0.25 U	0.24 U	0.45	0.21 U	0.26 U
CHROMIUM	mg/kg	NE	7.7	18.9	3.9	24.7	31	15.5	10.4	8.3	16.8	27.6	3.2	6.4
COBALT	mg/kg	NE	3.5	4.1	2	12.6	13.4	10.8	5.2	3.5	9	15.6	1.6	2.6
COPPER	mg/kg	NE	52.8	9	1.4	28.7	24.9	11.9	27.7	12.6	12.8	26.1	1.2	2.3
LEAD	mg/kg	130	9.9	2.3	0.69	9.7	10.2	2.9	15.3	5.3	2.8	6.7	0.6	1.2
MERCURY	mg/kg	NE	0.47	0.078 J	0.22 U	0.11 J	0.19 J	0.065 J	0.067 J	0.044 J	0.15 J	0.052 J	0.064 J	0.26 U
MOLYBDENUM	mg/kg	NE	0.21 U	3.5	0.22 U	0.26 U	0.28 U	0.25 U	2.1	0.79	0.24 U	0.24 U	0.21 U	0.27
NICKEL	mg/kg	NE	2.7	3.4	4.7	12	13.1	6.5	13.1	4.9	6.9	12.8	0.87	1.9
SELENIUM	mg/kg	NE	0.53 U	0.54 U	0.55 U	0.66 U	0.71 U	0.62 U	0.2 J	0.63 U	0.61 U	0.6 U	0.52 U	0.64 U
SILVER	mg/kg	NE	0.53 U	0.54 U	0.55 U	0.66 U	0.71 U	0.62 U	0.64 U	0.63 U	0.61 U	0.6 U	0.52 U	0.64 U
THALLIUM	mg/kg	NE	0.53 U	0.54 U	0.55 U	0.66 U	0.71 U	0.62 U	0.64 U	0.63 U	0.61 U	0.6 U	0.52 U	0.64 U
VANADIUM	mg/kg	NE	23.6	27.1	8.5	63.6	75.5	55.6	27.6	24.9	59.2	73.9	9.2	13.1
ZINC	mg/kg	NE	37.6	12.9	6.9	69.4	67.1	31.6	67.5	28.5	34.4	59.8	4.9	7.9
Total Petroleum Hydrocarbons														
DIESEL	mg/kg	NE	11 U	11 U	11 U	13 U	36	12	310	1000	12 U	12 U	10 U	260
MOTOR OIL	mg/kg	NE	26	11 U	11 U	13 U	51	19	280	910	12 U	21	10 U	190
SPLP DIESEL	mg/L	NE	0.5 U	0.5 U	0.5 U	0.5 U	1	0.5 U	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.8	0.5 U	0.5 U	0.5 U	2	0.5 U	5	0.9	0.5 U	0.5	0.5	0.5 U
Pesticides														
4,4'-DDD	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	18	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
4,4'-DDE	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	8 J	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
4,4'-DDT	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	13 U	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
ALDRIN	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
ALPHA-BHC	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
BETA-BHC	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
CHLORDANE	µg/kg	NE	53 U	54 U	55 U	66 U	71 U	62 U	320 U	63 U	61 U	60 U	52 U	64 U
DELTA-BHC	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
DIELDRIN	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	13 U	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
ENDOSULFAN I	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
ENDOSULFAN II	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	13 U	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
ENDOSULFAN SULFATE	µg/kg	NE	5.3 U	5.4 U	5.5 U	6.6 U	7.1 U	6.2 U	32 U	6.3 U	6.1 U	6 U	5.2 U	6.4 U
ENDRIN	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	13 U	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
ENDRIN ALDEHYDE	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	13 U	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
ENDRIN KETONE	µg/kg	NE	2.1 U	2.1 U	2.2 U	2.6 U	2.8 U	2.5 U	13 U	2.5 U	2.4 U	2.4 U	2.1 U	2.6 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
HEPTACHLOR	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U	1.2 U	6.4 U	1.3 U	1.2 U	1.2 U	1 U	1.3 U
METHOXYCHLOR	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	64 U	13 U	12 U	12 U	10 U	13 U
TOXAPHENE	µg/kg	NE	110 U	110 U	110 U	130 U	140 U	120 U	640 U	130 U	120 U	120 U	100 U	130 U
Polychlorinated Biphenyls														
AROCLOR 1016	µg/kg	NE	53 U	54 U	55 U	66 U	71 U	62 U	64 U	63 U	61 U	60 U	52 U	64 U
AROCLOR 1221	µg/kg	NE	110 U	110 U	110 U	130 U	140 U	120 U	130 U	130 U	120 U	120 U	100 U	130 U
AROCLOR 1232	µg/kg	NE	53 U	54 U	55 U	66 U	71 U	62 U	64 U	63 U	61 U	60 U	52 U	64 U
AROCLOR 1242	µg/kg	NE	53 U	54 U	55 U	66 U	71 U	62 U	64 U	63 U	61 U	60 U	52 U	64 U
AROCLOR 1248	µg/kg	NE	53 U	54 U	55 U	66 U	71 U	62 U	64 U	63 U	61 U	60 U	52 U	64 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2278	0002-2279	0002-2280	0002-2281	0002-2282	0002-2283	0002-2284	0002-2285	0002-2286	0002-2287	0002-2288	0002-2289
Sample Location			A1	A1	A1	A5	A5	A5	B4	B4	B4	B3	B3	B3
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals												
AROCLOR 1254	µg/kg	NE	26 U	27 U	27 U	33 U	35 U	31 U	32 U	31 U	30 U	30 U	26 U	32 U
AROCLOR 1260	µg/kg	NE	26 U	27 U	27 U	33 U	35 U	31 U	34	31 U	30 U	30 U	26 U	32 U
Herbicides														
2 4 5-T	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
2 4 5-TP	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
2 4-D	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
2 4-DB	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
3 5-DICHLOROBENZOIC	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
4-NITROPHENOL	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
ACIFLUORFEN	µg/kg	NE	21 U	21 U	22 U	26 U	28 U	25 U	26 U	25 U	24 U	24 U	21 U	26 U
BENTAZON (BASAGRAN)	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
CHLORAMBEN	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
DALAPON	µg/kg	NE	21 U	21 U	22 U	26 U	28 U	25 U	26 U	25 U	24 U	24 U	21 U	26 U
DICAMBA	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
DICHLOROPROP	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
DINOSEB	µg/kg	NE	21 U	21 U	22 U	26 U	28 U	25 U	26 U	25 U	24 U	24 U	21 U	26 U
MCPA	µg/kg	NE	210 U	210 U	220 U	260 U	280 U	250 U	260 U	250 U	240 U	240 U	210 U	260 U
MCPP	µg/kg	NE	210 U	210 U	220 U	260 U	280 U	250 U	260 U	250 U	240 U	240 U	210 U	260 U
PENTACHLOROPHENOL	µg/kg	NE	15	11 U	11 U	3 J	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
PICLORAM	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
Volatile Organic Compounds														
1 1 1-TRICHLOROETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5.7 U	4 9 U	4 3 U
1,1 2 2-TETRACHLOROETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
1 1-DICHLOROETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
1,1-DICHLOROETHENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
1 2-DICHLOROETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
1 2-DICHLOROPROPANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
2-BUTANONE	µg/kg	NE	110 U	110 U	130 U	130 U	120 U	100 U	140 U	130 U	140 U	110 U	97 U	86 U
2-HEXANONE	µg/kg	NE	56 U	57 U	65 U	66 U	62 U	52 U	70 U	66 U	70 U	57 U	49 U	43 U
4-METHYL-2-PENTANONE	µg/kg	NE	56 U	57 U	65 U	66 U	62 U	52 U	70 U	66 U	70 U	57 U	49 U	43 U
ACETONE	µg/kg	NE	110 U	110 U	130 U	130 U	120 U	100 U	140 U	130 U	140 U	110 U	97 U	86 U
BENZENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
BROMODICHLOROMETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
BROMOFORM	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
BROMOMETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CARBON DISULFIDE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CARBON TETRACHLORIDE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CHLOROBENZENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CHLOROETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CHLOROFORM	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CHLOROMETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
ETHYLBENZENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	11 U	13 U	13 U	12 U	10 U	14 U	13 U	14 U	11 U	9 7 U	8 6 U
METHYLENE CHLORIDE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
STYRENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
TETRACHLOROETHENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	0 5 J	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
TOLUENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	5.6 U	5.7 U	6.5 U	6.6 U	6.2 U	5.2 U	7 U	6.6 U	7 U	5.7 U	4.9 U	4.3 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2278	0002-2279	0002-2280	0002-2281	0002-2282	0002-2283	0002-2284	0002-2285	0002-2286	0002-2287	0002-2288	0002-2289
Sample Location			A1	A1	A1	A5	A5	A5	B4	B4	B4	B3	B3	B3
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals												
TRANS-1 3-DICHLOROPROPENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
TRICHLOROETHENE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5.7 U	4 9 U	4 3 U
VINYL ACETATE	µg/kg	NE	56 U	57 U	65 U	66 U	62 U	52 U	70 U	66 U	70 U	57 U	49 U	43 U
VINYL CHLORIDE	µg/kg	NE	5 6 U	5 7 U	6 5 U	6 6 U	6 2 U	5 2 U	7 U	6 6 U	7 U	5 7 U	4 9 U	4 3 U
XYLENES (TOTAL)	µg/kg	NE	17 U	17 U	19 U	20 U	19 U	16 U	21 U	20 U	21 U	17 U	15 U	13 U
Semivolatile Organic Compounds														
1 2,4-TRICHLOROBENZENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
1 2-DICHLOROBENZENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
1 3-DICHLOROBENZENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
1 4-DICHLOROBENZENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2 4 5-TRICHLOROPHENOL	µg/kg	NE	3400 U	1700 U	1800 U	2100 U	2300 U	2000 U	8200 U	2000 U	1900 U	1900 U	1700 U	2100 U
2 4 6-TRICHLOROPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2 4-DICHLOROPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2 4-DIMETHYLPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2 4-DINITROPHENOL	µg/kg	NE	3400 U	1700 U	1800 U	2100 U	2300 U	2000 U	8200 U	2000 U	1900 U	1900 U	1700 U	2100 U
2 4-DINITROTOLUENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2 6-DINITROTOLUENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2-CHLORONAPHTHALENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2-CHLOROPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2-METHYLPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
2-NITROANILINE	µg/kg	NE	3400 U	1700 U	1800 U	2100 U	2300 U	2000 U	8200 U	2000 U	1900 U	1900 U	1700 U	2100 U
2-NITROPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
3 3 -DICHLOROBENZIDINE	µg/kg	NE	930 U	480 U	490 U	580 U	630 U	550 U	2300 U	560 U	540 U	530 U	460 U	570 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
3-NITROANILINE	µg/kg	NE	3400 U	1700 U	1800 U	2100 U	2300 U	2000 U	8200 U	2000 U	1900 U	1900 U	1700 U	2100 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	3400 U	1700 U	1800 U	2100 U	2300 U	2000 U	8200 U	2000 U	1900 U	1900 U	1700 U	2100 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
4-CHLOROANILINE	µg/kg	NE	930 U	480 U	490 U	580 U	630 U	550 U	2300 U	560 U	540 U	530 U	460 U	570 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
4-NITROANILINE	µg/kg	NE	3400 U	1700 U	1800 U	2100 U	2300 U	2000 U	8200 U	2000 U	1900 U	1900 U	1700 U	2100 U
ACENAPHTHENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
ACENAPHTHYLENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	26 J	31 U	30 U	30 U	26 U	32 U
ANTHRACENE	µg/kg	6100	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
BENZ[A]ANTHRACENE	µg/kg	560	53 U	27 U	27 U	10 J	35 U	31 U	64 U	25 J	30 U	30 U	26 U	32 U
BENZO[A]PYRENE	µg/kg	56	53 U	27 U	27 U	33 U	35 U	31 U	27 J	14 J	30 U	30 U	26 U	32 U
BENZO[B]FLUORANTHENE	µg/kg	560	53 U	27 U	27 U	33 U	35 U	31 U	26 J	10 J	30 U	30 U	26 U	32 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
BENZO[K]FLUORANTHENE	µg/kg	610	53 U	27 U	27 U	33 U	35 U	31 U	20 J	31 U	30 U	30 U	26 U	32 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
CHRYSENE	µg/kg	6100	53 U	27 U	27 U	33 U	35 U	31 U	78	12 J	30 U	30 U	26 U	32 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
DIBENZOFURAN	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
DIETHYL PHTHALATE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
DIMETHYL PHTHALATE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
FLUORANTHENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	64 U	17 J	30 U	30 U	26 U	32 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2278	0002-2279	0002-2280	0002-2281	0002-2282	0002-2283	0002-2284	0002-2285	0002-2286	0002-2287	0002-2288	0002-2289
Sample Location			A1	A1	A1	A5	A5	A5	B4	B4	B4	B3	B3	B3
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals												
FLUORENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
HEXACHLOROBENZENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
HEXACHLOROBUTADIENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	1200 U	610 U	620 U	740 U	800 U	700 U	2900 U	710 U	690 U	670 U	580 U	720 U
HEXACHLOROETHANE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
NAPHTHALENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
NITROBENZENE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	690 U	350 U	360 U	430 U	470 U	410 U	1700 U	410 U	400 U	390 U	340 U	420 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	820 U	420 U	430 U	520 U	560 U	490 U	2000 U	490 U	480 U	470 U	400 U	500 U
PHENANTHRENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	64 U	31 U	30 U	30 U	26 U	32 U
PHENOL	µg/kg	NE	690 U	350 U	360 U	430 U	300 J	1600	1700 U	220 J	400 U	1700	110 J	780
PYRENE	µg/kg	NE	53 U	27 U	27 U	33 U	35 U	31 U	81	96	30 U	30 U	26 U	32 U
Organotin														
DIBUTYLTIN	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
MONOBUTYLTIN	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
TETRABUTYLTIN	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
TRIBUTYLTIN	µg/kg	NE	11 U	11 U	11 U	13 U	14 U	12 U	13 U	13 U	12 U	12 U	10 U	13 U
Dioxins and Furans														
1 2 3 4 6 7,8 9-OCDD	pg/g	NE	0.74 J	0.79 J	0.85 J	57 7	2 4 J	0.77 J	30 1	0.61 J	1 U	49 3	0 3 U	0 79 J
1 2,3 4 6 7 8 9-OCDF	pg/g	NE	0 3 U	0 3 U	0 3 U	3 7 J	0 3 J	0 3 U	2 8 J	0 1 U	0 8 U	2 3 J	0 2 U	0 1 U
1 2 3 4 6 7,8-HPCDD	pg/g	NE	0 3 U	0 3 U	0 2 U	11 3	0 57 J	0 3 U	5 3	0 1 U	0 6 U	6 6	0 2 U	0 1 U
1 2,3 4 6 7 8-HPCDF	pg/g	NE	0 1 U	0 1 U	0 1 U	4 J	0 63 J	0 08 J	2 5 J	0 06 U	0 3 U	2 2 J	0 09 U	0 04 U
1 2 3 4 7 8 9-HPCDF	pg/g	NE	0 2 U	0 2 U	0 2 U	0 3 U	0 2 U	0 2 U	0 1 U	0 08 U	0 4 U	0 2 U	0 1 U	0 06 U
1 2 3 4 7,8-HXCDD	pg/g	NE	0 2 U	0 2 U	0 1 U	0 2 U	0 1 U	0 1 U	0 1 U	0 06 U	0 3 U	0 1 U	0 1 U	0 06 U
1 2,3 4 7 8-HXCDF	pg/g	NE	0 1 U	0.13 J	0 09 U	0 56 J	0.46 J	0 1 J	0 37 J	0 09 J	0 2 U	0 36 J	0 07 U	0 09 J
1 2 3 6 7 8-HXCDD	pg/g	NE	0 2 U	0 1 U	0.1 U	0 67 J	0 1 U	0 1 U	0 4 J	0 06 U	0 3 U	0 34 J	0 1 U	0 06 U
1 2 3 6 7,8-HXCDF	pg/g	NE	0 1 U	0 1 U	0 08 U	0 3 J	0 28 J	0 09 U	0 19 J	0 04 U	0 2 U	0 16 J	0 07 U	0 03 U
1 2 3,7 8 9-HXCDD	pg/g	NE	0 2 U	0 1 U	0 1 U	0 68 J	0 1 U	0 1 U	0 38 J	0 06 U	0 3 U	0 42 J	0 1 U	0 05 U
1 2,3 7 8 9-HXCDF	pg/g	NE	0 2 U	0 2 U	0 1 U	0 2 U	0 1 U	0 1 U	0 1 U	0 05 U	0 3 U	0 29 J	0 09 U	0 04 U
1 2 3 7 8-PECDD	pg/g	NE	0 2 U	0 1 U	0 1 U	0 31 J	0 1 U	0 1 U	0 1 U	0 05 U	0 3 U	0 1 U	0 08 U	0 05 U
1 2 3 7 8-PECDF	pg/g	NE	0 1 U	0 1 U	0 09 U	0 1 U	0 09 U	0 09 U	0 06 U	0 04 U	0 2 U	0 08 U	0 06 U	0 04 U
2 3,4 6 7 8-HXCDF	pg/g	NE	0 1 U	0 1 U	0 09 U	0 54 J	0 35 J	0 1 U	0 35 J	0 04 U	0 2 U	0 28 J	0 07 U	0 04 U
2 3 4 7 8-PECDF	pg/g	NE	0 1 U	0 1 U	0 09 U	0 23 J	0 19 J	0 1 U	0 13 J	0 04 U	0 2 U	0 08 U	0 06 U	0 04 U
2 3 7 8-TCDD	pg/g	NE	0 1 U	0 1 U	0 1 U	0 41 J	0 1 U	0 1 U	0 11 J	0 05 U	0 2 U	0 17 J	0 09 U	0 05 U
2 3 7,8-TCDF	pg/g	NE	0 1 U	0 09 U	0 08 U	0 51 J	0 33 J	0 08 U	0 35 J	0 03 U	0 2 U	0.26 J	0 07 U	0 04 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	7.40E-10	1.38E-08	8.50E-10	1.22E-06	2.52E-07	1.16E-08	4.90E-07	9.61E-09	0.00E+00	5.21E-07	0.00E+00	9.79E-09
Radiochemistry														
GROSS-ALPHA	pCi/g	NE	2 56 U	6.98	9.22	9.38	5 62	14 2	18 4	19 2	6 07 U	14 1	4 23	7 71
GROSS-BETA	pCi/g	NE	17	18 3	13 3	19 4	14.1	16.7	26	17 3	12 7	19 4	13.5	22
ACTINIUM-228	pCi/g	NE	0 436 U	0 512 U	0 132 U	1.54	0 U	0 U	0 U	0 557 U	0 493 U	1.6	0 U	0 759
AMERICIUM-241	pCi/g	NE	-0 0064 U	-0.0743 U	-0 332 U	-0 222 U	0 0718 U	-0 338 U	0.117 U	-0 459 U	-0 0463 U	-0 162 U	-0 119 U	-0 422 U
ANTIMONY-124	pCi/g	NE	0 0637 U	0 0698 U	-0.0125 U	0 000353 U	-0 0226 U	0 U	0 00368 U	-0 0168 U	-0 0351 U	0 0466 U	0 0242 U	-0 0451 U
ANTIMONY-125	pCi/g	NE	-0 133 U	0.112 U	-0 0593 U	0 00702 U	-0 042 U	0 221 U	-0 0175 U	-0 0185 U	-0 0497 U	0 0577 U	-0 0632 U	-0 00286 U
BARIUM-133	pCi/g	NE	-0 0202 U	-0 00643 U	-0.017 U	-0 0418 U	-0 0139 U	-0 0569 U	-0 0702 U	-0 0129 U	0 0257 U	-0 0154 U	0 0229 U	0 055 U
BARIUM-140	pCi/g	NE	-0 578 U	0 0943 U	-0 27 U	0 152 U	-0 17 U	-0 414 U	-0 0996 U	-0 318 U	-0 507 U	-0 238 U	0 U	0 0673 U
BERYLLIUM-7	pCi/g	NE	0 251 U	-0 0587 U	-0 289 U	-0 263 U	-0 000497 U	-0 311 U	-0 288 U	0 6 U	0 274 U	-0 501 U	-0 219 U	-0 347 U
BISMUTH-212	pCi/g	NE	0 168 U	0 U	0 729 U	0 946	0 555 U	1 02 U	1 07	0 762 U	1 43	0 478 U	0 0647 U	0 934 U
BISMUTH-214	pCi/g	NE	0 U	0 382	0 U	0.771	0 32	0 499	0 513	0 598	0 U	0 164 U	0 U	0 74
CERIUM-139	pCi/g	NE	-0 0261 U	-0.0101 U	-0 0196 U	0 0225 U	-0 00435 U	-0.0319 U	0 00759 U	0 00214 U	0 0549 U	-0 0299 U	-0 00712 U	0 0394 U
CERIUM-141	pCi/g	NE	0.104 U	0 0568 U	0 U	0 00777 U	-0 00555 U	0.013 U	0 00695 U	0 0279 U	-0 0613 U	0 0516 U	0 0176 U	0 116 U
CERIUM-144	pCi/g	NE	-0.0546 U	0.0131 U	-0.141 U	0.06 U	-0.0989 U	0.0307 U	0.0611 U	-0.197 U	-0.0779 U	0.208 U	0.236 U	-0.195 U

