FINAL

PHASE 1 REMEDIAL ACTION, SOIL AND DEBRIS REMOVAL FOR INSTALLATION RESTORATION SITES 1 AND 2 AT FORMER NAVAL STATION LONG BEACH, LONG BEACH, CALIFORNIA

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EXECUTIVE SUMMARY

This Phase 1 Remedial Action, Soil and Debris Removal Report (Report) describes the implementation of a Non-Time-Critical Removal Action conducted in accordance with the *Record of Decision* (Battelle, 2000a) as part of the selected remedy for Installation Restoration (IR) Sites 1 and 2, Naval Station Long Beach (NSLB), Long Beach, California. It should be noted that this Report pertains only to locating, removing, and disposing of cans, drums, other debris, and soil clinging to the debris from the area overlying the groundwater contamination plume at the eastern end of the mole (Gull Park). In the ongoing phase of remedial activities, new sparge wells and soil vapor extraction wells have been installed and are being operated at the site, and a rigorous groundwater monitoring program will be implemented to evaluate the effectiveness of in situ air sparging/soil vapor extraction technology for remediating contaminated groundwater.

Under the DON's directive, the Battelle Team conducted the remedial action at the site under DON Remedial Action–Innovative Technology (RAC-IT) Contract No. N47408-95-D-0730. The remedial action was in accordance with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requirements.

IR Sites 1 and 2 are located within Operable Unit 1 at NAVSTA Long Beach, on the mole extending into Long Beach Harbor. IR Site 1 covers the area on the mole extending from Pier 15 to the east end of the mole. IR Site 2 covers the same general area, but extends approximately from the location of the former Building 815 on the west to the eastern boundary of the mole. The mole is approximately 500 feet wide and is bounded by Long Beach Harbor West Basin to the north and San Pedro Bay to the south.

Beginning in the mid-1940s and continuing until the mid-1960s, landfilling of solid waste occurred within the boundaries of IR Sites 1 and 2. Solid wastes, including empty wooden and cardboard boxes, construction and demolition debris, rags, and other shipyard trash were burned at these sites. Beginning in the mid-1960s until 1980, the Long Beach Naval Shipyard Public Works Department, production shops, and ships stored waste drums of raw chemicals on pallets in the area defined as IR Site 2. Noticeable leakage of liquid from damaged drums reportedly occurred, including release of waste oils, acids, solvents, paints, and chromic acid. Total spillage of wastes to the ground surface was estimated to be less than 3,000 gallons.

During a Remedial Investigation conducted by Bechtel National, Incorporated, (BNI) in 1996 and 1997 and a Feasibility Study conducted by Battelle in 1999, five areas of potential concern (AOPCs), AOPCs 1 through 5, were identified. However, the remedial activities only address AOPCs 1 and 4. AOPC 1 addresses surface soils [0 to 1 foot below ground surface (bgs)] in Gull Park (northeastern portion of IR Sites 1 and 2) and are considered to be within the same potential area of surface spills, dust suppression activities, shallow earthworks, and trench-and fill activities. AOPC 4 covers subsurface soils (deeper than 1 foot bgs) in Gull Park and are considered to be within an area of similar earthwork and trench-and-fill activities.

A Supplemental Field Investigation (BNI, 1997) conducted at the site concluded that a chlorinated and nonchlorinated volatile organic compound (VOC) plume is present in the groundwater beneath Gull Park (AOPC 4). Because the plume can potentially impact nearby ocean water, contaminants were screened against California Ocean Plan criteria. The investigation confirmed the presence of 1,1-dichloroethene (1,1-DCE), benzene, trichloroethene (TCE), and vinyl chloride (VC) at levels above the California Ocean Plan criteria. During subsequent long-term groundwater monitoring conducted between 1996 and 1999, benzene and VC concentrations have been detected in monitoring wells at the site. Additionally, while petroleum-contaminated soils were being removed as part of a response action

in AOPC 4, drums and other waste containers were discovered in shallow areas and further excavation was halted. In January of 1997, the DON and the regulatory agencies involved with the site agreed to determine the extent of the debris and to remove and dispose of the debris. Stained soil and soil clinging to drums and debris also will be removed (Battelle, 1999).

The remedial goals established for IR Sites 1 and 2 are (i) minimize the potential for migration to the marine environment of groundwater contaminants at concentrations exceeding *Amendment of the Water Quality Control Plan, Ocean Waters of California,* (California Ocean Plan) criteria [State of California Water Resources Control Board (CWRCB), 1995], (2) be protective of human health by preventing exposure to contaminated groundwater and soil containing carcinogens that result in an excess lifetime cancer risk greater than 1.0×10^{-4} and chemical concentrations that result in a chronic toxicity hazard index greater than 1.0. The remedial goals will be accomplished by locating and removing drums/containers, contaminated soil and other miscellaneous debris (located within AOPC 1 and AOPC 4) and installing an in situ air sparging/soil vapor extraction (IAS/SVE) system at the site. This will substantially eliminate the exposure to hazardous substances (that is, the primary chemicals of concern) for current and future users of the site.

The remedial action for the site was performed between October 9, 2000, and February 15, 2001, and involved demolition of recreational foundation concrete pads, abandonment of on-site monitoring wells, drums/containers extraction, over-packing, characterization and off-site disposal, off-site treatment and/or disposal of contaminated soils, backfilling and compaction, verification sampling and analysis, and restoration activities. The construction activities associated with Phase I Remedial Action did not impact the nesting season of the black-crowned night heron (February through July), as backfilling and compaction activities were completed on February 1, 2001 and followed by site restoration and demobilization activities through February 16, 2001.

A total of 14,695 tons of contaminated soils were excavated and removed from the site. Excavated material was temporarily stockpiled on site and sampled for classification purposes. Waste materials were loaded onto end dump and hauled to US Ecology in Betty, Nevada, for the Resource Conservation and Recovery Act (RCRA) soil (566 tons) that required treatment prior to disposal and Chemical Waste Management Landfill in Kettleman City, California, for the non-RCRA soil (14,129 tons) for direct disposal. Both facilities are approved and permitted CERCLA facilities. In addition, a total of 368 radium-226 point sources and six B-25 boxes (approximately 21 cubic yards) filled with radium contaminated soil were removed from the 1.4-acre excavation area and from the additional geophysical anomalies identified during RI activities.

The excavated area was backfilled using on-site clean fill and clean imported fill material. Off-site borrow material included clean structural fill (8,500 tons) and ¾-inch crushed rock (1,500 tons). The ¾-inch rock was used to stabilize the excavation floor to provide a safe working platform for the earthmoving equipment and to raise the excavation floor to approximately 2 feet above groundwater elevation.

Dust and VOC emission control was conducted on a regular basis during all drums/containers removal and earth-moving activities. In addition, ambient air monitoring consisted of upwind and downwind sampling and analyses for total suspended particles, particulates less than 10 microns in diameter, and VOCs.

At completion of drums/containers remedial action, the Battelle Team decontaminated and demobilized all construction equipment, labor force and related materials associated with soil remedial activities. An in situ air sparging/soil vapor extraction system was constructed and is currently operating

to remediate VOCs contaminated groundwater plume within the 1.4-acre area in the north-northeast portion of the site.

The established remedial action objectives (RAOs) for this remedial action included (1) the removal of drums, other waste containers and soil clinging to the containers in the north-north eastern portion of IR Sites 1 and 2; and (2) maintaining industrial and utility maintenance worker exposure scenarios defined in the RI to prevent human exposure to soil that can result in excess life cancer risk (ELCR) greater than $1x10^{-4}$ for carcinogen and a hazard index greater than 1 for noncarcinogens. The RAOs have been achieved as a result of this remedial action.

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ABBREVIATIONS AND ACRONYMS

µg/kg	micrograms per kilogram
µg/stdm^3	micrograms per standard cubic meter
µCi	microcurie
AOPC	area of potential concern
ARAR	applicable or relevant and appropriate requirement
ASTM	American Society for Testing and Materials
bgs	below ground surface
BNI	Bechtel National, Inc.
BTU	British thermal unit
California Ocean Plan	Amendment of the Water Quality Control Plan, Ocean Waters of California
Cal-OSHA	California Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	chemical of concern
COPC	chemical of potential concern
cpm	counts per minute
CPT	cone penetrometer test
CQC	Contractor Quality Control
CWRCB	State of California Water Resources Control Board
°C	degrees Celsius
DCE	dichloroethene
DDT	dichlorodiphenyltrichloroethane
DGPS	differential mode global positioning (system)
DON	U.S. Department of Navy
DOT	U.S. Department of Transportation
dpm	disintegrations per minute
DTSC	Department of Toxic Substances Control
ELCR	excess lifetime cancer risk
EM	electromagnetic
FS	Feasibility Study
FWENC	Foster Wheeler Environmental Corporation
GPR	ground-penetrating radar
GPS	global positioning system
HDPE	high-density polyethylene
HHRA	human health risk assessment
HPGe	high purity germanium
IAS	in situ air sparging
IR	Installation Restoration
kW	kilowatt

LBNSY	Long Beach Naval Shipyard
LLRW	low-level radioactive waste
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
Mhz	megahertz
mR/hr	milliroentgen per hour
MSDS	Material Safety Data Sheets
msl	mean sea level
NAVSTA	Naval Station
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NSLB	Naval Station Long Beach
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
OVA	organic vapor analysis/analyzer
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCE	perchloroethene
pCi/g	picocurie per gram
PM_{10}	particulate matters less than 10 microns
POC	point of contact
PPE	personal protective equipment
ppm	parts per million
PRG	preliminary remediation goal
PVC	polyvinyl chloride
QC	quality control
RAO	remedial action objective
RASO	Radiological Affair Support Office
RCRA	Resource Conservation and Recovery Act
RI	remedial investigation
ROICC	Resident Officer in Charge of Construction
RPM	Remedial Project Manager
RTM	Remedial Technical Manager
RWQCB	Regional Water Quality Control Board
SCAQMD	South Coast Air Quality Management District
SFA	Supplemental Field Analysis
SI	Site Inspection
SIR	Subsurface Interface Radar
STLC	soluble threshold limit concentration
SVE	soil vapor extraction
SVOC	semivolatile organic compound
SWDIV	Southwest Division Naval Facilities Engineering Command

TBC	to be considered
TCE	trichloroethene
TCG	target cleanup goal
TCLP	Toxicity Characteristic Leaching Procedure
TDEM	time domain electromagnetic
TLV	threshold limit values
TPH	total petroleum hydrocarbons
TPH-extractable	total extractable petroleum hydrocarbons
TPH-purgeable	total purgeable petroleum hydrocarbons
TSDF	treatment, storage, and disposal facility
TSP	total suspended particulate
TTLC	total threshold limit concentration
UCL	upper confidence level
U.S. EPA	United States Environmental Protection Agency
UTL	upper tolerance limit
UTS	universal treatment standards
VC	vinyl chloride
VOC	volatile organic compound
WET	Waste Extraction Test

Section 1: INTRODUCTION

This Phase 1 Remedial Action, Soil and Debris Removal Report (Report) describes the implementation of a Non-Time-Critical Remedial Action for Installation Restoration (IR) Sites 1 and 2 at Naval Station Long Beach (NSLB), Long Beach, California (Figure 1). This Report describes and documents the implementation of the first phase of the remedial action and its effectiveness in achieving the remedial action objectives (RAOs) established in the *Final Record of Decision for Installation Restoration Sites 1 and 2, Naval Station Long Beach, Long Beach, California* (Battelle, 2000a). The objective of the Phase I remedial action is to locate, remove, and dispose of cans, drums, other debris, and soil clinging to the debris from the area overlying the groundwater contamination plume at the eastern end of the mole (Gull Park).

The U.S. Department of the Navy (DON), Southwest Division Naval Facilities Engineering Command (SWDIV), directed this remedial action in accordance with the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The DON, with state regulatory oversight, has been the lead agency for the remedial action at this site. The California Department of Toxic Substances Control (DTSC) and the Regional Water Quality Control Board (RWQCB), Los Angeles Region, have been providing state oversight. Under the DON's directives, Battelle and Foster Wheeler Environmental Corporation (FWENC) (Battelle Team) conducted the remedial action at IR Sites 1 and 2 under DON Remedial Action Contract Number N47408-95-D-0730.

This remedial action has been conducted pursuant to the CERCLA and the NCP under the delegated authority of the Office of the President of the United States by Executive Order 12580. This order provides the DON with authorization to conduct and finance remedial actions. SWDIV is the administering entity for the DON's CERCLA program at NSLB and, as such, manages the activities specific to development and execution of the recommended remedial action. This remedial action was implemented under the direction of the DON in cooperation with the DTSC and the RWQCB, Los Angeles Region.

The DON reviewed the operational history of IR Sites 1 and 2 and the site-specific soil investigative data and determined that certain areas of the site contained concentrations of benzene, trichloroethene (TCE), 1,1-dichloroethene (DCE), and vinyl chloride (VC) above the *Amendment of the Water Quality Control Plan, Ocean Waters of California* (California Ocean Plan) criteria [State of California Water Resources Control Board (CWRCB), 1995]. The DON initiated the subject remedial action to eliminate exposure pathways to human and ecological receptors and mitigate future impact to groundwater.

This section provides a brief background on the site including, location, history, and existing site information that are relevant to the implementation of the planned remedial action. More detailed information is presented in the *Final Feasibility Study for Installation Restoration Sites 1 and 2, Naval Station Long Beach, Long Beach, California* (Battelle, 1999).

1.1 Site Description. The NSLB is located on the south side of Terminal Island within the Los Angeles and Long Beach Harbor districts, approximately 24 miles south of downtown Los Angeles. The NSLB is made up of the former Naval Station (NAVSTA) at Long Beach and the Long Beach Naval Shipyard (LBNSY). The NAVSTA is located in the western portion of the former NSLB. IR Sites 1 and 2 are located within Operable Unit (OU) 1 at Former NAVSTA Long Beach, on the mole extending into Long Beach Harbor. The mole is approximately 500 feet wide and is bounded by Long Beach Harbor West Basin to the north and San Pedro Bay to the south. Figures 1 and 2 show the general vicinity and locations for IR Sites 1 and 2.

Beginning in the mid-1940s and continuing until the mid-1960s, landfilling of solid waste occurred within the boundaries of IR Sites 1 and 2. Beginning in the mid-1960s until 1980, the LBNSY Public Works Department, production shops, and ships stored waste drums of raw chemicals on pallets in the area defined as IR Site 2. Noticeable leakage of liquid from damaged drums reportedly occurred, including release of waste oils, acids, solvents, paints, and chromic acid. Total spillage of wastes to the ground surface was estimated to be less than 3,000 gallons.

The project boundary for the excavation activities is an area of approximately 1.4 acres and is characterized as the area where groundwater contaminants were observed to exceed the California Ocean Plan criteria. The excavation area (Figure 6) is located in the north-northeast portion of the site bordered by a road and a row of trees to the north, a helicopter pad to the east, and trees to the west and south. In the past, the site was used as a recreation area and was relatively flat except for a depression where previous excavation had taken place. The entire site had been covered with a layer of mulch.

During a remedial investigation (RI) conducted by Bechtel National, Inc., (BNI) in 1996, *Final Remedial Investigation Report, Installation Restoration Programs for Sites 1 through 6A, Naval Station Long Beach, Long Beach, California* (BNI, 1996), a geophysical survey performed in 1994 identified several primary areas of disposal at IR Sites 1 and 2. The objective of the geophysical survey was to detect and accurately map the lateral dimensions of individual and/or groups of items such as drums, containers, and other items over an area of approximately 1.4 acres. The methods used for the geophysical survey were time domain electromagnetic (EM) metal detection, and ground-penetrating radar (GPR). Figure 3 shows the location of these geophysical anomalies at IR Sites 1 and 2 within the proposed limits of excavation.

1.2 Physical Characteristics. This section describes the physical characteristics of IR Sites 1 and 2 and includes the physical settings and geology/hydrogeology.

1.2.1 Physical Settings. The NSLB property is located within the West Coast Basin, which extends from the Ballona Escarpment (at the south edge of Ballona Gap) and Baldwin Hills on the northwest, to the San Gabriel River on the southeast. The NSLB property is located within the Dominguez Gap area of the basin. Dominguez Gap consists of a nearly flat, broad, marine terrace platform that is incised by the roughly north-south oriented river channel, and eroded and partially backfilled by the ancestral Los Angeles River (BNI, 1996). Regional physiographic features and groundwater basins are shown in Figure 4.

The NSLB property is relatively flat, with less than 35 feet total relief. The highest portion of NSLB, the area along Pier T (eastern part of the LBNSY), varies from under 15 feet above mean sea level (msl) at its northern end to more than 20 feet above msl at its southern end. The lowest portion of the facility, the area northeast of Dry Dock 1, is lower than 10 feet below msl. The top of the mole is about 12 to 15 feet above msl.

1.2.2 Geology/Hydrogeology. Geologic and hydrogeologic information is based on the RI and IR Site Inspection (SI) borehole logs, cone penetrometer test (CPT) soundings, geotechnical laboratory data, and available historical data (BNI, 1996). Soils below IR Sites 1 and 2 consist of areas of burn/construction debris, hydraulically and mechanically placed fill materials and native sediments. Construction debris consists of gravel, sand, and silt mixtures with fragments of glass, wood, brick, metal, and net-like wastes. Fill materials exist to approximately 45 feet below ground surface (bgs) and consist of lenses and pockets of loose to medium dense, predominately fine-grained sand and silty sand, and soft to firm sandy silt and silt with local lenses of shells throughout. Native materials in the vicinity begin below the fill materials and consist of (in descending order): an 8-foot-thick layer of sandy silt to silt, a 10- to 12-foot-thick layer

of sand to silty sand, a 17-foot-thick layer of interbedded fine-grained silty clay to clay, sandy silt, and silty sand, and clean sand in the remaining depth of the borehole.

Geology in Gull Park areas of potential concern (AOPCs) 1 and 4 were further defined by the Supplemental Field Analysis (SFA) presented in the Final Appendix U of the *Final Remedial Investigation Report Installation Program for Sites 1 through 6A, Naval Station Long Beach, Long Beach, California* (BNI, 1997a). Within Gull Park, the undifferentiated mechanical/hydraulic fill materials consist of mixture of loose to medium dense, predominantly finer grained sandy silts, with lesser amounts of interlayered clayey silts, silts, and silty sands to sands. Based on the CPT soundings, the fill materials have a thickness of approximately 45 to 49 feet in the IR Sites 1 and 2, AOPC 4. The natural materials encountered under the fill materials in the vicinity consist of (in descending order): a 7- to 8-foot-thick sandy silt to clayey silt unit (bay deposits), an 11- to 22-foot-thick sand to silty sand unit (upper coarse-grained interval); and a series of interlayered sandy silt, silty sand, clayey silt, and silty clay (fine-grained interval) to the bottom of the CPT soundings (80 feet bgs).

The depth to groundwater beneath IR Sites 1 and 2 is between 9 to 11 feet bgs. The depth to groundwater defines the thickness of the vadose zone beneath the site. Groundwater monitoring data indicate that the vadose zone is approximately 10 feet thick.

1.3 Nature and Extent of Contamination. This section summarizes the source characteristics, distribution of contaminants (surface and subsurface in soil and in groundwater), contaminant fate and transport, results of the human health risk assessment (HHRA), and analytical data quality for IR Sites 1 and 2. Most of the information appearing in this section is contained in the RI report (BNI, 1996). This section also includes information from SFA and from long-term groundwater monitoring performed after the completion of the RI report (BNI, 1997a).

Several screening criteria were used to evaluate the results from the soils and groundwater investigation performed in the RI. The screening criteria included soil and groundwater statistical background concentrations, industrial soil and groundwater preliminary remediation goals (PRGs), maximum contaminant levels (MCLs), and California Ocean Plan criteria (CWRCB, 1995). Contaminants were screened against the *California Ocean Plan,* criteria (CWRCB, 1995) because of the potential for migration of contaminants to the nearby marine ecosystem.

These several screening criteria (for example, background concentrations and PRGs) were used to determine a list of chemicals of potential concern (COPCs). These COPCs then were used as input for the HHRA. All usable analytical data collected during the RI were evaluated in the HHRA calculations in parallel with the screening process. Table 1, taken from the RI report (BNI, 1996), summarizes the results of the HHRA. Background concentrations used for COPC screening were determined by statistical analysis of data from studies conducted on and in the vicinity of NSLB and were supplemented by geochemical verification (BNI, 1996). The mole and other portions of NSLB were formed using hydraulic fill, constructed fill, and soils of questionable origin. The background samples were selected to represent surrounding conditions that have not been influenced by site activities or releases. Therefore, the screening evaluation did not result in a reduction of the data set used for the risk assessment (BNI, 1996). Also, these criteria were used to determine COPCs, but were not considered as cleanup objectives for IR Sites 1 and 2.

1.3.1 Source Characteristics. The sources of contamination associated with IR Sites 1 and 2 are based on (1) aerial photograph reviews, (2) the geophysical investigation's delineation of trench and earthwork areas, (3) information from previous investigations, and (4) the chemical characteristics of IR Sites 1 and 2 (BNI, 1996).

Potential contaminant sources for IR Sites 1 and 2 (surface and subsurface soils at Gull Park) consist of former disposal operations, which included landfilling of solid wastes by cut-and-fill methods in the northeastern sections of the site and earthwork/stained areas on the southern half of the site. The lateral extent of potential disposal areas on the eastern portion of the site was defined by the geophysical investigation. Landfilling reportedly began in the mid-1940s (DON, 1983) and was shown to continue by aerial photographs taken in 1950, 1952, and 1953. A 1958 photo seems to indicate that landfilling operations had ceased, but the *Initial Assessment Study* indicates that landfilling continued through the mid-1960s (DON, 1983). This study reported that asbestos insulation, paint chips, and sandblast grit comprised the largest quantities of hazardous wastes disposed of in the trench areas. There are not any reports of large quantities of liquid or chemical wastes disposed of within the cut-and-fill operations (DON, 1983). Waste oils used for dust suppression may have been sprayed during on-site operation. These liquids may explain the detection of long-chain organic chemicals within IR Sites 1 and 2. By 1962, this area apparently was used as a pipe laydown area that might have contributed organic chemicals detected in soils within the sites. By 1964, ball fields at the sites were established and the use and/or disposal of hazardous materials at the sites are assumed to have ceased, with the potential exception of pesticides. During a petroleum response action, drums and other waste containers were identified in shallow soils at Gull Park (AOPC 4). Further excavation was halted. There are no available documents that describe the discovery or define the nature and extent of the area.

1.3.2 Distribution of Contaminants in the Surface and Subsurface Soil. This section describes the distribution of contaminants in the surface and subsurface soil at IR Sites 1 and 2 by presenting results of the soils investigations from the RI report and the SFA. Contaminant screening for the RI considered PRGs developed by the United States Environmental Protection Agency (U.S. EPA), Region 9 (U.S. EPA, 1994). The RI used the 1994 PRGs, which were the most current values available at the time the RI was done. Additional risk assessment done for the Feasibility Study (FS) included consideration of updated PRG values from U.S. EPA Region 9 (U.S. EPA, 1998).

1.3.2.1 Results of the RI Soils Investigation. Individual contaminant concentrations for organic and inorganic compounds are presented in the *Final RI Report* (BNI, 1996). Contaminant concentrations in soils exceeding non-detected values were screened against statistical backgrounds and industrial PRGs (U.S. EPA, 1994). These screening criteria generated COPCs that were analyzed in the HHRA. Organic compounds were not detected above the soil screening criteria at IR Sites 1 and 2. The classes of organic compounds included in the COPC screen were polynuclear aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs). The only COPCs detected above screening criteria at AOPCs 1 and 4 were arsenic and cobalt. Table 2 was taken from the *Final RI Report* (BNI, 1996) and presents all the COPCs detected in soils above the screening criteria at IR Sites 1 and 2. The data indicates that the arsenic and cobalt concentrations were very close to the background concentrations.

1.3.2.2 Results of the SFA Soils Investigation. The SFA was performed by BNI after the RI, and the results were submitted as Final Appendix U of the *Final RI Report* (BNI, 1997a). Soil samples were collected at IR Sites 1 and 2 (AOPCs 1 and 4) during the SFA and the presence of both chlorinated and nonchlorinated VOCs was identified. Chlorinated VOCs detected in soil samples included *cis*-1,2-DCE, *trans*-1,2-DCE, 1,2-DCE (total), TCE, perchloroethene (PCE), and VC. TCE was detected at a maximum concentration of 780 micrograms per kilogram (μg/kg) at Sample Location SB-1-07 (at 8.0 to 8.5 feet bgs). Nonchlorinated VOCs also were detected in the soil samples collected from IR Sites 1 and 2 (AOPCs 1 and 4). Nonchlorinated VOCs detected in the soil samples included acetone, 2-butanone, carbon disulfide, ethylbenzene, toluene, and total xylenes. Table 3, taken from the SFA report (BNI, 1997a), provides a summary of the VOCs detected during both the RI and the SFA, the maximum concentration detected for each analyte, and a comparison of the maximum detected concentration for each VOC and its industrial PRG (U.S. EPA, 1994).

The comparison of industrial PRGs to the detected VOCs in soil samples and their maximum concentrations indicated that all detected VOCs in soils, with the exception of VC, are present at concentrations below industrial PRGs. VC was detected at an estimated concentration of 340 μg/kg or approximately 31 times the industrial PRG [based on an excess lifetime cancer risk (ELCR) of 1×10^{-6}]. The ratio of the maximum detected VC concentration to the industrial PRG drops to 0.31 when an ELCR of 1×10^{-4} is used.

1.4 Human Health Risk Assessment. The HHRA for IR Sites 1 and 2 are presented in the *RI Report* (BNI, 1996) and do not include information collected during the SFAs at the site after completion of the *RI Report*.

For chemicals in soil, potential exposure pathways and routes for industrial and utility maintenance workers are direct contact with soil through ingestion, dermal contact, and inhalation of volatile chemicals released to the atmosphere from the soil and chemicals absorbed to soil particles entering the atmosphere through erosion.

For chemicals in groundwater, direct exposure pathways were not assumed for industrial workers because groundwater beneath IR Sites 1 and 2 is saline and non-potable and is considered to be of non-beneficial use by the Department of Water Resources (BNI, 1996). However, for utility maintenance workers who may work in trenches containing some groundwater, exposure may occur through direct dermal contact with the water. Both industrial and utility maintenance workers may be indirectly exposed through inhalation of volatile chemicals released from groundwater into the outdoor air. Only exposure through dermal contact was evaluated in the risk calculations.

The ELCR calculated in the HHRA is 4.7×10^{-6} for utility maintenance workers. These risks fall within the U.S. EPA's target range of 1×10^{-6} to 1×10^{-4} for managing cancer risks at sites where industrial exposure scenarios are applied. That is, the HHRA showed that as long as land use is industrial, between 1 in 1 million and 4.7 in 1 million workers have the potential to develop cancer during their lifetimes as a result of working on the sites. This risk is defined by the U.S. EPA as generally acceptable under an industrial scenario.

The potential for systemic toxicity was insignificant at IR Sites 1 and 2 (BNI, 1996). Lead did not present a significant risk. Table 1, taken from the *RI report* (BNI, 1996), summarizes the results of the HHRA. The HHRA showed that there are not any chemicals of concern (COCs) or APOC associated with IR Sites 1 and 2, provided that land use is industrial in nature.

1.5 Summary of Environmental Risks. An ecological risk assessment was not performed for the site because pathways were not identified and because the future use of the site is industrial in nature. However, ecological risks associated with chemicals that might enter sediments of the Long Beach Harbor West Basin from soil or groundwater on NAVSTA Long Beach were addressed in the *Final RI Report for IR Site 7, Harbor Sediments* (BNI, 1997b).

The SFAs concluded that concentrations of VOCs in soils, as evident in soil samples, were not at levels sufficient to serve as a potential source of contaminants to groundwater. However, debris remaining on IR Sites 1 and 2 could be a potential source of future contamination (BNI, 1997a).

Based on a comparison of the VOC analytical results for groundwater with the *California Ocean Plan* criteria (CWRCB, 1995), four VOCs (1,1-DCE, benzene, TCE, and VC) were found to be present in groundwater at concentrations in excess of the criteria. Evaluation of the dilution of these contaminants by natural processes suggested that the actual concentrations that would be discharged into

the nearby ocean waters would be less than the maximum concentrations detected. However, the lateral distribution of these contaminants and their concentrations indicated a potential for impact to the waters of the West Basin of Long Beach Harbor.

The SFA analytical data further indicated that a commingled chlorinated and nonchlorinated VOC plume exists in the groundwater beneath the north-northeast part of IR Sites 1 and 2 and that VOCs are present in groundwater at concentrations in excess of the *California Ocean Plan,* criteria (CWRCB, 1995). This plume potentially could impact nearby ocean waters.

Section 2: ORGANIZATION OF THE REMEDIAL ACTION

The DON Remedial Project Manager (RPM) for this project is Mr. Ed Dienzo. Mr. Dienzo is responsible for overall project management, budget control, schedule maintenance, regulatory agency contact, and community relations. Mr. Tom Johnson is the primary point of contact (POC) for issues related to the Port of Long Beach usage of the site and surrounding area. Mr. Paul Maize is the Resident Officer in Charge of Construction (ROICC) and is responsible for the technical oversight and quality control (QC) of the field activities. Mr. Kofi Asante-Duah is the DON Remedial Technical Manager (RTM) responsible for the technical oversight and review of the project documents.

Battelle Team's Project Manager, Dr. Abraham Chen, is responsible for general project administration. Dr. Chen oversees budget, schedule, document preparation, and ensures the quality of all project activities and deliverables. The drums/containers remedial task manager, Mr. Abram Eloskof, coordinates the field activities with the technical staff and the Program QC Manager to ensure that all field activities are in compliance with the project specification. Ms. Lili Wang serves as the in situ air sparging (IAS)/soil vapor extraction (SVE) Task Manager and coordinates IAS/SVE pilot testing, system construction, and troubleshooting. Ms. Wang is responsible for all operation and maintenance activities relating to the IAS/SVE system.

2.1 Points of Contact. The following is a list of names and telephone numbers for SWDIV, Battelle, FWENC, and other key personnel involved with the project:

Agency	Contact	Project Title
Naval Facilities Engineering Command Southwest Division 1230 Columbia Street, Suite 1100 San Diego, CA 92101	Mr. Ed Dienzo Code 5BN.ED (619) 532-0920	RPM
Naval Weapons Station Seal Beach 800 Seal Beach Boulevard Building 230 Seal Beach, CA 90740-5000	Mr. Paul Maize Code 5NL0 PM (562) 626-7962	ROICC
Naval Facilities Engineering Command Southwest Division 1220 Pacific Highway San Diego, CA 92132-5190	Mr. Kofi Asante-Duah Code 4EN2.KA (619) 532-0792	RTM
Naval Facilities Contracting Office Port Hueneme, CA 93043-4301	Ms. Glenda Downing (805) 982-2119	Contract Officer
Naval Facilities Contracting Office Port Hueneme, CA 93043-4301	Mr. Scott Wight (805) 982-1551	Contract Officer's Technical Representative
Naval Facilities Engineering Command Southwest Division 1220 Pacific Highway San Diego, CA 92132-5190	Mr. Narciso Ancog Code 4EN3.NA (619) 532-2540	Quality Assurance Officer
Port of Long Beach 925 S. Harbor Plaza Long Beach, CA	Mr. Paul Ward (562) 437-0041	POC

Agency	Contact	Project Title
California Regional Water Quality Control Board 320 W. 4th Street, Suite 200 Los Angeles, CA 90013	Ms. Ana Townsend (213) 576-6738	RWQCB Representative
California Environmental Protection Agency Department of Toxic Substances Control Office of Military Facilities Southern California Region 5796 Corporate Avenue Cypress, CA 90630	Ms. Sue Hakim (714) 484-5381	DTSC-RPM
U.S. Environmental Protection Agency 75 Hawthorne Street San Francisco, CA 94105	Mr. Martin Hausladen	U.S. EPA Project Manager
Battelle 505 King Avenue Columbus, OH 43201	Mr. Godage Wickramanayake (614) 424-4698	Battelle Program Manager
Battelle 505 King Avenue Columbus, OH 43201	Mr. Abraham Chen (614) 424-5741	Project Manager
Battelle 505 King Avenue Columbus, OH 43201	Ms. Terri Pollock (614) 424-5883	Battelle Quality Assurance Officer
Battelle 505 King Avenue Columbus, OH 43201	Ms. Lili Wang (614) 424-7723	IAS/SVE Task Manager
Foster Wheeler Environmental Corporation c/o Naval Weapons Station 800 Seal Beach Boulevard Seal Beach, CA 90740	Dr. Jamshid Sadeghipour (562) 936-5880	FWENC Program Manager
Foster Wheeler Environmental Corporation c/o Naval Weapons Station 800 Seal Beach Boulevard Seal Beach, CA 90740	Mr. Abram Eloskof (562) 936-5886 Cell (714) 620-5530	Drums/Containers Remedial Task Manager
Foster Wheeler Environmental Corporation 1230 Columbia Street, Suite 600 San Diego, CA 92101	Mr. Roger Margotto (619) 471-3503	Project Environmental Health and Safety Manager
Foster Wheeler Environmental Corporation c/o Naval Weapons Station 800 Seal Beach Boulevard Seal Beach, CA 90740	Mr. Luis Gomez (562) 598-6150 ext. 5884	Site QC Engineer
Foster Wheeler Environmental Corporation c/o Naval Weapons Station 800 Seal Beach Boulevard Seal Beach, CA 90740	Ms. Mary Schneider (562) 598-6150 ext. 5881	Drums/Containers Remedial Task Chemist and QC Manager

2.2 Applicable or Relevant and Appropriate Requirements. The NCP states, "Removal actions ... shall to the extent practicable considering the exigencies of the situation, attain applicable or relevant and appropriate requirements (ARARs) under Federal environmental or state environmental or facility citing laws" [40 Code of Federal Regulations (CFR) 300.415(i)]. Potential ARARs developed from a variety of federal and state sources by the DON were reviewed for their relevance to IR Sites 1 and 2. The detailed listing and evaluation of ARARs are listed in the *Final Record of Decision*, Appendix E (Battelle, 2000a). The following subsections provide an overview of the ARAR process and a summary of those ARARs that were determined to have the potential to affect the development of RAOs for IR Sites 1 and 2.

2.2.1 ARARs Overview. Identification of ARARs is a site-specific determination and involves a two-part analysis: first, a determination of whether a given requirement is applicable; then, if it is not applicable, a determination of whether it is relevant and appropriate. A requirement is deemed applicable if the specific terms of the law or regulation directly address the COC, remedial action, or place involved at the site. If the jurisdictional prerequisites of the law or regulation are not met, a legal requirement may nonetheless be relevant and appropriate if the site's circumstances are sufficiently similar to circumstances in which the law otherwise applies and if it is well suited to the conditions of the site.

A requirement must be substantive in order to constitute an ARAR for activities conducted on site. Procedural or administrative requirements such as permits and reporting requirements are not ARARs.

In addition to ARARs, the NCP provides that where ARARs do not exist, agency advisories, criteria, or guidance are "to be considered"(TBC) useful "in helping to determine what is protective at a site or how to carry out certain actions or requirements" (55 Federal Register 8745). The NCP preamble states, however, that provisions in the TBC category "should not be required as cleanup standards because they are, by definition, generally neither promulgated nor enforceable, so they do not have the same status under CERCLA as do ARARs."

As the lead Federal agency, the DON has the primary responsibility for the identification of Federal ARARs at IR Sites 1 and 2 at NSLB. As the lead state agency, DTSC has the responsibility for identifying state ARARs. DTSC provided information describing sources of state ARARs for IR Sites 1 and 2, and this was incorporated into the ARAR review for the site

ARARs and TBCs are generally divided into three categories: chemical-specific, location-specific, and action-specific requirements. Chemical-specific ARARs are numeric values that represent health-based or risk-based standards that are modified to consider the economic and technical feasibility of implementation. MCLs are examples of chemical-specific ARARs. Location-specific ARARs govern activities to protect resources at the location. Examples of location-specific ARARs include regulations that protect floodplains, wetlands, endangered species habitat, or archaeologically/historically significant resources. Action-specific ARARs are technology- or activity-based requirements or restrictions. Examples of action-specific ARARs include monitoring requirements, effluent discharge limits, hazardous waste manifesting requirements, and occupational health and safety standards.

2.2.2 ARARs Affecting Remedial Action Objectives. This section provides a summary of the effect of ARARs in determining RAOs for soil.

Several chemical-specific, location-specific, and action-specific ARARs were identified that affected the development of RAOs and target cleanup goals (TCGs) for the site. The primary ARARs for this soil remedial action included the federal and state hazardous waste management regulations. Based on the RI results and the nature and concentrations of the contaminants at IR Sites 1 and 2, concentration

levels of some COCs in some soil samples could be classified as toxic and, therefore, possibly a Resource Conservation and Recovery Act (RCRA) hazardous waste. The Toxicity Characteristic Leaching Procedure (TCLP) was conducted to determine whether contaminated stockpiled wastes materials would be classified as RCRA hazardous waste so that they can be managed in accordance with hazardous waste treatment, storage, or disposal requirements, including land disposal regulations treatment standards.

California environmental health standards for the management of hazardous waste were approved by the U.S. EPA as a component of the federally authorized California RCRA program. Therefore, soils excavated from IR Sites 1 and 2 would have to be evaluated for hazardous waste characteristics based on the total threshold limit concentrations (TTLCs) and soluble threshold limit concentrations (STLCs). Soil not classified as RCRA hazardous waste might be classified as non-RCRA California hazardous waste. Both the TCLP and California Waste Extraction Test (WET) were determined to be necessary to fully classify the soil at IR Sites 1 and 2. Soil that was not classified as RCRA hazardous or non-RCRA California hazardous was determined to be classified as nonhazardous.

Excavation activities were performed in accordance with certain regulatory requirements. Fugitive dust emissions were expected from soil excavation and stockpiling operations during the remedial action. Substantive state requirements of South Coast Air Quality Management District (SCAQMD) Rules 401(b)(1)(A), 403, 404, and 405 for fugitive dust emissions and 1166 for VOC emissions were identified as ARARs.

In addition, the substantive provisions of the following requirements were identified as ARARs for the development of the RAOs:

- Coastal Zone Management Act
- Endangered Species Act
- Migratory Bird Treaty Act
- California Fish and Game Codes 2080 and 3005
- Hazardous Material Transportation (CFR 171 and 172).

2.3 Remedial Action Objectives. RAOs for surface and subsurface soils at IR Sites 1 and 2 have been established for soils based on risk-based concentrations, ARARs, and background concentrations to meet the following objectives:

- Locate and remove drums, other waste containers, and soil clinging to the containers in the north-northeast portion of IR Sites 1 and 2.

- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI to prevent human exposure to soil containing carcinogens that result in ELCR greater than 1×10^{-4}.

- Maintain industrial and utility maintenance worker exposure scenarios defined in the RI to prevent human exposure to soil containing chemical concentrations that result in a hazard index greater than 1.

2.4 The Selected Remedy. A *Final ROD* (Battelle, 2000a) was prepared to identify and select remedial actions for soil and groundwater contamination at IR Sites 1 and 2. Three combined alternatives for soil and groundwater were identified and considered in the FS (Battelle, 1999). These alternatives included no further action (Alternative 1), land use controls (deed restrictions) and long-term groundwater monitoring (Alternative 2), and land use controls (deed restrictions), IAS/SVE, and long-term

groundwater monitoring (Alternative 3). The third alternative was selected because it provides protection of human health and the environment, complies with ARARs, and offers the best balance of other evaluation criteria, including long-term effectiveness and permanence, reduction of toxicity, mobility and volume, short-term effectiveness and implementability, cost, and regulatory and community acceptance. In addition, the ROD included a provision that site remediation include actions to locate, remove, and dispose of cans, drums, other debris, and soil clinging to the debris from the area overlying the groundwater contamination plume at the eastern end of the mole (Gull Park).

Section 3: REGULATORY/PERMITTING

3.1 Air Quality. The remedial action needs to comply with the applicable requirements of SCAQMD. The SCAQMD Rule 1166 applies to soil excavation operations. As a CERCLA site, the excavation activities at IR Sites 1 and 2 did not require an approval from the SCAQMD. However, in order to ensure compliance of the project with all applicable air quality regulations and requirements, a "Rule 1166 Contaminated Soil Mitigation Plan" was submitted to the SCAQMD. An approval of the Plan was obtained from the SCAQMD, Plan Number 375066, prior to the startup of the operation. All of the project activities were conducted in compliance with the requirements of SCAQMD Rule 1166 and the approved Plan Number 375066. Field activities were conducted in a manner to minimize dust emissions and nuisance beyond the property line.

Additionally, air quality monitoring was conducted to measure the concentrations of total suspended particulate (TSP), particulate matters less than 10 microns (PM_{10}) in diameter, and VOCs. Sampling was performed to ensure that the concentrations of TSP, PM_{10}, and VOCs in the ambient air would not cause any potential concerns. Air quality sampling was conducted during the excavation, backfilling, and all project activities requiring movement and/or displacement of soil. All air quality concentrations of the sampled pollutants were below the applicable threshold limit values (TLV). Additional information on air quality monitoring and testing is provided in Section 7.0.

3.2 Excavation Notification. FWENC holds a T-1 Annual Trench/Excavation Permit (2000-903457), a copy of which is included in Appendix A-1. Prior to performing excavation activities at IR Sites 1 and 2, an Activity Notification Form was submitted to the Department of Industrial Relation, Division of Occupational Safety and Health, Torrance office, as required by the state of California. The intent of the notification was to inform the agency that excavation activities are to occur at the sites.

3.3 Underground Service Alert Notification. Prior to performing remedial activities, Dig Alert was notified of the planned demolition and excavation activities. An initial notice was obtained October 2, 2000, which was valid for 15 days. Dig Alert then informed Long Beach Gas Company, Verizon, Port of Long Beach, and Southern California Edison to mark/locate any site utilities.

On October 9, 2000, a Dig Alert representative, Mr. Rod Gibson, of Underground Technology Incorporated arrived at the site and explained to the Battelle Team Superintendent that the entire sites were government property with no recorded easements. Therefore, utility records do not exist for the planned excavation area. Mr. Paul Maize, DON representative, had provided FWENC an as-built drawing from the DON Public Works Department that only showed an abandoned electrical and phone line, which terminated at the helicopter pad. These lines were encountered and removed during excavation.

3.4 Well Destruction Permits. Well destruction permits were obtained from Long Beach Health Department. Copies of the permits are included in Appendix A-2. Well destruction permits were required for abandonment of known existing monitoring wells within the 1.4-acre area at the site. These wells were located within the boundaries of the planned excavation areas as shown on Figure 5.

Section 4: PRE-REMEDIAL ACTIVITIES

This section describes additional activities performed at IR Sites 1 and 2 to further define the locations of buried containers/drums within the planned excavation area and to prepare the site for the remedial action by removing existing trees and monitoring wells within the excavation boundaries. In addition, a topographic land survey of the planned excavation area was prepared.

4.1 Pre-Remedial Surveys. Pre-remedial action surveys consisted of a geophysical survey and a baseline land survey. The specific procedures used in these surveys are described in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b). The results of the survey are presented below.

4.1.1 Geophysical Survey. The purpose of the geophysical survey was to identify the boundaries of the suspected disposal field including suspected burial trenches, and any subsurface utilities within the planned excavation limits. A geophysical survey was conducted by the Battelle Team using GPR and an EM instrument. The results of the geophysical survey identified a disposal field including five burial trenches approximately 10 feet wide by 75 feet long each. Generally, the identified disposal field fell within the proposed area of excavation except for one burial trench along the western edge that extended approximately 40 feet beyond the planned limits.

4.1.1.1 Objective. The primary objective of the geophysical investigation was to detect and accurately map the location of individual and/or groups of metallic objects such as drums, larger containers, and non-metallic containers (glass, plastic, and so forth). Remediation personnel at the site used the geophysical data to guide intrusive operations so the excavation phase of the project would be performed in the safest and most efficient manner possible.

4.1.1.2 Instrumentation. A Geonics EM61 time domain electromagnetic (TDEM) metal detector and a Geophysical Survey Systems Incorporated, Subsurface Interface Radar (SIR) 2 GPR unit were used to acquire data for this project. The Geonics EM61 utilized two coaxial receiver coils to measure the residual magnetic field generated by conductive and/or magnetic materials. The Geonics EM61 employed by the Battelle Team was designed to measure the residual magnetic field at a time when the response from conductive and/or magnetic objects was maximized compared to the response from most earth materials. The use of two receiver coils also made it possible to differentiate, in a simplistic fashion, shallow versus deeper objects. An additional benefit of the specific design of the Geonics EM61 system was that it permitted a more focused observation of the subsurface in areas of cultural interference, as well as areas characterized by a high spatial density of subsurface objects. This benefit was due to both the mechanical design and operational parameters of the instrument, as well as the inherent nature of active EM fields, which diminished in magnitude at a much higher rate than other sensor technologies such as magnetometry.

The primary factors that affect the detectability of objects or features with TDEM methods included volumetric size, shape, and orientation, distance from the sensor, and the material properties contrast between the object or feature and the surrounding materials.

Ground Penetrating Radar

GPR is a geophysical technique that propagates short wavelength (high frequency) EM waves into the subsurface and records those waves reflected back by mediums that posses contrast in electrical properties. The GPR record is often displayed as a distance (horizontal) versus time (vertical) plot and can be recorded digitally to allow for post-acquisition processing. Although a GPR record is a complex composition of interface patterns, loss mechanisms (geometric, mechanical, and chemical), and reflections, its picture-like character can make it a very useful tool to delineate subsurface features. The depth of investigation of radar is generally quite shallow due to the high frequencies utilized; however, this disadvantage is partially offset by the increased resolution it offers over other geophysical techniques.

The primary criterion for GPR antenna selection is the anticipated depth of the target or feature sought. The maximum depth of investigation of the antenna is dependent upon the frequency of the antenna used, and as discussed above, the conductivity of subsurface materials. In general, a low frequency antenna will provide a greater depth of penetration but have lower resolution than a high frequency antenna. Some antennas are unshielded (that is, radiate energy in all directions) and can produce reflections from objects above the ground surface. Caution should be exercised when interpreting data acquired with an unshielded antenna.

The SIR 2 GPR used for this project consisted of a digital signal-recording device and associated color monitor, 300 and 500 megahertz (Mhz) antennas, a survey wheel (measures distance traveled by the antenna), and associated electronics and system cables.

4.1.1.3 Data Acquisition. TDEM and GPR data were acquired over approximately 2.5 acres from October 1 through 4, 2001. Two Leica SR530 global positioning systems (GPS) used in differential mode global positioning (DGPS) were used to provide position data for the TDEM and GPR measurements. The DGPS base station location was positioned at Monitoring Well MW-1-13.

Numerous traffic cones spaced at approximately 100-foot intervals were positioned over the survey area in the direction of travel of the geophysical instrumentation to provide real-time navigation assistance (that is, waypoints). TDEM data were acquired at a nominal line spacing of approximately 3 to 4 feet and a station spacing of approximately 0.3 feet in all accessible areas. GPR data were acquired at a line spacing of approximately 4.5 feet and a station spacing of approximately 0.1 feet. The ground location for all geophysical measurements is referenced to the North American Datum of 1927, California State Plane Grid System Zone 7, in feet. Data were not acquired over terrain characterized by excessive slopes (for example, large debris piles), or in localized, densely vegetated areas that were not cleared of vegetation.

Concurrent with the geophysical survey, the DGPS was used to create a site features map of the area. Aboveground debris and obstructions (for example, metal, wood, debris piles, bricks, soil piles, and so forth) and constructed cultural features such as guardrails, wells, and concrete pads were surveyed to aid in a better understanding of the significance of geophysical anomalies detected.

4.1.1.4 Data Processing. The TDEM data were processed with internally developed software on a daily basis. In general, the processing sequence consisted of ensuring the repeatability of the data measurements and merging the sensor measurements with the position data from the GPS instrumentation. The processing parameters are stored in digital computer files so that the processing sequence can be reconstructed in the future, if necessary.

The GPR data were uploaded from the SIR 2 to a laptop computer on a daily basis and reviewed for correct profile length and relative signal quality.

Color-coded maps of the TDEM signal intensity from the lower coil (Channel 2) were generated to exhibit areas of large-scale waste disposal (Figure 3). Information from the site features survey was also transcribed onto the maps of sensor intensity to aid in a better understanding of the objects and features detected.

4.1.1.5 Data Interpretation. The geophysical data were interpreted by assessing the signal intensity and shape of the measurements from the TDEM data. Information from the site features survey was utilized to confirm responses from large, aboveground objects and features. Significant instrument responses from cultural features include guardrails along the roads west and north of the helicopter pad, a reinforced concrete pad in the northwest of the survey area, the helicopter pad at the eastern terminus of

the survey area, numerous monitoring wells, a debris pile directly west of HP-28, and the fence posts present below the surface in the former playground area (central section of survey area).

Features that were interpreted to be burial trenches were demarcated on the color-coded image (blue dotted lines). Figure 3 demonstrates five trenches delineated by the results of the geophysical data. Blue "x" symbols within each trench represent suggested sampling locations for excavation personnel.

Two large burial pits were identified in the central portion of the survey area near the former playground. Three smaller burial areas are present near the existing open excavation pit directly west of Monitoring Well MW-1-13. A solid blue line delineates the lateral boundaries of the burial pits, and circular blue symbols represent suggested sampling locations within each designated area.

In addition to the burial features already discussed, there were indications of numerous large, isolated metal targets throughout the survey area. Targets with these characteristics were identified with a blue mining symbol.

Analysis of the GPR data did not exhibit any areas of large-scale non-metallic waste disposal within the survey area.

4.1.2 Land Survey. A baseline land survey was performed to develop a site plan of the general area to establish initial elevations of the planned excavation area. Ron Martin & Associates performed the survey. Once the baseline survey was established, limits of the planned excavation area were laid out from the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b). The five identified burial trenches also were laid out for intrusive activities to commence.

Prior to conducting any intrusive activities at the site, FWENC personnel reviewed existing utility drawings, notified Southern California Underground Service Alert, and reviewed the geophysical survey data. The only utility noted was an abandoned phone line along the northern edge of the site that ran to the helicopter pad as indicated on the DON as-built drawings. Land survey data are included in Appendix B.

4.2 Monitoring Wells Abandonment. On October 11, 2000, six groundwater monitoring wells were destroyed on site in preparation of excavation activities. The destroyed wells were located within the proposed excavation limits. The wells are identified as MW-1-09, MW-1-10, MW-1-11, MW-1-12, and MW-1-13. An additional groundwater monitoring well, located approximately 15 feet east of MW-1-12, was discovered upon clearing the site of ground cover. The well identification is unknown. For reporting purposes, the well is identified herein as MW-1-XX (Figure 5).

Each monitoring well was destroyed in accordance with the City of Long Beach Department of Environmental Health Well Permit Requirements. The issued well destruction permit is identified as Permit No. 0617 (Appendix A2). APEX Environmental Drilling, located in Huntington Beach, California, was subcontracted by FWENC to perform well destruction activities. Destruction activities were performed under the guidance of a FWENC geologist and consisted of the following:

- Removal of surface protection
- Removal of well casing
- Backfilling of well borehole

Surface protection features associated with each well, with the exception of MW-1-XX, consisted of a concrete pad, bollards (crash-posts), and a monument casing. Surface protection at MW-1-XX

consisted of a concrete pad and monument cover. A pneumatic hammering device connected to an air compressor was used to break up concrete and loosen the crash-posts and monument casing. A chain attached to the bucket of a loader was used to remove the crash-posts and well monuments.

Prior to the removal of the well casing, the total depth of each well was verified using a measuring tape. For each well, the well casing was removed by a wire-line pulley system. The entire well casing was extracted as one section, placed on the ground surface, and cut into 10-foot sections. Concrete debris, bollards, well monuments, and destroyed well casings were stockpiled on site pending transportation off site to a certified landfill.

Monitoring Wells MW-1-09, MW-1-10, MW-1-11 were constructed of 4-inch-diameter polyvinyl chloride (PVC) casing; Monitoring Wells MW-1-12 and MW-1-13 were constructed of 4-inch-diameter stainless steel casing; and MW-1-XX was constructed of 2-inch-diameter PVC. Each well's total depth was 25 feet bgs and consisted of 15 feet of screen and 10 feet of blank casing.

After the well casing was removed, a tremie pipe was lowered downhole and bentonite slurry (Volelay®) was tremied to approximately 1 foot bgs. Approximately 20 gallons of bentonite slurry was used for each 4-inch-diameter well boring and 10 gallons used for the 2-inch-diameter well boring, MW-1-XX. Bentonite chips were placed in each borehole from 1 foot bgs to ground surface and hydrated. Copies of well abandonment logs are included in Appendix C.

Air monitoring activities were conducted during well destruction activities to ensure worker health and safety. VOCs were not detected in the worker breathing zone.

4.3 Tree Removal. Prior to conducting intrusive activities at the site, FWENC removed approximately 8 inches of mulch that covered the excavation area, stockpile area, and the temporary haul road. A loader was used to place the mulch in a berm between the exclusion zone and the existing tree farm toward the west.

Nineteen medium-size trees (15-foot-tall eucalyptus) along the northern perimeter road of the mole were removed (see Figure 6). These trees were removed by Asplundh Tree Experts Co. using chain saws and tree chippers. The mulch produced was added to the mulch berm along the western edge of the site and was spread across the site once intrusive activities were complete.

The tree stumps were removed using an excavator and placed into three 40-cubic-yard roll-off containers. The tree stumps were treated as hazardous material and sent to an approved hazardous waste landfill due to their contact with the soil determined to be non-RCRA California hazardous waste.

Section 5: ACTUAL WORK PERFORMED

This section provides a detailed description of the specific field activities for implementation of the remedial action. These activities followed the planned procedures discussed in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b) with certain exceptions and deviations. These changes were for the most part an enhancement to the original planned procedures or actions. The changes are described and listed in detail in Section 5.12 (Table 15) of this report. Field construction activities were initiated on October 9, 2000, with demolition and removal of the concrete foundation and asphalt paving at the site. The excavation of the impacted soil was initiated on October 26, 2000, and completed by January 10, 2001. The transportation and disposal of the impacted soil commenced on December 18, 2000, after evaluation of the initial stockpile analytical data. Loading operations and hauling of all contaminated material to an off-site disposal facility was completed on February 16, 2001. Upon completion of the soil remedial activities, the Battelle Team restored the site and removed and demobilized all construction equipment and personnel from the site, with the exception of the IAS/SVE work force. Additional site activities were conducted from April 2, 2001, through May 31, 2001, to survey the remaining areas of geophysical anomalies and removal and characterization of potential low-level radioactive waste (LLRW) consisting of radium-226 point sources and sandblast grit (Battelle, 2001). The timing of the site remedial activities was critical to avoid the nesting season of endangered bird species utilizing the trees at Gull Park.

The following is a list of the major activities performed during the IR Sites 1 and 2 remedial action:

- Preparatory activities including procurement and permitting/notifications
- Additional geophysical surveys to identify the locations of potential metallic drums and containers
- Abandonment of six on-site groundwater monitoring wells
- Installation of temporary security fencing around the site
- Mobilization and setup of an on-site office trailer, portable sanitary facilities, and hookups for electricity and telephone services
- Mobilization of construction equipment and labor
- Delivery and setup of a 6,500-gallon baker tank and associated secondary containment for storage of rinsate and decontamination wastewater
- Delivery and setup of drum storage areas
- Construction of an equipment decontamination pad and sump
- Conducting ambient air monitoring, sampling, and testing at the site during excavation, backfilling activities, and soil loading activities
- Extraction, characterization, and overpacking of buried drums and containers
- Excavation of contaminated soil

- On-site stockpiling of excavated material
- Sampling, analysis, and classification of excavated stockpiled waste material prior to disposal
- Loading, transportation, and disposal of contaminated soils
- Loading, transportation, and off-site treatment and disposal of overpacked drums of decontamination and purged water
- Post-excavation verification sampling and laboratory analysis
- Backfilling and compaction of the clean imported fill obtained from an off-site borrow source
- Restoration of the site and site cleanup
- Demobilization.

Details of these activities are described in Subsections 5.1 through 5.14 of this report.

5.1 Subcontracting/Procurement. All field activities were performed under the direct supervision of the Battelle Team with assistance from several specialty subcontractors. The procurement of the subcontractors and required services and materials were performed consistently with the terms of the contract and applicable Federal Acquisition Regulations.

Several specialty subcontractors were procured to assist in specific aspects of the remedial activities. These subcontractors included a civil surveying contractor, hazardous waste hauler/transporter, treatment, storage, and disposal facility (TSDF), drilling contractor, analytical laboratory, geotechnical testing contractor, on-site drum characterization and emergency response contractor, and air monitoring services companies.

The Battelle Team conducted earthmoving activities including soil excavation, temporary stockpiling of the excavated material, backfilling, compaction, and site restoration. The hazardous waste hauler/transporter was Chemical Waste Management, which was responsible for the transportation and off-site disposal of the non-RCRA, impacted soils and debris, and U.S. Ecology was responsible for the RCRA soils requiring treatment prior to off-site disposal at appropriate CERCLA disposal facilities. Safety Kleen was the certified hazardous waste hauler for the decontamination water. APEX Environmental Drilling was retained as the drilling contractor to conduct the well abandonment activities.

APCL Laboratory in Chino, California, performed all of the required chemical analyses on the soil samples for waste characterization, verification, and disposal classification. Tracer Environmental of San Marcos, California, conducted the ambient air monitoring at the site, and Associated Soils Engineering, located in Long Beach, California, conducted geotechnical soils testing and observed backfilling and compaction operations.

Ron Martin & Associates of San Clemente, California, were responsible for land surveying. Other subcontracting services were used to provide roll-off bins and waste containers, a temporary wastewater storage tank with secondary containment, construction equipment rental, and on-site fuel services. Equipment operators and laborers were hired on an as-needed basis from the local union halls.

5.2 Kickoff Meeting. A project kickoff meeting was held on September 28, 2000, at the former NSLB. The meeting was attended by Ed Dienzo and Thomas Macchiarella (DON); Abraham Chen, Godage Wickramanayake, and Keith Fields (Battelle); Martin Hausladen (U.S EPA); Sue Hakim (DTSC); Tom Johnson and Paul Ward (Port of Long Beach); Ana Townsend (RWQCB); Shawn Murphy (Sea Launch); M. Cates (CH2MHILL); and Tamara Truitt, Glenn Nardin, Patrick Tinnes, and Abram Eloskof (FWENC).

The meeting included discussion and understanding of the administration of on-site work, abandonment of on-site monitoring wells, removal of drums/containers and on-site trees, lines of communications, removal and recycling of concrete foundations, coordination of construction activities, and the project schedule. A copy of the meeting minutes is included as Appendix D.

5.3 Mobilization. Upon receipt of authorization to proceed, field personnel and temporary facilities were mobilized to the site. Temporary facilities included an office trailer, sanitary facilities, electricity and telephone hookup, and a temporary security fence within the site to delineate the exclusion zone, contaminant reduction zone, and support zone (Figure 6). National Construction Rentals of Corona, California, was subcontracted to install the temporary fence, necessary gates, and screens for dust control along the fenced areas.

Mobilization activities included site preparation, delivery of equipment and materials to the site and training and site orientation of field personnel. Prior to mobilization, all appropriate DON personnel, including the RPM, Port of Long Beach representatives, and the ROICC, were notified about the planned schedule for mobilization and the soil remedial activities.

Mobilization of temporary facilities also included the establishment of a suitable staging area to support the project activities. The support facilities, which were installed in the staging area, included portable restroom facilities, equipment decontamination pad, personnel decontamination area, eyewash, wastewater storage tank and drums, and staging areas in the south and southeast areas of the site. The support facilities were located at the southwest corner of the site within the fenced area and included a temporary office and storage trailer, portable generator, portable restrooms, and a waste storage bin.

Construction equipment mobilization was initiated concurrent with site preparation activities. In order to minimize staging requirements, equipment and materials were mobilized to the site on an as-needed basis. Each piece of construction equipment was delivered to the site in clean condition and was decontaminated prior to leaving the exclusion zone. Construction equipment included a CAT 345 excavator, a CAT D350 rock truck, a CAT 415 backhoe, a CAT D6 dozer, a 2,000-gallon water truck, and a CAT 966 rubber-tired loader. Small equipment included small and midsize generators [6 kilowatt (kW) and 45 kW] and a hand compactor that were rented on an as-needed basis.

Due to the nature of the contaminants, VOC vapor suppressants were utilized during field activities and required mobilization of a Rusmar® pneumatic foam unit (NCT8) along with a 120 cubic feet per minute compressor and a 250-gallon, trailer-mounted storage tank. The equipment was used to apply VOC vapor suppressants to the excavation and stockpiled soils.

Soils were stockpiled on a 20-foot by 100-foot, 20-mil welded high-density polyethylene (HDPE) liner. To cover the stockpiles, a 20-foot by 100-foot 10-mil polyethylene liner was used in conjunction with sandbags and nylon rope to keep the liner in place.

Materials to construct temporary road and backfill excavation included 370 tons of crushed aggregate base for roads, 28 rolls of 8-ounce geotextile fabric, 1,500 tons of ¾-inch crushed rock, and 8,500 tons of general clean imported fill in addition to clean on-site fill.

The Battelle Team personnel at the site included a Site Manager, Site Superintendent, Health and Safety Specialist, QC Engineer, Project Geologist, and Project Chemist. The chemist was brought in on an as-needed basis to perform stockpile and post excavation sampling. Equipment operators and construction laborers were hired from the local union halls and were utilized throughout the duration of the field activities. An emergency response team was on site at all times during the drum extraction activities for overpacking and on-site characterization of excavated drums.

5.4 Demolition of Concrete Pad. Prior to excavation, four small recreational concrete pads within the planned excavation limits were demolished using a CAT 966 loader. The four pads were 20 feet by 40 feet in dimension and were 3 to 6 inches thick. All other pads on site, outside of the excavation area, were left in place.

Upon completion of demolition activities, the concrete debris was broken into approximately 2 foot by 2 foot pieces and transported to the City of Los Angeles temporary crusher located at the intersection of Navy Way and Reeves Avenue. A total of approximately 100 tons were recycled at the crusher for road base material.

5.5 Excavation

5.5.1 Excavation of Impacted Soils. Soil and groundwater data collected during the RI and SFA studies indicated that a comingled chlorinated and nonchlorinated VOC plume exists in the groundwater beneath the north-northeast part of IR Sites 1 and 2 that could potentially impact the groundwater. Analytical data indicated that VOCs were present in groundwater at concentrations in excess of the *California Ocean Plan* criteria (CWRCB, 1995). Due to the fact that the debris could be a potential source of future contamination, the selected remedial strategy is to reduce groundwater contaminant levels through IAS/SVE and to remove potential sources of contamination including contaminated soil and debris.

Excavation activities began on October 26, 2000. Prior to excavation, the limits of the 1.4-acre excavation and the potential locations of burial trenches were surveyed and marked (Figure 7). A CAT 966 loader was initially used to grub and clear an 8-inch layer of mulch and other existing vegetation. The cleared and grubbed material then was stockpiled in a windrow along the tree farm at the request of Port of Long Beach.

Following grubbing, clearing, and removing the concrete debris resulting from the recreational pads demolition, the top 1.5 feet of soil was removed using an 80,000-pound excavator (CAT 345 excavator). The excavation was conducted in several stages, each consisting of excavating the soil in 18-inch lifts, conducting VOC monitoring, conducting a geophysical survey to identify potential locations of debris, and radiation surveying. Depending on the screening results, the excavated soil was placed in one of the three separate designated areas at the site. Soil with visible stains, elevated reading of VOCs, or soil in contact with debris that was removed and stockpiled in the potentially contaminated stockpile area(s). Soil with elevated radiation levels above 1.5 background levels was segregated and stored in 55-gallon drums. The first 18-inch lift and soil not in contact with debris were segregated and placed in the potentially clean stockpile area(s). All excavated soil was placed on 20-mil HDPE liner that was bermed for run-on and run-off control.

The excavation started east of the five disposal trenches and a total of five lifts were excavated to groundwater elevation. To prevent sloughing of material, the sidewalls of the excavation were sloped at an angle of 1.5 horizontal to 1 vertical (1.5H:1V). A total of approximately 13,500 cubic yards of soil were excavated and stockpiled in nine stockpiles, six potentially clean stockpiles (C-1 through C-6) and three potentially dirty stockpiles (D-1, D-2, and D-3). The perimeter road along the north side of the excavation and the concrete helicopter pad located east of the excavation were not disturbed.

Excavation activities were performed in two phases due to limited stockpile areas, and the local air district limitation on the volume of stockpiled soil. Two-thirds of the excavation were completed in Phase I and the remaining one third, adjacent to the helicopter pad, was excavated in Phase II.

Geophysical surveys were performed during excavation in lifts and once the excavation was completed to ensure that all debris was removed. Copies of the geophysical surveys are included in Appendix E.

Following the completion of the first stage of excavation, verification samples were collected from the floor and sidewalls and submitted to APCL Analytical Laboratories for analysis. The floor of the excavation could not be extended beyond 6 feet above msl due to potential for groundwater intrusion.

During excavation activities, a combination of an organic vapor analyzer (OVA) and visual inspection were used to screen potential VOC and stained soils from clear overburden. To reduce VOCs and dust emissions and to protect on-site personnel during excavation activities, several measures were implemented, including using dust and VOC suppressants, upgrading the levels of personnel protection, and covering and inspecting excavated soil stockpiles daily

Daily inspections of excavations were performed by the Contractor Quality Control (CQC) Engineer and Site Superintendent to assess the stability of the slopes and excavation areas. Copies of production and CQC reports for all field activities are included in Appendix F. An excavation permit was posted inside the site trailer. Adherence to California Occupational Safety and Health Administration (Cal-OSHA) excavation regulations and permits were met. All excavations were conducted in accordance with California Health and Safety Code, California Code of Regulations Title 8, 1539 through 1541 and 29 CFR, 1910 and 1926 requirements.

Following the completion of excavation for each phase and geophysical clearance of excavation floor and sidewalls from any debris, an as-built survey was conducted to determine the final extent of the excavation areas and the total amount of the excavated material. This information was also used to determine the amount of backfill required to return the area to the proposed design grades. Ron Martin & Associates conducted the as-built topographic survey on January 23, 2001. A copy of the post-excavation, as-built topographic map is provided in Appendix B.

5.5.2 Soil Segregation. During excavation activities, stained soils, soils clinging to buried drums or debris, and soils that exhibited high level of VOCs were segregated and stockpiled separately as potential contaminated soils, pending chemical analysis of stockpiled soil samples. This procedure was performed to minimize the volume of potential contaminated soil that would require disposal and/or treatment.

During recovery of debris from disposal trenches, soil mixed with debris was segregated on site using a power screen. A CAT 966 loader was used to load excavated soil and debris into a hopper that was equipped with a topping reject grid with bars to segregate material greater than 6 inches in diameter. The material less than 6 inches in diameter was transferred onto two vibrating screens, each consisting of a four-bearing positive action unit, mounted on oil springs and silent block bushes. The undersized material, with particle-size 2 inches or less, passed through to the radial-loading, high-capacity stockpiling conveyor. At the end of each day, the screened soil was transferred to the potentially contaminated stockpile staging area. The oversized debris was manually segregated and was transferred to the on-site roll-off bins

5.5.3 Additional Soils Excavation. Additional soils were excavated from the debris trench that extended to the west of the original limit of excavation. After the geophysical survey was performed on

the sidewalls and bottom of excavation, soils in areas of geophysical anomalies were excavated using a backhoe to find the metallic sources. The excavated soil was stockpiled in either a potentially clean or contaminated stockpile depending on the soil segregation criteria.

5.5.4 Additional Geophysical Surveys. Spectrum Geophysics performed EM61 voltage readings at 2.5-foot intervals along north-south lines spaced 2.5 feet apart within the established grid. The data was processed and used to generate contour maps to identify anomalous areas that may contain metallic features. Detected features were marked with paint. These features were later removed.

A member of ULS Services Corporation was present at the site on November 23 and November 28, 2000, and January 11 and January 15, 2001, to conduct underground survey work to locate potential remaining buried metal debris left in place after excavation and remedial work had taken place at the site.

The methods and equipment used included walking a 5-foot by 5-foot search path across the entire site using a Chicago steel tape, hand-held magnetic gradiometer and an analog systems 104-B delay pulse induction metal detector with a 4-foot loop antenna. Both are analog and real-time instruments. Observations were marked out by ULS Services Corporation and identified anomalies were excavated by FWENC.

Ambient EM noise at the site was low allowing for maximum instrument gain setting and low scan elevation achieving optimum detection. Results from the magnetic and EM induction survey indicated the presence of small anomalies. FWENC field staff noted the anomalies and either plotted them relative to grid stationing at the site or immediately excavated them. Copies of all geophysical surveys conducted during excavation activities are included in Appendix E.

5.6 Soil and Debris Sampling. Potential impacted soil was generated during the remedial activities at the site. Samples were collected and analyzed for waste characterization purposes. The following sections describe the sampling methodology and laboratory analysis performed.

5.6.1 Soil Stockpiles Sampling and Analysis. A total of nine soil stockpiles, three potentially contaminated stockpiles (D-1, D-2, and D-3), and six potentially clean stockpiles (C-1 through C-6) were generated during excavation activities. In accordance with the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b), one discrete sample was collected from 200 cubic yards of each of the stockpiled soils. The stockpiles were sampled for waste characterization and profiling purposes. The volume of each stockpile was estimated to determine the required number of samples for each stockpile. The X, Y, and Z coordinate for each stockpile sample was randomly generated using the Microsoft® Excel program. The locations of each sample were marked and identified in the field using paint, surveying stakes, and markers. Samples were collected using a hand auger and EnCore® samplers. Additional sample volumes were provided to the laboratory in 2 1/2-inch by 6-inch stainless steel sleeves. Each sample was initially analyzed for the total content of COCs, total petroleum hydrocarbons (TPH) (C_4-C_{12}), TPH (C_{13}-C_{22}), TPH (C_{23}-C_{32}), toluene, ethylbenzene, and total xylenes to allow determination of compliance with RAOs. Additional analysis was performed to determine the classification of the soil that exceeds RAOs. Soil with TTLC of any of the analytes that was greater than or equal to 10 times the respective STLC value, but less than or equal to 20 times the TCLP value for that analyte, were designated as potentially non-RCRA California hazardous waste. These samples were subjected to WET analyses. If the concentration of the analyte in the extract exceeded the analyte's respective STLC, the soil associated with the sample was classified as non-RCRA California hazardous waste. If the total concentration of any of the analytes exceeded 20 times the analyte's respective regulatory TCLP value, TCLP extraction testing was performed. If the concentration of an analyte in the extract exceeded the analyte respective TCLP value, the soil associated with the sample was classified as RCRA-hazardous

waste For constituents detected above the regulatory threshold criteria for each stockpile, statistical evaluations were performed in accordance with the methodology presented in Chapter 9 of the *Test Methods for Evaluating Solid Waste, Physical Chemical Methods, SW-846* (U.S. EPA, 1986).