TABLE 8-5

PAINT SHOP SANDBLAST AREA (SOLID WASTE MANAGEMENT UNIT NO. 6) SOIL ANALYTICAL RESULTS - PHASE 6

Sample Number			0002-2278	0002-2279	0002-2280	0002-2281	0002-2282	0002-2283	0002-2284	0002-2285	0002-2286	0002-2287	0002-2288	0002-2289
Sample Location			A1	A1	A1	A5	A5	A5	B4	B4	B4	B3	B3	B3
Sample Date			3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001	3/16/2001
Sample Depth (feet)			0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'	0-1.5'	4-5.5'	8.5-10'
Analyte	Units	Cleanup Goals												
CESIUM-134	pCi/g	NE	-0.00575 U	-0.00489 U	0.0228 U	-0.0884 U	-0.0377 U	0 U	-0.0086 U	-0.195 U	-0.0185 U	-0.0637 U	0.0288 U	0.0561 U
CESIUM-136	pCi/g	NE	0.0686 U	-0.142 U	0.122 U	0.221 U	-0.151 U	-0.271 U	0.0372 U	0.259 U	-0.205 U	-0.000936 U	0.0737 U	0.0125 U
CESIUM-137	pCi/g	NE	0.0309 U	0 U	0.0693 U	0.0367 U	0.0238 U	-0.028 U	0 U	0.00114 U	0.00828 U	0.106 U	0.0237 U	-0.00749 U
CHROMIUM-51	pCi/g	NE	0.834 U	-0.032 U	-0.248 U	-0.178 U	0.0848 U	-0.0133 U	0.432 U	0.442 U	0.172 U	0.0534 U	-0.388 U	0.483 U
COBALT-56	pCi/g	NE	0.114 U	-0.00318 U	0.0153 U	-0.0223 U	0.0181 U	0.0734 U	-0.0273 U	0.00553 U	0.0453 U	0.0514 U	-0.00602 U	-0.00176 U
COBALT-57	pCi/g	NE	-0.00721 U	0.0102 U	0.00383 U	0.0137 U	-0.0101 U	-0.0306 U	0.0159 U	0.0102 U	0.0334 U	-0.000461 U	-0.0118 U	-0.0103 U
COBALT-58	pCi/g	NE	-0.0975 U	0.0268 U	0.0653 U	-0.0312 U	-0.027 U	-0.0323 U	0.0124 U	0.0225 U	-0.0242 U	-0.0164 U	-0.0184 U	0.0468 U
COBALT-60	pCi/g	NE	0.0324 U	-0.0232 U	0.083 U	0.0111 U	0.0177 U	-0.0273 U	0.00945 U	-0.0299 U	-0.0117 U	-0.00859 U	0.00731 U	0.0933 U
EUROPIUM-152	pCi/g	NE	0.00809 U	-0.0161 U	-0.0229 U	0.00758 U	-0.0426 U	-0.0205 U	0.0697 U	-0.0157 U	-0.133 U	0.0823 U	0.00264 U	-0.0492 U
EUROPIUM-154	pCi/g	NE	-0.00146 U	0.00756 U	0.0164 U	0.134 U	-0.038 U	-0.0992 U	-0.13 U	0.169 U	0.00771 U	0.307 U	-0.0331 U	0.204 U
EUROPIUM-155	pCi/g	NE	0.0591 U	0.0441 U	-0.0168 U	0.0597 U	0.0949 U	0.141 U	0.0889 U	0.14 U	0.136 U	-0.0111 U	0 U	0 U
IRIDIUM-192	pCi/g	NE	-0.0189 U	-0.0132 U	0.0126 U	0.0834 U	0.0216 U	0.0123 U	0.0126 U	-0.0279 U	-0.0121 U	-0.0354 U	-0.0224 U	-0.0421 U
IRON-59	pCi/g	NE	-0.101 U	-0.0961 U	0.0758 U	-0.177 U	-0.136 U	-0.255 U	0.06 U	0.0643 U	-0.0124 U	0.213 U	0.0878 U	0.033 U
LEAD-210	pCi/g	NE	0.308 U	18 U	0.842 U	7.02 U	7.87 U	0.125 U	18.4 U	1.38	2.71 U	8.28 U	6.88 U	1.2
LEAD-212	pCi/g	NE	0.472	0.526	0 U	0.98	0.643	0.772	0.982	0.967	0.695	0.698	0.323	0.904
LEAD-214	pCi/g	NE	0.338	0.301	0.277	0.873	0.274	0.645	0.572	0.524	0.569	0.527	0.243	0.436
MANGANESE-54	pCi/g	NE	-0.0152 U	-0.0327 U	0.0412 U	0.0782 U	0.00332 U	0.132 U	-0.0451 U	0.0589 U	-0.0108 U	0.0481 U	-0.0249 U	0.0137 U
MERCURY-203	pCi/g	NE	0.0149 U	0.000541 U	0.00585 U	0.0347 U	0.0286 U	0.0607 U	0.0349 U	0.0448 U	0.0808 U	0.068 U	0.0138 U	0.0139 U
NEODYMIUM-147	pCi/g	NE	0.203 U	0.573 U	-0.469 U	-0.00291 U	-0.164 U	0.709 U	0.169 U	0.196 U	0.0853 U	0.441 U	-0.978 U	-0.761 U
NEPTUNIUM-239	pCi/g	NE	0.0309 U	0.127 U	-0.15 U	0.179 U	-0.029 U	0.107 U	0.151 U	0.0775 U	-0.00526 U	0.0583 U	0.124 U	-0.307 U
NIOBIUM-94	pCi/g	NE	-0.0697 U	0.00976 U	0.0219 U	0.0217 U	0.0323 U	0.00378 U	0.037 U	-0.0212 U	-0.0256 U	0.0125 U	0.0458 U	0.00625 U
NIOBIUM-95	pCi/g	NE	0.13 U	0.0164 U	0.0241 U	0.165 U	0.00201 U	0.0215 U	-0.0467 U	0.0841 U	-0.0105 U	0.0883 U	-0.0394 U	0.109 U
POTASSIUM-40	pCi/g	NE	15.3	13.2	13.7	18.1	16.7	15.3	18.9	16.6	13.2	16.7	11.3	15.4
PROMETHIUM-144	pCi/g	NE	-0.0246 U	0.00315 U	0.0349 U	-0.0207 U	0.0325 U	-0.0395 U	-0.0334 U	0.0123 U	0.0146 U	0.0206 U	0.0187 U	0.0574 U
PROMETHIUM-146	pCi/g	NE	0.0716 U	0.0327 U	0.0129 U	-0.00915 U	0.0387 U	-0.0224 U	-0.00965 U	-0.0376 U	-0.084 U	0.0804 U	0.0204 U	-0.0112 U
RADIUM-228	pCi/g	NE	0.436 U	0.512	0.132 U	1.54	0.684	0 U	0.98	0.557 U	0.493	1.6	0 U	0.759
RUTHENIUM-106	pCi/g	NE	-0.399 U	-0.0653 U	-0.1 U	0.47 U	0.152 U	-0.175 U	-0.0157 U	0.0275 U	0.0837 U	-0.382 U	-0.119 U	-0.668 U
SILVER-110M	pCi/g	NE	-0.0303 U	-0.0745 U	-0.0502 U	0.0282 U	0.0627 U	0.0483 U	-0.157 U	0.0345 U	-0.0223 U	0.0232 U	0.0213 U	0.0253 U
SODIUM-22	pCi/g	NE	-0.000728 U	0.00272 U	0.00609 U	0.0479 U	-0.0135 U	-0.0361 U	-0.0471 U	0.0606 U	0.00331 U	0.111 U	-0.0121 U	0.0731 U
THALLIUM-208	pCi/g	NE	0.224	0.144	0.0525 U	0.526	0.168	0 U	0.314	0 U	0.194	0.266	0.0604 U	0.351
THORIUM-230	pCi/g	NE	0.41	0.382	0.434	0.771	0.32	0.499	0.513	0.598	0.616	0.164 U	0 U	0.74
THORIUM-234	pCi/g	NE	0.713 U	3.41 U	0 U	1.28 U	3.23 U	0 U	0 U	0 U	1.78 U	2.74 U	2.52 U	0 U
TIN-113	pCi/g	NE	0.0109 U	0.0035 U	0.0701 U	-0.00994 U	0.0197 U	0.017 U	-0.0124 U	0.00687 U	0.0372 U	-0.0218 U	0.00277 U	-0.0307 U
URANIUM-235	pCi/g	NE	0.47 U	0.094 U	0.463 U	0.166 U	0.216 U	0.124 U	0.158 U	0.108 U	0.0466 U	0.283 U	0.0505 U	0.34 U
URANIUM-238	pCi/g	NE	0.713 U	3.41 U	0 U	1.28 U	3.23 U	0 U	0 U	0 U	1.78 U	2.74 U	2.52 U	0 U
YTTRIUM-88	pCi/g	NE	0.0134 U	0.0186 U	-0.00758 U	0.0346 U	0.011 U	-0.0402 U	-0.0619 U	0.00123 U	-0.0328 U	-0.0246 U	-0.018 U	0.0132 U
ZINC-65	pCi/g	NE	-0.00641 U	-0.0126 U	-0.0944 U	-0.167 U	-0.00361 U	-0.0912 U	0.0576 U	0.0245 U	0.0575 U	-0.231 U	-0.041 U	0.106 U
ZIRCONIUM-95	pCi/g	NE	0.179 U	0.0341 U	-0.0143 U	-0.0682 U	-0.0114 U	0.0902 U	-0.00592 U	-0.00153 U	0.0137 U	0.0194 U	0.0158 U	0.139 U