The methodology includes calculating the 80 percent upper confidence level (UCL) using the student "t" test. SW-846 explicitly states that a COC is not considered to be present in the waste at a hazardous level if the UCL of the confidence interval is less than the applicable regulatory threshold

Stockpile samples were analyzed for VOCs by U.S. EPA Method 5035/8260B, and total purgeable petroleum hydrocarbons (TPH-purgeable) by U.S. EPA Method 5035/8105B, total extractable petroleum hydrocarbons (TPH-extractable) by U.S EPA Method 8015B, SVOCs by U.S. EPA Method 8270C, Title 22 Metals by U.S. EPA Method 6010B/7000, PCBs by U S. EPA Method 8082, ignitability by U.S. EPA Method 1010, and pesticides by U.S. EPA Method 8081 Soil with results above the RAOs were analyzed by TCLP for chromium, lead, mercury, and VOCs; and by STLC for copper, chromium, lead, and mercury to further characterize and profile the soil for appropriate disposal action The samples were extracted and analyzed by APCL Laboratories located in Chino, California. A summary of stockpile samples analyses is included in Tables 4 through 13. Copies of the chain-of-custody and analytical results are included in Appendix G.

A chronological order of the stockpile sampling and analysis, based on when they were excavated, stockpiled, and sampled during the on-site remedial activities, is summarized below:

Sixteen samples were collected from Stockpile C-1 (approximately 2,800 cubic yards), 19 samples from Stockpile C-2 (approximately 3,250 cubic yards), and five samples from Stockpile D-1 (approximately 1,000 cubic yards). In order to make a clear waste characterization determination, analytical results from the stockpiles were evaluated statistically in accordance with Chapter 9 of the U S. EPA *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846 on-line* (last updated on August 1, 2000 and accessed on December 2000).

The analytical results from Stockpiles C-1, C-2, and D-1 are summarized in Tables 4, 5 and 6 The concentrations of potential COCs are compared with their respective RAOs as listed in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b). As shown in Tables 4 through 6, except for one hit of TCE in Stockpile C-2, neither VOCs nor TPH compounds were measured above the respective RAOs. With regard to the inorganic COCs, only antimony, arsenic, and lead were detected above their respective RAOs in some of the samples.

The average arsenic concentrations in the samples collected from Stockpiles C-1, C-2, and D-1 are 4.1, 8.6 and 7.32 milligrams per kilogram (mg/kg), respectively. The RAO, which was mistakenly reported as 3.9 mg/kg in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b), was based on the 95 percent UCL of the mean background concentration A background concentration study presented in Appendix H of the *RI Report for IR Sites 1 through 6A at the Former Naval Station Long Beach* (BNI, 1996), documents a range for background arsenic concentrations from 0.76 to 13.00 mg/kg. The upper tolerance limit of the 95th quantile of the background arsenic distribution with 95 percent confidence [upper tolerance limit $(UTL)_{95,95}$] is 7.41 mg/kg Therefore, the current arsenic RAO does not accurately reflect the range of background arsenic concentrations that would be expected at the site. The value of 7.41 mg/kg should have been used in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b) and should be applied for evaluating stockpiles and all soil contamination evaluations for the site. Further, as mentioned during the December 7, 2000, meeting at Long Beach (attended by representatives of DTSC, RWQCB for the Los Angeles region, U S EPA, the Port of Long Beach, FWENC, and Battelle), arsenic background levels as high as 17 mg/kg were reported for sites at the Port of Long Beach and the NSLB (per comments made by Christine Houston of the Port of Long Beach).

Nonetheless, the value of 3.9 mg/kg still was used as the RAO for arsenic data evaluation Ten out of 16 samples collected from Stockpile C-1, 18 out of 19 samples from Stockpile C-2, and five out of five samples from Stockpile D-1 contained arsenic concentrations that exceeded 3.9 mg/kg.

Because antimony, arsenic, and lead were measured at levels higher than the respective RAOs in some of the samples, STLC and TCLP tests were performed for the three soil stockpiles. The results were compared with the respective regulatory threshold criteria for both RCRA and non-RCRA (California) hazardous waste. For constituents detected above the regulatory threshold criteria, statistical evaluations were performed in accordance with the methodology presented in Chapter 9 of U.S. EPA SW-846 guidance. The methodology includes calculating the 80 percent UCL using the student "t" test. SW-846 explicitly states that a COC is not considered to be present in the waste at a hazardous level if the UCL of the confidence interval is less than the applicable regulatory threshold. Table 7 summarizes the stockpile analytical results and their statistical analyses

Stockpile C-1

For Stockpile C-1 (Table 4), only lead (three out of 34 samples) exceeds the 5.0 milligrams per liter (mg/L) of TCLP RCRA regulatory threshold. However, the 80 percent UCL for TCLP lead is calculated to be 3.1 mg/L, which is below the RCRA regulatory threshold. As such, this stockpile was not considered as a RCRA hazardous waste. Additional STLC tests on samples collected from Stockpile C-1 indicated that nine out of 14 copper and ten out of 14 lead samples exceeded their respective STLCs of 25 and 5 mg/L, respectively. The 80 percent UCL STLC for copper and lead are 67.3 and 12.4 mg/L, respectively, which are above the allowable STLCs set by the state of California. Based on this evaluation and because no other contaminants exceed the RCRA hazardous waste limits, Stockpile C-1 was disposed of off site as a non-RCRA California hazardous waste at Chemical Waste Management Landfill, a RCRA and CERCLA off-site rule-approved waste disposal facility.

Stockpile C-2

Analytical results from Stockpile C-2 (Table 5) did not indicate any exceedance of the RCRA TCLP regulatory thresholds for any constituents. However, two out of 19 copper and four out of 19 lead samples slightly exceeded the respective STLC regulatory thresholds. The 80 percent UCL for copper and lead are 16.2 and 4.0 mg/L, respectively, which are below the California STLC regulatory thresholds. Further, although one out of 19 samples exceeded 4,4'-dichlorodiphnyltrichloroethane (DDT) TTLC regulatory limit of 1.0 mg/kg, its 80 percent UCL is 0.4 mg/kg that is below the regulatory limit Moreover, the TCE sample that exceeded the RAO does not exceed its TTLC or TCLP regulatory threshold. Therefore, Stockpile C-2 was used as on-site fill after obtaining approval from DTSC.

Stockpile D-1

Stockpile D-1 had three out of 15 samples exceeding the RCRA TCLP regulatory threshold of 0.5 mg/L for TCE (Table 6). Applying the SW-846 statistical calculations to the entire stockpile, the 80 percent UCL of 0.70 mg/L still slightly exceeds the regulatory threshold. However, because the three elevated samples (0032-022, 0032-103, 0032-111) were all collected from the same area at the lower 1/3 of the stockpile, the lower 1/3 of the stockpile was segregated from the rest of the stockpile, after obtaining approval from DTSC, and disposed of as a RCRA hazardous waste after being treated at US Ecology, an approved off-site RCRA and CERCLA TSDF. The remaining 2/3 of the stockpile shows 80 percent UCL of 0.06 mg/L for TCE that is well below the RCRA regulatory limit. The remaining ⅔ of

the stockpile was disposed off site as non-RCRA California hazardous waste at Chemical Waste Management Landfill

Twenty-four samples were collected from Stockpile C-3 (approximately 4,450 cubic yards), nine samples from Stockpile C-4 (approximately 1,650 cubic yards), and seven samples from Stockpile D-2 (approximately 1,200 cubic yards). The analytical results from Stockpiles C-3, C-4, and D-2 are summarized in Tables 8, 9, and 10. The concentrations of potential COCs are compared with their respective RAOs as listed in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b). As shown in these tables, neither VOCs nor TPH compounds were measured above the respective RAOs. With regard to the inorganic COCs, only antimony, arsenic, and lead were detected above their respective RAOs in some of the samples.

Because antimony, arsenic, and lead were measured at levels higher than the respective RAOs in some of the samples, STLC and TCLP tests were performed for the three soil stockpiles (C-3, C-4, and D-2). The results were compared with the respective regulatory threshold criteria for both RCRA and non-RCRA (California) hazardous waste. For constituents detected above the regulatory threshold criteria, statistical evaluations were performed in accordance with the methodology presented in Chapter 9 of U.S. EPA SW-846 guidance. The same methodology used previously to evaluate Stockpiles C-1, C-2, and D-1 was used to evaluate all the stockpiles resulting from remedial activities. Table 7 summarizes the stockpile analytical results and their statistical analyses.

Stockpile C-3

For Stockpile C-3 (Table 8), only one lead sample (out of 24 samples) exceeded its 5.0 mg/L of TCLP RCRA regulatory threshold. However, the 80 percent UCL for TCLP lead is calculated to be 1.3 mg/L, which is below the RCRA regulatory threshold. As such, this stockpile was not considered as a RCRA hazardous waste. Additional STLC tests on samples collected from Stockpiles C-3 indicated that one out of 24 chromium, 12 out of 24 copper, 11 out of 24 lead, and one out of 24 mercury samples exceed their respective STLCs of 5, 25, 5, and 0.2 mg/L, respectively. The 80 percent UCL STLC for copper and lead are 70.8 and 11.4 mg/L, respectively, which are above the allowable STLCs set by the state of California. The 80 percent UCL STLC for chromium and mercury are 1.6 and 0.05, respectively, which are below the California allowable STLCs. Based on this evaluation and because no other contaminants exceed the RCRA hazardous waste limits, Stockpile C-3 was disposed of off site as a non-RCRA California hazardous waste at Chemical Waste Management Landfill, a RCRA and CERCLA off-site rule-approved waste disposal facility.

Stockpile C-4

Analytical results from Stockpile C-4 (Table 9) indicated only one lead (out of nine samples) exceeds its 5.0 mg/L of TCLP RCRA regulatory. However, the 80 percent UCL for TCLP lead is calculated to be 4.0 mg/L, which is below the RCRA regulatory threshold. As such, this stockpile was not considered as a RCRA hazardous waste. Six out of nine copper and six out of nine lead samples exceeded the respective STLC regulatory thresholds. The 80 percent UCL for copper and lead are 95.5 and 13.0 mg/L, respectively, which are above the California STLC regulatory thresholds. Therefore, Stockpile C-4 was disposed of off site as a non-RCRA California hazardous waste at Chemical Waste Management Landfill, a RCRA and CERCLA off-site rule-approved waste disposal facility.

Stockpile D-2

Stockpile D-2 had one out of seven samples that exceed the RCRA TCLP regulatory threshold of 5.0 mg/L for lead (Table 10). However, the 80 percent UCL for TCLP lead is calculated to be 3.6 mg/L, which is below the RCRA regulatory threshold. As such, this stockpile was not considered as a RCRA hazardous waste. Additional STLC tests on samples collected from Stockpile D-2 indicated that one out of seven chromium, six out of seven copper, and seven out of seven lead samples exceeded their respective STLCs of 5, 25, and 5 mg/L, respectively. The 80 percent UCL STLC for copper and lead are 86.9 and 40.4 mg/L, respectively, which are above the allowable STLCs set by the state of California. The 80 percent UCL STLC for chromium is 4.0, which is below the California allowable STLC. Based on this evaluation and because no other contaminants exceed the RCRA hazardous waste limits, Stockpile D-2 was disposed of off site as a non-RCRA California hazardous waste at Chemical Waste Management Landfill, a RCRA and CERCLA off-site rule-approved waste disposal facility.

Eleven samples were collected from Stockpile C-5 (approximately 2,000 cubic yards), ten samples from Stockpile C-6 (approximately 2,000 cubic yards), and four samples from Stockpile D-3 (approximately 500 cubic yards). The analytical results from Stockpiles C-5 and C-6 are summarized in Tables 11, 12, and 13. The concentrations of potential COCs are compared with their respective RAOs as listed in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b). As shown in Table 7, neither VOCs nor TPH compounds were measured above the respective RAOs. With regard to the inorganic COCs, only arsenic was detected above its RAO.

Because arsenic was measured at levels higher than its RAO in the Stockpile C-5 samples, the STLC and TCLP tests were performed and the results were compared with the respective regulatory threshold criteria for both RCRA and non-RCRA (California) hazardous wastes. For constituents detected above the regulatory threshold criteria, statistical evaluations were performed in accordance with the methodology presented in Chapter 9 of U.S. EPA SW-846 guidance.

Although arsenic concentrations in the Stockpile C-6 samples were over its RAO, none of the analytes in those samples had concentrations ten or 20 times higher than the STLC and TCLP limits, respectively. As such, leachability testes were not performed for the Stockpile C-6 samples. Table 7 summarizes the stockpile analytical results and their statistical analyses.

Stockpile C-5

For Stockpile C-5 (Table 11), none of the samples analyzed exceeded the RCRA TCLP regulatory threshold (that is, 5 mg/L for lead). However, all nine samples that were subject to the STLC tests exceeded the regulatory threshold of 5 mg/L for lead. The 80 percent UCL for STLC lead was calculated to be 12.0 mg/L, which also is over the RCRA regulatory threshold. As such, this stockpile is considered as a non-RCRA California hazardous waste. Based on this evaluation, Stockpile C-5 was disposed of off site as a non-RCRA California hazardous waste at Chemical Waste Management Landfill, a RCRA and CERCLA off-site rule-approved waste disposal facility.

Stockpile C-6

The Stockpile C-6 samples were not subject to the STLC or TCLP tests because none of the analytes had concentrations ten or 20 times higher than the STLC or TCLP limits (Table 12). As such, Stockpile C-6 was classified as non-California hazardous wastes and was used as on-site backfill after obtaining concurrence from DTSC.

Stockpile D-3

Four samples were collected from Stockpile D-3 and the analytical results are summarized in Table 13. The concentrations of potential COCs are compared with their respective RAOs as listed in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b). As shown in Table 13, neither VOCs nor TPH compounds were measured above the respective RAOs. With regard to the inorganic COCs, only arsenic and antimony were detected above their respective RAOs.

Because arsenic and antimony in the Stockpile D-3 samples were measured at levels higher than their respective RAOs, the STLC and TCLP tests were performed and the results were compared with the respective regulatory threshold criteria for both RCRA and non-RCRA (California) hazardous wastes. For constituents detected above the regulatory threshold criteria, statistical evaluations were performed in accordance with the methodology presented in Chapter 9 of U.S. EPA SW-846 guidance. Table 7 summarizes the stockpile analytical results and their statistical analyses.

For Stockpile D-3, none of the samples analyzed exceeded the RCRA TCLP regulatory threshold (5 mg/L for chromium, 5 mg/L for lead, and 0.2 mg/L for mercury). As such, this stockpile was not considered as a RCRA hazardous waste. However, STLC tests indicate that two out of four chromium, three out of four copper, three out of four lead, and one out of four mercury samples exceeded their respective regulatory threshold of 5, 25, 5, and 0.2 mg/L, respectively. The 80 percent UCL for STLC chromium, copper, lead, and mercury was calculated to be 17.9, 244, 36.4, and 0.45 mg/L, which are above the allowable STLCs set by the state of California. Based on this evaluation, Stockpile D-3 was disposed of off site as a non-RCRA California hazardous waste at Chemical Waste Management Landfill, a RCRA and CERCLA off-site rule-approved waste disposal facility.

5.6.2 Verification Sampling and Analysis. The excavation was extended to the limit of the project area established in the *RD/RA Work Plan* (Battelle, 2000). Verification sampling was performed to document the residual concentrations of the COCs within the 1.4-acre excavation. The site was divided into a total of 102 grids. The grid pattern developed for the site resulted in 75 floor grids, each 20 foot by 20 foot; and 34 sidewall grids, each is 20 feet wide by 10 feet deep. Every individual floor grid and side-wall surface was sampled following their excavation. One sample was collected from the floor of each grid and every 20 linear feet along the sidewall. The exact location of each grid was randomly selected using X and Y coordinates generated by the computer. An additional excavation could not be performed on the excavation floor due to groundwater intrusions. The excavation limits and sample locations were surveyed by Ron Martin & Associates, a California-licensed surveyor and is presented in Figure 8.

A total of 75 floor and 34 wall verification samples were collected. The verification samples were collected using EnCore® samplers and glass jars. The verification samples were analyzed for VOCs by U.S. EPA Method 8260B/5035, TPH-purgeable by U.S. EPA Method 5035/8015B, TPH-extractable by U.S. EPA Method 8015B, SVOCs by U.S. EPA Method 8270C, Title 22 Metals by U.S. EPA Method 6010/7000, PCBs by U.S. EPA Method 8082, and ignitability by U.S. EPA Method 1010. The samples were analyzed by APCL Laboratories located in Chino, California. Verification sample results are summarized in Table 14 for excavation floor and sidewalls samples.

Sixty-six soil samples out of a total of 148 samples exceeded the RAO for arsenic, one sample exceeded the RAO for antimony, and six samples exceeded the RAO for VC. Additional excavation could not be performed due to groundwater intrusion. The RAO for arsenic, which was mistakenly reported as 3.9 mg/kg in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b), was

based on the 95 percent UCL of the mean background concentration. A background concentration study presented in Appendix H of the *RI Report for Sites 1 through 6A at the Former Naval Station Long Beach* (BNI, 1996), documents a range for background arsenic concentrations from 0.76 to 1,300 mg/kg. The upper tolerance limit of the 95th quantile of the background arsenic distribution with 95 percent confidence ($UTL_{95,95}$) is 7.41 mg/kg. Therefore, the current arsenic RAO does not accurately reflect the range of background arsenic concentrations that would be expected at the site. The value of 7.41 mg/kg should have been used in the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b) and should be applied for evaluating stockpiles and soil contamination evaluations for the site. If the 95th quantile of the background arsenic distribution with 95 percent confidence ($UTL_{95,95}$) of 7.41 mg/kg is used as the site arsenic RAO, only four out of 148 samples would have exceeded this concentration.

5.6.3 Drum Sampling. Extracted drums that contain liquids were screened in the field using a HAZCAT kit. Samples were collected from selected drums and analyzed by APCL for heating values measured in British thermal units (BTUs) by American Society for Testing and Materials (ASTM) Method D 240, and for mercury by U.S. EPA Method 7470. A summary of analytical results is listed in Table 15.

5.6.4 Sample Preservation, Packaging, and Shipment. Each soil sample was preserved by cooling to 4 degrees Celsius (°C). Sample preservation was performed in the field by a qualified sampling technician. Once collected and labeled, all samples were immediately stored in ice chests at 4 ±2°C using ice to maintain the temperature. The sample coolers were picked up at the site by an APCL courier. The samples were sealed with a tamper-proof seal and clearly identifiable labels were affixed to the sample containers. Each sample label contained the sample number, date of sample, collection, time of sample collection, and depth of sample (as applicable).

5.6.5 Decontamination Water Sampling. A sample of decontamination water was collected by a Safety Kleen representative from the on-site 6,500-gallon polyethylene tank for predisposal analyses at Demeno Kerdon, a CERCLA-approved treatment facility. Demeno Kerdon determined from predisposal analysis results that waste is nonhazardous.

5.7 Excavation Backfilling Procedure. The excavation was backfilled and compacted from November 30, 2000, to January 19, 2001, for Phase I and January 8, 2001, to February 9, 2001, for Phase II. Contractor Production Reports were completed daily and copies of these reports are included in Appendix F. The following subsections describe the major components of the backfilling sections.

5.71 Slope Stabilization. The slopes of the excavation were stabilized using a CAT 345 excavator. The slopes were cut at an angle of 1.5 horizontal to 1 vertical (1.5H:1V). Two ramps were established on the slope along the south to allow access for heavy equipment.

5.7.2 Stabilization of Excavation Bottom. The bottom of excavation was within 1 foot of groundwater and some areas had noticeable seeps pumping up through an existing clay layer below the bottom of the excavation. The original design to stabilize the bottom was to place a layer of 8-ounce geotextile at the bottom of excavation followed by 2 feet of crushed aggregate base on top before placing backfill material.

Once the Battelle Team had knowledge of a clay layer below the bottom of excavation, it was decided to use a 2-foot layer of ¾-inch clean, crushed rock with a layer of geotextile above and below the stone layer to prevent soil migration into the stone. The Battelle Team was concerned that a 2-foot layer of base along with a clay layer would act as a low-permeability lens, which would impact the proposed air sparging system.

Once this 2-foot layer of stone and fabric was placed, all areas that had noticeable pumping had been bridged and the excavation was approved for backfill by an Associated Soils Engineering, Inc., geotechnical inspector.

5.7.3 Backfilling. Once the bottom of the excavation was verified to be within ± 1 foot of groundwater and free of debris, backfilling proceeded. Backfill consisted of a 2-foot layer of ¾-inch crushed stone across the entire bottom of the excavation. A layer of geotextile filter fabric was placed on the bottom of the excavation prior to placing the 2-foot stone layer. Another fabric layer was placed on top of the finished 2-foot layer of stone to prevent migration of the soil into the stone and stabilization of the subgrade due to the presence of groundwater. Twenty-eight rolls of 8-ounce per square yard Marif 180N geotextile was used to completely wrap the stone layer in fabric. A CAT D6 (swamp cat) was used to place both the stone layer and the backfill soil.

Once the layer of stone was completed, backfilling proceeded using imported structural fill conforming to the U.S. Army Corps of Engineers sub-base specification of gradation 4. Twelve-inch lifts were installed using approximately 60 percent imported fill and 40 percent clean backfill from stockpiles generated from excavation activities. Approximately 12,500 cubic yards of backfill were used (4,000 cubic yards on site fill and 8,500 cubic yards imported fill) and 1,500 cubic yards of ¾-inch imported stone were used. Once the final grade was established, mulch was then spread back over the entire area. Ron Martin & Associates performed an as-built topographical survey.

Backfilling was performed in two phases due to site condition, stockpile management, and traffic control. Two-thirds of the area towards the west was backfilled in Phase I. The remaining one-third of the area was backfilled in Phase II.

5.7.4 Geotechnical Testing. During the backfilling operation, the fill (site fill and imported fill) was tested for maximum dry density using the modified proctor test, ASTM 1557. The ¾-inch stone layer did not require testing although an independent geotechnical technician performed visual inspection and documentation of the installation.

Soil was backfilled in 12-inch lifts and required only 85 percent of the maximum dry density to facilitate the operation of the IAS/SVE system. Once in place, a density test was performed for every 500 cubic yards of soil placed for a total of five tests per lift using nuclear gauge method ASTM D2922. The only compaction equipment necessary to achieve 85 percent compaction criteria was a Caterpillar D6 dozer used to spread the material. A 20-ton roller was used during the first day of compaction and was later found to be unnecessary and demobilized from the site. Copies of geotechnical field and laboratory test results are included in Appendix H.

A water truck was used to add moisture to the backfill on an as-needed basis. Import soil moisture content was suitable for the compaction controls. Twenty-five in-place nuclear gauge tests were performed by Associated Soil Engineering, Inc.

5.8 Site Surveys. Ron Martin & Associates was contracted by FWENC to perform a pre-excavation baseline survey, a postexcavation survey, and a final topographic survey of the site after back-filling was complete. Grading plans were not available. Therefore, the site was returned to its original grade without significant vertical relief.

After heavy rains during February 2001 and after trees were planted, it was noted that an area west of the helicopter pad had a ponding area. Approximately 390 tons of fill were placed using a skip loader to fill this 100-foot by 70-foot area. The final grade of the repaired area was not resurveyed, only a visual observation determined grading.

5.9 Site Restoration. After the excavation was backfilled to its original grade, mulch previously stockpiled along the western edge of the project was spread over the area in a 6-inch-thick layer. The temporary haul road constructed of road base was removed using a CAT 966 loader and placed adjacent to the western edge of the helicopter pad.

Grading plans were not available, so the site was returned to its original contours without significant vertical relief. Site cleanup included erosion control repair to silt fences and sandbags at discharge points. All excess construction materials, debris, and construction equipment were removed from the site except for materials and equipment retained by Battelle for the installation of the IAS/SVE system.

Prior to demobilization Mr. Paul Maize, the DON ROICC, and Mr. Luis Gomez, the FWENC Construction QC Engineer, performed a pre-final inspection and no deficiencies were identified.

5.10 Demobilization. Demobilization consisted of decontamination of all heavy equipment and the return of all rental equipment including an excavator, backhoe, dozer, loader, water truck, pressure washer, air compressor, power generators, and the air monitoring stations.

The site trailer along with the storage container, decontamination pad with baker tank and all small tools acquired during the project were released to Battelle for the installation of the IAS/SVE system.

As demobilization activities occurred, the Port of Long Beach contractor, Valley Crest, began to plant large potted trees throughout the entire site.

5.10.1 Equipment Decontamination. On-site remedial activities involved using drilling rigs, sampling tools, earthmoving equipment (excavator, loaders, backhoes, dozers, end dumps, and so forth), and miscellaneous equipment (portable tanks, compressors, and so forth). The decontamination procedures outlined below were supervised and accepted by the Site Health and Safety Specialist.

Heavy construction equipment, end dump trucks, fuel trucks, and so forth were decontaminated on an asphalt decontamination pad (Figures 6 and 9) each time they left the exclusion zone. The liquid generated during decontamination activities was collected in the sealed decontamination pad sump and pumped to the 6,500-gallon tank via a trash pump. Once all the decontamination activities were completed, the tank content was sampled and analyzed. Based on sample analysis, the tank contents were classified as nonhazardous liquid and were transported to the appropriate TSDF for treatment.

Heavy equipment was decontaminated using a combination of dry scrubbing and pressure washing. Special attention was paid to the removal of material on and within the bucket, and undercarriage of the loaders, dozers, excavators, backhoes, and end dumps.

To assure that analytical results reflect the actual concentrations present at sampling locations, non-disposable soil sampling equipment was properly decontaminated prior to the field effort, during the sampling program (that is, between sampling points), and at the conclusion of the sampling program. Whenever possible, stainless steel, glass, or plastic sampling equipment was used to collect soil samples for organic and metal analysis. All sampling equipment (hand augers, trowels, buckets, and large spoons) was cleaned between sample locations following the procedure outlined below:

1. Wash and scrub thoroughly with a solution of Liquinox™ detergent and distilled bottled water

2. Rinse thoroughly with distilled bottled water

3. Rinse thoroughly with deionized water

4. Allow to air dry before reuse.

The DON ROICC conducted a pre-final inspection during demobilization inspection and a final inspection following the completion of demobilization activities. The final inspection did not reveal any outstanding issues.

5.10.2 Temporary Fence Removal. Once all contaminated soils were removed from the site, all temporary fences with screening were removed. All silt fences were left in place for use during the IAS/SVE system installation. IR Sites 1 and 2 are secured by a permanent fence that borders Sea Launch along the western edge of the site. A lockable double-wide vehicle gate at the site entrance continued to be utilized by Battelle as a security measure.

5.10.3 Removal of Temporary Facilities. The temporary facilities were turned over to Battelle on February 16, 2001, which included the site trailer, 45-kW generator, storage container, and baker tank. These items were rentals and had a name change from FWENC to Battelle on the rental agreement. The decontamination pad was cleaned prior to its being turned over to Battelle on February 15, 2001. In addition, all government owned small tools were inventoried and turned over to Battelle on February 15, 2001.

5.11 Photographic Log. Photographs of the site were obtained during the implementation of the remedial activities. These photographs illustrate the work being conducted during excavation, stockpiling, and backfilling activities including dust control and loading of contaminated material for off-site shipment and disposal. The photographs are presented in Appendix I.

5.12 Field Changes and Variances. Table 15 identifies actual field changes, variations, and deviations from what was specified in the approved *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b).

Section 6: BURIED DRUMS AND DEBRIS REMOVAL

This section describes the methods used for extraction of the buried drums and debris from the site.

6.1 Extraction of Drums. The initial step in extracting the drums was the excavation of overburden to expose the drum burial site. After evaluating the condition of the drums, mass excavation was chosen as the most appropriate method of removal. When drums were encountered, which showed signs of being impacted, the operation would be stopped and a member of the emergency response team (Haz Pak) would investigate the container and its contents and evaluate the situation and proceed accordingly.

6.2 Screening of Soil and Debris. After the overburden was excavated and any intact buried drums were extracted, the remaining soil and debris were excavated in 2-foot lifts. Excavated soil and debris were screened using a mobile screening plant to segregate the soil and the debris. The excavated soil was loaded into a hopper that was equipped with a tipping reject grid with bars to segregate material greater than 6 inches that was further screened through a 2-inch or less vibration screen. The oversized material from the 6-inch and 2-inch screens were segregated manually and stored in 40-cubic-yard roll-off bins. The undersized material, with particle size 2 inches or less, was passed to a variable speed control conveyor and temporarily stockpiled next to the screen, until they were transferred to permanent stockpile area via a rock truck.

6.3 Overpacking Drums. When drums were excavated that seemed to contain a substance, a member of the emergency response team would evaluate the container. If the container held any substance, the container's contents would be characterized. After characterization, the container was placed in an overpack drum and numbered. A summary of the daily drum tracking log is included in Table 16.

6.4 Characterization of Drums. After the container, which needed its contents identified, was located the Haz Pack Team would use the proper chemical protective clothing needed to perform the identification safely. The team would write down any or all I.D. markings located on the container. A Haz Pak technician then would remove a small sample of the material to be identified. The Haz Pak Team would proceed with content characterization including identifying if the material was liquid or solid in color, had solubility in water, odor, density, ignitability, flammability, corrossivity, reactivity, performed sulfide screen, cyanide screen, peroxide, oxidizer, and so forth. All results were logged on a drum identification form with all areas filled out completely. Once the material was identified, the sample and the container of material was packaged and labeled in accordance with the U.S. Department of Transportation (DOT), U.S. EPA, and California EPA. The waste was then properly stored in the hazardous waste storage area and logged on the daily tracking log for disposal purposes.

6.5 Drum Storage and Inventory. After being characterized and overpacked, all drums were placed in the drum storage area. The drum storage area was lined with two layers of 30-mil HDPE liner. Sandbags were used below the liner to make berms to prevent loss of any leaked liquids. The drums were covered with tarps to prevent water from contacting the drums and were segregated to prevent incompatible materials from being placed together. The drums were stored in such a way that they could be inspected on a daily basis.

Section 7: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT REQUIREMENTS

The remedial action was not subject to air quality permit approval from the SCAQMD because the site is a CERCLA site. However, a Rule 1166 Contaminated Soil Mitigation Plan was prepared in order to ensure compliance. The remedial action at IR Sites 1 and 2 of the former NSLB was conducted in compliance with the SCAQMD's applicable air quality regulations, requirements, and conditions specified in the plan. A copy of this plan is included as Appendix J.

7.1 Air Quality Compliance. A contaminated soil mitigation plan was prepared and submitted to the SCAQMD in compliance with the SCAQMD Rule 1166 for the excavation and handling of soil. The soil at IR Sites 1 and 2 of the former NSLB was excavated and handled in compliance with the SCAQMD's Application and Mitigation Plan, approval number 375066.

7.2 VOC Monitoring. As required by SCAQMD, an OVA was kept and maintained in good working condition at all times. Calibration of the OVA was verified using certified calibration gas at the beginning of each working day as specified by the manufacturer. The OVA was calibrated using hexane gas at 100 parts per million (ppm). Calibration forms were completed and filed with OVA field readings (Appendix K).

During soil excavating activities, OVA readings were taken at a distance no more than 3 inches above the soil surface during soil excavation activities. OVA readings were conducted at a minimum frequency of once every 15 minutes and recorded in the air monitoring readings field book. As required by SCAQMD, OVA readings were transferred onto Rule 1166 soil monitoring record sheets and OVA calibration record sheets (Appendix K).

7.3 Stockpile Inspection. Segregation of hot spots involved excavating all of the soil that exhibited OVA readings greater than or equal to 50 ppm and segregating it into a separate stockpile on site. The stockpiles were bermed, lined, and covered with 10-mil polyethylene liner. The contaminated stockpiles were secured with sandbags and ropes at the end of each workday and during periods of inactivity greater than 1 hour to limit the escape of any VOCs. Daily inspections of all stockpiles were conducted to ensure the integrity of the containment system. Daily records were maintained to ensure compliance with Condition 19 of the Rule 1166 Contaminated Soil Mitigation Plan (Appendix J).

7.4 VOC Stockpile Removal. The VOC-contaminated stockpile was transported off site within 60 days of its formation for off-site treatment and disposal at US Ecology in Betty, Nevada, a CERCLA-approved treatment- and disposal-approved disposal facility. Representative samples were collected and analyzed for contaminants to profile the soils for disposal. Soil designated for off-site treatment was loaded into trucks, covered with tarps, and immediately transported off site. Records of all VOC-contaminated soil shipped off site are included in Appendix L1, RCRA Contaminated Soils.

Section 8: AIR SAMPLING

Air quality sampling was performed to ensure that release of hazardous VOC emissions or dust had not occurred as a result of the soil and container removal. The methods and results of this air quality sampling are described below.

8.1 Sampling Methodology. Air sampling was conducted at two locations: upwind and downwind from the excavation site based on the daytime wind directions. Wind directions at the site tend toward consistency as a result of its seaside location. The upwind site was located at the western edge of the site. The downwind was located near the northeastern edge of the property. The entire site resides at an elevation of approximately 10 feet above msl. The upwind/downwind configuration allowed for the best assessment of potential impact from site activities.

***TSP*:** This method is for measuring the mass concentration of TSP matter in ambient air. This method uses an air sampler that draws ambient air at a constant and specific flowrate into a specially shaped inlet and through a filter for a specific time period. The sampler is designed to collect particulates in the range of 25 to 50 microns in diameter. The filter was weighed before and after sampling to determine the net weight collected during sampling. This weight then was divided by the total volume of ambient air sampled, resulting in the mass concentration of TSP in micrograms per standard cubic meter ($\mu g/stdm^3$).

***PM_{10}*:** This method is used to measure the mass concentration of particulate matter with an aerodynamic diameter less than 10 microns in ambient air. Ambient air is drawn at a constant and specific flowrate into an air sampler with a specific shaped inlet. The filtration system is designed to allow only particulate matter with less than 10 micron to flow through. The sampling was done at a constant flow and for a specific time period to determine the total volume of ambient air sampled. The filter was weighed before and after sampling to determine the net weight collected during sampling. This weight was then divided by the total volume of ambient air sampled, resulting in the mass concentration of PM_{10} in $\mu g/stdm^3$

***VOC*:** The VOC samples were collected via an evacuated stainless steel (Summa) canister. A sample of ambient air was drawn into the canister for a specified duration and flowrate. The flow was stopped before reaching the atmospheric pressure. The canister then was sent to the laboratory with the appropriate chain-of-custody and custody seal. At the laboratory, the canister was attached to the analytical system. The analytical system consisted of a dryer for reducing the water vapor in the gas stream and a cryogenically cooled trap for concentrating the VOCs. The VOCs were separated based on their relative volatility in a gas chromatography column and detected for identification and quantification.

***Multiple Metals*:** U.S. EPA Method 12 is generally refers to the determination of inorganic lead emissions. For the purposes of this project, the same field sampling method was used for all metals analyzed. All metal analysis was done from the TSP filter.

8.2 Air Samplers. High volume samplers were utilized to accomplish all of the particulate and metals sampling. These samples meet all the requirements specified by the sampling method used for each pollutant sampled. The high volume samplers function similarly for the types of analytes sampled. However, the flowrates and inlet heads differ for the TSP and PM_{10} samplers. Additionally, stainless steel Summa canisters were used for VOC samples.

8.3 Analytical Results. A sample inventory list including the list of all samples taken and parameters that describe the particular matters were compiled. Concentrations were calculated from the

data collected during the monitoring. Air emission concentrations of TSP, PM_{10}, and VOCs were all reported very low and well below the total limit values (TLV). A copy of the air monitoring report is provided in Appendix M.

Section 9: RADIATION MONITORING

Radioactive contaminants were not identified by previous investigation studies at the IR Sites 1 and 2, the *Site-Specific Health and Safety Plan (Appendix B) of the Remedial Design/Remedial Action Work Plan for IR Sites 1 and 2 Long Beach Naval Complex* (Battelle, 2000b) required radiation screening to be performed during excavation activities as a health and safety precaution. Radiation surveys were performed across the soil surface prior to excavation and during backfilling with clean on-site soil in 18-inch layers, commonly known as 18-inch lifts, and prior to disposal in 12-inch to 18-inch lifts. The roll-off bins were initially screened from the outside using a high purity germanium (HPGe) gamma spectroscopy system to identify any bin with activity greater than background.

The radiation surveys were performed using 2-inch by 2-inch sodium iodide detectors attached to a Ludlum 2221 rate meter, or a HPGe gamma spectroscopy system and a Victoreen 190 meter. Potentially radioactive materials were identified in the soil and associated debris during the radiation surveys. All potentially radioactive materials (soils and small debris) identified in the excavation area and stockpiles were removed, placed into drums, and stored in a designated radiation material storage area. A total of ten drums (80 percent full) containing potentially radioactive materials were staged in the radiation storage area as a result of excavation activities. In addition, initial radiation surveys indicated that 26 roll-off bins might contain potentially radioactive materials. The roll-off bins were screened and any radioactive materials were segregated. A more detailed description of radiation surveys that occurred at IR Sites 1 and 2 could be found in *Final Radiation Report for Installation Restoration Sites 1 and 2 at Former Long Beach Naval Complex, Long Beach, California* (Battelle, 2001).

9.1 Instrumentation. Three types of instruments were used to complete the radiation surveys and to provide analytical data. Ludlum 2221 rate meters with 2-inch by 2-inch sodium iodide scintillation detectors were the primary field survey instruments. These instruments were selected because of their high sensitivity [approximately 900,000 counts per minute (cpm) per milliroentgen per hour (mR/hr) at 661.6 kiloelectron volts to gamma radiation]. Other portable field survey instruments included a Victoreen 190 meter, which was used to detect dose rates of any potentially radioactive material identified during radiation surveys and a HPGe gamma spectroscopy system that was used to survey the potentially radioactive soil and debris.

9.2 Contaminants of Concern. The primary radioactive contaminant, identified using gamma spectroscopy, is Ra-226. Small quantities of radioactively contaminated soil removed from the IR Sites 1 and 2 excavation site were identified with up to 1,100 picocurie per gram (pCi/g) of Ra-226. The 1,100 pCi/g was calculated by evaluating a hot spot on a 55-gallon drum containing soil. Drum number 086 packaged on December 20, 2000, was found to have a hot spot in the middle of the drum with 2,000 cpm/probe area. The drum was assayed with the gamma spectroscopy system and determined to have a concentration of 1,100 pCi/g.

Paint was doped with Ra-226 for many years and is commonly found at DON facilities. Gamma spectroscopy measurements performed by FWENC on IR Sites 1 and 2 soil indicate the presence of Ra-226, without in-growth of decay progeny. The reason that Ra-226 progeny were not present in some of the earlier samples is because the samples included soil that was "disturbed" by excavation activities a short time prior to sampling, allowing the Radon-222 to diffuse into the atmosphere and allowing the short lived daughters to decay away.

Two small metallic disks were found among the debris at the IR Sites 1 and 2 excavation area. The disks contain Ra-226 paint that was estimated to be 1 to 2 microcurie (μCi) total activity. Ra-226 in the soil apparently was from paint chips or fines associated with sandblast grit that was found at the excavation site.

9.3 Survey Protocols. Survey protocols were developed and approved by the DON. The protocols detailed the approach for the following tasks: (1) site survey for areas containing geophysical anomalies, (2) soil and debris excavation activities, (3) screening roll-off bins containing excavated debris, (4) screening soil stockpiles, and (5) assessment of segregated materials contained within the radioactive waste drums. The approved protocol that was followed for each activity is provided as Appendix A of the *Final Radiation Summary Report for Installation Restoration Sites 1 and 2 at Long Beach Naval Complex, Long Beach, California* (Battelle, 2001).

9.3.1 Excavation Area Surveys. Ludlum 2221 rate meters were used to perform the radiation surveying of the excavation surface area. The excavation surface area was subdivided into 25-foot by 25-foot grids to facilitate documenting the radiation surveys. The grids were individually surveyed, and high, low, and average meter readings were recorded in the radiation field book. The results of the excavation area surveys are provided in Table 5 of the *Final Radiation Summary Report for Installation Restoration Sites 1 and 2 at Long Beach Naval Complex, Long Beach, California* (Battelle, 2001). Potentially radioactive materials identified during the radiation survey were flagged and barricaded with caution tape until the potentially radioactive material was removed from the area.

Potentially radioactive materials were surgically removed using a shovel and wheelbarrow. The locations that originally contained the potentially radioactive materials were resurveyed to ensure complete removal of the potentially radioactive material. The potentially radioactive material was placed in drums and stored in the radiation storage area. Dose rates of the exteriors of the waste drums were taken using the Victoreen 190 meter. The dose rates for the drums are presented in Table 6 of the *Final Radiation Summary Report for Installation Restoration Sites 1 and 2 at Long Beach Naval Complex, Long Beach, California* (Battelle, 2001). This process was continued throughout the excavation process.

All personnel that performed the site radiation surveys and removal of the contaminated soil were dressed in appropriate personal protective equipment (PPE) (Level C). Personnel, shovels, and other equipment used to perform the removal of the potentially radioactive material were surveyed prior to leaving the excavation site.

9.3.2 Stockpile Surveys. The excavated soil was stockpiled outside the excavation area. Soil samples were collected from the stockpiles for waste profiling purposes. A total of nine stockpiles were generated. The stockpiles were numbered C-1, C-2, C-3, C-4, C-5, C-6, D-1, D-2, and D-3, where the "C" stood for potentially clean and the "D" stood for potentially dirty (metals and VOCs) pending analytical results. Typically, D-numbered stockpiles consisted of soils located in the vicinity of buried drums and debris.

Analytical results determined that seven stockpiles (C-1, C-3, C-4, C-5, D-1, D-2, and D-3) were characterized as non-RCRA soils and required treatment and/or disposal at a CERCLA-approved off-site landfill. The remaining stockpiles (C-2 and C-6) were used as backfill in the excavation after obtaining the appropriate approvals from the regulatory agencies. The potentially radioactive materials identified during excavation appeared to be randomly distributed within the soil. In an effort to prevent potentially radioactive materials from leaving the site, radiation surveys also were performed on the stockpiles prior to loading for off-site treatment and/or disposal.

The radiation surveys of the stockpiles were performed similarly to the excavation radiation surveys. Again, the Ludlum 2221 rate meter was used to perform the radiation surveys of the stockpiled soils. The stockpiles were cut and loaded out in 12- to 18-inch lifts. Each lift was surveyed for radiation and the results were documented. Tabulated results are provided in Tables 7 through 15 of the *Final Radiation Summary Report for Installation Restoration Sites 1 and 2 at Long Beach Naval Complex,*

Long Beach, California (Battelle, 2001). Potentially radioactive materials identified during the radiation survey were collected into metal 55-gallon drums and consolidated into a B-25 disposal boxes.

9.3.3. Roll-Off Bin Surveys. Debris from the excavation area, including crushed waste drums, rocks, tree roots, and small volumes of clinging soil were segregated from the soil and placed into 40-cubic-yard roll-off bins. Twenty-six roll-off bins were used to contain the debris removed from the excavation. A program was established to screen each bin from the outside and to review the results to identify any bin with activity greater than background.

A HPGe-based gamma spectroscopy system was used to screen the roll-off bins. The HPGe is capable of distinguishing between the individual photon energies specific to each radionuclide of interest. Ordinarily, both the isotope and its activity can be determined by this system. Quantification, however, requires that the measurement geometry and all attenuating materials be known with some accuracy to allow the analyst to apply the appropriate correction factors to derive the concentration of each radionuclide in the matrix of interest. In the case of IR Sites 1 and 2, only the roll-off bins' outer wall thickness and material of construction were accurately known. The debris within each bin was uniquely different for each bin. The debris matrix contained a wide range of materials of greatly differing densities and compositions. Therefore, a truly accurate correction for matrix attenuation was not possible.

An attempt was made to provide an initial approximation of the attenuation due to the wall of the roll-off bin and the debris matrix inside. The calibration file was created during mid-2000 and was representative of the HPGe efficiency for a mixed isotope, radioactive source placed behind a 0.75-inch thick steel plate placed 5 feet from the detector face. This calibration file was used to analyze all roll-off bins. This calibration file most closely represents the geometric and matrix attenuation conditions found at IR Sites 1 and 2. The calibration file accounts only for a point source of radiation placed on an axis 5 feet from the detector and does not account for an off-axis point source or a widely distributed source of radioactivity. Further, the calibration does not account for a volumetrically contaminated matrix or a point or distributed source placed at a distance further away than 5 feet from the detector. It does, however, account for the attenuation due to the sidewall of the bin and possibly some of the debris matrix itself.

The HPGe detector was placed at a distance of 8 feet from each of the "wide" sides of each roll-off bin, perpendicular to the bin side, facing the bin. The detector is surrounded by a minimum of 1 inch of lead shielding on all sides except the front and rear. The rear of the detector is shielded by a steel plate. The cylindrical lead shield surrounding the detector creates a forward looking collimator. The size of the solid angle observed by the detector through the collimator is dependent upon the distance from the source. The collimator is set up such that the size of the circle described by the cone-shaped solid angle is equal to the distance the detector is from the source. Therefore, the detector is observing an area 8 feet in diameter at a distance of 8 feet from the detector.

There were 26 roll-off bins containing soil and debris previously excavated from the site. These bins were screened, using a gamma spectroscopy system, to determine the presence of elevated levels of Ra-226. The data files generated for each bin were reviewed and only one of the bins were determined to have Ra-226 contamination present above the detector system minimum quantitation limit. Because it is possible that the bins may contain discrete sources (that is, Ra-226 painted dial faces), the contents of each bin were sorted and segregated at the request of the DON's Radiological Affair Support Office (RASO) representative.

Sorting and segregation activities were conducted on the nearby helicopter pad. Prior to segregating the bins, the pad was sealed with a concrete sealer to minimize the potential to contaminate the pad and to facilitate decontamination of the pad at the completion of the activity. Sandbags were

placed around the perimeter of the pad to minimize any run-on or runoff of liquids. A water truck and hose was used to mist the debris during segregation to minimize the potential for airborne contamination. Each bin was emptied onto the pad and the contents were screened using a 2-inch by 2-inch sodium iodide detector attached to a portable count rate meter. Any soil or debris measuring more than 1.5 times the background was segregated as LLRW into B-25 disposal boxes. The detected point sources found were collected and placed into a plastic bag and segregated from the soil and debris to facilitate their disposal. The point sources were characterized using the gamma spectroscopy system in the field to identify the radionuclide(s) of concern by an outside mobile laboratory, Pacific Radiation, located in the city of Altadena, California.

Protocol 3, included in Appendix A of the *Final Radiation Summary Report for Installation Restoration Sites 1 and 2 at Long Beach Naval Complex, Long Beach, California* (Battelle, 2001) was followed to screen the roll-off bins. Debris was segregated using a backhoe and loaded into the dump trucks for off-site transportation. Any debris that was staged on the pad overnight was covered to minimize spread of contamination. Workers wore disposable PPE (Level D) to minimize possible personnel contamination, and whole-body frisking was performed after PPE was removed using Eberline E-140 with the thin window GM detector and a Bircon survey meter with an alpha detector. Removable contamination was not encountered during the roll-off bin screening activities. The only observable contamination was that associated with the point sources found.

A total of 26 bins of debris were screened and were manifested as non-RCRA debris and shipped to a CERCLA-approved facility (Appendix L-4).

9.4 Soil Segregated in Drums. During the prior excavation, any debris, soil, or point sources found were segregated into 55-gallon drums. The contents of these drums were segregated and transferred into a B-25 disposal box under the supervision of the DON's RASO. The empty drums were compacted and placed into a B-25 box. The contents of each B-25 box was recorded in the project fieldbook and each B-25 box was assigned a unique identification number.

Workers wore disposable PPE (Level D) to minimize possible personnel contamination and whole-body frisking was performed after PPE was removed using an Eberline E-140 with the thin window GM detector and a Bircon survey meter with an alpha detector. Removable contamination was not encountered during consolidation of the drummed soil.

Section 10: WASTE CHARACTERIZATION, DISPOSAL, AND/OR RECYCLING

Several waste streams resulted from IR Sites 1 and 2 remedial activities. These wastestreams included contaminated soils, concrete debris, LLRW, decontamination water, used PPE, miscellaneous trash, and solid waste. This section describes the disposal method for each waste stream generated during remedial action activities.

10.1 Contaminated Soils. Following excavation, stockpiling, and classification, excavated soils were disposed of as either non-RCRA soil or RCRA soil that required treatment to achieve the universal treatment standards (UTS) prior to disposal.

Waste materials were loaded onto end dump or roll-off bins and hauled to Chemical Waste Management Landfill in Kettleman City, California, for the non-RCRA soil and US Ecology in Betty, Nevada, for the RCRA soil that required treatment. Both facilities are CERCLA-approved and CERCLA-permitted facilities.

A total of 599 end dump trucks were used for transporting the non-RCRA contaminated soils to Chemical Waste Management Landfill for direct disposal. The total tonnage of non-RCRA soils was 14,128 tons. A CAT 966 wheel loader equipped with a 4-cubic-yard bucket and a CAT 345 excavator were utilized to load the contaminated soils onto dump trucks. The trucks were weighted on site using portable scales to ensure compliance with DOT regulations. The trucks were tarped and decontaminated on the on-site decontamination pad prior to leaving the site. Decontamination of end dumps was accomplished by a 3,000 high-pressure washer, and the resulting decontamination water was pumped to the on-site 6,500-gallon polytank. A summary of the non-RCRA contaminated soil volumes is listed in Table 17.

A total of 24 end dump trucks were utilized to transport 566 tons of RCRA contaminated soils to US Ecology TSDF for treatment and disposal. This waste stream failed the TCLP criteria for TCE, and as such, was managed as a characteristic RCRA hazardous. The waste was treated at US Ecology TSDF using low temperature thermal absorption and was disposed of after meeting the UTS criteria. A summary of the RCRA contaminated soil volumes is listed in Table 18.

A uniform hazardous waste manifest was completed for each loaded end dump and submitted to the DON for signature. Original copies of the manifest were provided to the transporter and TSDF (Appendix L-1 and L-2).

10.2 Concrete Debris. Four small recreational pads, located along the northern perimeter, were demolished prior to excavation activities. Concrete and asphalt debris (approximately 100 tons) were transported to the City of Los Angeles crusher located at the intersection of Navy Way and Reeves Avenue.

10.3 Decontamination Water. Wastewater was generated from personnel, construction equipment, and end dump truck decontamination activities. The wastewater collected on site during remedial activities was temporarily stored in a 6,500-gallon polyethylene closed-roof Baker tank equipped with a secondary containment system. The tank contents were sampled by FWENC and the predisposal analysis was performed by US Filters, a CERCLA TSDF located in Vernon, California. A total of 1,700 gallons of nonhazardous wastewater was pumped out into a tanker car by Safety Kleen, a licensed hazardous waste hauler. The wastewater was transported to US Filters for treatment and disposal. A profile and a nonhazardous waste manifest were prepared and submitted to the DON for signature (Appendix L-3). ?

10.4 Used Personal Protection Equipment. The on-site excavation activities were performed in level D, modified level D, level C, and level B PPE depending on air monitoring results. All used PPE were placed in doubled-up 55-gallon polyethylene bags and transferred in 55-gallon drums for temporary storage. A total of 13 doubled-up polyethelene bags were generated during remedial action activities. The doubled-up bags containing used PPEs were sent along the non-RCRA soils for direct disposal at Chemical Waste Management Landfill.

10.5 Low-Level Radioactive Waste. The primary radioactive contaminant, identified using gamma spectroscopy, is Ra-226 without in-growth of delay progeny. Paint was doped with Ra-226 for many years and is commonly found at DON facilities. During and following World War II, instruments and gauges painted with Ra-226-activated zinc sulfide phosphors, and radium-activated light sources were used as location markers on structures such as decks and bulk-heads. In addition, Ra-226 mixed with zinc sulfide and a paint base was used in 1930 and 1940 as a self-luminous paint.

During excavation and survey activities at IR Sites 1 and 2, potentially contaminated LLRW was excavated (including debris, soil, and point sources) and segregated.

Recovered point sources were grouped into one of three classifications: (1) identifiable intact manufactured items, (2) debris or pieces from manufactured items, including rusted, corroded, or soil encrusted items and in some instances what appears to be traces of actual phosphor materials from dial or gauge faces, and (3) soil or soil-like objects.

A total of 368 point sources were excavated from IR Sites 1 and 2 from the 1.4-acre excavation area and other geophysical anomalies outside the 1.4-acre area. As per the DON RASO's directive, all point sources were packaged into two 30-gallon 17C drums following verification of radionuclide content by gamma spectroscopy. The on-site gamma spectroscopy performed by Pacific Radiation identified Ra-226 as the principle isotope (Battelle, 2001). The drums were lined with a 10-mil polyethylene bag and the point sources, segregated from other LLRW, were placed into the drums. The drums were closed and secured with a closure ring bolt.

The potential radium-contaminated soils excavated during the drum debris remedial action were placed in ten 55-gallon drums. The drum contents were transferred to B-25 boxes along with the crushed drums under the supervision of the DON's RASO. The U.S. Army Corps of Engineers will arrange for the transportation and disposal of the B-25 boxes and the 30-gallon drums containing segregated point sources at a licensed and permitted disposal facility. Free release surveys were conducted at the site for the B-25 boxes, the two 30-gallon drums, and miscellaneous construction equipment utilized at the site.

Free release criteria specified for the site was 20 disintegrations per minute (dpm) or less for removable alpha and 500 dpm or less for beta-gamma removable contaminations. Surface reduction was required to be less than 1.5 times background.

10.6 Non-RCRA Debris. Excavated soil and miscellaneous debris were screened prior to stockpiling using a mobile screening plant. The oversized material (greater than 6 inches) from the tipping reject grid (grizzly) and greater than 2 inches from the vibrating screen was manually segregated and stored on site in 26-cubic yard roll-off bins. Segregated debris included crushed waste drums, rocks, tree roots, small volumes of clumping soils, and miscellaneous construction debris.

The DON's RASO directed the Battelle Team to survey each roll-off bin since it is possible that the debris might contain discrete sources (that is, Ra-226 painted dial faces). Any soil or debris

measuring more than 1.5 times the background was segregated as LLRW and placed in the B-25 boxes. The segregated point sources were collected and placed in the 30-gallon 17C steel drum.

The segregated screened debris was classified as non-RCRA debris and was shipped to Chemical Waste Management Landfill for disposal. A total of 21 end dump trucks were utilized to transport 280.28 tons of non-RCRA to the CERCLA approved TSDF. A summary of non-RCRA waste debris volumes is listed in Table 19 and copies of the uniform hazardous waste manifest was submitted to the DON for signature. Original copies of the manifest were provided to the transporter and the TSDF (Appendix L-4).

Section 11: QUALITY CONTROL ACTIVITIES

QC was an ongoing activity at the site. A full-time QC Engineer was at the site any time fieldwork was in progress. The QC Engineer was authorized to stop work at any time due to quality issues. Subcontractors were also evaluated as to their qualifications to perform the required work and their activities were subject to QC inspection. This section addresses the forms used by the QC Engineer, the meetings held during the project, and the final inspection conducted at the conclusion of the site activities.

11.1 Forms. The Construction QC Report forms were filled out on a daily basis. These forms included information about the day's activities. Other forms used on this project include Field Change Request forms and Incident Report forms.

The Construction QC Report was prepared by the QC Engineer to show all inspections and tests and was submitted to the DON's representative. All inspection and testing activities performed were documented. The forms utilized were appropriate to the specialty area addressed and included attributes to be inspected, and acceptance criteria were recorded in the CQC Report.

11.2 QC Inspection Activities. The QC Engineer performed three phases of the control to ensure that work complied with contract requirements. The three phases of control included the following for each definable feature of work. A definable feature of work is a task that is separate and distinct from other tasks and requires separate control requirements.

Preparatory Phase

The preparatory phase inspection was documented in the CQC Report and consisted of the following:

- Review of each paragraph of the applicable sections of the *Final Remedial Design/Remedial Action Work Plan* (Battelle, 2000b)
- Review of the contract drawings
- Verification that submittals for materials and equipment had been submitted and approved. Verification of receipt of approved factory test results, when required
- Review of the testing plan and ensure that provisions had been made to provide the required QC testing
- Examination of the work area to ensure that the required preliminary work had been completed
- Examination of the required materials to ensure that they conform to the approved submitted data
- Review of the Health and Safety Plan and appropriate Activity Hazard Analysis to ensure that applicable safety requirements were met, and that required Material Safety Data Sheets (MSDS) were submitted
- Discussion of construction methods

Initial Phase

When the construction crew was ready to start work on a definable feature of work, the QC Engineer conducted the initial phase inspection with the Superintendent and the foreman responsible for that definable feature of work. They observed the initial segment of the definable feature of work to ensure that the work complied with the requirements. The QC Engineer documented the results of the initial phase in the daily report (Appendix F), and performed the following for each definable feature of work:

- Established the quality of workmanship required
- Resolved conflicts
- Reviewed the Health and Safety Plan and the appropriate Activity Hazard Analysis to ensure that applicable safety requirements were met
- Ensured that testing was performed by the approved laboratory

Follow-Up Phase

The QC engineer performed the following for ongoing work until the completion of each definable feature of work and documented in the daily CQC Report:

- Ensured that the work was in compliance with contract requirements
- Maintained the quality of workmanship required
- Ensured that testing was performed by the approved laboratory
- Ensured that rework items were being corrected.

11.3 Meeting. A project kickoff meeting was held on September 28, 2000, at the former NSLB and minutes of this meeting are included in Appendix D. QC meetings were scheduled on a weekly basis. Various preparatory phase meetings were held with site workers at the beginning of new definable features of work. These preparatory phase meetings were used to inform site workers of the requirements of the next phase of work. These meetings were documented in the QC Reports.

11.4 Final Inspection. A Final inspection was conducted on February 16, 2001, by the Site QC Engineer and the DON ROICC. This meeting was documented in the QC Report. Deficiencies were not found during this final inspection.

Section 12: SUMMARY

A Remedial Action was conducted at IR Sites 1 and 2 located in former NSLB, Long Beach, California, between October 9, 2000, and February 16, 2001. The Remedial Action involved demolition of concrete pads, drums/containers extraction, characterization, overpacking and off-site disposal, soil excavation, stockpile and classification, backfilling and compaction, monitoring well abandonment, off-site treatment and/or disposal of RCRA and non-RCRA soils, and on-site air monitoring activities. A total of 14,129 tons of non-RCRA soils and 566 tons of RCRA-contaminated soil, with COC concentrations above their respective RAOs, were excavated and removed from IR Sites 1 and 2. In addition, 280 tons of miscellaneous non-RCRA debris (crushed drums, metal debris, and so forth) and 67 leaking drums were overpacked and removed from the 1.4-acre excavation area. Other soil and debris were characterized to exceed the 1.5x background levels of radioactivy and were retained on site. The material was placed and sealed in six B-25 boxes and two drums adjacent to the heliport pad (Figure 6). As a result of this Remedial Action, the following RAOs have been achieved:

1. Exposure pathways for contaminated soils to human and ecological receptors have been eliminated.
2. Future impact to groundwater is minimized.
3. Off-site migration of contaminated soil has been controlled.
4. The site has been restored to a condition that would provide for the planned use of land.

As a result of the Remedial Action, the COC concentrations in the soil at IR Sites 1 and 2 no longer present a risk to humans, nor do they present an additional risk to groundwater. IAS/SVE is the selected remedial action for groundwater, and will be implemented more effectively as the continuous and reoccurrence of COC leaching from the contaminated soil layer has been minimized

Section 13: REFERENCES

Battelle. 1999. *Final Feasibility Study for Installation Restoration Sites 1 and 2, Naval Station Long Bach, Long Beach, California.*

Battelle. 2000a. *Final Record of Decision for Installation Restoration Sites 1 and 2, Naval Station Long Beach, Long Beach, California.* June.

Battelle. 2000b. *Final Remedial Design/Remedial Action Work Plan, Installation Restoration Sites 1 and 2, Long Beach Naval Complex, Long Beach, California.* September.

Battelle. 2001. *Final Radiation Report for Installation Restoration Sites 1 and 2 at Former Long Beach Naval Complex, Long Beach, California.* September 24.

Bechtel National, Inc. (BNI). 1996. *Final Remedial Investigation Report Installation Restoration Programs for Sites 1 through 6A, Naval Station Long Beach, Long Beach, California.* Volumes I through VIII.

Bechtel National, Inc. (BNI). 1997a. Final Appendix U of the *Final Remedial Investigation Report Installation Program for Sites 1 through 6A, Naval Station Long Beach, Long Beach, California.*

Bechtel National, Inc. (BNI). 1997b. *Final Remedial Investigation (RI) Report, Installation Restoration Program for West Basin (Site 7), Naval Station Long Beach, Long Beach, California.* Volumes I through IV.

State of California Water Resources Control Board (CWRCB). 1995. *Draft Functional Equivalent Document Amendment of the Water Quality Control Plan, Ocean Waters of California.* August 23.

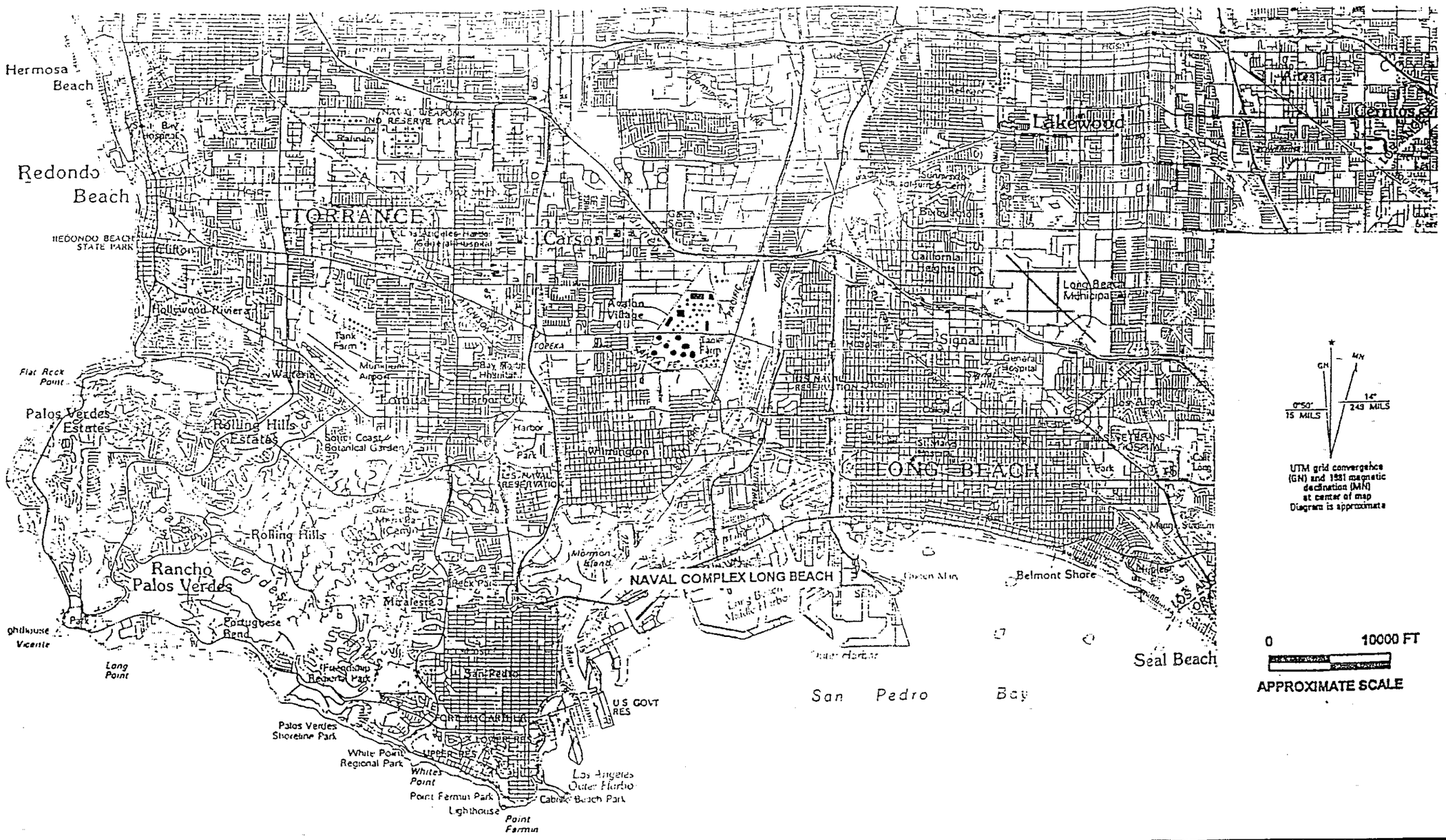
United States Department of the Navy (DON). 1983. Initial *Assessment Study of Naval Complex, Long Beach, California.* Naval Engineering and Environmental Support Activity.

United States Environmental Protection Agency (U.S. EPA). 1986. *Test Methods for Evaluating Solid Waste, Physical Chemical Methods, SW-846,* Third Edition and Final, Promulgated Updates. September.

United States Environmental Protection Agency (U.S. EPA). 1994. *Region 9 Preliminary Remediation Goals, Second Half 1994.* Region 9, San Francisco, California. August 1.

United States Environmental Protection Agency (U.S. EPA). 1998. *Region 9 Preliminary Remediation Goals.* December 3.