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2005	0002-2006	0002-2007	0002-2008	0002-2009	0002-2010	0002-2011	0002-2012	0002-2013	0002-2014	0002-2015	0002-2016	0002-2017	0002-2018	0002-2019
Sample Location			A1	A1	A1	A2	A2	A2	3A-A3	3A-A3	3A-A3	198-B2A	198-B2A	198-B2A	198-C2	198-C2	198-C2
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	4-5.5'	7.5-9'	0-1.5'	3-4.5'	7.5-9'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
Metals																	
HEXAVALENT CHROMIUM	mg/kg	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2 J	0.2 J	0.2 J	0.2 J	0.3	0.2	0.3	0.3
ANTIMONY	mg/kg	NE	5.5 U	6.2 U	5.8 U	5.2 U	5.8 U	5.7 U	5.6 U	6.2 U	5.7 U	5.5 U	5.2 U	5.6 U	5.5 U	5.9 U	5.9 U
ARSENIC	mg/kg	9.05	2.2	3.1	1.7	2.8	2.6	2.6	3	5.6	2	3	3	1.8	3.2	2.9	2.2
BARIUM	mg/kg	NE	46.3	136	48.2	74.4	31.5	20.5	61.4	159	52.9	34.3	21.2	48.3	30.4	84.2	20.8
BERYLLIUM	mg/kg	NE	0.22 U	0.25 U	0.23 U	0.21 U	0.23 U	0.23 U	0.22 U	0.25 U	0.23 U	0.22 U	0.21 U	0.23 U	0.22 U	0.24 U	0.24 U
CADMIUM	mg/kg	NE	0.22 U	0.25 U	0.23 U	0.35	0.01 J	0.23 U	0.12 J	0.098 J	0.23 U	0.18 J	0.21 U	0.0086 J	0.071 J	0.24 U	0.24 U
CHROMIUM	mg/kg	NE	9	16.2	10.8	23.2	7	5.2	15.8	26.7	10.4	15.5	5.3	9.2	6.9	11	10.7
COBALT	mg/kg	NE	4.3	12.1	3.1	7	3.4	3.3	5	13.3	5.4	3.5	4.3	5.1	3.1	5.9	3.3
COPPER	mg/kg	NE	6.3	14.4	5.1	11.3	4.1	4.2	37.2	23.6	7.2	49.8	3.4	7.6	16.4	8.6	4.4
LEAD	mg/kg	130	1.9	2.8	1.4	4.1	1.6	1.4	54.6	6.8	2.2	49.1	0.91	1.8	1.7	2.5	1.8
MERCURY	mg/kg	NE	0.041 J	0.25 U	0.23 U	0.21 U	0.23 U	0.23 U	0.18 J	0.068 J	0.23 U	0.16 J	0.21 U	0.23 U	0.053 J	0.24 U	0.24 U
MOLYBDENUM	mg/kg	NE	0.22 U	0.25 U	0.24	0.21 U	0.25	0.23 U	0.22 U	0.25 U	0.23 U	0.92	0.21 U	0.23 U	0.21 J	0.24 U	1.7
NICKEL	mg/kg	NE	2.9	7.3	2	5.6	2.6	2	4.5	11.3	3.9	3.6	2.2	3.2	2.2	4.1	2.1
SELENIUM	mg/kg	NE	0.19 J	0.62 U	0.58 U	0.52 U	0.58 U	0.57 U	0.56 U	0.62 U	0.57 U	0.55 U	0.52 U	0.56 U	0.55 U	0.59 U	0.59 U
SILVER	mg/kg	NE	0.55 U	0.62 U	0.58 U	0.52 U	0.58 U	0.57 U	0.56 U	0.62 U	0.57 U	0.55 U	0.52 U	0.56 U	0.55 U	0.59 U	0.59 U
THALLIUM	mg/kg	NE	0.55 U	0.62 U	0.58 U	0.52 U	0.58 U	0.57 U	0.56 U	0.62 U	0.57 U	0.55 U	0.52 U	0.56 U	0.55 U	0.59 U	0.59 U
VANADIUM	mg/kg	NE	29	51.7	44.1	41.4	17.6	17.6	24.9	71.5	35.2	24	14.8	38	25.4	39.7	24
ZINC	mg/kg	NE	15.1	37	9.4	28.7	14.1	9.5	87.1	53.9	17.9	90.5	11.4	13.8	30.5	22.1	10.3
Total Petroleum Hydrocarbons																	
DIESEL	mg/kg	NE	22	12 U	180 J	33	12 U	11 U	3 J	27	11 U	4 J	5 J	7 J	51 J	12 U	33
MOTOR OIL	mg/kg	NE	30	12 U	1500	290	12 U	30	11 U	120	3 J	21	4 J	12	210	16	98
SPLP DIESEL	mg/L	NE	0.5 J	0.3 J	0.5 J	0.09 J	0.1 J	0.1 J	0.5 U	0.6	0.09 J	0.2 J	0.2 J	0.07 J	0.2 J	0.06 J	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.4 J	0.2 J	1.8	0.2 J	0.05 J	0.2 J	0.5 U	0.5 U	0.06 J	0.09 J	0.08 J	0.5 U	0.3 J	0.07 J	0.5 U
Pesticides																	
4,4'-DDD	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	2.2 U	2.4 U	2.4 U
4,4'-DDE	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	1 J	2.4 U	2.4 U
4,4'-DDT	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	6.4	2.4 U	2.4 U
ALDRIN	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
ALPHA-BHC	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
BETA-BHC	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	7	1.2 U	1.2 U
CHLORDANE	µg/kg	NE	55 U	62 U	290 U	52 U	58 U	57 U	56 U	310 U	57 U	55 U	52 U	56 U	55 U	59 U	59 U
DELTA-BHC	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
DIELDRIN	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	2.2 U	2.4 U	2.4 U
ENDOSULFAN I	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
ENDOSULFAN II	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	2.2 U	2.4 U	2.4 U
ENDOSULFAN SULFATE	µg/kg	NE	5.5 U	6.2 U	29 U	5.2 U	5.8 U	5.7 U	5.6 U	31 U	5.7 U	5.5 U	5.2 U	5.6 U	5.5 U	5.9 U	5.9 U
ENDRIN	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	2.2 U	2.4 U	2.4 U
ENDRIN ALDEHYDE	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	2.2 U	2.4 U	2.4 U
ENDRIN KETONE	µg/kg	NE	2.2 U	2.5 U	12 U	2.1 U	2.3 U	2.3 U	2.2 U	12 U	2.3 U	2.2 U	2.1 U	2.3 U	2.2 U	2.4 U	2.4 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
HEPTACHLOR	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.1 U	1.2 U	5.8 U	1 U	1.2 U	1.1 U	1.1 U	6.2 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1.2 U
METHOXYCHLOR	µg/kg	NE	11 U	12 U	58 U	10 U	12 U	11 U	11 U	62 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
TOXAPHENE	µg/kg	NE	110 U	120 U	580 U	100 U	120 U	110 U	110 U	620 U	110 U	110 U	100 U	110 U	110 U	120 U	120 U
Polychlorinated Biphenyls																	
AROCLOR 1016	µg/kg	NE	55 U	62 U	58 U	52 U	58 U	57 U	56 U	62 U	57 U	55 U	52 U	56 U	55 U	59 U	59 U
AROCLOR 1221	µg/kg	NE	110 U	120 U	120 U	100 U	120 U	110 U	110 U	120 U	110 U	110 U	100 U	110 U	110 U	120 U	120 U
AROCLOR 1232	µg/kg	NE	55 U	62 U	58 U	52 U	58 U	57 U	56 U	62 U	57 U	55 U	52 U	56 U	55 U	59 U	59 U
AROCLOR 1242	µg/kg	NE	55 U	62 U	58 U	51 J	58 U	57 U	56 U	73300	57 U	55 U	52 U	55 J	31 J	59 U	78
AROCLOR 1248	µg/kg	NE	55 U	62 U	58 U	52 U	58 U	57 U	56 U	62 U	57 U	55 U	52 U	56 U	55 U	59 U	59 U
AROCLOR 1254	µg/kg	NE	27 U	31 U	29 U	26 U	29 U	28 U	28 U	31 U	29 U	27 U	26 U	28 U	28 U	29 U	30 U
AROCLOR 1260	µg/kg	NE	27 U	31 U	29 U	26 U	29 U	28 U	28 U	31 U	29 U	27 U	26 U	28 U	17 J	29 U	40

Based upon the results of the site assessment, the majority of COCs in SWMU No. 6 soils did not appear to be associated with reported historical uses of the area. The previous investigations, Initial Assessment Study (NEESA, 1986) and Revised Section 6 RSE (BNI, 1998a), performed for SWMU No. 6 indicated that similar COCs were detected in other phases of IRP Sub-Site 2A. This may show that the soil contamination identified at SWMU No. 6 is likely to be related to activities that either pre-date, or are not directly associated with the known former uses of the site. Figure 8-7 presents the location and analytical results from the site assessment conducted at SWMU No. 6. This figure combines the data from the site assessment and data from the previous investigations.

8.3.6 Collection, Storage, and Transfer Facility (Phase 7) Site Assessment

The soil sampling activities for the CST were performed on January 18, and 19, 2001. Fifteen soil borings were drilled in Phase 7 at the locations shown on Figure 8-7. A direct-push drill rig equipped with a core sampler was used to retrieve soil samples from most locations. CST Locations A1a and B1a were hand-augered due to the restricted vertical clearance inside of Building 3275. Prior to drilling and sample collection, the depth to groundwater was measured in nearby monitoring wells to ensure that groundwater would not be encountered. Soil samples were visually inspected, screened with a PID, and logged prior to being collected into the sample containers.