FIGURES



Base Map: USGS, 30 X 60 Minute Long Beach Quadrangle, photorevised 1981

SOURCE: BATTELLE, 1999

Figure 1
VICINITY MAP

IR SITES 1 AND 2
LONG BEACH NAVAL COMPLEX, LONG BEACH, CALIFORNIA

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

I:\1508-BATT\D032\SITES1&2\DWG\DRAFT06-26-01\FIG1.DWG
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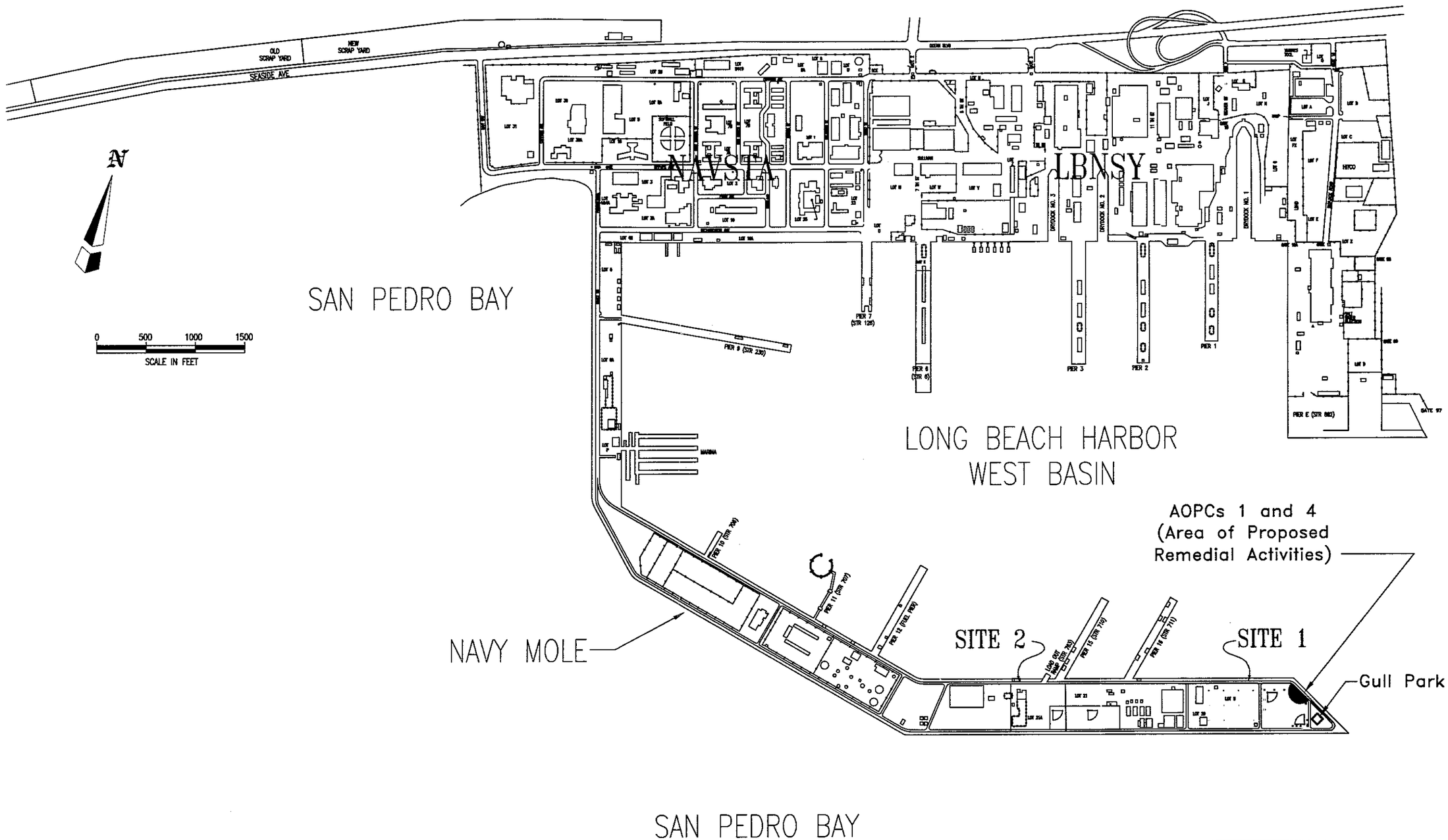

SOURCE: MODIFIED FROM BATTELLE, 1999

Figure 2
SITE LOCATION MAP

IR SITES 1 AND 2
FORMER NAVAL STATION LONG BEACH, LONG BEACH, CA

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

I:\1508-BATT\D032\SITES1&2\DWG\PH1_RAS&D_REMOVAL\FIG2.DWG
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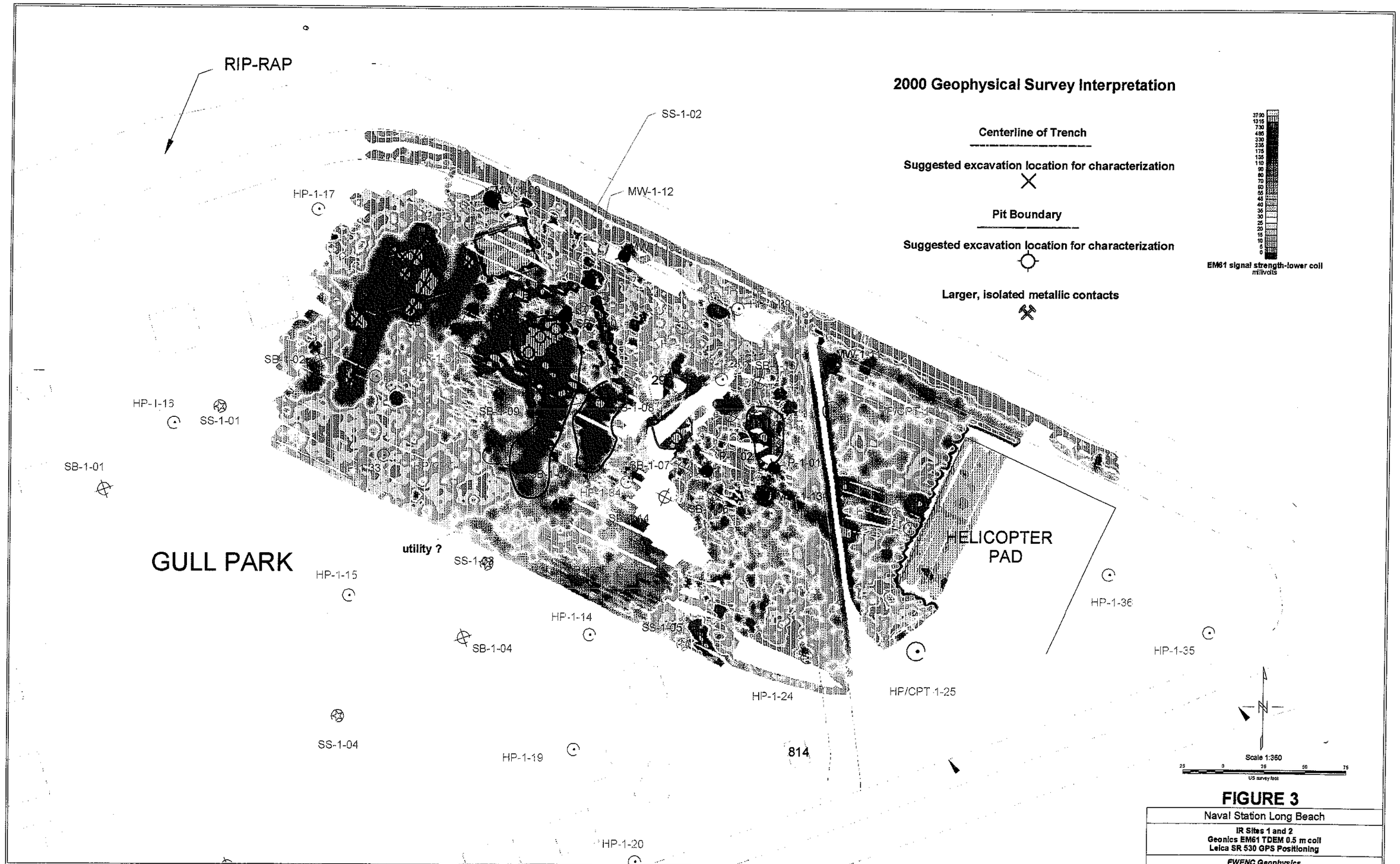

FIGURE 3

Naval Station Long Beach

IR Sites 1 and 2
Geonics EM61 TDEM 0.5 m coil
Leica SR 530 GPS Positioning

FWENC Geophysics

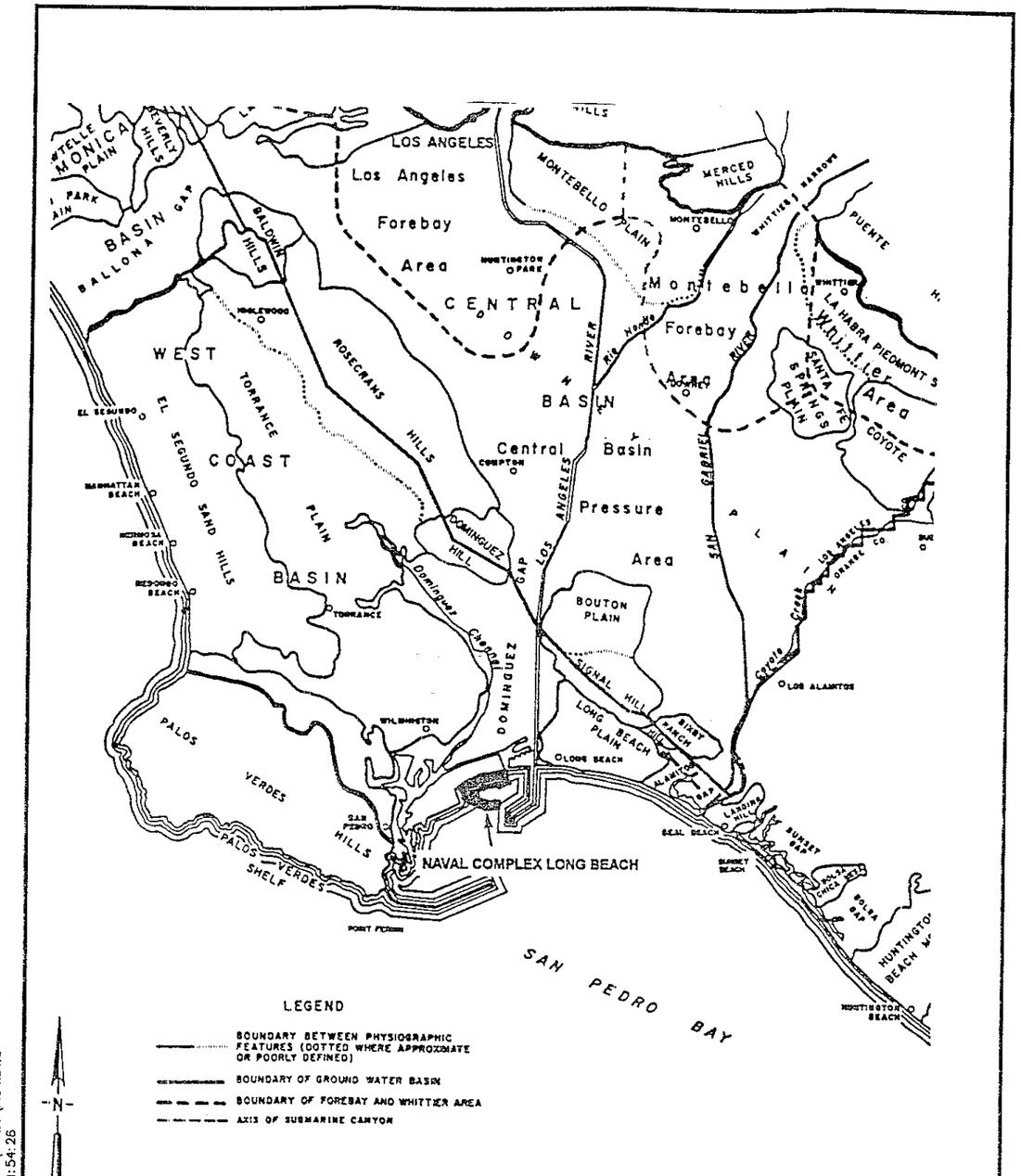

Figure 4
PHYSIOGRAPHIC FEATURES AND GROUNDWATER BASINS

IR SITES 1 AND 2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

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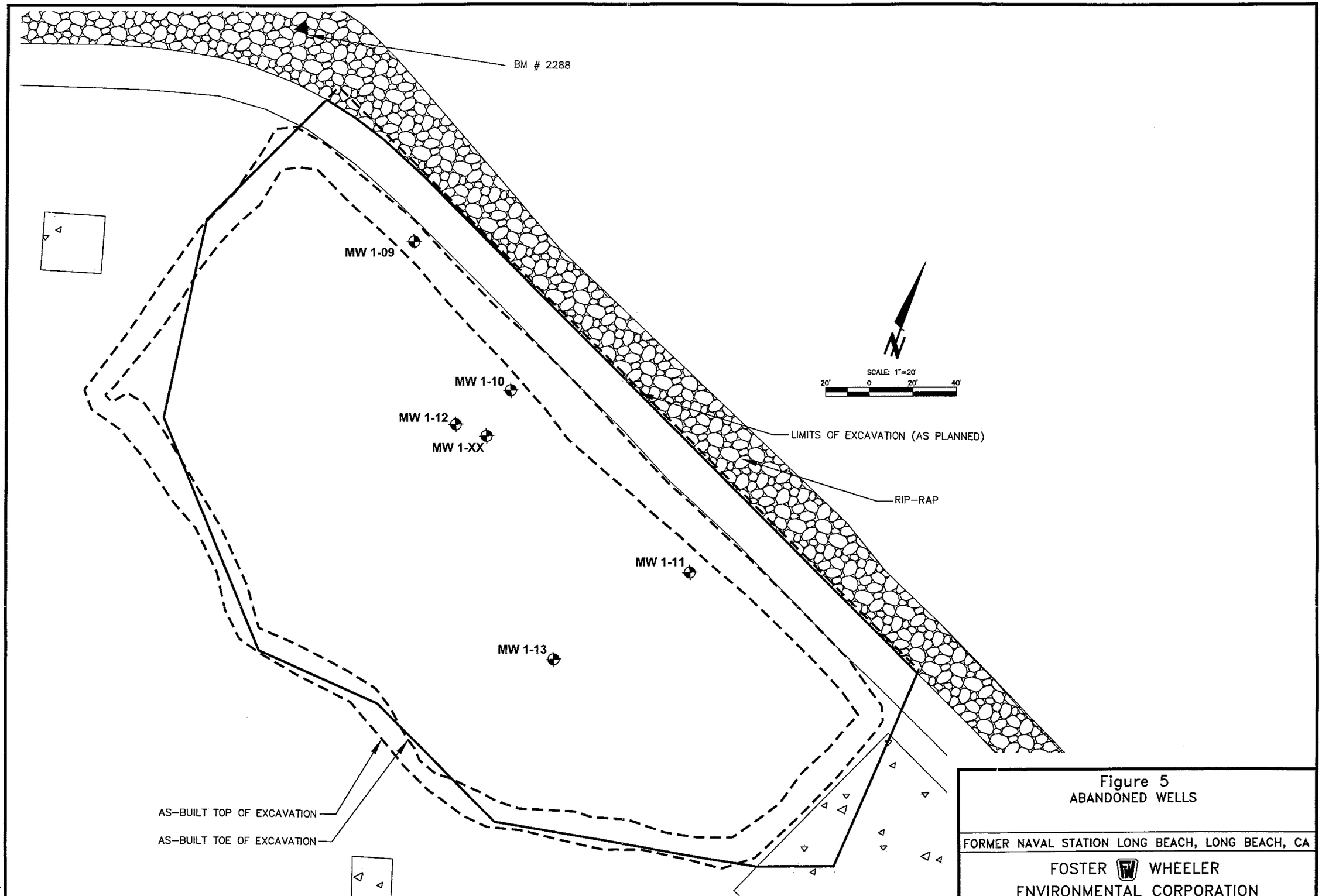

Figure 5
ABANDONED WELLS

FORMER NAVAL STATION LONG BEACH, LONG BEACH, CA

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

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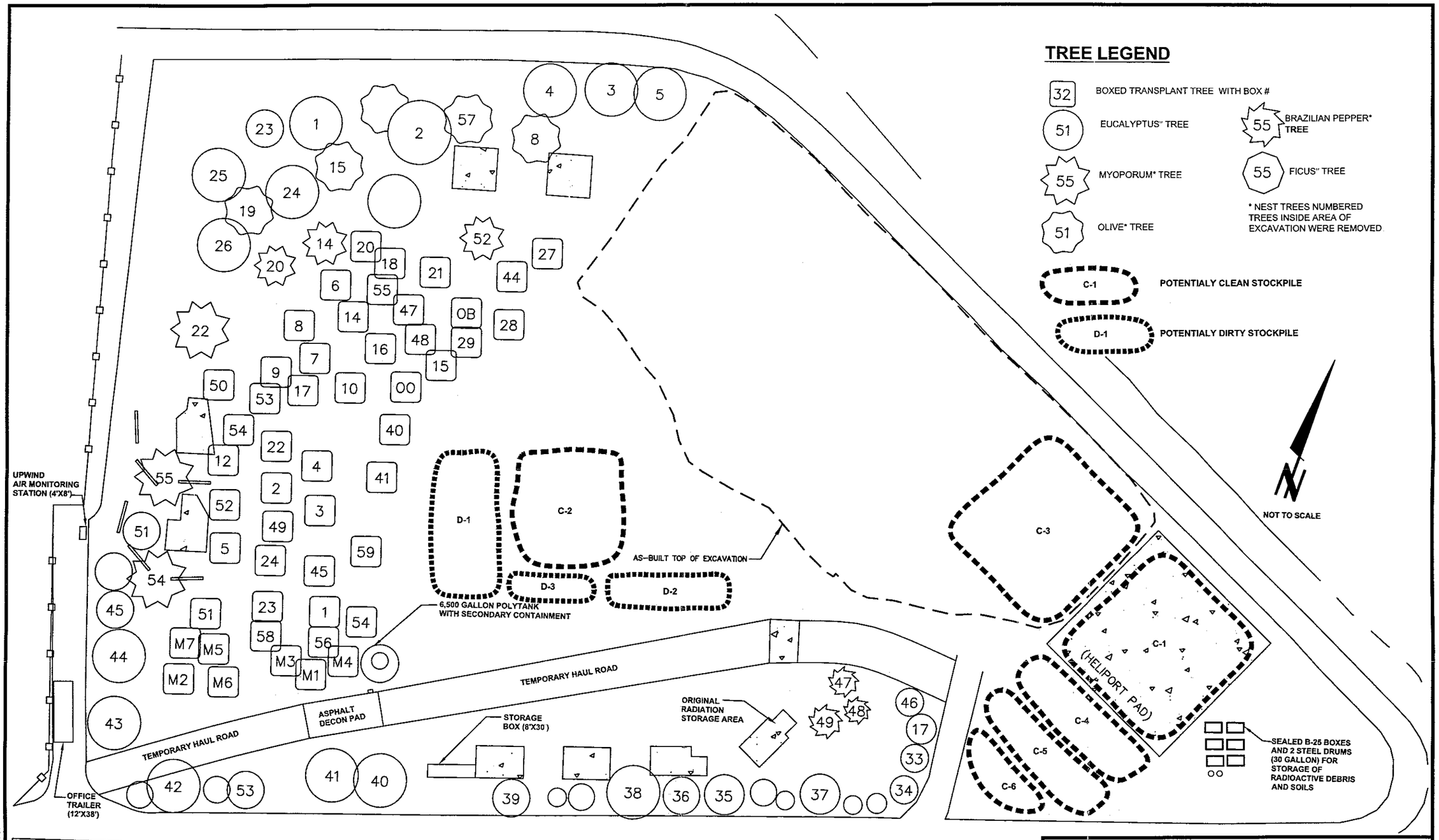

FIGURE 6
IR SITES 1 AND 2
TEMPORARY FACILITIES

FORMER NAVAL STATION LONG BEACH, LONG BEACH, CA

FOSTER WHEELER ENVIRONMENTAL CORPORATION

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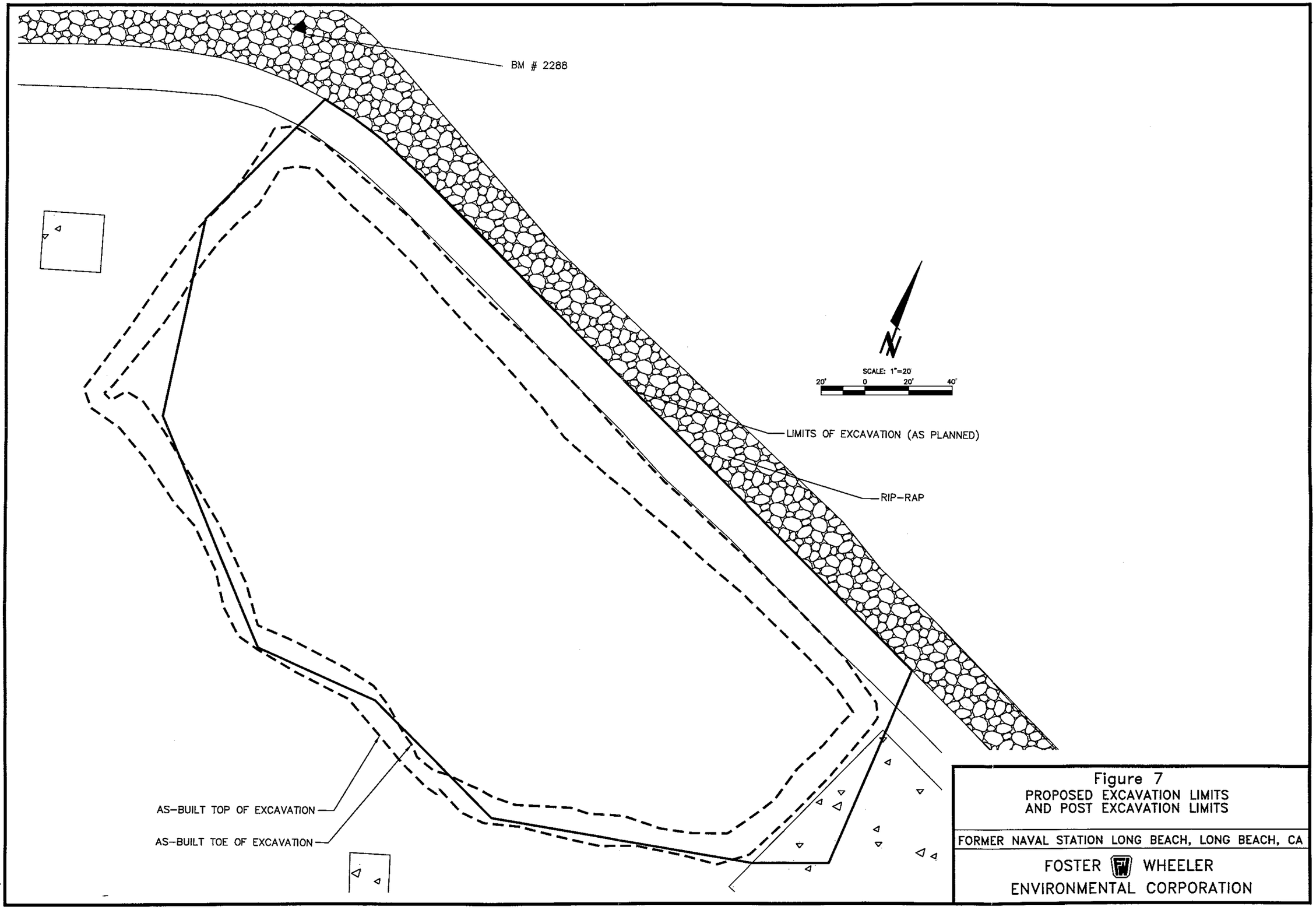

Figure 7
PROPOSED EXCAVATION LIMITS
AND POST EXCAVATION LIMITS

FORMER NAVAL STATION LONG BEACH, LONG BEACH, CA

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

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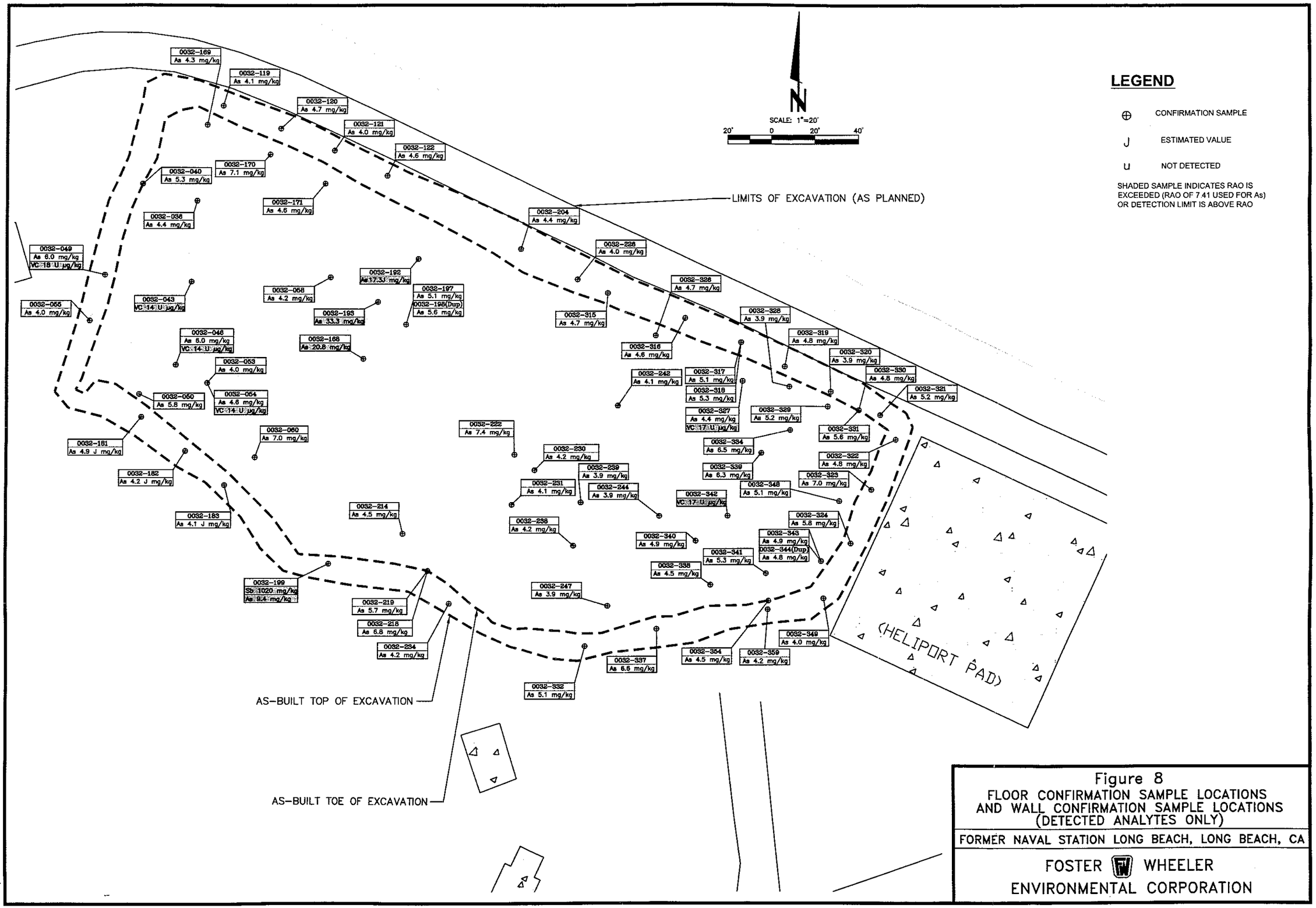

Figure 8
FLOOR CONFIRMATION SAMPLE LOCATIONS AND WALL CONFIRMATION SAMPLE LOCATIONS (DETECTED ANALYTES ONLY)

FORMER NAVAL STATION LONG BEACH, LONG BEACH, CA

FOSTER WHEELER ENVIRONMENTAL CORPORATION

I:\1508-BATT\D032\SITES1&2\DWG\PH1_RAS&D_REMOVAL\FIG8.DWG
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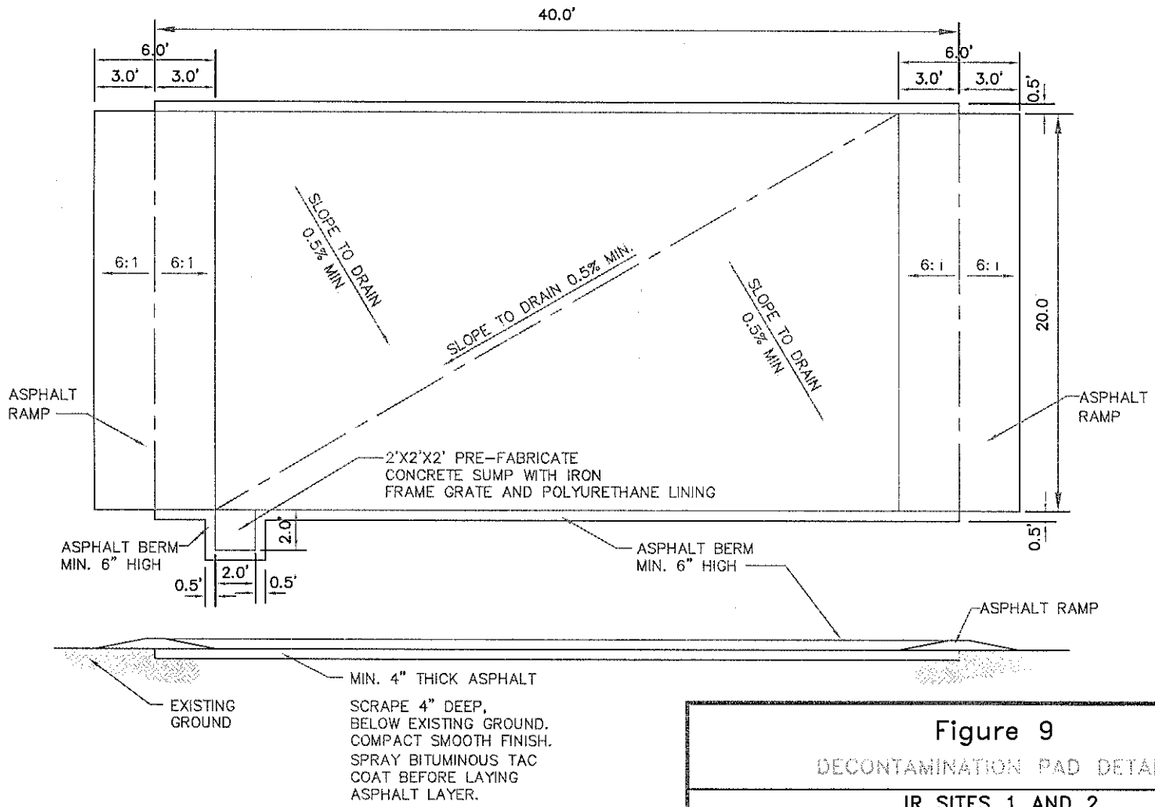

NOT TO SCALE

Figure 9

DECONTAMINATION PAD DETAILS

IR SITES 1 AND 2
FORMER NAVAL STATION LONG BEACH, LONG BEACH, CA

FOSTER WHEELER
ENVIRONMENTAL CORPORATION

TABLES

TABLE 1

RESULTS OF THE HHRA FOR IR SITES 1 AND 2

Estimates of Risk	Industrial Worker	Utility Maintenance Worker	Risk Drivers
ELCR	4.7×10^{-6}	1.0×10^{-6}	Soil: Arsenic (arsenic represents 60% of the total risk for the industrial and the utility maintenance worker), hexavalent chromium, and benzo(a) pyrene.
Hazard index	0.19	0.027	
99th percentile blood-lead level	4.8 µg/dL	3.9 µg/dL	Groundwater: VC (VC represents 31% of the total risk for the utility maintenance worker).

ELCR = excess lifetime cancer risk

µg/dL = micrograms per deciliter

VC = vinyl chloride

TABLE 2

COPCS DETECTED AT CONCENTRATIONS EXCEEDING STATISTICAL BACKGROUND AND THE INDUSTRIAL PRG IN SURFACE AND SUBSURFACE SOILS AT IR SITES 1 AND 2

AOPCs	COPCs in Soil (Surface or Subsurface)	Range of Concentrations[a] in Soil (mg/kg)	Ratio of Detected Concentration to Screen[b]	Screening Criteria[c]
1	Arsenic	7.67 to 7.92	1.04 to 1.07	Background
4	Arsenic	9.8	1.32	Background
	Cobalt	15.4	1.25	Background

Source: BNI (1996)

(a) Only one value is listed for those COPCs detected above screen at only one location.

(b) The ratio of the detected concentration of the COPC to the screening concentration (e g , background)

(c) Screening Criteria includes: PRG, which refers to EPA Region IX PRGs Second Half 1994 (EPA, 1994) for industrial soil and background, which refers to statistically calculated background metal concentrations values contained in Appendix H of the *Final RI Report* (BNI 1996).

AOPC = area of potential concern

COPC = chemical of potential concern

mg/kg = milligram per kilogram

TABLE 3

VOC ANALYTES DETECTED IN SOILS DURING THE SFA

Class/Analyte	Concentration Range (µg/kg)	Frequency of Detection [(a),(b)]	Industrial PRG[(c)] (µg/kg) Assuming a Risk of 10^{-6}	Industrial PRG[(c)] (µg/kg) Assuming a Risk of 10^{-4}	Ratio of Maximum Observed Concentration 10^{-4} Industrial PRGs[(c)]
2-Butanone	ND to 19	1/30	3.4E+07	3.4E+09	<.01
cis-1,2-DCE	ND to 3,500	10/15	2.0E+05	2.0E+07	<.01
trans-1,2-DCE	ND to 710	1/39	6.0E+05	6.0E+07	<.01
1,2-DCE (total)	ND to 3,600	11/30	2.7E+05	2.7E+07	<.01
Acetone	ND to 74	3/30	8.4E+06	8.4E+08	<.01
Carbon disulfide	ND to 10	4/30	5.2E+04	5.2E+06	<.01
Ethylbenzene	ND to 750	6/54	6.9E+05	6.9E+07	<.01
Perchloroethene	ND to 1	2/54	2.5E+04	2.5E+06	<.01
Toluene	ND to 52,000	12/54	2.8E+06	2.8E+08	<.01
Trichloroethene	ND to 780	23/54	1.7E+04	1.7E+06	<.01
VC	ND to 340	6/54	1.1E+01	1.1E+03	<.01
Xylenes (total)	ND to 85,000	13/54	9.9E+05	9.9E+07	<.01

Source: BNI (1997).

(a) Total number of samples and number of detects excluding field duplicates, matrix spike, and matrix spike duplicate samples where regular sample was analyzed; however, if duplicate or spike result was a detect and regular was a non detect, the higher result was retained

(b) Frequency detected = number of samples with detectable levels of compound divided by the total number of samples analyzed for that compound during the RI and SFA (excluding quality control samples.) Note that for SFA data, mobile laboratory analysis performed was 8010/8020 and does not include all VOC analytes as does the EPA CLP TCL VOC method

(c) Industrial PRGs (EPA, 1994) used to compare against VOC analytes

CLP = Contract Laboratory Program

DCE = dichloroethene

EPA = U.S. Environmental Protection Agency

µg/kg = micrograms per kilogram

ND = not detected in one or more samples

PRG = Preliminary remediation goals

SFA = Supplemental Field Analysis

TCL = target compound list

VC = vinyl chloride

VOCs = volatile organic compounds

TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-002	0032-003	0032-004	0032-005	0032-006	0032-007	0032-008	0032-009	0032-010	0032-011	0032-015	0032-016	0032-017	0032-018	0032-019	0032-033	0032-131	0032-132
		11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/06/00	11/21/00	11/21/00
General Chemistry																			
pH	--	7.74	8.23	7.99	8.33	8	8.12	8.28	8.19	8.06	8.11	8.31	7.61	7.98	7.24	7.98	7.51	na	na
Ignitability	°C	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	na	na
TTLC 17 Metals																			
Antimony	mg/kg	5.3 J	6.3	31	4.3 J	12.7	6	7.8	0.6 J	9	4.4 J	1.2 J	0.72 J	5.9 U	5.7 U	3.4 J	6.6	na	na
Arsenic	mg/kg	4.9	4.1	4.6	4.8	4.2	4.2	3.7	3.2	3.3	4.3	4.7	3.3	3.9	2.9	4.8	3.5	na	na
Barium	mg/kg	110	88.5	104	100	121	105	74.8	35	58.5	106	101	82.3	79.1	34.4	87.1	82.7	na	na
Beryllium	mg/kg	0.23 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.22 U	0.23 U	0.26 U	0.23 U	0.23 U	0.23 U	0.22 U	na	na
Cadmium	mg/kg	0.82	0.53	1.8	0.75	1.9	0.96	1.3	0.22 U	0.67	2.2	0.79	0.61	1.4	0.23 U	1.3	1	na	na
Chromium	mg/kg	31.4	26.9	62.4	28.6	69.3	35.3	49.1	6.4	18	35.5	38.5	33.4	86.9	5.6	65.9	44.4	na	na
Cobalt	mg/kg	9.6	8.3	9.8	8.6	9.7	8	7.6	5.3	6.4	8.4	9.1	6.2	8	4.3	9.1	8.3	na	na
Copper	mg/kg	499	400	1980	508	1960	679	1710	26.5	703	316	830	846	2430	17.9	1370	1420	na	na
Lead	mg/kg	166	157	375	115	362	160	272	5.7	116	94.5	173	126	324	3.4	281	226	na	na
Mercury	mg/kg	2	1.5	6.3	1.7	11.5	2.5	7.1	0.11 J	2.1	1.5	6.8	3.7	9.1	0.071 J	6.6	5	na	na
Molybdenum	mg/kg	0.23 U	0.21 U	0.5	0.22 U	0.57	0.092 J	0.26	0.22 U	0.23 U	0.22 U	0.14 J	0.26 U	0.58	0.23 U	0.61	0.24	na	na
Nickel	mg/kg	19.3	16.4	29.1	19.7	34	19.2	19.8	5.7	12.7	20.2	18.1	11.3	15.6	4.7	22.3	17.2	na	na
Selenium	mg/kg	1	1	0.96	1.2	1.4	0.67	1.6	0.38 J	1.1	0.83	0.46 J	0.59 J	0.67	0.21 J	0.74	0.81	na	na
Silver	mg/kg	0.13 J	0.52 U	0.7	0.55 U	0.52 J	0.24 J	0.31 J	0.56 U	0.16 J	1.3	0.12 J	0.13 J	0.11 J	0.57 U	0.20 J	0.35 J	na	na
Thallium	mg/kg	0.58 U	0.52 U	0.55 U	0.55 U	0.56 U	0.55 U	0.56 U	0.56 U	0.57 U	0.54 U	0.57 U	0.65 U	0.59 U	0.57 U	0.57 U	0.54 U	na	na
Vanadium	mg/kg	37.3	33.5	40.6	38.7	69.1	33.5	33.6	20.5	27.8	38.5	31.8	20.9	23.6	13.2	31.1	28.5	na	na
Zinc	mg/kg	338	280	942	352	978	562	670	33	353	433	497	407	961	22.2	850	704	na	na
Cyanide	mg/kg	2.9 U	2.6 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	2.7 U	2.8 U	3.2 U	2.9 U	2.9 U	2.9 U	2.7 U		
Leachable Metals																			
STLC Lead	µg/L		1990		355				na	4460				101	na			na	na
TCLP Lead	µg/L	211		740	48.3	870	851	1010	na	255	163	725	928	3.7 J	na	989	695	2460	2630
STLC Copper	µg/L		10300		14100				na	11800	24400			680	na			na	na
STLC Chromium	µg/L	na	na	1460	na	1720	na	1220	na	na	na	na	na	24.6 J	na	2500	na	na	na
STLC Mercury	µg/L	21.2	na	na	na	111	41.8	0.64	na	0.5 U	na	17.1	16.1	0.5 U	na	118	11	na	na
TCLP Mercury	µg/L	na	na	2.2	na	5.6	4	2.5	na	na	na	0.74	3.4	0.5 U	na	1.4	0.8	na	na
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1.2 U	1.0 U	1.5 U	0.04 J	1 J	1 J	0.4 J	1.1 U	1.6 U	1.1 U	1.5 U	1.8 U	1.4 U	0.2 J	1.6 U	1.1 U	na	na
Diesel	mg/kg	31 J	8 J	93	65	94 J	38	76 J	2 J	12 J	89	34 J	3 J	84	92	80	78	na	na
Motor Oil	mg/kg	270	49	570	260	980	221	800	22	120	800	320	33	750	780	620	750	na	na
Volatile Organic Compounds																			
Acetone	µg/kg	170 U	140 U	190 U	240 U	180 U	170 U	210 U	160 U	130 U	180 U	150 U	230 U	160 U	140 U	200 U	190 U	na	na
Benzene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Bromodichloromethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Bromoform	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Bromomethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
2-Butanone (MEK)	µg/kg	170 U	140 U	190 U	240 U	180 U	170 U	210 U	160 U	130 U	180 U	150 U	230 U	160 U	140 U	200 U	9.3 U	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-002	0032-003	0032-004	0032-005	0032-006	0032-007	0032-008	0032-009	0032-010	0032-011	0032-015	0032-016	0032-017	0032-018	0032-019	0032-033	0032-131	0032-132
Carbon disulfide	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Carbon tetrachloride	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Chlorobenzene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Dibromochloromethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Chloroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
2-Chloroethyl vinyl ether	µg/kg	85 U	70 U	96 U	120 U	89 U	87 U	100 U	79 U	64 U	89 U	76 U	120 U	80 U	72 U	99 U	93 U	na	na
Chloroform	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Chloromethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,1-Dichloroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,2-Dichloroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,1-Dichloroethene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
cis-1,2-Dichloroethene	µg/kg	10	7.0 U	2 J	2 J	55	37	10	7.9 U	6.4 U	3 J	7.6 U	8 J	6 J	5 J	9 J	9.3 U	na	na
trans-1,2-Dichloroethene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,2-Dichloropropane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
cis-1,3-Dichloropropene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
trans-1,3-Dichloropropene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Ethylbenzene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	10	10	1 J	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
2-Hexanone	µg/kg	85 U	70 U	96 U	120 U	89 U	8.7 U	100 U	79 U	64 U	89 U	76 U	120 U	80 U	72 U	99 U	9.3 U	na	na
Methylene chloride	µg/kg	4 J	7.0 U	9.6 U	6 J	5 J	8.7 U	6 J	7.9 U	3 J	8.9 U	9	10	5 J	7.2 U	9.9 U	9.3 U	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	85 U	70 U	96 U	120 U	89 U	87 U	100 U	79 U	64 U	89 U	76 U	120 U	80 U	72 U	1 J	93 U	na	na
Methyl tert-butyl ether	µg/kg	17 U	14 U	19 U	24 U	18 U	17 U	21 U	16 U	13 U	18 U	15 U	23 U	16 U	14 U	20 U	19 U	na	na
Styrene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,1,2,2-Tetrachloroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Tetrachloroethene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Toluene	µg/kg	8.5 U	7.0 U	9.6 U	12 U	1 J	1 J	1 J	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,1,1-Trichloroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
1,1,2-Trichloroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	9.3 U	na	na
Trichloroethene	µg/kg	10	7.0 U	2 J	7 J	96	69	20	7.9 U	0.8 J	3 J	7.6 U	11 J	10	7.2 U	7 J	4 J	na	na
1,1,2-Trichlorotrifluoroethane	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U			
Vinyl acetate	µg/kg	85 U	70 U	96 U	120 U	89 U	87 U	100 U	79 U	64 U	89 U	76 U	120 U	80 U	72 U	99 U	9.3 U	na	na
Vinyl chloride	µg/kg	8.5 U	7.0 U	9.6 U	12 U	8.9 U	8.7 U	10 U	7.9 U	6.4 U	8.9 U	7.6 U	12 U	8.0 U	7.2 U	9.9 U	93 U	na	na
Xylenes (Total)	µg/kg	25 U	21 U	29 U	37 U	71	86	19 J	24 U	19 U	27 U	23 U	35 U	24 U	22 U	30 U	28 U	na	na
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Acenapthylene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Anthracene	µg/kg	770 U	350 U	69 J	730 U	740 U	360 U	63 J	370 U	760 U	71 J	48 J	850 U	1600 U	760 U	180 J	2900 U	na	na
Benzoic acid	µg/kg	4000 U	1800 U	3800 U	3700 U	3800 U	1900 U	3800 U	1900 U	3900 U	3700 U	3900 U	4400 U	8000 U	3900 U	7800 U	15000 U	na	na
Benzo(a)anthracene	µg/kg	250 J	350 U	700 J	150 J	190 J	40 J	230 J	370 U	93 J	570 J	290 J	84 J	400 J	230 J	1590	680 J	na	na
Benzo(a)pyrene	µg/kg	230 J	350 U	690 J	160 J	200 J	51 J	210 J	370 U	110 J	630 J	130 J	850 U	380 J	89 J	460 J	700 J	na	na
Benzo(b)fluoranthene	µg/kg	410 J	31 J	1100	240 J	430 J	76 J	430 J	370 U	180 J	1090	500 J	850 U	720 J	440 J	2380	1100 J	na	na
Benzo(g,h,I)perylene	µg/kg	130 J	350 U	470 J	730 U	180 J	52 J	180 J	370 U	760 U	360 J	460 J	140 J	380 J	310 J	1500 U	650 J	na	na
Benzo(k)fluoranthene	µg/kg	220 J	350 U	400 J	97 J	160 J	32 J	150 J	370 U	69 J	450 J	200 J	850 U	240 J	150 J	1000 J	500 J	na	na
Bis(2-chloroethoxy) methane	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Bis(2-chloroethyl) ether	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na

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J: estimated value
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TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-002	0032-003	0032-004	0032-005	0032-006	0032-007	0032-008	0032-009	0032-010	0032-011	0032-015	0032-016	0032-017	0032-018	0032-019	0032-033	0032-131	0032-132
Bis(2-chloroisopropyl) ether	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	200 J	750 U	850 U	1600 U	760 U	160 J	2900 U	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	210 J	750 U	850 U	1600 U	93 J	1500 U	2900 U	na	na
4-Bromophenyl phenyl ether	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Butyl benzyl phthalate	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
4-Chloro-3-methylphenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
4-Chloroaniline	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2-Chloronaphthalene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2-Chlorophenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
4-Chlorophenyl phenyl ether	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Chrysene	µg/kg	300 J	22 J	794	170 J	250 J	52 J	280 J	370 U	120 J	640 J	340 J	97 J	450 J	300 J	1770	830 J	na	na
Di-n-butyl phthalate	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Di-n-octyl phthalate	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Dibenz(a,h)anthracene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	72 J	850 U	1600 U	57 J	120 J	2900 U	na	na
Dibenzofuran	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
1,2-Dichlorobenzene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
1,3 Dichlorobenzene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
1,4 Dichlorobenzene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
3,3'-Dichlorobenzidine	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2,4-Dichlorophenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Diethyl phthalate	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Dimethyl phthalate	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2,4-Dimethylphenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
4,6-Dinitro-2-methylphenol	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
2,4-Dinitrophenol	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
2,4-Dinitrotoluene	µg/kg	770 U	350 U	730 U	730 U	740 U	365	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2,6-Dinitrotoluene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Fluoranthene	µg/kg	410 J	34 J	1280	240 J	300 J	74 J	370 J	370 U	150 J	924	540 J	140 J	660 J	370 J	2880	1100 J	na	na
Fluorene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Hexachlorobenzene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Hexachlorobutadiene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Hexachlorocyclopentadiene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Hexachloroethane	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	120 J	350 U	430 J	100 J	170 J	40 J	170 J	370 U	66 J	360 J	350 J	96 J	330 J	250 J	930 J	630 J	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2-Methylphenol (o-cresol)	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2-Methylnapthalene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Napthalene	µg/kg	770 U	350 U	730 U	730 U	740 U	32 J	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2-Nitroaniline	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
3-Nitroaniline	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
4-Nitroaniline	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
Nitrobenzene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2-Nitrophenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
4-Nitrophenol	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
N-nitroso-di-n-propylamine	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	290 J	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
N-nitrosodiphenylamine	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na

Blue shading: result is above RAO --
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J: estimated value
na: not analyzed
U: not detected

TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-002	0032-003	0032-004	0032-005	0032-006	0032-007	0032-008	0032-009	0032-010	0032-011	0032-015	0032-016	0032-017	0032-018	0032-019	0032-033	0032-131	0032-132
Pentachlorophenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Phenanthrene	µg/kg	190 J	350 U	560 J	110 J	160 J	34 J	160 J	370 U	61 J	400 J	190 J	850 U	300 J	170 J	1100 J	430 J	na	na
Phenol	µg/kg	770 U	350 U	200 J	730 U	370 J	360 U	220 J	370 U	760 U	380 J	750 U	850 U	340 J	760 U	310 J	480 J	na	na
Pyrene	µg/kg	380 J	27 J	974	200 J	260 J	57 J	300 J	370 U	130 J	867	330 J	88 J	440 J	260 J	1870	960 J	na	na
1,2,4-Trichlorobenzene	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
2,4,5-Trichlorophenol	µg/kg	3700 U	1700 U	3500 U	3500 U	3600 U	1800 U	3600 U	1800 U	3700 U	3400 U	3600 U	4100 U	7500 U	3700 U	7300 U	14000 U	na	na
2,4,6-Trichlorophenol	µg/kg	770 U	350 U	730 U	730 U	740 U	360 U	730 U	370 U	760 U	710 U	750 U	850 U	1600 U	760 U	1500 U	2900 U	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Beta-BHC	µg/kg	1.2 U	1.0 U	4.4	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Alpha-BHC	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Delta-BHC	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Gamma-BHC (Lindane)	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
alpha-chlordane	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	4	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	54 U	na	na
gamma-chlordane	µg/kg	1	1.0 U	1.1 U	1.1 U	2.5	5.5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	2	54 U	na	na
4,4'-DDD	µg/kg	2.3 U	2.1 U	3	2 J	6.9	2.2 U	2.2 U	2.2 U	2.3 U	3	3	5	2.3 U	2.3 U	4	2.2 U	na	na
4,4'-DDE	µg/kg	3	1 J	2.2 U	1 J	2.2 U	2.2 U	2.2 U	2.2 U	3	3	2 J	2 J	2.3 U	2.3 U	2 J	2.2 U	na	na
4,4'-DDT	µg/kg	20	3	14	6.1	15	2.2 U	9.8	2.2 U	6.6	18	11	8.3	34	2.3 U	12	8.8	na	na
Dieldrin	µg/kg	2.3 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.3 U	3	2.3 U	2.3 U	6.5	2.2 U	na	na
Endosulfan I	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Endosulfan II	µg/kg	2.3 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.3 U	2.6 U	2.3 U	2.3 U	2.3 U	2.2 U	na	na
Endosulfan sulfate	µg/kg	5.8 U	5.2 U	5.5 U	5.5 U	5.6 U	5.5 U	5.6 U	5.6 U	5.7 U	5.4 U	5.7 U	6.5 U	5.9 U	5.7 U	5.7 U	5.4 U	na	na
Endrin	µg/kg	2.3 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.3 U	2.6 U	2.3 U	2.3 U	2.3 U	2.2 U	na	na
Endrin aldehyde	µg/kg	3	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.3 U	2.6 U	2.3 U	2.3 U	2.3 U	2.2 U	na	na
Endrin ketone	µg/kg	2.3 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.3 U	2.6 U	2.3 U	2.3 U	2.3 U	2.2 U	na	na
Heptachlor	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.5 J	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Hepatchlor epoxide	µg/kg	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	na	na
Methoxychlor	µg/kg	14	10 U	11 U	11 U	11 U	11 U	11 U	11 U	11 J	11 Y	8 J	13 U	12 U	11 U	11 U	11 U	na	na
Toxaphene	µg/kg	120 U	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	130 U	120 U	110 U	110 U	110 U	na	na
Aroclor-1016	µg/kg	58 U	52 U	55 U	55 U	56 U	55 U	56 U	56 U	57 U	54 U	57 U	65 U	59 U	57 U	57 U	54 U	na	na
Aroclor-1221	µg/kg	120 U	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	130 U	120 U	110 U	110 U	110 U	na	na
Aroclor-1232	µg/kg	58 U	52 U	55 U	55 U	56 U	55 U	56 U	56 U	57 U	54 U	57 U	65 U	59 U	575 U	57 U	54 U	na	na
Aroclor-1242	µg/kg	58 U	52 U	55 U	55 U	56 U	55 U	56 U	56 U	57 U	54 U	57 U	65 U	59 U	57 U	57 U	54 U	na	na
Aroclor-1248	µg/kg	58 U	52 U	55 U	55 U	56 U	55 U	56 U	56 U	57 U	54 U	57 U	65 U	59 U	57 U	57 U	54 U	na	na
Aroclor-1254	µg/kg	29 U	26 U	28 U	28 U	28 U	27 U	28 U	28 U	29 U	27 U	28 U	32 U	29 U	29 U	28 U	27 U	na	na
Aroclor-1260	µg/kg	48	26 U	98	51	110	110	110	28 U	20 J	150	44	32 U	72	49	80	83	na	na

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TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-133	0032-134	0032-135	0032-136	0032-137	0032-152	0032-153	0032-154	0032-155	0032-156	0032-157	0032-158	0032-159	0032-160	0032-161	0032-162	0032-163	0032-164
		11/21/00	11/21/00	11/21/00	11/21/00	11/21/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00
General Chemistry																			
pH	--	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Ignitability	°C	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TTLC 17 Metals																			
Antimony	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Arsenic	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Barium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beryllium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cadmium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chromium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cobalt	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Copper	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Molybdenum	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nickel	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Selenium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Silver	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Thallium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vanadium	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Zinc	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cyanide	mg/kg																		
Leachable Metals																			
STLC Lead	µg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TCLP Lead	µg/L	470	3340	2130	4050	[redacted]	3020	2680	1570	2850	3830	[redacted]	609	1610	2860	1520	2630	368	2970
STLC Copper	µg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
STLC Chromium	µg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
STLC Mercury	µg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TCLP Mercury	µg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diesel	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Motor Oil	mg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Volatile Organic Compounds																			
Acetone	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bromodichloromethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bromoform	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bromomethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Butanone (MEK)	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

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TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-133	0032-134	0032-135	0032-136	0032-137	0032-152	0032-153	0032-154	0032-155	0032-156	0032-157	0032-158	0032-159	0032-160	0032-161	0032-162	0032-163	0032-164
Carbon disulfide	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon tetrachloride	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chlorobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibromochloromethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloroethyl vinyl ether	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na						
Chloroform	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloromethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-1,2-Dichloroethene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-1,2-Dichloroethene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichloropropane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-1,3-Dichloropropene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Ethylbenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Hexanone	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl tert-butyl ether	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tetrachloroethene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toluene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,1-Trichloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Trichloroethene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichlorotrifluoroethane	µg/kg																		
Vinyl acetate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl chloride	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Xylenes (Total)	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-133	0032-134	0032-135	0032-136	0032-137	0032-152	0032-153	0032-154	0032-155	0032-156	0032-157	0032-158	0032-159	0032-160	0032-161	0032-162	0032-163	0032-164
Bis(2-chloroisopropyl) ether	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloro-3-methylphenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Napthalene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading result is above RAO
Red shading result is above TTLC/STLC/TCLP limits

J estimated value
na not analyzed
U not detected

TABLE 4

ANALYTICAL RESULTS FOR STOCKPILE C-1

Analyte	UNITS	0032-133	0032-134	0032-135	0032-136	0032-137	0032-152	0032-153	0032-154	0032-155	0032-156	0032-157	0032-158	0032-159	0032-160	0032-161	0032-162	0032-163	0032-164
Pentachlorophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

J: estimated value
na: not analyzed
U: not detected

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

TABLE 5

ANALYTICAL RESULTS FOR STOCKPILE C-2

Analyte	UNITS	0032-062	0032-063	0032-064	0032-065	0032-066	0032-067	0032-068	0032-069	0032-070	0032-071	0032-072	0032-073	0032-074	0032-075	0032-090	0032-091	0032-092	0032-093	0032-094
		11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/15/00	11/15/00	11/15/00	11/15/00	11/15/00
General Chemistry																				
pH	--	7.9	8.09	7.91	7.87	8.12	8.03	7.44	7.98	8.13	8.16	8.32	7.74	8.16	8.31	7.94	7.73	8.31	8.27	8.44
Ignitability	°C	>100	>100	>100	>100	>100	55.2	>100	>100	>100	>100	>100	>100	>100	53.2	>100	>100	>100	>100	>100
TTLC 17 Metals																				
Antimony	mg/kg	5.4 U	4.2 J	1.3 J	5.6	2.9 J	5.5 U	5.5 U	4.4 J	72.3	5.4 U	0.86 J	71.3	5.4 U	1.3 J	0.49 J	5.2 U	5.3 U	5.6 U	5.2 U
Arsenic	mg/kg	7.2	6.7	5.9	9.9	5.8	3.9	4.6	5.9	9.4	4.1	5.2	9.5	6.6	4.4	10.8	52.2	3.6	4.4	4
Barium	mg/kg	75	83.1	85.8	72.1	80.8	86.9	69.3	88.1	87.7	68.9	68.5	81.9	80.4	69.2	82.2	75.2	63.8	99.2	101
Beryllium	mg/kg	0.22 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.43 U	0.21 U	0.21 U	0.22 U	0.21 U
Cadmium	mg/kg	0.31	0.41	0.43	0.32	0.59	0.33	0.23	0.61	1.1	0.18 J	0.24	0.43	0.2 J	0.24	1.2	0.59	0.078 J	0.19 J	0.38
Chromium	mg/kg	20.5	22.4	40	29	39.5	82	19.7	25.8	80.7	14.9	17.4	32.8	19.8	20.3	44.7	12.9	12.6	20.2	22.5
Cobalt	mg/kg	8.5	8.5	9.2	8	9.5	9.3	8.6	8.6	9.9	8.3	7.9	9.1	8.9	6.8	8.8	9.7	7.1	8.8	8.6
Copper	mg/kg	134	149	153	156	307	275	151	340	846	79.1	127	174	58.7	95.3	2430	130	63.8	121	294
Lead	mg/kg	44.5	72.2	73.4	69.3	140	66.3	31.8	100	211	17.3	33.5	54.5	18.4	35.8	166	56.9	13.8	36.4	65.5
Mercury	mg/kg	0.46	2.5	0.23	1.3	4.7	8.5	0.20 J	0.74	4.4	0.25	0.84	0.78	0.8	2.1	0.38	0.82	0.35	0.58	0.21
Molybdenum	mg/kg	0.22 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.21 U	0.4	0.22 U	0.21 U	0.21 U	0.37	0.22 U	0.43 U	0.21 U	0.21 U	0.22 U	0.21 U
Nickel	mg/kg	14.1	16.5	15.5	14.1	14.9	9.6	12.1	17.3	21.7	11.1	12.7	15.6	12.7	11	17.3	10.3	9.3	14.2	16.6
Selenium	mg/kg	1.1	0.84	0.99	0.46 J	0.52 J	0.24 J	0.53 J	0.52 J	1.1	0.79	0.68	0.62	0.31 J	0.62	0.48 J	0.52 U	0.096 J	0.56 U	0.55
Silver	mg/kg	0.54 U	0.53 U	0.56 U	0.55 U	0.033 J	0.55 U	0.55 U	0.064 J	0.11 J	0.54 U	0.54 U	0.53 U	0.54 U	0.54 U	0.46 J	0.52 U	0.53 U	0.56 U	0.52 U
Thallium	mg/kg	0.54 U	0.53 U	0.56 U	0.55 U	0.54 U	0.55 U	0.55 U	0.53 U	0.55 U	0.54 U	0.54 U	0.53 U	0.54 U	0.54 U	1.1 U	0.52 U	0.53 U	0.56 U	0.52 U
Vanadium	mg/kg	33.7	33.5	38.4	31.2	31.5	28.3	31.9	32.2	36.2	30.1	31.2	30.3	32	23.9	30.6	26.2	25.5	32.9	34.9
Zinc	mg/kg	147	201	382	153	292	268	115	355	580	86.4	122	223	86.4	117	248	184	63.2	124	268
Cyanide	mg/kg	2.7 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.6 U	2.6 U	2.8 U	2.6 U
Leachable Metals																				
STLC Lead	µg/L	1740	1860	4900	4360	6160	6080	4470	6570	9800	1190	2670	2880	1840	1540	1480	716	628	2230	1020
TCLP Lead	µg/L	70.6 J	93.8 J	300	290	57.8 J	104	1890	296	678	92.2 J	498	171	24.6	13.4	62.3	5.6 J	4.1 J	164	30.1
STLC Copper	µg/L	14700	6100	12500	16600	13400	13100	15400	25100	56300	5420	9450	10300	4610	8020	6290	2970	3980	9910	3580
STLC Chromium	µg/L	273	233	355	774	1040	1030	3870	525	1510	842	302	403	248	302	188	101	119	367	131
TCLP Chromium	µg/L	18.2	14	20.2	60.1	38.5	264	8.8 J	36.4	83.1	35.8	22.6	18.1	13.5	8.9 J	10.1	2.3 J	7.9 J	16	6.3 J
STLC Mercury	µg/L	2.2	2.3	4.8	1.7	14	4.7	5.2	10.9	15	1.6	1.6	2.4	1.3	5.5	2.2	1.2	0.5 U	3	1
TCLP Mercury	µg/L	0.35 J	0.33 J	0.47 J	0.24 J	0.46 J	0.93	0.37 J	1.3	4.1	0.83	0.35 J	0.29 J	0.23 J	0.28 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Petroleum Hydrocarbons																				
Gasoline	mg/kg	0.7 J	3	0.7 J	11	90	420	2	0.03 J	7.3	1 J	0.03 J	10	0.2 J	3.5	0.3 J	1.0 U	1.1 U	0.1 J	0.01 J
Diesel	mg/kg	34	51	85	230	400	270	28	27	110 J	16	21	140	100	280	140	12	21	130	15
Motor Oil	mg/kg	94	150	232	360	590	910	200	230	1200	110	94	210	235	690	380	47	100	223	63
Volatile Organic Compounds																				
Acetone	µg/kg	100 U	110 U	120 U	9 J	7 J	7 J	110 U	120 U	130 U	85 J	120 U	25 J	110 U	120 U	110 U	110 U	100 U	120 U	98 U
Benzene	µg/kg	5.1 U	5.7 U	6.1 U	2 J	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Bromodichloromethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Bromoform	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Bromomethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
2-Butanone (MEK)	µg/kg	100 U	110 U	120 U	120 U	110 U	120 U	110 U	120 U	130 U	120 U	120 U	250 U	110 U	120 U	4 J	4 J	3 J	120 U	3 J
Carbon disulfide	µg/kg	5.1 U	5.7 U	6.1 U	1 J	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	1 J	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Carbon tetrachloride	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Chlorobenzene	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U

J: estimated value
na: not analyzed
U: not detected

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

TABLE 5

ANALYTICAL RESULTS FOR STOCKPILE C-2

Analyte	UNITS	0032-062	0032-063	0032-064	0032-065	0032-066	0032-067	0032-068	0032-069	0032-070	0032-071	0032-072	0032-073	0032-074	0032-075	0032-090	0032-091	0032-092	0032-093	0032-094
Dibromochloromethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Chloroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
2-Chloroethyl vinyl ether	µg/kg	51 U	57 U	61 U	60 U	56 U	60 U	56 U	60 U	63 U	59 U	60 U	120 U	56 U	58 U	56 U	55 U	52 U	60 U	49 U
Chloroform	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	2 J	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Chloromethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,1-Dichloroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,2-Dichloroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,1-Dichloroethene	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
cis-1,2-Dichloroethene	µg/kg	16	25	97	40	5.6 U	1 J	10	40	21	0.8 J	2 J	10 J	58	10	22	14	5	3 J	4.9 U
trans-1,2-Dichloroethene	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,2-Dichloropropane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
cis-1,3-Dichloropropene	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
trans-1,3-Dichloropropene	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Ethylbenzene	µg/kg	5.1 U	5.7 U	6.1 U	8	1 J	2 J	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	31	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
2-Hexanone	µg/kg	5.1 U	57 U	61 U	60 U	56 U	60 U	56 U	60 U	63 U	59 U	60 U	120 U	56 U	58 U	56 U	55 U	52 U	60 U	49 U
Methylene chloride	µg/kg	2 J	2 J	3 J	10	2 J	2 J	5.6 U	31	22	2 J	4 J	6 J	2 J	3 J	5.6 U	3 J	3 J	6.0 U	3 J
4-Methyl-2-pentanone (MIBK)	µg/kg	51 U	57 U	61 U	2 J	2 J	3 J	56 U	60 U	63 U	59 U	60 U	120 U	56 U	58 U	56 U	55 U	52 U	60 U	49 U
Methyl tert-butyl ether	µg/kg	10 U	11 U	12 U	12 U	11 U	12 U	11 U	12 U	13 U	12 U	12 U	25 U	11 U	12 U	11 U	11 U	10 U	12 U	9.8 U
Styrene	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,1,2,2-Tetrachloroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Tetrachloroethene	µg/kg	0.5 J	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	1 J	0.6 J	5.2 U	6.0 U	4.9 U
Toluene	µg/kg	5.1 U	5.7 U	6.1 U	2 J	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	7 J	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,1,1-Trichloroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
1,1,2-Trichloroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Trichloroethene	µg/kg	1530	328	2370	1430	13	27	455	2480	3030	69	63	9020	275	367	1380	3360	56	83	4 J
1,1,2-Trichlorotrifluoroethane	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5 U	5.6 U	5.5 U	5.2 U	4.9 U
Vinyl acetate	µg/kg	51 U	57 U	61 U	60 U	56 U	60 U	56 U	60 U	63 U	59 U	60 U	120 U	56 U	58 U	56 U	55 U	52 U	60 U	49 U
Vinyl chloride	µg/kg	5.1 U	5.7 U	6.1 U	6.0 U	5.6 U	6.0 U	5.6 U	6.0 U	6.3 U	5.9 U	6.0 U	12 U	5.6 U	5.8 U	5.6 U	5.5 U	5.2 U	6.0 U	4.9 U
Xylenes (Total)	µg/kg	0.9 J	17 U	18 U	49	110	526	17 U	18 U	19 U	18 U	18 U	230	17 U	17 U	17 U	16 U	16 U	18 U	15 U
Leachable Volatiles																				
TCLP Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	ND	ND	ND	ND	5 U	5 U	5 U	5 U	5 U
TCLP 2-butanone (MEK)	µg/L	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	ND	ND	ND	ND	9 J	9 J	9 J	9 J	10 J
TCLP Carbon Tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	ND	ND	ND	ND	5 U	5 U	5 U	5 U	5 U
TCLP Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	ND	ND	ND	ND	5 U	5 U	5 U	5 U	5 U
TCLP Chloroform	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	ND	ND	ND	ND	10 U	10 U	10 U	10 U	10 U
TCLP 1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	ND	ND	ND	ND	5 U	5 U	5 U	5 U	5 U
TCLP 1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	ND	ND	ND	ND	5 U	5 U	5 U	5 U	5 U
TCLP Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	ND	ND	ND	ND	5 U	5 U	5 U	5 U	5 U
TCLP Trichloroethene	µg/L	4 J	9	10	4 J	0.8 J	3 J	3 J	7	10	0.8 J	2 J	4 J	3 J	2 J	1 J	12	5 U	1 J	5 U
TCLP Vinyl Chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	ND	ND	ND	ND	10 U	10 U	10 U	10 U	10 U
Semivolatile Organic Compounds																				
Acenapthene	µg/kg	710 U	350 U	730 U	540 J	360 J	1240	360 U	86 J	720 U	360 U	710 U	350 U	350 U	120 J	700 U	350 U	350 U	370 U	690 U
Acenapthylene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Anthracene	µg/kg	710 U	350 U	730 U	340 J	170 J	746	360 U	180 J	170 J	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	180 J	690 U
Benzoic acid	µg/kg	3700 U	1800 U	3800 U	3800 U	3700 U	3800 U	1900 U	1800 U	3700 U	1800 U	3600 U	1800 U	1800 U	1800 U	3600 U	1800 U	1800 U	1900 U	3500 U
Benzo(a)anthracene	µg/kg	710 U	350 U	730 U	360 J	180 J	1190	360 U	280 J	370 J	360 U	710 U	350 U	350 U	140 J	700 U	350 U	350 U	250 J	690 U
Benzo(a)pyrene	µg/kg	710 U	350 U	730 U	190 J	210 J	580 J	360 U	210 J	210 J	360 U	710 U	350 U	350 U	130 J	700 U	350 U	87 J	370 U	160 J

Blue shading result is above RAO
Red shading result is above TTLC/STLC/TCLP limits

J estimated value
na not analyzed
U not detected

TABLE 5

ANALYTICAL RESULTS FOR STOCKPILE C-2

Analyte	UNITS	0032-062	0032-063	0032-064	0032-065	0032-066	0032-067	0032-068	0032-069	0032-070	0032-071	0032-072	0032-073	0032-074	0032-075	0032-090	0032-091	0032-092	0032-093	0032-094
Benzo(b)fluoranthene	µg/kg	710 U	350 U	730 U	360 J	340 J	1270	57 J	340 J	400 J	68 J	180 J	100 J	350 U	240 J	700 U	350 U	120 J	290 J	220 J
Benzo(g,h,I)perylene	µg/kg	710 U	350 U	730 U	730 U	410 J	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Benzo(k)fluoranthene	µg/kg	710 U	350 U	730 U	170 J	710 U	490 J	360 U	140 J	180 J	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	120 J	690 U
Bis(2-chloroethoxy) methane	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Bis(2-chloroethyl) ether	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Bis(2-chloroisopropyl) ether	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Bis(2-ethyhexyl) phthalate	µg/kg	710 U	350 U	730 U	180 J	190 J	140 J	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
4-Bromophenyl phenyl ether	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Butyl benzyl phthalate	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
4-Chloro-3-methylphenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
4-Chloroaniline	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	1400 U	720 U	720 U	730 U	1400 U	700 U	710 U	750 U	1400 U
2-Chloronaphthalene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2-Chlorophenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
4-Chlorophenyl phenyl ether	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Chrysene	µg/kg	710 U	350 U	730 U	350 J	260 J	1070	360 U	290 J	340 J	360 U	710 U	350 U	350 U	120 J	700 U	350 U	350 U	200 J	690 U
Di-n-butyl phthalate	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Di-n-octyl phthalate	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Dibenz(a,h)anthracene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Dibenzofuran	µg/kg	710 U	350 U	730 U	320 J	710 U	440 J	360 U	98 J	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
1,2-Dichlorobenzene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
1,3 Dichlorobenzene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
1,4 Dichlorobenzene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
3,3'-Dichlorobenzidine	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2,4-Dichlorophenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Diethyl phthalate	µg/kg	710 U	350 U	720 J	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Dimethyl phthalate	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2,4-Dimethylphenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
4,6-Dinitro-2-methylphenol	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U
2,4-Dinitrophenol	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U
2,4-Dinitrotoluene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2,6-Dinitrotoluene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Fluoranthene	µg/kg	710 U	350 U	730 U	1180	470 J	3700	71 J	619	989	96 J	350 J	190 J	350 U	330 J	700 U	350 U	130 J	593	220 J
Fluorene	µg/kg	710 U	350 U	730 U	480 J	380 U	1140	360 U	140 J	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	88 J	690 U
Hexachlorobenzene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Hexachlorobutadiene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Hexachlorocyclopentadiene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	960 U	480 U	480 U	490 U	960 U	470 U	480 U	500 U	940 U
Hexachloroethane	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Indeno(1,2,3-cd)pyrene	µg/kg	710 U	350 U	730 U	130 J	710 U	250 J	360 U	120 J	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
3/4-Methylphenol (m/p-cresol)	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2-Methylphenol (o-cresol)	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2-Methylnaphthalene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Napthalene	µg/kg	710 U	350 U	730 U	909	924	2800	360 U	350 U	720 U	360 U	710 U	110 J	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2-Nitroaniline	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U
3-Nitroaniline	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U
4-Nitroaniline	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U
Nitrobenzene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2-Nitrophenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
4-Nitrophenol	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U