Soil boring locations from the CST were randomly located within a 50-foot square grid and a 75-foot square grid as directed by the DON and DTSC. The exact locations of several soil borings were adjusted to accommodate existing structures and obstacles such as buildings, fences, and underground utilities. Three soil samples were collected from each soil boring. The approximate sample intervals for the CST soil borings were from zero to 1.5 feet bgs, 3 to 4.5 feet bgs, and 7 to 9 feet bgs.

The soil borings were completed pursuant to the *SAM Manual* (DEH, 1998), DTSC requirements, and appropriate protocols for logging, decontamination, and backfilling. The direct-push rig, with a stainless steel core barrel lined with clear acetate sleeves, was used to retrieve the cores. A boring log was prepared for each soil boring location, and soils were classified in accordance with the ASTM D 2488-90. The core barrels were decontaminated between samples. The boreholes were backfilled to the surface with hydrated bentonite, and the surface pavement was patched, as appropriate.

A total of 43 soil samples were collected from 15 boring locations at the CST. The reported concentrations for 2,3,7,8-TCDD equivalency were calculated using detected values only. Analytical results for the CST are presented in Table 8-6.

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2005	0002-2006	0002-2007	0002-2008	0002-2009	0002-2010	0002-2011	0002-2012	0002-2013	0002-2014	0002-2015	0002-2016	0002-2017	0002-2018	0002-2019
Sample Location			A1	A1	A1	A2	A2	A2	3A-A3	3A-A3	3A-A3	198-B2A	198-B2A	198-B2A	198-C2	198-C2	198-C2
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	4-5.5'	7.5-9'	0-1.5'	3-4.5'	7.5-9'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
Herbicides																	
2,4,5-T	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
2,4,5-TP	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
2,4-D	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
2,4-DB	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
3,5-DICHLOROBENZOIC	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
4-NITROPHENOL	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
ACIFLUORFEN	µg/kg	NE	22 U	25 U	23 U	21 U	23 U	23 U	22 U	25 U	23 U	22 U	21 U	23 U	22 U	24 U	24 U
BENTAZON (BASAGRAN)	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
CHLORAMBEN	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
DALAPON	µg/kg	NE	22 U	25 U	23 U	21 U	23 U	23 U	22 U	25 U	23 U	22 U	21 U	23 U	22 U	24 U	24 U
DICAMBA	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
DICHLOROPROP	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
DINOSEB	µg/kg	NE	22 U	25 U	23 U	21 U	23 U	23 U	22 U	25 U	23 U	22 U	21 U	23 U	22 U	24 U	24 U
MCPA	µg/kg	NE	220 U	250 U	230 U	210 U	230 U	230 U	220 U	250 U	230 U	220 U	210 U	230 U	220 U	240 U	240 U
MCPP	µg/kg	NE	220 U	250 U	230 U	210 U	230 U	230 U	220 U	250 U	230 U	220 U	210 U	230 U	220 U	240 U	240 U
PENTACHLOROPHENOL	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
PICLORAM	µg/kg	NE	11 U	12 U	12 U	10 U	12 U	11 U	11 U	12 U	11 U	11 U	10 U	11 U	11 U	12 U	12 U
Volatile Organic Compounds																	
1,1,1-TRICHLOROETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
1,1-DICHLOROETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
1,1-DICHLOROETHENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
1,2-DICHLOROETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
1,2-DICHLOROPROPANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
2-BUTANONE	µg/kg	NE	110 U	150 U	12 J	6 J	120 U	11 J	4 J	8 J	7 J	6 J	4 J	6 J	6 J	4 J	5 J
2-HEXANONE	µg/kg	NE	56 U	73 U	62 U	68 U	59 U	59 U	62 U	110 U	92 U	98 U	64 U	86 U	91 U	60 U	75 U
4-METHYL-2-PENTANONE	µg/kg	NE	56 U	73 U	62 U	68 U	59 U	59 U	62 U	110 U	92 U	98 U	64 U	86 U	91 U	60 U	75 U
ACETONE	µg/kg	NE	12 J	18 J	47 J	17 J	14 J	74 J	16 J	230 U	180 U	24 J	130 U	21 J	180 U	16 J	19 J
BENZENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
BROMODICHLOROMETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
BROMOFORM	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
BROMOMETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CARBON DISULFIDE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	0.7 J	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CARBON TETRACHLORIDE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CHLOROBENZENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CHLOROETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CHLOROFORM	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CHLOROMETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
ETHYLBENZENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	15 U	12 U	14 U	12 U	12 U	12 U	23 U	18 U	20 U	13 U	17 U	18 U	12 U	15 U
METHYLENE CHLORIDE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
STYRENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
TETRACHLOROETHENE	µg/kg	NE	5.6 U	7.3 U	0.7 J	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
TOLUENE	µg/kg	NE	5.6 U	7.3 U	4 J	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
TRICHLOROETHENE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
VINYL ACETATE	µg/kg	NE	56 U	73 U	62 U	68 U	59 U	59 U	62 U	110 U	92 U	98 U	64 U	86 U	91 U	60 U	75 U
VINYL CHLORIDE	µg/kg	NE	5.6 U	7.3 U	6.2 U	6.8 U	5.9 U	5.9 U	6.2 U	11 U	9.2 U	9.8 U	6.4 U	8.6 U	9.1 U	6 U	7.5 U
XYLENES (TOTAL)	µg/kg	NE	17 U	22 U	18 U	20 U	18 U	18 U	19 U	34 U	27 U	29 U	19 U	26 U	27 U	18 U	22 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2005	0002-2006	0002-2007	0002-2008	0002-2009	0002-2010	0002-2011	0002-2012	0002-2013	0002-2014	0002-2015	0002-2016	0002-2017	0002-2018	0002-2019
Sample Location			A1	A1	A1	A2	A2	A2	3A-A3	3A-A3	3A-A3	198-B2A	198-B2A	198-B2A	198-C2	198-C2	198-C2
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	4-5.5'	7.5-9'	0-1.5'	3-4.5'	7.5-9'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
Semivolatile Organic Compounds																	
1 2,4-TRICHLOROBENZENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
1 2-DICHLOROBENZENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
1 3-DICHLOROBENZENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
1 4-DICHLOROBENZENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2 4 5-TRICHLOROPHENOL	µg/kg	NE	1800 U	2000 U	7400 U	13000 U	1900 U	3600 U	1800 U	16000 U	1800 U	1700 U	1700 U	1800 U	7100 U	1900 U	1900 U
2,4 6-TRICHLOROPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2,4-DICHLOROPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2 4-DIMETHYLPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2 4-DINITROPHENOL	µg/kg	NE	1800 U	2000 U	7400 U	13000 U	1900 U	3600 U	1800 U	16000 U	1800 U	1700 U	1700 U	1800 U	7100 U	1900 U	1900 U
2 4-DINITROTOLUENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2,6-DINITROTOLUENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2-CHLORONAPHTHALENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2-CHLOROPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2-METHYLPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
2-NITROANILINE	µg/kg	NE	1800 U	2000 U	7400 U	13000 U	1900 U	3600 U	1800 U	16000 U	1800 U	1700 U	1700 U	1800 U	7100 U	1900 U	1900 U
2-NITROPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
3,3'-DICHLOROBENZIDINE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
3-NITROANILINE	µg/kg	NE	1800 U	2000 U	7400 U	13000 U	1900 U	3600 U	1800 U	16000 U	1800 U	1700 U	1700 U	1800 U	7100 U	1900 U	1900 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	1800 U	2000 U	7400 U	13000 U	1900 U	3600 U	1800 U	16000 U	1800 U	1700 U	1700 U	1800 U	7100 U	1900 U	1900 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
4-CHLOROANILINE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
4-NITROANILINE	µg/kg	NE	1800 U	2000 U	7400 U	13000 U	1900 U	3600 U	1800 U	16000 U	1800 U	1700 U	1700 U	1800 U	7100 U	1900 U	1900 U
ACENAPHTHENE	µg/kg	NE	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	26 U	28 U	120 J	29 U	30 U
ACENAPHTHYLENE	µg/kg	NE	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	26 U	28 U	68 J	29 U	30 U
ANTHRACENE	µg/kg	6100	140 U	160 U	230 U	150 J	29 U	57 U	28 U	620 U	29 U	10 J	26 U	28 U	550	29 U	30 U
BENZ[A]ANTHRACENE	µg/kg	560	140 U	160 U	99 J	290 J	29 U	16 J	14 J	190 J	29 U	30	8 J	37	2500	16 J	30 U
BENZO[A]PYRENE	µg/kg	56	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	11 J	26 U	36	2500	29 U	30 U
BENZO[B]FLUORANTHENE	µg/kg	560	140 U	160 U	230 U	190 J	29 U	57 U	10 J	620 U	29 U	19 J	26 U	68	4300	10 J	30 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	26 U	23 J	1700	29 U	30 U
BENZO[K]FLUORANTHENE	µg/kg	610	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	10 J	26 U	18 J	1100	29 U	30 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
CHRYSENE	µg/kg	6100	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	28	26 U	34	2900	29 U	30 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	26 U	16 J	470	29 U	30 U
DIBENZOFURAN	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
DIETHYL PHTHALATE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	260 J	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
DIMETHYL PHTHALATE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	110 J	1500 U	390 U	390 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
FLUORANTHENE	µg/kg	NE	140 U	160 U	230 U	190 J	29 U	57 U	28 U	620 U	29 U	31	26 U	98	6040	13 J	30 U
FLUORENE	µg/kg	NE	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	26 U	28 U	82 J	29 U	30 U
HEXACHLOROBENZENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
HEXACHLOROBUTADIENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
HEXACHLOROETHANE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	26 U	19 J	1500	29 U	30 U
NAPHTHALENE	µg/kg	NE	140 U	160 U	230 U	520 U	29 U	57 U	28 U	620 U	29 U	27 U	15 J	28 U	220 U	29 U	30 U
NITROBENZENE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2005	0002-2006	0002-2007	0002-2008	0002-2009	0002-2010	0002-2011	0002-2012	0002-2013	0002-2014	0002-2015	0002-2016	0002-2017	0002-2018	0002-2019
Sample Location			A1	A1	A1	A2	A2	A2	3A-A3	3A-A3	3A-A3	198-B2A	198-B2A	198-B2A	198-C2	198-C2	198-C2
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	4-5.5'	7.5-9'	0-1.5'	3-4.5'	7.5-9'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	**Units**	**Cleanup Goals**															
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	360 U	410 U	1500 U	2800 U	390 U	750 U	370 U	3300 U	380 U	360 U	340 U	370 U	1500 U	390 U	390 U
PHENANTHRENE	µg/kg	NE	140 U	160 U	67 J	190 J	29 U	57 U	28 U	620 U	29 U	13 J	26 U	35	3400	29 U	30 U
PHENOL	µg/kg	NE	360 U	210 J	1500 U	2830	749	1330	2400	3300 U	110 J	527	665	370 U	430 J	1700	130 J
PYRENE	µg/kg	NE	140 U	160 U	230 U	180 J	29 U	57 U	28 U	620 U	29 U	28	26 U	81	4760	12 J	30 U
Organotin																	
DIBUTYLTIN	µg/kg	NE	16 U	19 U	17 U	16 U	18 U	17 U	17 U	18 U	17 U	16 U	16 U	17 U	17 U	18 U	18 U
MONOBUTYLTIN	µg/kg	NE	16 U	19 U	17 U	16 U	18 U	17 U	17 U	18 U	17 U	16 U	16 U	17 U	17 U	18 U	18 U
TETRABUTYLTIN	µg/kg	NE	16 U	19 U	17 U	16 U	18 U	17 U	17 U	18 U	17 U	16 U	16 U	17 U	17 U	18 U	18 U
TRIBUTYLTIN	µg/kg	NE	16 U	19 U	17 U	16 U	18 U	17 U	17 U	18 U	17 U	16 U	16 U	17 U	17 U	18 U	18 U
Dioxins and Furans																	
1 2 3,4 6 7,8,9-OCDD	pg/g	NE	159	2.7 J	3 5 J	570	3 4 J	211	18 5	10.4	2 4 J	4870	3050	3 5 J	4690	5 6 J	2000
1 2 3,4.6.7.8 9-OCDF	pg/g	NE	4 6 U	0 6 U	0 6 U	29 8	0 3 U	9 9 J	1 6 J	1 J	0 48 J	114	182	0 4 U	216	0 8 U	78 2
1 2,3.4.6.7 8-HPCDD	pg/g	NE	30	0 4 U	0.4 U	75 7	0 46 J	27 7	3 2 J	1 4 J	0 45 J	567	379	0 39 J	636	0 5 U	273
1 2 3.4.6.7 8-HPCDF	pg/g	NE	1 3 U	0.2 U	0.2 U	12 6	0 1 U	5 3	1 1 J	0 47 J	0.1 U	30 3	95 4	0 1 U	110	0 3 U	29 9
1 2 3.4.7.8 9-HPCDF	pg/g	NE	1 6 U	0.3 U	0 3 U	1 2 U	0 1 U	0 2 U	0 1 U	0 2 U	0 1 U	1 7 J	4.4 J	0 2 U	7.5	0 4 U	2 2 J
1 2 3.4 7.8-HXCDD	pg/g	NE	0 8 U	0 2 U	0 3 U	1 3 J	0 1 U	0 24 J	0.1 U	0 11 J	0 1 U	2 2 J	3 8 J	0 2 U	10.8	0 4 U	2 8 J
1.2 3.4 7 8-HXCDF	pg/g	NE	0 5 U	0 1 U	0 2 U	3 5 J	0.08 U	0.85 J	0 29 J	0 24 J	0 09 U	4 8 J	43 7	0.18 J	45.1	0 3 U	9 3
1 2 3 6 7 8-HXCDD	pg/g	NE	0 8 U	0 2 U	0 3 U	2 3 J	0 1 U	0.66 J	0.1 U	0 12 J	0 1 U	7 2	10 5	0 2 U	17 5	0 4 U	6 2
1 2 3 6 7 8-HXCDF	pg/g	NE	0 5 U	0.1 U	0 2 U	1 7 J	0 08 U	0 4 J	0 08 U	0.11 J	0 08 U	2 J	13 2	0 1 U	15 3	0 3 U	3 3 J
1 2 3 7.8 9-HXCDD	pg/g	NE	0 8 U	0.2 U	0 3 U	2 8 J	0 1 U	0 81 J	0.23 J	0.14 J	0.1 U	8 8	16 3	0 2 U	33.5	0 4 U	9 3
1 2 3 7.8 9-HXCDF	pg/g	NE	0 6 U	0 2 U	0 2 U	1 3 J	0 1 U	0 2 U	0 1 U	0 1 U	0 1 U	0.47 J	1 3 J	0 1 U	0 92 J	0 4 U	0 28 J
1 2 3 7.8-PECDD	pg/g	NE	0 4 U	0 2 U	0 2 U	0.64 J	0.1 U	0 2 U	0 09 U	0 1 U	0.1 U	0.76 J	2.5 J	0 1 U	5 2	0 4 U	1 3 J
1 2 3 7 8-PECDF	pg/g	NE	0 3 U	0 1 U	0 2 U	0 3 U	0 08 U	0 1 U	0 07 U	0 1 U	0 08 U	0 06 U	5 7	0 1 U	9 6	0 3 U	0 2 U
2 3.4 6 7 8-HXCDF	pg/g	NE	0 6 U	0 2 U	0 2 U	2 8 J	0 09 U	0 66 J	0 08 U	0 18 J	0 09 U	3 1 J	20 5	0 1 U	24 5	0 3 U	5 3
2 3 4 7 8-PECDF	pg/g	NE	0 3 U	0 1 U	0 2 U	1 5 J	0 08 U	0 46 J	0 07 U	0 1 U	0 08 U	2 2 J	12 9	0 1 U	21 8	0 3 U	4 1 J
2 3.7 8-TCDD	pg/g	NE	0 2 U	0 2 U	0 3 U	0 2 U	0 1 U	0 2 U	0 08 U	0 1 U	0 09 U	0 3 J	0.76 J	0 1 U	1 3	0 4 U	0.64 J
2 3 7 8-TCDF	pg/g	NE	0 1 U	0 1 U	0 2 U	2 3	0 08 U	0 52 J	0.06 U	0 09 U	0 07 U	6	24 5	0.09 U	27 5	0 3 U	6 2
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	4.59E-07	2.70E-09	7.80E+00	4.35E-06	8.00E-09	1.19E-06	1.15E-07	1.20E-07	7.38E-09	1.62E-05	3.01E-05	2.54E-08	4.52E-05	5.60E-09	1.27E-05
Radiochemistry																	
GROSS-ALPHA	pCi/g	NE	4.6 J	6 J	5 6 J	4 9 J	11 1	7 3 J	12 3	10 6	5 9 J	5.4 J	3 7 U	6 2 J	4 3 J	6 2 J	4 J
GROSS-BETA	pCi/g	NE	13	9 8 J	12 3	10 3	11 4	11.4	16 8	12.7	9 9 J	11 8	13 3	8 6 J	10 3	12 8	13 2
CESIUM-137	pCi/g	NE	-0 048 U	0 029 U	0 032 U	-0.004 U	-0 032 U	-0.015 U	0.021 U	0 082 U	-0 053 U	0 06 U	0 044 U	0 006 U	-0 018 U	-0.016 U	-0 01 U
LEAD-212	pCi/g	NE	NA	NA	0 46	0 43	0 48	NA	NA	NA	NA	NA	NA	0 37	NA	0 45	0 38
LEAD-214	pCi/g	NE	0.44	NA	NA	NA	NA	NA	NA	NA	0 35	0 39	NA	NA	NA	NA	NA
POTASSIUM-40	pCi/g	NE	15.8	10 8	12 8	13 4	15 2	11 1	24 1	15 7	11 9	14 1	12.7	10 8	12 3	13 5	11.9
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	0 7	NA	1 11	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	1.1	NA	NA	0.62	NA	NA	NA	NA	NA