J: estimated value
na: not analyzed
U: not detected

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

TABLE 5

ANALYTICAL RESULTS FOR STOCKPILE C-2

Analyte	UNITS	0032-062	0032-063	0032-064	0032-065	0032-066	0032-067	0032-068	0032-069	0032-070	0032-071	0032-072	0032-073	0032-074	0032-075	0032-090	0032-091	0032-092	0032-093	0032-094
N-nitroso-di-n-propylamine	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
N-nitrosodiphenylamine	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	900 U	450 U	450 U	460 U	890 U	440 U	440 U	470 U	880 U
Pentachlorophenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Phenanthrene	µg/kg	710 U	350 U	730 U	1420	1010	4800	360 U	598	410 J	360 U	250 J	190 J	350 U	87 J	700 U	350 U	350 U	541	690 U
Phenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Pyrene	µg/kg	710 U	350 U	730 U	844	510 J	2900	64 J	442	773	81 J	310 J	150 J	350 U	330 J	700 U	350 U	150 J	522	210 J
1,2,4-Trichlorobenzene	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
2,4,5-Trichlorophenol	µg/kg	3500 U	1700 U	3600 U	3500 U	3500 U	3500 U	1800 U	1700 U	3500 U	1700 U	3400 U	1700 U	1700 U	1700 U	3400 U	1700 U	1700 U	1800 U	3300 U
2,4,6-Trichlorophenol	µg/kg	710 U	350 U	730 U	730 U	710 U	730 U	360 U	350 U	720 U	360 U	710 U	350 U	350 U	360 U	700 U	350 U	350 U	370 U	690 U
Pesticides/PCBs																				
Aldrin	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Beta-BHC	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Alpha-BHC	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Delta-BHC	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Gamma-BHC (Lindane)	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
alpha-Chlordane	µg/kg	209	60	484	28	11 U	1.1 U	0.9 J	3	10	1.1 U	54 U	21 U	76	11 U	16	2.4	1	4.7	0.5 J
gamma-Chlordane	µg/kg	281	87	663	52	10	1.1 U	2	6.2	23	3	54 U	21 U	100	20	26	18	2.4	8.2	2
4,4'-DDD	µg/kg	2.2 U	2.1 U	2.2 U	22 U	22 U	2.2 U	16	10	22 U	2.2 U	570	350	30	40	26	25	2.1 U	35	7.7
4,4'-DDE	µg/kg	2.2 U	2.1 U	2.2 U	22 U	7J	2.2 U	2 J	5	10 J	0.9 J	28 J	18 J	21 U	22 U	2.1 U	13	2.1 U	2	0.4 J
4,4'-DDT	µg/kg	27	43	53	360	420	62	48	38	531	35	2000	933	71	350	36	74	14	61	14
Dieldrin	µg/kg	2.2 U	2.1 U	2.2 U	22 U	22 U	2.2U	2.2 U	2.1 U	22 U	2.2 U	110 U	43 U	21 U	22 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U
Endosulfan I	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Endosulfan II	µg/kg	2.2 U	2.1 U	2.2 U	22 U	22 U	2.2U	2.2 U	2.1 U	22 U	2.2 U	110 U	43 U	21 U	22 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U
Endosulfan sulfate	µg/kg	5.4 U	5.3 U	5.6 U	55 U	54 U	5.5 U	5.5 U	5.3 U	55 U	5.4 U	270 U	110 U	54 U	54 U	5.3 U	5.2 U	5.3 U	5.6 U	5.2 U
Endrin	µg/kg	2.2 U	2.1 U	2.2 U	22 U	22 U	2.2 U	2.2 U	2.1 U	22 U	2.2 U	110 U	43 U	21 U	22 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U
Endrin aldehyde	µg/kg	2.2 U	2.1 U	2.2 U	22 U	22 U	2.2 U	2.2 U	2.1 U	22 U	2.2 U	110 U	43 U	21 U	22 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U
Endrin ketone	µg/kg	2.2 U	2.1 U	2.2 U	22 U	22 U	2.2 U	2.2 U	2.1 U	22 U	2.2 U	110 U	43 U	21 U	22 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U
Heptachlor	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Hepatchlor epoxide	µg/kg	1.1 U	1.1 U	1.1 U	11 U	11 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	54 U	21 U	11 U	11 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U
Methoxychlor	µg/kg	11 U	11 U	11 U	110 U	110 U	11 U	11 U	11 U	110 U	11 U	540 U	210 U	23 J	110 U	11 U	10 U	11 U	11 U	10 U
Toxaphene	µg/kg	110 U	110 U	110 U	1100 U	1100 U	110 U	110 U	110 U	1100 U	110 U	5400 U	2100 U	1100 U	1100 U	110 U	100 U	110 U	110 U	100 U
Aroclor-1016	µg/kg	54 U	53 U	56 U	55 U	130 U	55 U	55 U	53 U	55 U	54 U	54 U	53 U	54 U	270 U	53 U	52 U	53 U	56 U	52 U
Aroclor-1221	µg/kg	110 U	110 U	110 U	110 U	270 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	540 U	110 U	100 U	110 U	110 U	100 U
Aroclor-1232	µg/kg	54 U	53 U	56 U	55 U	130 U	55 U	55 U	53 U	55 U	54 U	54 U	53 U	54 U	270 U	53 U	52 U	53 U	56 U	52 U
Aroclor-1242	µg/kg	54 U	53 U	56 U	55 U	130 U	55 U	55 U	53 U	55 U	54 U	54 U	53 U	54 U	270 U	53 U	52 U	53 U	56 U	52 U
Aroclor-1248	µg/kg	54 U	53 U	56 U	55 U	130 U	55 U	55 U	53 U	55 U	54 U	54 U	53 U	54 U	270 U	53 U	52 U	53 U	56 U	52 U
Aroclor-1254	µg/kg	27 U	27 U	28 U	28 U	67 U	28 U	27 U	27 U	27 U	27 U	27 U	27 U	27 U	140 U	27 U	26 U	26 U	28 U	26 U
Aroclor-1260	µg/kg	140	210	85	210	1300	390	53	100	290	36	180	360	400	1700	98	140	82	240	25 J

J: estimated value
na: not analyzed
U: not detected

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

TABLE 6

ANALYTICAL RESULTS FOR STOCKPILE D-1

Analytes	UNITS	0032-020	0032-021	0032-022	0032-023	0032-024	0032-102	0032-103	0032-104	0032-105	0032-106	0032-107	0032-108	0032-109	0032-110	0032-111
		11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/17/00	11/17/00	11/17/00	11/17/00	11/17/00	11/17/00	11/17/00	11/17/00	11/17/00	11/17/00
General Chemistry																
pH	--	7.94	7.98	7.44	7.71	7.76	na	na	na	na	na	na	na	na	na	na
Ignitability	°C	>100	49.2	51.2	>100	50.2	na	na	na	na	na	na	na	na	na	na
TTLC 17 Metals																
Antimony	mg/kg	22.5	2.4 J	41.9	34.2	57	na	na	na	na	na	na	na	na	na	na
Arsenic	mg/kg	[illegible]	46	24	49	49	na	na	na	na	na	na	na	na	na	na
Barium	mg/kg	179	134	117	155	114	na	na	na	na	na	na	na	na	na	na
Beryllium	mg/kg	0.24 U	0.25 U	0.22 U	0.23 U	0.22 U	na	na	na	na	na	na	na	na	na	na
Cadmium	mg/kg	1.9	0.73	1.8	1.9	3	na	na	na	na	na	na	na	na	na	na
Chromium	mg/kg	119	27.6	91.8	127	131	na	na	na	na	na	na	na	na	na	na
Cobalt	mg/kg	11.3	10.4	12.1	10.4	14.3	na	na	na	na	na	na	na	na	na	na
Copper	mg/kg	652	430	909	1700	1330	na	na	na	na	na	na	na	na	na	na
Lead	mg/kg	342	96.5	458	242	896	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg	37.3	2.1	6.7	9.7	6.3	na	na	na	na	na	na	na	na	na	na
Molybdenum	mg/kg	0.84	0.25 U	2.3	0.36	1.3	na	na	na	na	na	na	na	na	na	na
Nickel	mg/kg	26.9	21.8	34.7	22.3	29.5	na	na	na	na	na	na	na	na	na	na
Selenium	mg/kg	0.36 J	0.45 J	0.48 J	0.72	0.35 J	na	na	na	na	na	na	na	na	na	na
Silver	mg/kg	0.35 J	0.63 U	0.14 J	0.29 J	0.43 J	na	na	na	na	na	na	na	na	na	na
Thallium	mg/kg	0.59 U	0.63 U	0.54 U	0.57 U	0.55 U	na	na	na	na	na	na	na	na	na	na
Vanadium	mg/kg	34.9	33.9	28.8	34.7	32.7	na	na	na	na	na	na	na	na	na	na
Zinc	mg/kg	858	334	814	828	956	na	na	na	na	na	na	na	na	na	na
Cyanide	mg/kg	3.0 U	3.1 U	2.7 U	2.8 U	2.7 U										
TCLP Metals																
TCLP Antimony	µg/L	55.6	20 U	54.9	47.9	56.9	na	na	na	na	na	na	na	na	na	na
TCLP Arsenic	µg/L	10 U	6.0 J	38.5	13	10 U	na	na	na	na	na	na	na	na	na	na
TCLP Barium	µg/L	473	429	405	353	339	na	na	na	na	na	na	na	na	na	na
TCLP Beryllium	µg/L	4 U	4 U	4 U	4 U	4 U	na	na	na	na	na	na	na	na	na	na
TCLP Cadmium	µg/L	28.2	7.8	31.2	17.4	26.1	na	na	na	na	na	na	na	na	na	na
TCLP Chromium	µg/L	45.8	11.6	40.6	76.8	42.8	na	na	na	na	na	na	na	na	na	na
TCLP Cobalt	µg/L	23.5	7.8 J	53.1	13.5	32.5	na	na	na	na	na	na	na	na	na	na
TCLP Copper	µg/L	2940	1440	3190	3630	4480	na	na	na	na	na	na	na	na	na	na
TCLP Lead	µg/L	388	70.8	2270	451	219	na	na	na	na	na	na	na	na	na	na
TCLP Mercury	µg/L	1.2	1.1	1.3	1.3	1.3	na	na	na	na	na	na	na	na	na	na
TCLP Molybdenum	µg/L	10 U	10 U	10 U	10 U	10 U	na	na	na	na	na	na	na	na	na	na
TCLP Nickel	µg/L	72.4	34.6	134	76.3	113	na	na	na	na	na	na	na	na	na	na
TCLP Selenium	µg/L	20 U	20 U	20 U	20 U	20 U	na	na	na	na	na	na	na	na	na	na
TCLP Silver	µg/L	20 U	20 U	20 U	20 U	20 U	na	na	na	na	na	na	na	na	na	na
TCLP Thallium	µg/L	20 U	20 U	20 U	20 U	20 U	na	na	na	na	na	na	na	na	na	na
TCLP Vanadium	µg/L	2.2 J	4.5 J	20 U	2.8 J	20 U	na	na	na	na	na	na	na	na	na	na
TCLP Zinc	µg/L	7520	1660	11400	5380	8220	na	na	na	na	na	na	na	na	na	na
STLC Metals																

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 6

ANALYTICAL RESULTS FOR STOCKPILE D-1

Analytes	UNITS	0032-020	0032-021	0032-022	0032-023	0032-024	0032-102	0032-103	0032-104	0032-105	0032-106	0032-107	0032-108	0032-109	0032-110	0032-111
STLC Antimony	µg/L	2090	202	5030	1300	2890	na	na	na	na	na	na	na	na	na	na
STLC Arsenic	µg/L	39.2	13.8 J	719	150	17.2 J	na	na	na	na	na	na	na	na	na	na
STLC Barium	µg/L	3430	5910	3400	2360	2670	na	na	na	na	na	na	na	na	na	na
STLC Beryllium	µg/L	10 U	10 U	10 U	10 U	10 U	na	na	na	na	na	na	na	na	na	na
STLC Cadmium	µg/L	227	28.4	95.9	66.9	113	na	na	na	na	na	na	na	na	na	na
STLC Chromium	µg/L	2890	467	[illegible]	1820	[illegible]	na	na	na	na	na	na	na	na	na	na
STLC Cobalt	µg/L	173	214	212	148	225	na	na	na	na	na	na	na	na	na	na
STLC Copper	µg/L	[illegible]	17000	[illegible]	[illegible]	[illegible]	na	na	na	na	na	na	na	na	na	na
STLC Lead	µg/L	[illegible]	3900	[illegible]	[illegible]	[illegible]	na	na	na	na	na	na	na	na	na	na
STLC Mercury	µg/L	14	6.2	2.5	9.7	9.9	na	na	na	na	na	na	na	na	na	na
STLC Molybdenum	µg/L	48.1	10.6 J	84.4	20.9 J	76.4	na	na	na	na	na	na	na	na	na	na
STLC Nickel	µg/L	656	405	754	573	571	na	na	na	na	na	na	na	na	na	na
STLC Selenium	µg/L	113	69.6	121	71.4	100	na	na	na	na	na	na	na	na	na	na
STLC Silver	µg/L	6.7 J	50 U	50 U	50 U	50 U	na	na	na	na	na	na	na	na	na	na
STLC Thallium	µg/L	50 U	50 U	50 U	50 U	50 U	na	na	na	na	na	na	na	na	na	na
STLC Vanadium	µg/L	406	208	210	385	211	na	na	na	na	na	na	na	na	na	na
STLC Zinc	µg/L	183000	11900	49900	33300	46200	na	na	na	na	na	na	na	na	na	na
Total Petroleum Hydrocarbons																
Gasoline	mg/kg	25 J	18 J	410 J	600	3.7	na	na	na	na	na	na	na	na	na	na
Diesel	mg/kg	220	250	400	110	1000	na	na	na	na	na	na	na	na	na	na
Motor Oil	mg/kg	530	480	460	380	2700	na	na	na	na	na	na	na	na	na	na
Volatile Organic Compounds																
Acetone	µg/kg	170 U	1100	5920	250	2800	na	na	na	na	na	na	na	na	na	na
Benzene	µg/kg	8.6 U	9.1 U	25	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Bromodichloromethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Bromoform	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Bromomethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
2-Butanone (MEK)	µg/kg	170 U	9 J	170 U	7 J	150 U	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	µg/kg	8.6 U	9.1 U	0.9 J	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Carbon tetrachloride	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Chlorobenzene	µg/kg	8.6 U	9.1 U	0.8 J	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Dibromochloromethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Chloroethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
2-Chloroethyl vinyl ether	µg/kg	86 U	91 U	83 U	91 U	75 U	na	na	na	na	na	na	na	na	na	
Chloroform	µg/kg	8.6 U	9.1 U	4 J	1 J	7.5 U	na	na	na	na	na	na	na	na	na	na
Chloromethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
1,2-Dichloroethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethene	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
cis-1,2-Dichloroethene	µg/kg	160	38	939	26	120	na	na	na	na	na	na	na	na	na	na
trans-1,2-Dichloroethene	µg/kg	8.6 U	9.1 U	3 J	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
1,2-Dichloropropane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
trans-1,3-Dichloropropene	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 6

ANALYTICAL RESULTS FOR STOCKPILE D-1

Analytes	UNITS	0032-020	0032-021	0032-022	0032-023	0032-024	0032-102	0032-103	0032-104	0032-105	0032-106	0032-107	0032-108	0032-109	0032-110	0032-111
Ethylbenzene	µg/kg	45	62	140	743	26	na	na	na	na	na	na	na	na	na	na
2-Hexanone	µg/kg	86 U	91 U	8.3 U	62 U	75 U	na	na	na	na	na	na	na	na	na	na
Methylene chloride	µg/kg	4 J	9.1 U	5 J	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	4 J	580	4860	110	500	na	na	na	na	na	na	na	na	na	na
Methyl tert-butyl ether	µg/kg	17 U	18 U	17 U	12 U	15 U	na	na	na	na	na	na	na	na	na	na
Styrene	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Tetrachloroethene	µg/kg	8.6 U	9.1 U	9	2 J	7.5 U	na	na	na	na	na	na	na	na	na	na
Toluene	µg/kg	20	50	316	81	10	na	na	na	na	na	na	na	na	na	na
1,1,1-Trichloroethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichloroethane	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Trichloroethene	µg/kg	110	771	2310	244	914	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichlorotrifluoroethane	µg/kg	8.6 U	91 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Vinyl acetate	µg/kg	86 U	9.1 U	83 U	62 U	75 U	na	na	na	na	na	na	na	na	na	na
Vinyl chloride	µg/kg	8.6 U	9.1 U	8.3 U	6.2 U	7.5 U	na	na	na	na	na	na	na	na	na	na
Xylenes (Total)	µg/kg	300	390	1090	2880	190	na	na	na	na	na	na	na	na	na	na
Leachable Volatiles																
TCLP Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TCLP 2-butanone (MEK)	µg/L	100 U	100 U	100 U	100 U	100 U	210	191	187	100 U	179	172	178	186	181 U	173
TCLP Carbon Tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TCLP Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TCLP Chloroform	µg/L	10 U	10 U	10 U	10 U	10 U	0.8 J	0.9 J	0.8 J	0.7 J	0.7 J	0.7 J	0.8 J	0.7 U	0.7 J	0.7 J
TCLP 1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TCLP 1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TCLP Tetrachloroethene	µg/L	5 U	5 U	0.5 J	5 U	5 U	5 U	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TCLP Trichloroethene	µg/L	5	10		56	144	47		108	220	7	7	200	5 J	268	
TCLP Vinyl Chloride	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Semivolatile Organic Compounds																
Acenapthene	µg/kg	780 U	1700 U	1400 U	91 J	350 J	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	79 J	1700 U	94 J	110 J	410 J	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	4000 U	8500 U	7300 U	3900 U	7500 U	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	240 J	1700 U	130 J	150 J	430 J	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	95 J	1700 U	130 J	750 U	340 J	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	400 J	1700 U	190 J	200 J	460 J	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	160 J	1700 U	1400 U	83 J	270 J	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	730 J	1700 U	3000	82 J	1000 J	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
4-Chloro-3-methylphenol	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 6

ANALYTICAL RESULTS FOR STOCKPILE D-1

Analytes	UNITS	0032-020	0032-021	0032-022	0032-023	0032-024	0032-102	0032-103	0032-104	0032-105	0032-106	0032-107	0032-108	0032-109	0032-110	0032-111
4-Chloroaniline	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	270 J	1700 U	150 J	150 J	500 J	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	540 J	160 J	290 J	340 J	1400 J	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	780 U	1700 U	1400 U	91 J	300 J	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	150 J	1700 U	1400 U	67 J	120 J	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	780 U	1700 U	12000	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	780 U	1700 U	630 J	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	75 J	1700 U	510 J	750 U	280 J	na	na	na	na	na	na	na	na	na	na
Napthalene	µg/kg	200 J	1700 U	1680	230 J	1400 J	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg	780 U	1700 U	1100 J	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	350 J	1700 U	400 J	400 J	1740	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	780 U	1700 U	310 J	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	420 J	120 J	250 J	250 J	920 J	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	780 U	1700 U	1400 U	750 U	79 J	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	3800 U	8000 U	6900 U	3600 U	7000 U	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J estimated value
na not analyzed
U not detected

TABLE 6

ANALYTICAL RESULTS FOR STOCKPILE D-1

Analytes	UNITS	0032-020	0032-021	0032-022	0032-023	0032-024	0032-102	0032-103	0032-104	0032-105	0032-106	0032-107	0032-108	0032-109	0032-110	0032-111
2,4,6-Trichlorophenol	µg/kg	780 U	1700 U	1400 U	750 U	1500 U	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																
Aldrin	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	12 U	13 U	130 J	35	32 J	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	12 U	13 U	210 J	37	62 J	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	140	59	[illegible]	23 U	[illegible]	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	13 J	25 U	210 J	23 U	100 J	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	643	310	[illegible]	160	[illegible]	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	24 U	25 U	430 U	23 U	440 U	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	24 U	25 U	430 U	23 U	440 U	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	59 U	63 U	1100 U	57 U	1100 U	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	24 U	25 U	430 U	23 U	440 U	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	24 U	25 U	430 U	23 U	440 U	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	24 U	25 U	430 U	23 U	440 U	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	12 U	13 U	220 U	11 U	220 U	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	43 J	130 U	2200 U	110 U	2200 U	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	1200 U	1300 U	22000 U	1100 U	22000 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	150 U	630 U	140 U	57 U	270 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	300 U	1300 U	270 U	110 U	550 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	150 U	630 U	140 U	57 U	270 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	150 U	630 U	140 U	57 U	270 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	150 U	630 U	140 U	57 U	270 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	74 U	310 U	68 U	28 U	140 U	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	1400	5100	1480	250	2100	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 7

SUMMARY OF STOCKPILE ANALYTICAL RESULTS AND STATISTICAL ANALYSIS

		COC Tests					TTLC Tests					Leachability Tests				
Stkpile	Volume (yd^3)	Contaminant	Soil RAO (mg/kg)	RAO Exceedance[a]	Highest Conc. (mg/kg)	95% UCL (mg/kg)	Contaminant	TTLC limit (mg/kg)	TTLC Exceedance[a]	Highest Conc. (mg/kg)	80% UCL (mg/kg)	Contaminant	Regulatory Limit (mg/L)	Exceedance[a]	Highest Conc. (mg/L)	80% UCL (mg/L)
C-1	2,800	Sb	23	1 (16)	31.0		No exceedance					TCLP-Pb	5.0	3 (34)	16.2	3.1
		As	3.9	10 (16)	4.9	4.4						TCLP-Hg	0.2	0 (9)	0.056	
		As	7.4	0 (16)	4.9							STLC-Cr	5.0	0 (5)	2.5	
												STLC-Cu	25.0	9 (14)	114	67.3
												STLC-Pb	5.0	10 (14)	25.1	12.4
												STLC-Hg	0.2	0 (10)	0.12	
C-2	3,250	Sb	23	2 (19)	72.3		4, 4'-DDT	1.0	1 (19)	2.0	0.4	TCLP-Pb	5.0	0 (19)	1.89	
		As	3.9	18 (19)	52.2	13.8						TCLP-Hg	0.2	0 (19)	0.004	
		As	7.4	5 (19)	52.2							STLC-Cr	5.0	0 (19)	3.9	
		TCE	7.2	1 (19)	9.0							STLC-Cu	25.0	2 (19)	56.3	16.2
												STLC-Pb	5.0	4 (19)	9.8	4.0
												STLC-Hg	0.2	0 (19)	0.015	
												TCLP-TCE	0.5	0 (19)	0.012	
D-1	1,000	Sb	23	3 (5)	57.0		4, 4'-DDD	1.0	2 (5)	5.6	4.1	TCLP-Cr	5.0	0 (5)	0.077	
		As	3.9	5 (5)	24.0	19.0	4, 4'-DDT	1.0	2 (5)	16.9	9.7	TCLP-Pb	5.0	0 (5)	2.3	
		As	7.4	1 (5)	24.0							TCLP-Hg	0.2	0 (5)	0.001	
		Pb	620	1 (5)	896							STLC-Cr	5.0	2 (5)	5.3	4.5
												STLC-Cu	25.0	4 (5)	79.7	59.9
												STLC-Pb	5.0	4 (5)	38.9	30.4
												STLC-Hg	0.2	0 (5)	0.014	
												TCLP-TCE	0.5	3 (15)	3.2	0.70
												TCLP-TCE[b]	0.5	0 (7)	0.108	0.06
												TCLP-TCE[c]	0.5	3 (8)	3.2	1.3
C-3	4,450	Sb	23	2 (24)	206.0		Cu	2,500	2 (24)	5,260	1,179	TCLP-Cr	5.0	0 (24)	0.2	
		As	3.9	14 (24)	6.7	4.3	Pb	1,000	1 (24)	1,200	233.0	TCLP-Pb	5.0	1 (24)	7.2	1.3
		Pb	620	2 (24)	1200.0		Hg	20	1 (24)	44.6	7.3	TCLP-Hg	0.2	0 (24)	0.02	
												STLC-Sb	15.0	0 (24)	4.8	
												STLC-Cr	5.0	1 (24)	5.2	1.6
												STLC-Cu	25.0	12 (24)	261	**70.8**
												STLC-Pb	5.0	11 (24)	51.8	**11.4**
												STLC-Hg	0.2	1 (24)	0.3	0.05
C-4	1,650	As	3.9	7 (9)	7.6	5.9	Cu	2,500	1 (9)	2,540	1,392	TCLP-Cr	5.0	0 (9)	0.2	
												TCLP-Pb	5.0	1 (9)	11.7	4.0
												TCLP-Hg	0.2	0 (9)	0.02	

TABLE 7

SUMMARY OF STOCKPILE ANALYTICAL RESULTS AND STATISTICAL ANALYSIS

		COC Tests					TTLC Tests					Leachability Tests				
Stkpile	Volume (yd^3)	Contaminant	Soil RAO (mg/kg)	RAO Exceedance[a]	Highest Conc. (mg/kg)	95% UCL (mg/kg)	Contaminant	TTLC limit (mg/kg)	TTLC Exceedance[a]	Highest Conc. (mg/kg)	80% UCL (mg/kg)	Contaminant	Regulatory Limit (mg/L)	Exceedance[a]	Highest Conc. (mg/L)	80% UCL (mg/L)
												STLC-Cr	5.0	0 (9)	3.54	
												STLC-Cu	25.0	6 (9)	161	**95.5**
												STLC-Pb	5.0	6 (9)	20	**13.0**
												STLC-Hg	0.2	0 (9)	0.16	
D-2	1,200	Sb	23	4 (7)	91.7		Cu	2,500	1 (7)	4,440	2,396	TCLP-Cr	5.0	0 (7)	0.13	
		As	3.9	7 (7)	10.6	9.2	Pb	1,000	2 (7)	1,340	918.0	TCLP-Pb	5.0	1 (7)	7.3	3.6
		Pb	620	4 (7)	1,340		Hg	20	1 (7)	21.0	14.9	TCLP-Hg	0.2	0 (7)	0.0065	
												STLC-Sb	15.0	0 (7)	4.95	
												STLC-Cr	5.0	1 (7)	6.71	4.0
												STLC-Cu	25.0	6 (7)	123	**86.9**
												STLC-Pb	5.0	7 (7)	57	**40.4**
												STLC-Hg	0.2	0 (7)	0.16	
C-5	2,000	As	3.9	11 (11)	6.5	5.7	No exceedance					TCLP-Pb	5.0	0 (8)	0.9	
												STLC-Pb	5.0	9 (9)	14.8	**12.0**
C-6	2,000	As	3.9	10 (10)	6.2	5.2	No exceedance					Not performed because none of the analytes in the samples had concentrations 10 or 20 times higher than the STLC or TCLP limits				
D-3	500	Sb	23	1 (4)	47.9		Cu	2,500	1 (4)	3,560	2,743	TCLP-Cr	5.0	0 (4)	0.09	
		As	3.9	3 (4)	5.3	6.9						TCLP-Pb	5.0	0 (4)	3.0	
												TCLP-Hg	0.2	0 (4)	0.003	
												STLC-Cr	5.0	2 (4)	24.4	**17.9**
												STLC-Cu	25.0	3 (4)	261	**244**
												STLC-Pb	5.0	3 (4)	14.837.5	**36.4**
												STLC-Hg	0.2	1 (4)	0.65	**0.45**

(a) Data arranged as follows: Number of exceedances (number of total samples).
(b) Upper ⅔ of D-1 pile
(c) Lower ⅓ of D-1 pile

As = arsenic
COC = chemical of concern
Cr = chromium
Cu = copper
DDD = dichlorodiphenyldichloroethane
DDT = dichlorodiphenyltrichloroethane
Hg = mercury
mg/L = microgram per liter
mg/kg = micrograms per kilogram
Pb = lead
RAO = removal action objective
Sb = antimony
TCE = trichloroethene
TCLP = toxicity characteristic leaching procedure
TTLC = total threshold limit concentration
UCL = upper confidence level
yd^3 = cubic yards

TABLE 8

ANALYTICAL RESULTS FOR STOCKPILE C-3

Analyte	UNITS	0032-251	0032-252	0032-253	0032-254	0032-255	0032-256	0032-257	0032-258	0032-259	0032-260	0032-261	0032-262	0032-263	0032-264	0032-265
		11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00	11/29/00
TTLC 17 Metals																
Antimony	mg/kg	[illegible]	3.5 J	1.1 J	2.8 J	2.1 J	7.7	1.3 J	4.3 J	0.60 J	9.5	2.1 J	1.3 J	4.1 J	5.6	3.4 J
Arsenic	mg/kg	[illegible]	3.7	3.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.7	[illegible]	3.4	[illegible]	3.5	[illegible]	3.7
Barium	mg/kg	77.2	77.3	65.6	73	65.2	134	67.4	85.3	33.4	82.3	94.3	84.9	91.4	82	68.9
Beryllium	mg/kg	0.21 U	0.22 U	0.21 U	0.21 U	0.21 U	0.23 U	0.22 U	0.23 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.21 U	0.22 U
Cadmium	mg/kg	1.1	0.46	0.045 J	0.19 J	0.22	1.1	0.11 J	0.88	0.21 U	0.8	0.3	0.16 J	0.20 J	0.20 J	0.66
Chromium	mg/kg	[illegible]	28.2	13.7	17.6	16.2	[illegible]	15.2	[illegible]	6.4	37.4	22.3	20.5	33.3	29.4	35.3
Cobalt	mg/kg	8.9	7.9	7	8.1	6.8	11.7	7.6	9.7	4.8	8.6	8.1	8.2	8.6	8.2	7.7
Copper	mg/kg	[illegible]	523	59.7	115	143	[illegible]	66.3	[illegible]	9.6	[illegible]	102	82.2	97	112	[illegible]
Lead	mg/kg	[illegible]	[illegible]	16.8	31.5	37.3	[illegible]	13.7	[illegible]	2.5	[illegible]	32.8	22.1	39	[illegible]	[illegible]
Mercury	mg/kg	[illegible]	1.8	1.7	0.46	1.1	[illegible]	0.36	[illegible]	0.084 J	[illegible]	0.36	0.51	0.55	[illegible]	[illegible]
Molybdenum	mg/kg	0.39	0.29	0.21 U	0.21 U	0.21 U	0.28	0.22 U	0.063 J	0.21 U	0.040 J	0.072 J	0.18 J	0.22 U	0.21 U	0.22 U
Nickel	mg/kg	18.2	15.1	9.6	12.1	10.5	26.2	10.7	16.4	5.1	17.5	13.1	13.7	13.8	12.4	12.5
Selenium	mg/kg	0.53 U	0.54 U	0.53 U	0.53 U	0.54 U	0.59 U	0.54 U	0.58 U	0.53 U	0.53 U	0.55 U	0.54 U	0.55 U	0.54 U	0.54 U
Silver	mg/kg	0.18 J	0.14 J	0.53 U	0.53 U	0.54 U	0.26 J	0.54 U	0.12 J	0.53 U	0.34 J	0.55 U	0.54 U	0.55 U	0.54 U	0.097 J
Thallium	mg/kg	0.53 U	0.54 U	0.53 U	0.53 U	0.54 U	0.59 U	0.54 U	0.58 U	0.53 U	0.53 U	0.55 U	0.54 U	0.55 U	0.54 U	0.54 U
Vanadium	mg/kg	32.8	30.7	25.1	31.5	27.1	39.7	28.5	35.4	19.4	32.7	29.3	32.1	33.9	31.5	31.1
Zinc	mg/kg	995	295	73.5	134	127	727	78.1	796	20.1	553	124	100	138	157	524
Cyanide	mg/kg	2.6 U	2.7 U	2.7 U	2.7 U	2.7 U	2.9 U	2.7 U	2.9 U	2.7 U	2.6 U	2.8 U	2.7 U	2.7 U	2.7 U	2.7 U
Leachable Metals																
STLC Antimony	µg/L	512	377	159	67.8	367	341	255	367	114	490	148	348	622	434	275
STLC Chromium	µg/L	1830	997	296	193	255	1010	406	2850	133	842	416	255	1740	405	1310
STLC Copper	µg/L	[illegible]	[illegible]	3210	3940	8000	[illegible]	16600	[illegible]	378	[illegible]	4140	6160	6360	6410	[illegible]
STLC Lead	µg/L	[illegible]	[illegible]	955	812	115	379	[illegible]	[illegible]	82.2	[illegible]	1160	1410	3190	3940	[illegible]
STLC Mercury	µg/L	22	2.2	11.6	0.25 J	0.68	6.5	4.9	73.9	0.5 U	9.1	0.54	2.7	4.6	5.7	12.2
TCLP Chromium	µg/L	187	33.2	8.4 J	14.5	4.1 J	15.3	12.7	109	5.2 J	20.8	15.6	8.4 J	37.5	17.6	99.4
TCLP Lead	µg/L	2060	187	28.7	30.1	66.7	172	110	[illegible]	3.5 J	211	17.7	35.8	58.6	69.8	998
TCLP Mercury	µg/L	4.6	0.59	2.7	0.5 U	0.26 J	0.58	0.5 U	1.4	0.5 U	0.38 J	0.5 U	0.5 U	0.5 U	1.6	1.4
Total Petroleum Hydrocarbons																
Gasoline	mg/kg	0.9 J	0.04 J	0.03 J	0.04 J	0.2 J	0.04 J	0.03 J	0.1 J	0.03 J	0.04 J	0.04 J	0.04 J	0.05 J	0.03 J	0.03 J
Diesel	mg/kg	48 J	43 J	18	6 J	63	21 J	9 J	92	5 J	130	6 J	10 J	8 J	17	70
Motor Oil	mg/kg	320	190	51	22	140	240	61	350	5 J	480	32	51	42	76	327
Volatile Organic Compounds																
Acetone	µg/kg	65 J	15 J	120 U	100 U	120 U	140 U	99 U	120 U	98 U	16 J	110 U	150 U	120 U	120 U	110 U
Benzene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Bromodichloromethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Bromoform	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Bromomethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
2-Butanone (MEK)	µg/kg	160 U	110 U	120 U	100 U	120 U	140 U	99 U	120 U	98 U	110 U	110 U	150 U	120 U	120 U	110 U
Carbon disulfide	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 8

ANALYTICAL RESULTS FOR STOCKPILE C-3

Analyte	UNITS	0032-251	0032-252	0032-253	0032-254	0032-255	0032-256	0032-257	0032-258	0032-259	0032-260	0032-261	0032-262	0032-263	0032-264	0032-265
Carbon tetrachloride	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Chlorobenzene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Dibromochloromethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Chloroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
2-Chloroethyl vinly ether	µg/kg	78 U	53 U	61 U	50 U	58 U	70 U	50 U	59 U	49 U	55 U	53 U	74 U	58 U	59 U	57 U
Chloroform	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Chloromethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,2-Dichlorobenzene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,1-Dichloroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,2-Dichloroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,1-Dichloroethene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	3 J	0.7 J	6.1 U	5.0 U	0.9 J	3 J	5.0 U	5.9 U	4.9 U	1 J	5.3 U	7.4 U	100	5.9 U	5.7 U
trans-1,2-Dichloroethene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,2-Dichloropropane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
cis-1,3-Dichloropropene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
trans-1,3-Dichloropropene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Ethylbenzene	µg/kg	4 J	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
2-Hexanone	µg/kg	78 U	53 U	61 U	50 U	58 U	70 U	50 U	59 U	49 U	55 U	53 U	74 U	58 U	59 U	57 U
Methylene chloride	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	3 J	5.0 U	5.9 U	3 J	3 J	2 J	5 J	2 J	3 J	3 J
4-Methyl-2-pentanone (MIBK)	µg/kg	78 U	53 U	61 U	50 U	58 U	70 U	50 U	59 U	49 U	55 U	53 U	74 U	58 U	59 U	57 U
Methyl tert-butyl ether	µg/kg	16 U	0.6 J	12 U	10 U	12 U	14 U	9.9 U	12 U	9.8 U	11 U	11 U	15 U	12 U	12 U	11 U
Styrene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,1,2,2-Tetrachloroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Tetrachloroethene	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Toluene	µg/kg	1 J	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,1,1-Trichloroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
1,1,2-Trichloroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Trichloroethene	µg/kg	57	6	6.1 U	2 J	6	31	3 J	7	4.9 U	9	6	7.4 U	1020	2 J	3 J
1,1,2-Trichlorotrifluoroethane	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Vinyl acetate	µg/kg	78 U	53 U	61 U	50 U	58 U	70 U	50 U	59 U	49 U	55 U	53 U	74 U	58 U	59 U	57 U
Vinyl chloride	µg/kg	7.8 U	5.3 U	6.1 U	5.0 U	5.8 U	7.0 U	5.0 U	5.9 U	4.9 U	5.5 U	5.3 U	7.4 U	5.8 U	5.9 U	5.7 U
Xylenes (Total)	µg/kg	10 J	16 U	18 U	15 U	18 U	21 U	15 U	18 U	15 U	17 U	16 U	15 U	17 U	18 U	17 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 8