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NA - not analyzed
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2020	0002-2021	0002-2022	0002-2023	0002-2024	0002-2025	0002-2027	0002-2028	0002-2029	0002-2030	0002-2031	0002-2032	0002-2033	0002-2034	0002-2035
Sample Location			198-B1	198-B1	198-B1	198-B2	198-B2	198-B2	198-D1	198-D1	198-D1	198-D2	198-D2	198-D2	204-E1	204-E1	204-E1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
Metals																	
HEXAVALENT CHROMIUM	mg/kg	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2 J	0.06 J	0.24 U	0.2	0.1 J	0.07 J	0.2 J	0.22 U	0.22 U
ANTIMONY	mg/kg	NE	0.69 J	5.3 U	5.8 U	5.4 U	6.2 U	5.9 U	5.7 U	5.7 U	5.9 U	5.3 U	5.6 U	5.8 U	5.5 U	5.5 U	5.5 U
ARSENIC	mg/kg	9.05	6.4	1.5	2.1	2.7	2.7	0.88	2.9	5.6	1.9	1.8	1.7	3.3	1.9	1.5	2
BARIUM	mg/kg	NE	81.9	40.9	25.6	19.3	93	50	47.8	97.6	45.7	19.1	33.3	99.7	53.4	42.3	11.7
BERYLLIUM	mg/kg	NE	0.22 U	0.21 U	0.23 U	0.21 U	0.25 U	0.24 U	0.23 U	0.23 U	0.24 U	0.21 U	0.23 U	0.23 U	0.22 U	0.22 U	0.22 U
CADMIUM	mg/kg	NE	0.43	0.21 U	0.23 U	0.21 U	0.012 J	0.24 U	0.23 U	0.023 J	0.24 U	0.21 U	0.23 U	0.23 U	0.22 U	0.22 U	0.22 U
CHROMIUM	mg/kg	NE	32.3	7	14.3	6.4	14.7	7	13.1	18.3	7.4	4.6	7	18	8.3	6.8	3.6
COBALT	mg/kg	NE	8	3.6	3.6	3.7	8.3	3.7	7	10.9	4	2.1	3.7	11.7	4.2	3.5	2
COPPER	mg/kg	NE	146	4.9	4.8	4.1	11.7	5.4	8.2	44.5	4.8	2.1	3.3	16.8	4.7	4.2	1.3
LEAD	mg/kg	130	119	1.2	1.4	2.2	2.5	1.1	6	10.7	0.99	0.44	1	2.2	1	0.92	0.4
MERCURY	mg/kg	NE	0.048 J	0.21 U	0.23 U	0.21 U	0.25 U	0.24 U	0.23 U	0.23 U	0.24 U	0.21 U	0.23 U	0.23 U	0.22 U	0.22 U	0.22 U
MOLYBDENUM	mg/kg	NE	19.5	0.21 U	0.23 U	0.21 U	0.25 U	0.24 U	0.23 U	4.8	0.24 U	0.21 U	0.23 U	0.23 U	0.22 U	0.22 U	0.058 J
NICKEL	mg/kg	NE	9.9	2.4	2.3	2.2	5.7	2.1	4.1	9.7	2.5	1.1	2	7.8	2.6	2.1	1.1
SELENIUM	mg/kg	NE	0.54 U	0.53 U	0.3 J	0.54 U	0.29 J	0.59 U	0.57 U	0.57 U	0.59 U	0.53 U	0.56 U	0.58 U	0.55 U	0.55 U	0.55 U
SILVER	mg/kg	NE	0.54 U	0.53 U	0.58 U	0.54 U	0.62 U	0.59 U	0.57 U	0.57 U	0.59 U	0.53 U	0.56 U	0.58 U	0.55 U	0.55 U	0.55 U
THALLIUM	mg/kg	NE	0.54 U	0.53 U	0.58 U	0.54 U	0.62 U	0.59 U	0.57 U	0.57 U	0.59 U	0.53 U	0.56 U	0.58 U	0.55 U	0.55 U	0.55 U
VANADIUM	mg/kg	NE	33.9	26.8	65.1	17.5	48	28.4	43	56.8	29.3	14	22.4	57.7	29.1	27.3	9
ZINC	mg/kg	NE	228	10.6	10.6	12.6	26.5	10.1	17.3	54.9	12.7	5.8	9.8	36	12.2	10.2	6
Total Petroleum Hydrocarbons																	
DIESEL	mg/kg	NE	51 J	53 U	5030	210 U	12 U	6 J	11 U	120	12 U	11 U	11 U	12 U	11 U	11 U	11 U
MOTOR OIL	mg/kg	NE	280	190	240	820	12 U	2 J	2 J	130	12 U	7 J	2 J	2 J	2 J	11 U	2 J
SPLP DIESEL	mg/L	NE	0.2 J	0.06 J	130	0.2 J	0.2 J	1.2	0.1 J	0.2 J	0.06 J	0.04 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.3 J	0.5 U	5 J	0.3 J	0.5 U	0.1 J	0.05 J	0.1 J	0.05 J	0.03 J	0.05 J	0.03 J	0.5 U	0.5 U	0.5 U
Pesticides																	
4,4'-DDD	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
4,4'-DDE	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
4,4'-DDT	µg/kg	NE	2	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
ALDRIN	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
ALPHA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
BETA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
CHLORDANE	µg/kg	NE	54 U	53 U	58 U	270 U	310 U	59 U	57 U	57 U	59 U	53 U	56 U	58 U	55 U	55 U	55 U
DELTA-BHC	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
DIELDRIN	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
ENDOSULFAN I	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
ENDOSULFAN II	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
ENDOSULFAN SULFATE	µg/kg	NE	5.4 U	5.3 U	5.8 U	27 U	31 U	5.9 U	5.7 U	5.7 U	5.9 U	5.3 U	5.6 U	5.8 U	5.5 U	5.5 U	5.5 U
ENDRIN	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
ENDRIN ALDEHYDE	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
ENDRIN KETONE	µg/kg	NE	2.2 U	2.1 U	2.3 U	11 U	12 U	2.4 U	2.3 U	2.3 U	2.4 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
GAMMA-BHC (LINDANE)	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
HEPTACHLOR	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	1.1 U	1.1 U	1.2 U	5.4 U	6.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
METHOXYCHLOR	µg/kg	NE	11 U	11 U	12 U	54 U	62 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
TOXAPHENE	µg/kg	NE	110 U	110 U	120 U	540 U	620 U	120 U	110 U	110 U	120 U	110 U	110 U	120 U	110 U	110 U	110 U
Polychlorinated Biphenyls																	
AROCLOR 1016	µg/kg	NE	54 U	53 U	58 U	54 U	62 U	59 U	57 U	57 U	59 U	53 U	56 U	58 U	55 U	55 U	55 U
AROCLOR 1221	µg/kg	NE	110 U	110 U	120 U	110 U	120 U	120 U	110 U	110 U	120 U	110 U	110 U	120 U	110 U	110 U	110 U
AROCLOR 1232	µg/kg	NE	54 U	53 U	58 U	54 U	62 U	59 U	57 U	57 U	59 U	53 U	56 U	58 U	55 U	55 U	55 U
AROCLOR 1242	µg/kg	NE	54 U	53 U	58 U	54 U	62 U	59 U	57 U	57 U	59 U	53 U	56 U	58 U	55 U	55 U	55 U
AROCLOR 1248	µg/kg	NE	54 U	53 U	58 U	54 U	62 U	59 U	57 U	57 U	59 U	53 U	56 U	58 U	55 U	55 U	55 U
AROCLOR 1254	µg/kg	NE	27 U	26 U	29 U	27 U	31 U	30 U	28 U	28 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
AROCLOR 1260	µg/kg	NE	27 U	26 U	29 U	27 U	31 U	30 U	28 U	28 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2020	0002-2021	0002-2022	0002-2023	0002-2024	0002-2025	0002-2027	0002-2028	0002-2029	0002-2030	0002-2031	0002-2032	0002-2033	0002-2034	0002-2035
Sample Location			198-B1	198-B1	198-B1	198-B2	198-B2	198-B2	198-D1	198-D1	198-D1	198-D2	198-D2	198-D2	204-E1	204-E1	204-E1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
Herbicides																	
2,4,5-T	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
2,4,5-TP	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
2,4-D	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
2,4-DB	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
3,5-DICHLOROBENZOIC	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
4-NITROPHENOL	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ACIFLUORFEN	µg/kg	NE	22 U	21 U	23 U	21 U	25 U	24 U	23 U	23 U	24 U	21 U	23 U	23 U	22 U	22 U	22 U
BENTAZON (BASAGRAN)	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
CHLORAMBEN	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
DALAPON	µg/kg	NE	22 U	21 U	23 U	21 U	25 U	24 U	23 U	23 U	24 U	21 U	23 U	23 U	22 U	22 U	22 U
DICAMBA	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
DICHLOROPROP	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
DINOSEB	µg/kg	NE	22 U	21 U	23 U	21 U	25 U	24 U	23 U	23 U	24 U	21 U	23 U	23 U	22 U	22 U	22 U
MCPA	µg/kg	NE	220 U	210 U	230 U	210 U	250 U	240 U	230 U	230 U	240 U	210 U	230 U	230 U	220 U	220 U	220 U
MCPP	µg/kg	NE	220 U	210 U	230 U	210 U	250 U	240 U	230 U	230 U	240 U	210 U	230 U	230 U	220 U	220 U	220 U
PENTACHLOROPHENOL	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
PICLORAM	µg/kg	NE	11 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U
Volatile Organic Compounds																	
1,1,1-TRICHLOROETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
1,1,2,2-TETRACHLOROETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
1,1,2-TRICHLOROETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
1,1-DICHLOROETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
1,1-DICHLOROETHENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
1,2-DICHLOROETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
1,2-DICHLOROPROPANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
2-BUTANONE	µg/kg	NE	170 U	4 J	58000 U	7 J	6 J	4 J	10 J	110 U	330 U	94 U	210 U	120 U	210 U	260 U	120 U
2-HEXANONE	µg/kg	NE	83 U	69 U	29000 U	97 U	89 U	65 U	78 U	57 U	170 U	47 U	100 U	59 U	110 U	130 U	58 U
4-METHYL-2-PENTANONE	µg/kg	NE	83 U	69 U	29000 U	97 U	89 U	65 U	78 U	57 U	170 U	47 U	100 U	59 U	110 U	130 U	58 U
ACETONE	µg/kg	NE	170 U	17 J	58000 U	26 J	22 J	16 J	160 U	110 U	330 U	94 U	210 U	120 U	210 U	260 U	120 U
BENZENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
BROMODICHLOROMETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
BROMOFORM	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
BROMOMETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CARBON DISULFIDE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CARBON TETRACHLORIDE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CHLOROBENZENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CHLOROETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CHLOROFORM	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CHLOROMETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CIS-1,2-DICHLOROETHENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
DIBROMOCHLOROMETHANE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
ETHYLBENZENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	17 U	14 U	5800 U	19 U	18 U	13 U	16 U	11 U	33 U	9.4 U	21 U	12 U	21 U	26 U	12 U
METHYLENE CHLORIDE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
STYRENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
TETRACHLOROETHENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
TOLUENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
TRANS-1,2-DICHLOROETHENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
TRANS-1,3-DICHLOROPROPENE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
TRICHLOROETHENE	µg/kg	NE	8.3 U	6.9 U	430 J	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
VINYL ACETATE	µg/kg	NE	83 U	69 U	29000 U	97 U	89 U	65 U	78 U	57 U	170 U	47 U	100 U	59 U	110 U	130 U	58 U
VINYL CHLORIDE	µg/kg	NE	8.3 U	6.9 U	2900 U	9.7 U	8.9 U	6.5 U	7.8 U	5.7 U	17 U	4.7 U	10 U	5.9 U	11 U	13 U	5.8 U
XYLENES (TOTAL)	µg/kg	NE	25 U	21 U	8800 U	29 U	27 U	19 U	23 U	17 U	50 U	14 U	31 U	18 U	32 U	39 U	17 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2020	0002-2021	0002-2022	0002-2023	0002-2024	0002-2025	0002-2027	0002-2028	0002-2029	0002-2030	0002-2031	0002-2032	0002-2033	0002-2034	0002-2035
Sample Location			198-B1	198-B1	198-B1	198-B2	198-B2	198-B2	198-D1	198-D1	198-D1	198-D2	198-D2	198-D2	204-E1	204-E1	204-E1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
Semivolatile Organic Compounds																	
1 2,4-TRICHLOROBENZENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
1 2-DICHLOROBENZENE	µg/kg	NE	290 J	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
1 3-DICHLOROBENZENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
1,4-DICHLOROBENZENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2,4,5-TRICHLOROPHENOL	µg/kg	NE	3500 U	3400 U	19000 U	6900 U	2000 U	1900 U	1800 U	3600 U	1900 U	1700 U	1800 U	1900 U	1800 U	1700 U	1800 U
2,4,6-TRICHLOROPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2,4-DICHLOROPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2,4-DIMETHYLPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2,4-DINITROPHENOL	µg/kg	NE	3500 U	3400 U	19000 U	6900 U	2000 U	1900 U	1800 U	3600 U	1900 U	1700 U	1800 U	1900 U	1800 U	1700 U	1800 U
2,4-DINITROTOLUENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2 6-DINITROTOLUENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2-CHLORONAPHTHALENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2-CHLOROPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2-METHYLPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
2-NITROANILINE	µg/kg	NE	3500 U	3400 U	19000 U	6900 U	2000 U	1900 U	1800 U	3600 U	1900 U	1700 U	1800 U	1900 U	1800 U	1700 U	1800 U
2-NITROPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
3 3 -DICHLOROBENZIDINE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
3-NITROANILINE	µg/kg	NE	3500 U	3400 U	19000 U	6900 U	2000 U	1900 U	1800 U	3600 U	1900 U	1700 U	1800 U	1900 U	1800 U	1700 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	µg/kg	NE	3500 U	3400 U	19000 U	6900 U	2000 U	1900 U	1800 U	3600 U	1900 U	1700 U	1800 U	1900 U	1800 U	1700 U	1800 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
4-CHLOROANILINE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
4-NITROANILINE	µg/kg	NE	3500 U	3400 U	19000 U	6900 U	2000 U	1900 U	1800 U	3600 U	1900 U	1700 U	1800 U	1900 U	1800 U	1700 U	1800 U
ACENAPHTHENE	µg/kg	NE	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
ACENAPHTHYLENE	µg/kg	NE	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
ANTHRACENE	µg/kg	6100	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
BENZ[A]ANTHRACENE	µg/kg	560	23 J	71 J	29 U	540 U	31 U	30 U	28 U	220 J	30 U	26 U	28 U	29	27 U	27 U	28 U
BENZO[A]PYRENE	µg/kg	56	29 J	210 U	29 U	540 U	31 U	30 U	28 U	160 J	30 U	26 U	28 U	20 J	27 U	27 U	28 U
BENZO[B]FLUORANTHENE	µg/kg	560	56	210 U	29 U	540 U	31 U	30 U	28 U	330 J	30 U	26 U	28 U	35	27 U	27 U	28 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	17 J	27 U	27 U	28 U
BENZO[K]FLUORANTHENE	µg/kg	610	22 J	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	12 J	27 U	27 U	28 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	120 J	370 U	380 U	360 U	360 U	370 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
CHRYSENE	µg/kg	6100	20 J	210 U	9 J	160 J	9 J	30 U	28 U	260 J	30 U	26 U	28 U	28 J	27 U	27 U	28 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
DIBENZOFURAN	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
DIETHYL PHTHALATE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
DIMETHYL PHTHALATE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
FLUORANTHENE	µg/kg	NE	54 J	210 U	29 U	540 U	31 U	30 U	28 U	190 J	30 U	26 U	28 U	23 J	27 U	27 U	28 U
FLUORENE	µg/kg	NE	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
HEXACHLOROBENZENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
HEXACHLOROBUTADIENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
HEXACHLOROETHANE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	14 J	27 U	27 U	28 U
NAPHTHALENE	µg/kg	NE	54 U	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	29 U	27 U	27 U	28 U
NITROBENZENE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2020	0002-2021	0002-2022	0002-2023	0002-2024	0002-2025	0002-2027	0002-2028	0002-2029	0002-2030	0002-2031	0002-2032	0002-2033	0002-2034	0002-2035
Sample Location			198-B1	198-B1	198-B1	198-B2	198-B2	198-B2	198-D1	198-D1	198-D1	198-D2	198-D2	198-D2	204-E1	204-E1	204-E1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001	1/18/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals															
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	710 U	700 U	3900 U	1400 U	410 U	390 U	370 U	750 U	390 U	350 U	370 U	380 U	360 U	360 U	370 U
PHENANTHRENE	µg/kg	NE	19 J	210 U	29 U	540 U	31 U	30 U	28 U	180 J	30 U	26 U	28 U	29 U	27 U	27 U	28 U
PHENOL	µg/kg	NE	190 J	330 J	1200 J	1400 U	220 J	390 U	370 U	220 J	390 U	350 U	240 J	220 J	360 U	360 U	340 J
PYRENE	µg/kg	NE	53 J	210 U	29 U	540 U	31 U	30 U	28 U	570 U	30 U	26 U	28 U	16 J	27 U	27 U	28 U
Organotin																	
DIBUTYLTIN	µg/kg	NE	16 U	7 J	18 U	16 U	18 U	18 U	5.7 U	5.7 U	5.9 U	5.3 U	5.6 U	5.8 U	5.5 U	5.5 U	5.5 U
MONOBUTYLTIN	µg/kg	NE	16 U	16 U	18 U	16 U	18 U	18 U	5.7 U	5.7 U	5.9 U	5.3 U	5.6 U	5.8 U	5.5 U	5.5 U	5.5 U
TETRABUTYLTIN	µg/kg	NE	16 U	16 U	18 U	16 U	18 U	18 U	5.7 U	5.7 U	5.9 U	5.3 U	5.6 U	5.8 U	5.5 U	5.5 U	5.5 U
TRIBUTYLTIN	µg/kg	NE	16 U	16 U	18 U	16 U	18 U	18 U	5.7 U	5.7 U	5.9 U	5.3 U	5.6 U	5.8 U	5.5 U	5.5 U	5.5 U
Dioxins and Furans																	
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	15260	5.6 J	2.8 J	1.2 U	0.7 U	1.3 J	6.6 J	35.1	1.3 U	2 J	4.9 J	1.1 U	34.4	1.5 J	3.6 J
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	405	2.2 J	0.3 U	0.9 U	0.6 U	0.6 U	0.7 U	1 U	1 U	0.7 U	0.6 U	0.8 U	5.1 U	0.7 U	0.2 U
1,2,3,4,6,7,8-HPCDD	pg/g	NE	2160	1.3 J	0.2 U	0.6 U	0.5 U	0.5 U	0.9 J	2.4 J	0.8 U	0.6 U	0.5 U	0.6 U	3.4 U	0.5 U	0.49 J
1,2,3,4,6,7,8-HPCDF	pg/g	NE	127	0.1 U	0.1 U	0.3 U	0.3 U	0.25 J	0.3 U	0.4 U	0.4 U	0.3 U	0.3 U	0.4 U	0.9 U	0.3 U	0.1 U
1,2,3,4,7,8,9-HPCDF	pg/g	NE	10.1	0.2 U	0.1 U	0.4 U	0.4 U	0.3 U	0.4 U	0.6 U	0.6 U	0.5 U	0.4 U	0.5 U	1.2 U	0.4 U	0.1 U
1,2,3,4,7,8-HXCDD	pg/g	NE	2.6 J	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.3 U	0.5 U	0.4 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.1 U
1,2,3,4,7,8-HXCDF	pg/g	NE	15.1	0.1 U	0.09 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.07 U
1,2,3,6,7,8-HXCDD	pg/g	NE	44.8	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.3 U	0.5 U	0.4 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.1 U
1,2,3,6,7,8-HXCDF	pg/g	NE	3.6 J	0.09 U	0.09 U	0.2 U	0.2 U	0.1 U	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.06 U
1,2,3,7,8,9-HXCDD	pg/g	NE	17.3	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.3 U	0.5 U	0.4 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.09 U
1,2,3,7,8,9-HXCDF	pg/g	NE	0.3 U	0.1 U	0.1 U	0.3 U	0.2 U	0.2 U	0.37 J	0.4 U	0.4 U	0.3 U	0.2 U	0.3 U	0.5 U	0.2 U	0.08 U
1,2,3,7,8-PECDD	pg/g	NE	1 J	0.1 U	0.2 U	0.3 U	0.2 U	0.2 U	0.3 U	0.4 U	0.4 U	0.3 U	0.3 U	0.4 U	0.5 U	0.3 U	0.1 U
1,2,3,7,8-PECDF	pg/g	NE	0.2 U	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.07 U
2,3,4,6,7,8-HXCDF	pg/g	NE	6.1	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.07 U
2,3,4,7,8-PECDF	pg/g	NE	2.8 J	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.07 U
2,3,7,8-TCDD	pg/g	NE	0.4 U	0.2 U	0.1 U	0.3 U	0.2 U	0.2 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.08 U
2,3,7,8-TCDF	pg/g	NE	3.8	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U	0.07 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	4.99E-05	2.08E-08	2.80E-09	0.00E+00	0.00E+00	3.80E-09	5.26E-08	5.91E-08	0.00E+00	2.00E-09	4.90E-09	0.00E+00	3.44E-08	1.50E-09	8.50E-09
Radiochemistry																	
GROSS-ALPHA	pCi/g	NE	7.1 J	6.7 J	1.2 U	8.4 J	5 J	4.1 U	9.4 J	4.1 U	5.1 J	11	6.3 J	5.2 U	4.5 U	3.1 U	5.1 J
GROSS-BETA	pCi/g	NE	10.4	9.3 J	11.7	9.2 J	11.4	17.1	22.9	12.5	17.5	20.3	15.6	15.9	11.2	15.3	12.1
CESIUM-137	pCi/g	NE	0.038 U	0.074 U	0.036 U	-0.07 U	-0.005 U	-0.028 U	-0.00009 U?	0.013 U	-0.1 U	0.024 U	-0.006 U	0.015 U	-0.038 U	-0.064 U	-0.013 U
LEAD-212	pCi/g	NE	NA	0.39	0.4	0.79	0.36	NA	NA	0.53	0.66	0.48	0.26	0.31	NA	0.62	0.58
LEAD-214	pCi/g	NE	NA	0.4	0.43	NA	NA	0.8	NA	0.38	0.89	0.62	NA	NA	NA	0.47	0.35
POTASSIUM-40	pCi/g	NE	18	16.4	13.4	18.5	12.8	21	13.8	16	19.7	16	11.7	11.9	14	15.1	13.3
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	0.35	NA	NA	NA	NA	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	1.38	NA	NA	NA	NA	NA	0.78	NA	NA	NA	NA	NA	0.34	NA	NA

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NA - not analyzed
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2036	0002-2037	0002-2038	0002-2039	0002-2040	0002-2041	0002-2042	0002-2043	0002-2044	0002-2045	0002-2046	0002-2047	0002-2048
Sample Location			204-E2	204-E2	204-E2	INT	INT	A1A	A1A	A1A	B1A	B1A	198-C1	198-C1	198-C1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals													
Metals															
HEXAVALENT CHROMIUM	mg/kg	0.2	0.08 J	0.23 U	0.1 J	0.2 J	0.1 J	0.22 U	0.21 U	0.05 J	0.1 J	0.07 J	0.22 U	0.08 J	0.1 J
ANTIMONY	mg/kg	NE	5.4 U	5.7 U	5.5 U	4.2 J	5.6 U	5.5 U	5.4 U	5.7 U	5.6 U	5.7 U	5.5 U	5.8 U	5.3 U
ARSENIC	mg/kg	9.05	2.3	2.7	2.1	7.1	3.2	5.8	3.1	2.7	3.3	10.9	3.2	3.2	1.1
BARIUM	mg/kg	NE	52.5	12.6	56	115	73.3	117	37.2	124	50.8	67.6	80.9	28.9	32.6
BERYLLIUM	mg/kg	NE	0.22 U	0.23 U	0.22 U	0.23 U	0.22 U	0.22 U	0.21 U	0.23 U	0.23 U	0.23 U	0.22 U	0.23 U	0.21 U
CADMIUM	mg/kg	NE	0.26	0.027 J	0.22 U	0.76	0.25	0.44	0.11 J	0.049 J	0.33	0.56	0.051 J	0.012 J	0.21 U
CHROMIUM	mg/kg	NE	9.9	4.9	11.3	65.4	23.1	63.5	14.4	12.9	20.5	41.8	15.2	7.5	11.9
COBALT	mg/kg	NE	5.4	2.4	4.8	10.9	7.6	11.6	5.2	8.4	6.3	9.6	7.5	4.7	4
COPPER	mg/kg	NE	7.5	1.7	5.5	206	49.8	124	26	9.2	62.3	219	18.5	4.3	5.3
LEAD	mg/kg	130	1.9	0.87	1.3	185	59.5	107	32.6	2.2	54.7	140	22.6	1.1	0.86
MERCURY	mg/kg	NE	0.12 J	0.23 U	0.22 U	0.52	0.14 J	0.22 U	0.4	0.23 U	0.23 U	0.23 U	0.22 U	0.23 U	0.21 U
MOLYBDENUM	mg/kg	NE	0.22 U	0.19 J	0.22 U	1.5	0.21 J	1.6	0.21 U	0.23 U	0.23 U	0.51	0.22 U	0.23 U	0.21 U
NICKEL	mg/kg	NE	3.3	1.6	3.3	24.4	7.8	29.9	3.9	5.4	5	16.2	5.2	3	2.8
SELENIUM	mg/kg	NE	0.54 U	0.57 U	0.55 U	0.58 U	0.56 U	0.55 U	0.54 U	0.57 U	0.56 U	0.57 U	0.55 U	0.58 U	0.14 J
SILVER	mg/kg	NE	0.54 U	0.57 U	0.55 U	0.58 U	0.56 U	0.55 U	0.54 U	0.57 U	0.56 U	0.57 U	0.55 U	0.58 U	0.53 U
THALLIUM	mg/kg	NE	0.54 U	0.57 U	0.55 U	0.58 U	0.56 U	0.55 U	0.54 U	0.57 U	0.56 U	0.57 U	0.55 U	0.58 U	0.53 U
VANADIUM	mg/kg	NE	32.6	9.4	41.3	43.6	36.7	40	26.3	42.3	27.2	40.8	41.1	16.1	46.5
ZINC	mg/kg	NE	24	8.6	17.3	307	96.7	197	64.9	21.2	230	297	47.6	14	12.1
Total Petroleum Hydrocarbons															
DIESEL	mg/kg	NE	290 J	250 J	11 U	79 J	51	47	80 J	11 U	1 J	5 J	5 J	12 U	11 U
MOTOR OIL	mg/kg	NE	1000	2700	11 U	260	200	120	230	11 U	20	51	26	12 U	11 U
SPLP DIESEL	mg/L	NE	0.8	0.09 J	0.04 J	0.2 J	0.2 J	0.05 J	0.08 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SPLP MOTOR OIL	mg/L	NE	0.7	0.1 J	0.5 U	0.1 J	0.4 J	0.1 J	0.1 J	0.5 U	0.08 J	0.04 J	0.03 J	0.5 U	0.5 U
Pesticides															
4,4'-DDD	µg/kg	NE	22 U	23 U	2.2 U	23 U	2.2 U	2.2 U	2.1 U	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
4,4'-DDE	µg/kg	NE	22 U	23 U	2.2 U	53	2.2 U	0.6 J	2 J	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
4,4'-DDT	µg/kg	NE	22 U	23 U	2.2 U	40	2.2 U	2.2 U	8.2	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
ALDRIN	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	2.5	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
ALPHA-BHC	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
BETA-BHC	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
CHLORDANE	µg/kg	NE	540 U	570 U	55 U	580 U	56 U	55 U	54 U	57 U	56 U	57 U	55 U	58 U	53 U
DELTA-BHC	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
DIELDRIN	µg/kg	NE	20	12 J	2.2 U	23 U	2.2 U	2.2 U	2.1 U	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
ENDOSULFAN I	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
ENDOSULFAN II	µg/kg	NE	22 U	23 U	2.2 U	23 U	2.2 U	2.2 U	2.1 U	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
ENDOSULFAN SULFATE	µg/kg	NE	54 U	57 U	5.5 U	58 U	5.6 U	5.5 U	5.4 U	5.7 U	5.6 U	5.7 U	5.5 U	5.8 U	5.3 U
ENDRIN	µg/kg	NE	22 U	23 U	2.2 U	23 U	2.2 U	2.2 U	2.1 U	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
ENDRIN ALDEHYDE	µg/kg	NE	22 U	23 U	2.2 U	23 U	2.2 U	2.2 U	2.1 U	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
ENDRIN KETONE	µg/kg	NE	22 U	23 U	2.2 U	23 U	2.2 U	2.2 U	2.1 U	2.3 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U
GAMMA-BHC (LINDANE)	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
HEPTACHLOR	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
HEPTACHLOR EPOXIDE	µg/kg	NE	11 U	11 U	1.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
METHOXYCHLOR	µg/kg	NE	110 U	110 U	11 U	120 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
TOXAPHENE	µg/kg	NE	1100 U	1100 U	110 U	1200 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	120 U	110 U
Polychlorinated Biphenyls															
AROCLOR 1016	µg/kg	NE	54 U	57 U	55 U	58 U	56 U	55 U	54 U	57 U	56 U	57 U	55 U	58 U	53 U
AROCLOR 1221	µg/kg	NE	110 U	110 U	110 U	120 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	120 U	110 U
AROCLOR 1232	µg/kg	NE	54 U	57 U	55 U	58 U	56 U	55 U	54 U	57 U	56 U	57 U	55 U	58 U	53 U
AROCLOR 1242	µg/kg	NE	54 U	57 U	55 U	9250	130	55 U	54 U	57 U	56 U	57 U	55 U	58 U	53 U
AROCLOR 1248	µg/kg	NE	54 U	57 U	55 U	58 U	56 U	55 U	54 U	57 U	56 U	57 U	55 U	58 U	53 U
AROCLOR 1254	µg/kg	NE	27 U	29 U	27 U	29 U	28 U	28 U	27 U	28 U	28 U	29 U	28 U	29 U	27 U
AROCLOR 1260	µg/kg	NE	170	47	27 U	79	19 J	28 U	39	28 U	28 U	29 U	28 U	29 U	27 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2036	0002-2037	0002-2038	0002-2039	0002-2040	0002-2041	0002-2042	0002-2043	0002-2044	0002-2045	0002-2046	0002-2047	0002-2048
Sample Location			204-E2	204-E2	204-E2	INT	INT	A1A	A1A	A1A	B1A	B1A	198-C1	198-C1	198-C1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals													
Herbicides															
2 4 5-T	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
2 4 5-TP	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
2 4-D	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
2 4-DB	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
3 5-DICHLOROBENZOIC	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
4-NITROPHENOL	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
ACIFLUORFEN	µg/kg	NE	22 U	23 U	22 U	23 U	22 U	22 U	21 U	23 U	23 U	23 U	22 U	23 U	21 U
BENTAZON (BASAGRAN)	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
CHLORAMBEN	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
DALAPON	µg/kg	NE	22 U	23 U	22 U	23 U	22 U	22 U	21 U	23 U	23 U	23 U	22 U	23 U	21 U
DICAMBA	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
DICHLOROPROP	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
DINOSEB	µg/kg	NE	22 U	23 U	22 U	23 U	22 U	22 U	21 U	23 U	23 U	23 U	22 U	23 U	21 U
MCPA	µg/kg	NE	220 U	230 U	220 U	230 U	220 U	220 U	210 U	230 U	230 U	230 U	220 U	230 U	210 U
MCPP	µg/kg	NE	220 U	230 U	220 U	230 U	220 U	220 U	210 U	230 U	230 U	230 U	220 U	230 U	210 U
PENTACHLOROPHENOL	µg/kg	NE	11 U	11 U	11 U	12	22	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
PICLORAM	µg/kg	NE	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
Volatile Organic Compounds															
1 1 1-TRICHLOROETHANE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9 7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5.4 U
1 1 2 2-TETRACHLOROETHANE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9.7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5.4 U
1 1 2-TRICHLOROETHANE	µg/kg	NE	5 6 U	7.7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
1 1-DICHLOROETHANE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
1 1-DICHLOROETHENE	µg/kg	NE	5 6 U	7.7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
1 2-DICHLOROETHANE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9.7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5.4 U
1 2-DICHLOROPROPANE	µg/kg	NE	5 6 U	7.7 U	6.3 U	8 8 U	9 2 U	9 7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
2-BUTANONE	µg/kg	NE	110 U	150 U	130 U	180 U	180 U	190 U	320 U	130 U	150 U	210 U	150 U	170 U	110 U
2-HEXANONE	µg/kg	NE	56 U	77 U	63 U	88 U	92 U	97 U	160 U	63 U	73 U	110 U	77 U	87 U	54 U
4-METHYL-2-PENTANONE	µg/kg	NE	56 U	77 U	63 U	88 U	92 U	97 U	160 U	63 U	73 U	110 U	77 U	87 U	54 U
ACETONE	µg/kg	NE	110 U	150 U	130 U	180 U	180 U	190 U	320 U	130 U	150 U	210 U	150 U	170 U	110 U
BENZENE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9 7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
BROMODICHLOROMETHANE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5.4 U
BROMOFORM	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9.7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
BROMOMETHANE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7.7 U	8 7 U	5 4 U
CARBON DISULFIDE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
CARBON TETRACHLORIDE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9 7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
CHLOROBENZENE	µg/kg	NE	5 6 U	7.7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
CHLOROETHANE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
CHLOROFORM	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
CHLOROMETHANE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
CIS-1 2-DICHLOROETHENE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8.8 U	9 2 U	9.7 U	16 U	6.3 U	7 3 U	11 U	7.7 U	8 7 U	5.4 U
CIS-1,3-DICHLOROPROPENE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
DIBROMOCHLOROMETHANE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
ETHYLBENZENE	µg/kg	NE	5 6 U	7 7 U	6.3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5.4 U
METHYL TERT-BUTYL ETHER	µg/kg	NE	11 U	15 U	13 U	18 U	18 U	19 U	32 U	13 U	15 U	21 U	15 U	17 U	11 U
METHYLENE CHLORIDE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
STYRENE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7.7 U	8 7 U	5 4 U
TETRACHLOROETHENE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	1 J	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
TOLUENE	µg/kg	NE	5 6 U	7.7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6.3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
TRANS-1 2-DICHLOROETHENE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8.8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
TRANS-1 3-DICHLOROPROPENE	µg/kg	NE	5 6 U	7 7 U	6 3 U	8 8 U	9 2 U	9 7 U	16 U	6 3 U	7 3 U	11 U	7 7 U	8 7 U	5 4 U
TRICHLOROETHENE	µg/kg	NE	5.6 U	7 7 U	6 3 U	8 8 U	9 2 U	9.7 U	16 U	6 3 U	7.3 U	11 U	7.7 U	8 7 U	5 4 U
VINYL ACETATE	µg/kg	NE	56 U	77 U	63 U	88 U	92 U	97 U	160 U	63 U	73 U	110 U	77 U	87 U	54 U
VINYL CHLORIDE	µg/kg	NE	5.6 U	7 7 U	6.3 U	8 8 U	9.2 U	9.7 U	16 U	6 3 U	7.3 U	11 U	7 7 U	8 7 U	5 4 U
XYLENES (TOTAL)	µg/kg	NE	17 U	23 U	19 U	26 U	28 U	29 U	49 U	19 U	22 U	32 U	23 U	26 U	16 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2036	0002-2037	0002-2038	0002-2039	0002-2040	0002-2041	0002-2042	0002-2043	0002-2044	0002-2045	0002-2046	0002-2047	0002-2048
Sample Location			204-E2	204-E2	204-E2	INT	INT	A1A	A1A	A1A	B1A	B1A	198-C1	198-C1	198-C1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals													
Semivolatile Organic Compounds															
1 2 4-TRICHLOROBENZENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
1 2-DICHLOROBENZENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
1 3-DICHLOROBENZENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
1 4-DICHLOROBENZENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2 4 5-TRICHLOROPHENOL	µg/kg	NE	8700 U	18000 U	1800 U	3700 U	3600 U	3500 U	3400 U	1800 U	1800 U	1800 U	1800 U	1800 U	1700 U
2 4 6-TRICHLOROPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2 4-DICHLOROPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2 4-DIMETHYLPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2 4-DINITROPHENOL	µg/kg	NE	8700 U	18000 U	1800 U	3700 U	3600 U	3500 U	3400 U	1800 U	1800 U	1800 U	1800 U	1800 U	1700 U
2 4-DINITROTOLUENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2 6-DINITROTOLUENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2-CHLORONAPHTHALENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2-CHLOROPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2-METHYLPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
2-NITROANILINE	µg/kg	NE	8700 U	18000 U	1800 U	3700 U	3600 U	3500 U	3400 U	1800 U	1800 U	1800 U	1800 U	1800 U	1700 U
2-NITROPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
3 3 -DICHLOROBENZIDINE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
3/4-METHYLPHENOL (M/P-CRESOL)	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
3-NITROANILINE	µg/kg	NE	8700 U	18000 U	1800 U	3700 U	3600 U	3500 U	3400 U	1800 U	1800 U	1800 U	1800 U	1800 U	1700 U
4 6-DINITRO-2-METHYLPHENOL	µg/kg	NE	8700 U	18000 U	1800 U	3700 U	3600 U	3500 U	3400 U	1800 U	1800 U	1800 U	1800 U	1800 U	1700 U
4-BROMOPHENYL PHENYL ETHER	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
4-CHLORO-3-METHYLPHENOL	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
4-CHLOROANILINE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
4-CHLOROPHENYL PHENYL ETHER	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
4-NITROANILINE	µg/kg	NE	8700 U	18000 U	1800 U	3700 U	3600 U	3500 U	3400 U	1800 U	1800 U	1800 U	1800 U	1800 U	1700 U
ACENAPHTHENE	µg/kg	NE	110 U	1400 U	27 U	62	41	28 U	24 J	28 U	28 U	29 U	28 U	29 U	27 U
ACENAPHTHYLENE	µg/kg	NE	33 J	1400 U	27 U	31	20 J	28 U	19 J	28 U	10 J	15 J	28 U	29 U	27 U
ANTHRACENE	µg/kg	6100	85 J	1400 U	27 U	210	220	10 J	62	28 U	15 J	16 J	10 J	29 U	27 U
BENZ[A]ANTHRACENE	µg/kg	560	590	390 J	27 U	1280	982	70	380	28 U	350	140	61	29 U	27 U
BENZO[A]PYRENE	µg/kg	56	520	1400 U	27 U	918	702	69	410	28 U	440	270	73	29 U	27 U
BENZO[B]FLUORANTHENE	µg/kg	560	820	520 J	27 U	29 U	28 U	120	698	28 U	929	617	130	29 U	27 U
BENZO[G,H,I]PERYLENE	µg/kg	NE	410	1400 U	27 U	370	250	54	230	28 U	480	500	54	29 U	27 U
BENZO[K]FLUORANTHENE	µg/kg	610	280	1400 U	27 U	2410	1820	40	240	28 U	220	210	42	29 U	27 U
BIS(2-CHLOROETHOXY) METHANE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
BIS(2-CHLOROETHYL) ETHER	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
BIS(2-ETHYLHEXYL) PHTHALATE	µg/kg	NE	1800 U	3800 U	360 U	150 J	100 J	110 J	710 U	380 U	370 U	380 U	360 U	380 U	350 U
BUTYL BENZYL PHTHALATE	µg/kg	NE	1800 U	3800 U	360 U	760 U	87 J	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
CHRYSENE	µg/kg	6100	640	1400 U	27 U	1150	1050	79	562	28 U	430	160	84	29 U	27 U
DIBENZ[A,H]ANTHRACENE	µg/kg	56	130	1400 U	27 U	85	100	16 J	43	28 U	190	180	24 J	29 U	27 U
DIBENZOFURAN	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
DIETHYL PHTHALATE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
DIMETHYL PHTHALATE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
DI-N-BUTYL PHTHALATE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
DI-N-OCTYL PHTHALATE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
FLUORANTHENE	µg/kg	NE	1000	1400 U	27 U	2040	1650	100	530	28 U	98	23 J	77	29 U	27 U
FLUORENE	µg/kg	NE	110 U	1400 U	27 U	45	44	28 U	12 J	28 U	28 U	29 U	28 U	29 U	27 U
HEXACHLOROBENZENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
HEXACHLOROBUTADIENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
HEXACHLOROCYCLOPENTADIENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
HEXACHLOROETHANE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
INDENO[1,2,3-CD]PYRENE	µg/kg	560	330	1400 U	27 U	380	260	45	210	28 U	410	410	46	29 U	27 U
NAPHTHALENE	µg/kg	NE	110 U	1400 U	27 U	9 J	7 J	28 U	27 U	28 U	28 U	29 U	28 U	29 U	27 U
NITROBENZENE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U

TABLE 8-6

COLLECTION, STORAGE, AND TRANSFER FACILITY SOIL ANALYTICAL RESULTS - PHASE 7

Sample Number			0002-2036	0002-2037	0002-2038	0002-2039	0002-2040	0002-2041	0002-2042	0002-2043	0002-2044	0002-2045	0002-2046	0002-2047	0002-2048
Sample Location			204-E2	204-E2	204-E2	INT	INT	A1A	A1A	A1A	B1A	B1A	198-C1	198-C1	198-C1
Sample Date			1/18/2001	1/18/2001	1/18/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001	1/19/2001
Sampele Depth (feet)			0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'	0-1.5'	3-4.5'	0-1.5'	3-4.5'	7-8.5'
Analyte	Units	Cleanup Goals													
N-NITROSO-DI-N-PROPYLAMINE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
N-NITROSODIPHENYLAMINE	µg/kg	NE	1800 U	3800 U	360 U	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
PHENANTHRENE	µg/kg	NE	330	1400 U	27 U	984	1010	24 J	210	28 U	28 U	9 J	22 J	29 U	27 U
PHENOL	µg/kg	NE	4800	1900 J	2400	760 U	730 U	730 U	710 U	380 U	370 U	380 U	360 U	380 U	350 U
PYRENE	µg/kg	NE	800	1400 U	27 U	220	98	53	170	28 U	75	29 U	25 J	29 U	27 U
Organotin															
DIBUTYLTIN	µg/kg	NE	5.4 U	5.7 U	5.5 U	5.8 U	5.6 U	5.5 U	5.4 U	5.7 U	5.6 U	5.7 U	5.5 U	5.8 U	5.3 U
MONOBUTYLTIN	µg/kg	NE	5.4 U	5.7 U	5.5 U	5.8 U	5.6 U	5.5 U	5.4 U	5.7 U	5.6 U	5.7 U	5.5 U	5.8 U	5.3 U
TETRABUTYLTIN	µg/kg	NE	5.4 U	5.7 U	5.5 U	5.8 U	5.6 U	5.5 U	5.4 U	5.7 U	5.6 U	5.7 U	5.5 U	5.8 U	5.3 U
TRIBUTYLTIN	µg/kg	NE	5.4 U	5.7 U	5.5 U	5.8 U	5.6 U	5.5 U	5.4 U	5.7 U	5.6 U	5.7 U	5.5 U	5.8 U	5.3 U
Dioxins and Furans															
1,2,3,4,6,7,8,9-OCDD	pg/g	NE	2.9 J	0.3 U	0.49 J	0.4 U	6760	481	5500	23.9	645	478	4.2 J	7.8 J	9.1 J
1,2,3,4,6,7,8,9-OCDF	pg/g	NE	0.3 U	0.3 U	0.4 U	27	237	21.5	145	0.93 J	29.4	15.4	0.4 U	0.3 U	0.46 J
1,2,3,4,6,7,8-HPCDD	pg/g	NE	0.34 J	0.2 U	0.3 U	81.3	1010	65.4	750	3.6 J	204	195	1.1 J	1.6 J	2.7 J
1,2,3,4,6,7,8-HPCDF	pg/g	NE	0.1 U	0.1 U	0.2 U	12.8	71.8	10.6	91.5	0.59 J	24	25.7	0.48 J	0.43 J	0.51 J
1,2,3,4,7,8,9-HPCDF	pg/g	NE	0.2 U	0.2 U	0.2 U	0.84 J	3.9 J	0.56 J	4.2 J	0.3 U	1 J	0.74 J	0.2 U	0.2 U	0.2 U
1,2,3,4,7,8-HXCDD	pg/g	NE	0.2 U	0.1 U	0.2 U	1 J	11.7	0.52 J	9.9	0.2 U	2.4 J	4.5 J	0.2 U	0.2 U	0.2 U
1,2,3,4,7,8-HXCDF	pg/g	NE	0.1 U	0.08 U	0.1 U	2.7 J	12.4	1.1 J	30.3	0.2 U	2.5 J	2.4 J	0.51 J	0.32 J	0.25 J
1,2,3,6,7,8-HXCDD	pg/g	NE	0.2 U	0.1 U	0.2 U	2.1 J	17.4	1.5 J	17.2	0.2 U	8.6	10.8	0.2 U	0.24 J	0.29 J
1,2,3,6,7,8-HXCDF	pg/g	NE	0.1 U	0.08 U	0.1 U	1.3 J	5.1	0.66 J	10.5	0.1 U	1.3 J	1.9 J	0.33 J	0.2 J	0.26 J
1,2,3,7,8,9-HXCDD	pg/g	NE	0.1 U	0.1 U	0.2 U	3 J	35.5	1.7 J	27.6	0.2 U	11.4	15	0.26 J	0.36 J	0.28 J
1,2,3,7,8,9-HXCDF	pg/g	NE	0.1 U	0.1 U	0.2 U	0.2 U	0.06 U	0.28 J	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U
1,2,3,7,8-PECDD	pg/g	NE	0.1 U	0.1 U	0.3 U	0.55 J	3.9 J	0.26 J	4.3 J	0.2 U	1.3 J	2 J	0.2 U	0.2 U	0.2 U
1,2,3,7,8-PECDF	pg/g	NE	0.1 U	0.09 U	0.2 U	0.1 U	0.05 U	0.1 U	0.08 U	0.2 U	0.52 J	0.2 U	0.49 J	0.1 U	0.19 J
2,3,4,6,7,8-HXCDF	pg/g	NE	0.1 U	0.09 U	0.1 U	2.1 J	8.5	1.1 J	17.6	0.2 U	1.8 J	1.4 J	0.1 U	0.1 U	0.22 J
2,3,4,7,8-PECDF	pg/g	NE	0.1 U	0.09 U	0.2 U	1.1 J	4.6 J	0.52 J	13.2	0.2 U	1.1 J	0.43 J	0.2 U	0.1 U	0.26 J
2,3,7,8-TCDD	pg/g	NE	0.1 U	0.1 U	0.2 U	0.1 U	0.7 J	0.1 U	0.85 J	0.2 U	0.35 J	0.2 U	0.2 U	0.2 U	0.2 U
2,3,7,8-TCDF	pg/g	NE	0.1 U	0.08 U	0.1 U	1.9	8.1	0.73 J	14.8	0.2 U	1.4	0.5 J	0.91 J	0.44 J	0.1 U
2,3,7,8-TCDD Equivalent (TOTAL)	mg/kg	3.80E-06	6.30E-09	0.00E+00	4.90E-10	3.21E-06	3.27E-05	2.42E-06	3.65E-05	6.67E-08	7.48E-06	7.57E-06	2.46E-07	1.84E-07	3.11E-07
Radiochemistry															
GROSS-ALPHA	pCi/g	NE	4.3 J	10.3	6.7 J	9.2 J	7.7 J	4.8 J	2.4 U	3.8 U	8.4 J	5.8 J	7.4 J	6.5 J	3.2 U
GROSS-BETA	pCi/g	NE	14	14.3	15.3	19.2	17	16.3	17.5	14.1	14.9	16.2	18.9	16.2	12.6
CESIUM-137	pCi/g	NE	0.009 U	-0.059 U	-0.079 U	0.042 U	-0.02 U	0.06 U	-0.029 U	0.058 U	-0.024 U	-0.011 U	-0.064 U	-0.07 U	-0.067 U
LEAD-212	pCi/g	NE	NA	0.86	0.6	0.65	0.55	0.72	0.48	NA	0.54	NA	0.39	NA	0.42
LEAD-214	pCi/g	NE	NA	0.54	NA	NA	NA	NA	0.5	NA	NA	NA	NA	0.61	0.45
POTASSIUM-40	pCi/g	NE	19	19.5	14.4	18.3	20.1	12.6	17.4	15.4	11.9	14.5	16.5	17.2	11.8
RADIUM-226DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.49	NA	NA	NA	NA
THORIUM-232DA	pCi/g	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.77	NA

Notes:

Shading indicates result above cleanup goal

µg/kg - micrograms per kilogram
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDT - dichlorodiphenyltrichloroethane
J - estimated value
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
NA - not analyzed
NE - not established
pCi/g - picocurie per gram
pg/g - picograms per gram
SPLP - Synthetic Precipitation Leaching Procedure
U - not detected