ANALYTICAL RESULTS FOR STOCKPILE C-3

Analyte	UNITS	0032-266	0032-267	0032-268	0032-271	0032-272	0032-273	0032-274	0032-275	0032-276
		11/29/00	11/29/00	11/29/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00
TTLC 17 Metals										
Antimony	mg/kg	3.1 J	2.2 J	8.7	5.5 U	51	5.5 U	4.4 J	4.6 J	5.3 U
Arsenic	mg/kg	[illegible]	3.6	[illegible]	3.7	6.7	3.7	4.3	[illegible]	3.7
Barium	mg/kg	76.6	70.4	81	139	155	99.4	92.1	59.7	59.9
Beryllium	mg/kg	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.21 U	0.21 U
Cadmium	mg/kg	0.77	0.32	0.83	0.29	4.3	0.20 J	0.92	2.2	0.024 J
Chromium	mg/kg	[illegible]	26.6	[illegible]	23.7	[illegible]	[illegible]	[illegible]	[illegible]	9.9
Cobalt	mg/kg	9	7.9	8.3	8.1	15.1	8.2	8	8.7	6.8
Copper	mg/kg	[illegible]	[illegible]	[illegible]	155	[illegible]	93.7	[illegible]	[illegible]	16.9
Lead	mg/kg	[illegible]	70.7	[illegible]	35.6	1200	21.1	[illegible]	647	1.9
Mercury	mg/kg	[illegible]	1.4	[illegible]	0.77	[illegible]	0.46	[illegible]	[illegible]	0.21 U
Molybdenum	mg/kg	0.090 J	0.19 J	0.17 J	0.22 U	3.9	0.22 U	0.78	1.5	0.21 U
Nickel	mg/kg	15.8	11.6	16.8	13.6	72.6	11.1	19.8	24.8	8.4
Selenium	mg/kg	0.54 U	0.54 U	0.54 U	0.58	1.5	0.25 J	0.71	1.3	0.47 J
Silver	mg/kg	0.14 J	0.54 U	0.20 J	0.55 U	2.6	0.55 U	0.078 J	0.58	0.53 U
Thallium	mg/kg	0.54 U	0.54 U	0.54 U	0.55 U	0.54 U	0.55 U	0.58 U	0.53 U	0.53 U
Vanadium	mg/kg	30.5	30.6	31	29.6	58.4	25.9	29.1	40.3	22.5
Zinc	mg/kg	677	250	605	169	2270	97.8	508	1440	33.1
Cyanide	mg/kg	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.9 U	2.7 U	2.6 U
Leachable Metals										
STLC Antimony	µg/L	876	905	989	548	4800	221	573	1850	100 U
STLC Chromium	µg/L	2450	1550	2030	1860	3430	568	1180	[illegible]	84.1
STLC Copper	µg/L	[illegible]	[illegible]	[illegible]	17500	[illegible]	11700	[illegible]	[illegible]	2700
STLC Lead	µg/L	[illegible]	[illegible]	[illegible]	3390	[illegible]	2470	[illegible]	[illegible]	420
STLC Mercury	µg/L	0.51	11.5	64.9	8.1	131	2.9	12.7	[illegible]	0.5 U
TCLP Chromium	µg/L	218	113	54.8	25.8	47.8	54.3	20.2	68.9	1.7 J
TCLP Lead	µg/L	1420	576	519	37	3200	125	134	2230	10 U
TCLP Mercury	µg/L	0.75	0.47 J	1.5	0.43 J	6	0.21 J	1	18.2	0.5 U
Total Petroleum Hydrocarbons										
Gasoline	mg/kg	0.02 J	0.03 J	0.06 J	0.01 J	1	ND	ND	3.8	ND
Diesel	mg/kg	83	46	110	39	120 J	33	150 J	510	11 U
Motor Oil	mg/kg	360	200	340	130	640	120	1100	2100	3 J
Volatile Organic Compounds										
Acetone	µg/kg	100 U	95 U	140 U	120 U	95 U	99 U	98 U	34 J	160 U
Benzene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Bromodichloromethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Bromoform	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Bromomethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
2-Butanone (MEK)	µg/kg	100 U	95 U	140 U	120 U	95 U	99 U	98 U	150 U	160 U
Carbon disulfide	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	1 J	8.0 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 8

ANALYTICAL RESULTS FOR STOCKPILE C-3

Analyte	UNITS	0032-266	0032-267	0032-268	0032-271	0032-272	0032-273	0032-274	0032-275	0032-276
Carbon tetrachloride	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Chlorobenzene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Dibromochloromethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Chloroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
2-Chloroethyl vinly ether	µg/kg	50 U	48 U	70 U	58 U	47 U	49 U	49 U	75 U	80 U
Chloroform	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Chloromethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,2-Dichlorobenzene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,1-Dichloroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,2-Dichloroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,1-Dichloroethene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
cis-1,2-Dichloroethene	µg/kg	5.0 U	4.8 U	1 J	5.8 U	1 J	4 J	0.7 J	39	8.0 U
trans-1,2-Dichloroethene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,2-Dichloropropane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
cis-1,3-Dichloropropene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
trans-1,3-Dichloropropene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Ethylbenzene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	4 J	8.0 U
2-Hexanone	µg/kg	50 U	48 U	70 U	58 U	47 U	49 U	49 U	75 U	80 U
Methylene chloride	µg/kg	2 J	3 J	4 J	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
4-Methyl-2-pentanone (MIBK)	µg/kg	50 U	48 U	70 U	58 U	47 U	49 U	49 U	1 J	80 U
Methyl tert-butyl ether	µg/kg	10 U	9.5 U	14 U	12 U	9.5 U	9.9 U	9.8 U	15 U	0.7 J
Styrene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,1,2,2-Tetrachloroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Tetrachloroethene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Toluene	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	1 J	8.0 U
1,1,1-Trichloroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
1,1,2-Trichloroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Trichloroethene	µg/kg	3 J	2 J	98	8	27	45	12	201	2 J
1,1,2-Trichlorotrifluoroethane	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Vinyl acetate	µg/kg	50 U	48 U	70 U	58 U	47 U	49 U	49 U	75 U	80 U
Vinyl chloride	µg/kg	5.0 U	4.8 U	7.0 U	5.8 U	4.7 U	4.9 U	4.9 U	7.5 U	8.0 U
Xylenes (Total)	µg/kg	15 U	14 U	21 U	18 U	14 U	15 U	15 U	56	24 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 9

ANALYTICAL RESULTS FOR STOCKPILE C-4

Analyte	UNITS	0032-277	0032-278	0032-279	0032-280	0032-281	0032-282	0032-283	0032-284	0032-285
		11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00
TTLC 17 Metals										
Antimony	mg/kg	4.0 J	2.7 J	5.5 U	0.43 J	5.6 U	3.9 J	5.5 U	4.0 J	5.5 U
Arsenic	mg/kg	5.7	6.3	4.7	4	3.5	7.6	3.7	4.2	4
Barium	mg/kg	78.6	55.8	75.3	83	65.1	50.6	51.1	75.1	76.1
Beryllium	mg/kg	0.22 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Cadmium	mg/kg	1.1	1.4	0.36	0.4	0.56	1.8	0.082 J	0.89	0.17 J
Chromium	mg/kg	[illegible]	[illegible]	19	30	32.1	[illegible]	10.5	42.2	16.7
Cobalt	mg/kg	8.3	7.5	8.1	8.7	7.5	7.7	5.8	8.1	8.2
Copper	mg/kg	[illegible]	[illegible]	166	[illegible]	[illegible]	[illegible]	77.2	[illegible]	[illegible]
Lead	mg/kg	[illegible]	[illegible]	51.1	[illegible]	[illegible]	[illegible]	14.7	[illegible]	36.6
Mercury	mg/kg	[illegible]	[illegible]	1.3	[illegible]	[illegible]	[illegible]	0.33	[illegible]	0.6
Molybdenum	mg/kg	0.48	0.25	0.22 U	0.22 U	0.22 U	0.57	0.22 U	0.20 J	0.22 U
Nickel	mg/kg	16.8	15.1	12.5	14.4	12.3	16.1	7.6	17	12.3
Selenium	mg/kg	0.7	0.74	0.51 J	0.64	0.56	0.43 J	0.39 J	0.59	0.49 J
Silver	mg/kg	0.058 J	0.54 U	0.55 U	0.56 U	0.56 U	0.083 J	0.55 U	0.39 J	0.55 U
Thallium	mg/kg	0.55 U	0.54 U	0.55 U	0.56 U	0.56 U	0.54 U	0.55 U	0.54 U	0.55 U
Vanadium	mg/kg	26.1	19.6	25.8	28.7	25.6	19.8	19.9	31	27.4
Zinc	mg/kg	839	770	183	321	424	1270	66.6	680	129
Cyanide	mg/kg	2.7 U	2.7 U	2.7 U	2.8 U	2.8 U	2.7 U	2.7 U	2.7 U	2.7 U
Leachable Metals										
STLC Chromium	µg/L	2720	3050	458	1050	1820	3540	194	2290	354
STLC Copper	µg/L	[illegible]	[illegible]	13400	[illegible]	[illegible]	[illegible]	5540	[illegible]	11500
STLC Lead	µg/L	[illegible]	[illegible]	3890	[illegible]	[illegible]	[illegible]	927	[illegible]	1760
STLC Mercury	µg/L	81	99.8	7.4	10	18.6	162	0.65	31.3	3.3
TCLP Chromium	µg/L	48.1	186	9.4 J	31.9	63.8	106	5.9 J	91.6	11.5
TCLP Lead	µg/L	1030	2210	24.3	283	2920	1790	17	[illegible]	56.5
TCLP Mercury	µg/L	6.7	11.5	0.40 J	0.98	4.6	16.1	0.5 U	3.1	0.5 U
Total Petroleum Hydrocarbons										
Gasoline	mg/kg	1	1	0.03 J	0.3 J	0.3 J	0.6 J	ND	0.4 J	ND
Diesel	mg/kg	160	180	8 J	62 J	87 J	140	6 J	190	10 J
Motor Oil	mg/kg	720	900	57	320	690	940	31	820	60
Volatile Organic Compounds										
Acetone	µg/kg	20 J	16 J	130 U	100 U	120 U	16 J	110 U	19 J	100 U
Benzene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Bromodichloromethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Bromoform	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Bromomethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
2-Butanone (MEK)	µg/kg	120 U	100 U	130 U	100 U	120 U	100 U	110 U	120 U	100 U
Carbon disulfide	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	0.8 J	5.0 U
Carbon tetrachloride	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 9

ANALYTICAL RESULTS FOR STOCKPILE C-4

Analyte	UNITS	0032-277	0032-278	0032-279	0032-280	0032-281	0032-282	0032-283	0032-284	0032-285
Chlorobenzene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Dibromochloromethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Chloroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
2-Chloroethyl vinyl ether	µg/kg	59 U	50 U	66 U	52 U	62 U	52 U	54 U	58 U	50 U
Chloroform	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Chloromethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,2-Dichlorobenzene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,1-Dichloroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,2-Dichloroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,1-Dichloroethene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
cis-1,2-Dichloroethene	µg/kg	10	4 J	6.6 U	5.2 U	3 J	3 J	5.4 U	8	5.0 U
trans-1,2-Dichloroethene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,2-Dichloropropane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
cis-1,3-Dichloropropene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
trans-1,3-Dichloropropene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Ethylbenzene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
2-Hexanone	µg/kg	59 U	50 U	66 U	52 U	62 U	52 U	54 U	58 U	50 U
Methylene chloride	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
4-Methyl-2-pentanone (MIBK)	µg/kg	59 U	50 U	66 U	52 U	62 U	0.5 J	54 U	0.8 J	50 U
Methyl tert-butyl ether	µg/kg	12 U	0.5 J	13 U	10 U	12 U	10 U	11 U	12 U	10 U
Styrene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Tetrachloroethene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Toluene	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,1,1-Trichloroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
1,1,2-Trichloroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Trichloroethene	µg/kg	509	169	4 J	5	5 J	130	2 J	35	5.0 U
1,1,2-Trichlorotrifluoroethane	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Vinyl acetate	µg/kg	59 U	50 U	66 U	52 U	62 U	52 U	54 U	58 U	50 U
Vinyl chloride	µg/kg	5.9 U	5.0 U	6.6 U	5.2 U	6.2 U	5.2 U	5.4 U	5.8 U	5.0 U
Xylenes (Total)	µg/kg	18 U	15 U	20 U	16 U	19 U	16 U	16 U	17 U	15 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 10

ANALYTICAL RESULTS FOR STOCKPILE D-2

Analyte	UNITS	0032-286	0032-287	0032-288	0032-289	0032-290	0032-291	0032-292	0032-294	0032-295	0032-296	0032-297	0032-298	0032-299
		11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	11/30/00	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00
TTLC 17 Metals														
Antimony	mg/kg	10.7	5.5	91.7	35.5	15.5	34.7	37.7	na	na	na	na	na	na
Arsenic	mg/kg	4.4	10.6	7.5	5.9	7.6	9	6.2	na	na	na	na	na	na
Barium	mg/kg	73	86.4	201	154	104	196	145	na	na	na	na	na	na
Beryllium	mg/kg	0.21 U	0.21 U	0.44	0.22 U	0.22 U	0.22 U	0.22 U	na	na	na	na	na	na
Cadmium	mg/kg	2.1	0.76	5.5	1.9	2.3	4	3.6	na	na	na	na	na	na
Chromium	mg/kg	40.2	40.8	121	70.5	67.1	122	73	na	na	na	na	na	na
Cobalt	mg/kg	9.3	9.4	14.6	10.3	11.9	12	10.8	na	na	na	na	na	na
Copper	mg/kg	1300	370	3110	[illegible]	640	1530	2800	na	na	na	na	na	na
Lead	mg/kg	565	123	1120	632	315	1320	705	na	na	na	na	na	na
Mercury	mg/kg	10.1	2.7	1	7.2	3.9	21	11.4	na	na	na	na	na	na
Molybdenum	mg/kg	0.77	0.17 J	3.5	1.3	0.13 J	2.6	3.3	na	na	na	na	na	na
Nickel	mg/kg	17.9	21.2	125	38.2	26.3	57.3	55.7	na	na	na	na	na	na
Selenium	mg/kg	1.2	0.44 J	1.7	0.6	0.68	1.1	0.6	na	na	na	na	na	na
Silver	mg/kg	0.23 J	0.54 U	3.7	1.4	0.037 J	2	2.8	na	na	na	na	na	na
Thallium	mg/kg	0.53 U	0.54 U	0.56 U	0.55 U	0.55 U	0.56 U	0.56 U	na	na	na	na	na	na
Vanadium	mg/kg	29	29.1	76.1	41.6	32.9	51.7	51.2	na	na	na	na	na	na
Zinc	mg/kg	1710	421	2370	917	1530	1600	1620	na	na	na	na	na	na
Cyanide	mg/kg	2.7 U	2.7 U	2.8 U	2.7 U	2.7 U	2.8 U	2.8 U	na	na	na	na	na	na
Leachable Metals														
STLC Antimony	µg/L	1390	1070	4730	2530	1430	4950	4760	na	na	na	na	na	na
STLC Chromium	µg/L	740	1230	2620	2800	1980	3310	2470	na	na	na	na	na	na
STLC Copper	µg/L	11300	22700	53100	30000	33500	73100	175300	na	na	na	na	na	na
STLC Lead	µg/L	7000	3020	[illegible]	22300	16000	10300	9700	na	na	na	na	na	na
STLC Mercury	µg/L	77.4	29.5	162	46.9	41.2	66.3	117	na	na	na	na	na	na
TCLP Chromium	µg/L	71	45.6	132	51.1	117	41.7	14.8	na	na	na	na	na	na
TCLP Lead	µg/L	1580	158	3800	600	361	1450	7300	na	na	na	na	na	na
TCLP Mercury	µg/L	6.5	0.89	4.1	2.6	1.5	2.5	2.2	na	na	na	na	na	na
Total Petroleum Hydrocarbons														
Gasoline	mg/kg	2.9	0.01 J	0.5 J	0.8 J	0.6 J	0.6 J	0.3 J	na	na	na	na	na	na
Diesel	mg/kg	220 J	840	110	910	240	220	120	na	na	na	na	na	na
Motor Oil	mg/kg	860	470	740	980	500	760	550	na	na	na	na	na	na
Volatile Organic Compounds														
Acetone	µg/kg	110 U	93 U	160 U	21 J	18 J	17 J	110 U	na	na	na	na	na	na
Benzene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Bromodichloromethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Bromoform	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Bromomethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
2-Butanone (MEK)	µg/kg	110 U	93 U	160 U	110 U	120 U	120 U	110 U	na	na	na	na	na	na
Carbon disulfide	µg/kg	5.6 U	4.7 U	8.0 U	2 J	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Carbon tetrachloride	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 10

ANALYTICAL RESULTS FOR STOCKPILE D-2

Analyte	UNITS	0032-286	0032-287	0032-288	0032-289	0032-290	0032-291	0032-292	0032-294	0032-295	0032-296	0032-297	0032-298	0032-299
Chlorobenzene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Dibromochloromethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Chloroethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
2-Chloroethyl vinyl ether	µg/kg	56 U	47 U	80 U	56 U	61 U	61 U	57 U	na	na	na	na	na	na
Chloroform	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Chloromethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,1-Dichloroethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,2-Dichloroethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,1-Dichloroethene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
cis-1,2-Dichloroethene	µg/kg	2 J	6	8 J	5 J	8	1 J	1 J	na	na	na	na	na	na
trans-1,2-Dichloroethene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,2-Dichloropropane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
cis-1,3-Dichloropropene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
trans-1,3-Dichloropropene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Ethylbenzene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
2-Hexanone	µg/kg	56 U	47 U	80 U	56 U	61 U	61 U	57 U	na	na	na	na	na	na
Methylene chloride	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	56 U	47 U	80 U	56 U	61 U	61 U	57 U	na	na	na	na	na	na
Methyl tert-butyl ether	µg/kg	11 U	9.3 U	16 U	11 U	0.6 J	0.5 J	0.5 J	na	na	na	na	na	na
Styrene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Tetrachloroethene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Toluene	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,1,1-Trichloroethane	µg/kg	5.6 U	4.7 U	2 J	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
1,1,2-Trichloroethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Trichloroethene	µg/kg	34	66	171	63	110	44	30	na	na	na	na	na	na
1,1,2-Trichlorotrifluoroethane	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Vinyl acetate	µg/kg	56 U	47 U	80 U	56 U	61 U	61 U	57 U	na	na	na	na	na	na
Vinyl chloride	µg/kg	5.6 U	4.7 U	8.0 U	5.6 U	6.1 U	6.1 U	5.7 U	na	na	na	na	na	na
Xylenes (Total)	µg/kg	17 U	14 U	24 U	17 U	18 U	18 U	17 U	na	na	na	na	na	na
Seimivolatile Organic Compounds														
Acenapthene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	940 J	1560	250 J
Acenapthylene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Anthracene	µg/kg	na	na	na	na	na	na	na	1400 U	180 J	2100 U	700 J	2700	580 J
Benzoic acid	µg/kg	na	na	na	na	na	na	na	7500 U	7500 U	11000 U	7800 U	7700 U	7700 U
Benzo(a)anthracene	µg/kg	na	na	na	na	na	na	na	220 J	320 J	160 J	1400 J	1980	810 J
Benzo(a)pyrene	µg/kg	na	na	na	na	na	na	na	380 J	330 J	2100 U	1300 J	1930	880 J
Benzo(b)fluoranthene	µg/kg	na	na	na	na	na	na	na	620 J	520 J	310 J	2410	3300	1500 J
Benzo(g,h,I)perylene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	380 J	500 J	1500 U
Benzo(k)fluoranthene	µg/kg	na	na	na	na	na	na	na	240 J	220 J	2100 U	960 J	1300 J	600 J
Bis(2-chloroethoxy) methane	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Bis(2-chloroethyl) ether	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Bis(2-chloroisopropyl) ether	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Bis(2-ethyhexyl) phthalate	µg/kg	na	na	na	na	na	na	na	160 J	180 J	2100 U	740 J	300 J	1000 J

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 10

ANALYTICAL RESULTS FOR STOCKPILE D-2

Analyte	UNITS	0032-286	0032-287	0032-288	0032-289	0032-290	0032-291	0032-292	0032-294	0032-295	0032-296	0032-297	0032-298	0032-299
4-Bromophenyl phenyl ether	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Butyl benzyl phthalate	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
4-Chloro-3-methylphenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
4-Chloroaniline	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2-Chloronaphthalene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2-Chlorophenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
4-Chlorophenyl phenyl ether	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Chrysene	µg/kg	na	na	na	na	na	na	na	340 J	370 J	240 J	1530	2290	870 J
Di-n-butyl phthalate	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Di-n-octyl phthalate	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Dibenz(a,h)anthracene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Dibenzofuran	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	280 J	990 J	1500 U
1,2-Dichlorobenzene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
1,3 Dichlorobenzene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
1,4 Dichlorobenzene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
3,3'-Dichlorobenzidine	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2,4-Dichlorophenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Diethyl phthalate	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Dimethyl phthalate	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2,4-Dimethylphenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
4,6-Dinitro-2-methylphenol	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
2,4-Dinitrophenol	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
2,4-Dinitrotoluene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2,6-Dinitrotoluene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Fluoranthene	µg/kg	na	na	na	na	na	na	na	490 J	850 J	250 J	3600	5200	1730
Fluorene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	620 J	1300 J	270 J
Hexachlorobenzene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Hexachlorobutadiene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Hexachlorocyclopentadiene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Hexachloroethane	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Indeno(1,2,3-cd)pyrene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	330 J	570 J	1500 U
3/4-Methylphenol (m/p-cresol)	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2-Methylphenol (o-cresol)	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2-Methylnapthalene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Napthalene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	500 J	210 J	130 J
2-Nitroaniline	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
3-Nitroaniline	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
4-Nitroaniline	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
Nitrobenzene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2-Nitrophenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
4-Nitrophenol	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
N-nitroso-di-n-propylamine	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
N-nitrosodiphenylamine	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Pentachlorophenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Phenanthrene	µg/kg	na	na	na	na	na	na	na	150 J	410 J	140 J	2860	6500	1600
Phenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 10

ANALYTICAL RESULTS FOR STOCKPILE D-2

Analyte	UNITS	0032-286	0032-287	0032-288	0032-289	0032-290	0032-291	0032-292	0032-294	0032-295	0032-296	0032-297	0032-298	0032-299
Pyrene	µg/kg	na	na	na	na	na	na	na	790 J	840 J	220 J	4000	5000	2020
1,2,4-Trichlorobenzene	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
2,4,5-Trichlorophenol	µg/kg	na	na	na	na	na	na	na	7000 U	7100 U	10000 U	7300 U	7300 U	7200 U
2,4,6-Trichlorophenol	µg/kg	na	na	na	na	na	na	na	1400 U	1500 U	2100 U	1500 U	1500 U	1500 U
Pesticides/PCBs														
Aldrin	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Beta-BHC	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Alpha-BHC	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Delta-BHC	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Gamma-BHC (Lindane)	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Alpha-chlordane	µg/kg	na	na	na	na	na	na	na	2.2 U	2.2 U	6	30	23 U	30
Gamma-chlordane	µg/kg	na	na	na	na	na	na	na	4.6	8.8	8	67	65	30
4,4'-DDD	µg/kg	na	na	na	na	na	na	na	5.4	21	24	430	450	260
4,4'-DDE	µg/kg	na	na	na	na	na	na	na	4	5.4	3.2 U	30	23 U	20
4,4'-DDT	µg/kg	na	na	na	na	na	na	na	16	47	51	706	704	471
Dieldrin	µg/kg	na	na	na	na	na	na	na	2.2 U	2.2 U	3.2 U	23 U	23 U	23 U
Endosulfan I	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Endosulfan II	µg/kg	na	na	na	na	na	na	na	2.2 U	2.2 U	3.2 U	23 U	23 U	23 U
Endosulfan sulfate	µg/kg	na	na	na	na	na	na	na	5.5 U	5.5 U	7.9 U	57 U	57 U	56 U
Endrin	µg/kg	na	na	na	na	na	na	na	2.2 U	2.2 U	3.2 U	23 U	23 U	23 U
Endrin aldehyde	µg/kg	na	na	na	na	na	na	na	2.2 U	2.2 U	3.2 U	23 U	23 U	23 U
Endrin ketone	µg/kg	na	na	na	na	na	na	na	2.2 U	2.2 U	3.2 U	23 U	23 U	23 U
Heptachlor	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Hepatchlor epoxide	µg/kg	na	na	na	na	na	na	na	1.1 U	1.1 U	1.6 U	11 U	11 U	11 U
Methoxychlor	µg/kg	na	na	na	na	na	na	na	11 U	11 U	16 U	110 U	110 U	110 U
Toxaphene	µg/kg	na	na	na	na	na	na	na	110 U	110 U	160 U	1100 U	1100 U	1100 U
Aroclor-1016	µg/kg	na	na	na	na	na	na	na	55 U	55 U	79 U	57 U	57 U	56 U
Aroclor-1221	µg/kg	na	na	na	na	na	na	na	110 U	110 U	160 U	110 U	110 U	110 U
Aroclor-1232	µg/kg	na	na	na	na	na	na	na	55 U	55 U	79 U	57 U	57 U	56 U
Aroclor-1242	µg/kg	na	na	na	na	na	na	na	55 U	55 U	79 U	57 U	57 U	56 U
Aroclor-1248	µg/kg	na	na	na	na	na	na	na	55 U	55 U	79 U	57 U	57 U	56 U
Aroclor-1254	µg/kg	na	na	na	na	na	na	na	27 U	28 U	39 U	29 U	28 U	28 U
Aroclor-1260	µg/kg	na	na	na	na	na	na	na	54	110	80	380	270	230

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 11

ANALYTICAL RESULTS FOR STOCKPILE C-5

Analyte	UNITS	0032-302	0032-303	0032-304	0032-305	0032-306	0032-307	0032-308	0032-309	0032-310	0032-311	0032-312
		01/09/01	01/09/01	01/09/01	01/09/01	01/09/01	01/09/01	01/09/01	01/09/01	01/09/01	01/09/01	01/09/01
TTLC 17 Metals												
Antimony	mg/kg	1.7 J	1.1 J	2.5 J	2.2 J	1.6 J	2.8 J	0.15 J	4.3 J	4.4 J	0.17 J	5.5 U
Arsenic	mg/kg	3.4	4.7	6.1	4.7	5	5.9	4.7	5.2	4.7	4.5	6.3
Barium	mg/kg	74.6	72.5	87.6	84.1	73.1	83.1	80.4	85.3	86.5	64.3	90.4
Beryllium	mg/kg	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U	0.21 U	0.21 U	0.22 U	0.21 U	0.22 U
Cadmium	mg/kg	0.66	0.52	1	0.79	0.66	0.91	0.28	1	1.2	0.3	0.29
Chromium	mg/kg	36.4	32.1		39.9	39.3	46.1	26.5			23.5	27.9
Cobalt	mg/kg	7.5	7.9	8.8	7.9	8.4	9.3	8.5	8.5	7.9	7.1	9.1
Copper	mg/kg							221				
Lead	mg/kg							37.4				47.4
Mercury	mg/kg									8.3	4.2	5.3
Molybdenum	mg/kg	0.089J	0.21 U	0.54	0.37	0.048 J	0.24 U	0.21 U	0.43	0.22	0.21 U	0.73
Nickel	mg/kg	11.9	12.6	16.6	14.7	14.1	16.8	11.9	26.8	17	10.8	13.6
Selenium	mg/kg	0.53 U	0.53 U	0.54 U	0.53 U	0.54 U	0.61 U	0.53 U	0.53 U	0.55 U	0.51 U	0.55 U
Silver	mg/kg	0.53 U	0.53 U	0.54 U	0.53 U	0.54 U	0.61 U	0.53 U	0.53 U	0.55 U	0.51 U	0.55 U
Thallium	mg/kg	0.53 U	0.53 U	0.54 U	0.53 U	0.54 U	0.61 U	0.53 U	0.53 U	0.55 U	0.51 U	0.55 U
Vanadium	mg/kg	30.7	32.4	36	28.5	32.5	37.7	29.3	35.9	31.9	26.6	33.2
Zinc	mg/kg	451	414	675	497			195		903	253	237
Cyanide	mg/kg	2.6 U	2.6 U	2.7 U	2.6 U	2.7 U	3.0 U	2.7 U	2.6 U	2.7 U	2.6 U	2.7 U
Leachable Metals												
STLC Antimony	µg/L											
STLC Chromium	µg/L	2500	1510	2410	1930	1670	1930	284	2650	2170	1760	900
STLC Copper	µg/L							10300				
STLC Lead	µg/L							1690				3830
STLC Mercury	µg/L	7.7	17.8	4.9	19.5	19.4	11	1.9	32.6	8.5	10	1.9
TCLP Chromium	µg/L											
TCLP Lead	µg/L	230	109	164	163	159	145	68.4 J	883	129	75 J	62.8 J
TCLP Mercury	µg/L	1.3	1.6	1.2	0.98	1.1	1.3	0.52	2 1	0.92	0.8	0.48 J
Total Petroleum Hydrocarbons												
Gasoline	mg/kg	0.75 U	0.92 U	0.92 U	0.02 J	0.69 U	0.06 J	0.83 U	0.86 U	0.80 U	0.90 U	0.84 U
Diesel	mg/kg	30 J	18 J	21 J	59	42 J	120	12 J	63 J	61 J	34 J	29 J
Motor Oil	mg/kg	190	100	140	300	210	420	63	270	310	190	150
Volatile Organic Compounds												
Acetone	µg/kg	21 J	24 J	22 J	20 J	41 J	20 J	22 J	22 J	24 J	27 J	21 J
Benzene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
Bromodichloromethane	µg/kg											
Bromoform	µg/kg											
Bromomethane	µg/kg											
2-Butanone (MEK)	µg/kg	6 J	8 J	7 J	6 J	13 J	6 J	7 J	6 J	6 J	6 J	5 J
Carbon disulfide	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
Carbon tetrachloride	µg/kg											
Chlorobenzene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
Dibromochloromethane	µg/kg											
Chloroethane	µg/kg											
Chloroform	µg/kg											
Chloromethane	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 11

ANALYTICAL RESULTS FOR STOCKPILE C-5

Analyte	UNITS	0032-302	0032-303	0032-304	0032-305	0032-306	0032-307	0032-308	0032-309	0032-310	0032-311	0032-312
1,2-Dichlorobenzene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
1,1-Dichloroethane	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
1,2-Dichloroethane	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
1,1-Dichloroethene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
cis-1,2-Dichloroethene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
trans-1,2-Dichloroethene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
1,2-Dichloropropane	µg/kg											
cis-1,3-Dichloropropene	µg/kg											
trans-1,3-Dichloropropene	µg/kg											
Ethylbenzene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
2-Hexanone	µg/kg											
Methylene chloride	µg/kg											
4-Methyl-2-pentanone (MIBK)	µg/kg											
Methyl tert-butyl ether	µg/kg											
Styrene	µg/kg											
1,1,2,2-Tetrachloroethane	µg/kg											
Tetrachloroethene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
Toluene	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
1,1,1-Trichloroethane	µg/kg											
1,1,2-Trichloroethane	µg/kg											
Trichloroethene	µg/kg	1 J	1 J	5 J	3 J	3 J	1 J	0.5 J	13	8	6.6 U	6.1 U
Vinyl acetate	µg/kg											
Vinyl chloride	µg/kg	5.4 U	5.7 U	7.2 U	5.5 U	10 U	6.1 U	7.1 U	5.8 U	7.1 U	6.6 U	6.1 U
Xylenes (Total)	µg/kg	16 U	17 U	22 U	17 U	30 U	18 U	21 U	17 U	21 U	20 U	18 U
Semivolatile Organic Compounds												
Acenapthene	µg/kg	2800 U	700 U	1200 J	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Acenapthylene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Anthracene	µg/kg	2800 U	700 U	1400 J	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Benzoic acid	µg/kg	14000 U	3600 U	15000 U	7200 U	11000 U	4100 U	3600 U	14000 U	7400 U	8800 U	8200 U
Benzo(a)anthracene	µg/kg	1200 J	610 J	8600	1800	1300 J	1400	410 J	590 J	1400 J	1200 J	420 J
Benzo(a)pyrene	µg/kg	950 J	470 J	5470	1560	1100 J	1060	360 J	590 J	1200 J	1000 J	360 J
Benzo(b)fluoranthene	µg/kg	1400 J	743	8400	2470	1600 J	1800	530 J	820 J	1880	1500 J	500 J
Benzo(g,h,I)perylene	µg/kg	2800 U	150 J	1200 J	370 J	2100 U	250 J	700 U	2800 U	290 J	1700 U	1700 U
Benzo(k)fluoranthene	µg/kg	520 J	260 J	3770	990 J	690 J	690 J	220 J	2800 U	860 J	690 J	240 J
Bis(2-chloroethoxy) methane	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Bis(2-chloroethyl) ether	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Bis(2-chloroisopropyl) ether	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Bis(2-ethyhexyl) phthalate	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	130 J	2800 U	1400 U	1700 U	1700 U
4-Bromophenyl phenyl ether	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Butyl benzyl phthalate	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
4-Chloro-3-methylphenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
4-Chloroaniline	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2-Chloronaphthalene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2-Chlorophenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
4-Chlorophenyl phenyl ether	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Chrysene	µg/kg	1300 J	640 J	8800	1980	1400 J	1450	420 J	670 J	1430	1300 J	450 J
Di-n-butyl phthalate	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Di-n-octyl phthalate	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Dibenz(a,h)anthracene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Dibenzofuran	µg/kg	2800 U	700 U	820 J	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 11

ANALYTICAL RESULTS FOR STOCKPILE C-5

Analyte	UNITS	0032-302	0032-303	0032-304	0032-305	0032-306	0032-307	0032-308	0032-309	0032-310	0032-311	0032-312
1,2-Dichlorobenzene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
1,3 Dichlorobenzene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
1,4 Dichlorobenzene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
3,3'-Dichlorobenzidine	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2,4-Dichlorophenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Diethyl phthalate	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Dimethyl phthalate	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2,4-Dimethylphenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
2,4-Dinitrophenol	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
2,4-Dinitrotoluene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2,6-Dinitrotoluene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Fluoranthene	µg/kg	2200 J	1060	17000	3000	2450	2500	700 J	950 J	2400	2100	710 J
Fluorene	µg/kg	2800 U	700 U	750 J	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Hexachlorobenzene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Hexachlorobutadiene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Hexachlorocyclopentadiene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Hexachloroethane	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Indeno(1,2,3-cd)pyrene	µg/kg	420 J	180 J	1500 J	460 J	330 J	300 J	100 J	2800 U	360 J	260 J	1700 U
3/4-Methylphenol (m/p-cresol)	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2-Methylphenol (o-cresol)	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2-Methylnapthalene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Napthalene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2-Nitroaniline	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
3-Nitroaniline	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
4-Nitroaniline	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
Nitrobenzene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2-Nitrophenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
4-Nitrophenol	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
N-nitroso-di-n-propylamine	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
N-nitrosodiphenylamine	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Pentachlorophenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Phenanthrene	µg/kg	1100 J	400 J	11000	850 J	980 J	760 J	210 J	2800 U	840 J	850 J	300 J
Phenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Pyrene	µg/kg	1600 J	774	12000	2340	1800 J	2100	550 J	880 J	2150	1930	610 J
1,2,4-Trichlorobenzene	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
2,4,5-Trichlorophenol	µg/kg	14000 U	3400 U	14000 U	6800 U	10000 U	3900 U	3400 U	14000 U	7000 U	8200 U	8200 U
2,4,6-Trichlorophenol	µg/kg	2800 U	700 U	2900 U	1400 U	2100 U	800 U	700 U	2800 U	1400 U	1700 U	1700 U
Pesticides/PCBs												
Aldrin	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Beta-BHC	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Alpha-BHC	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Delta-BHC	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Gamma-BHC (Lindane)	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Alpha-chlordane	µg/kg	110 U	53 U	54 U	53 U	54 U	120 U	53 U	53 U	110 U	51 U	55 U
Gamma-chlordane	µg/kg	110 U	53 U	54 U	53 U	54 U	120 U	53 U	53 U	110 U	51 U	55 U
4,4'-DDD	µg/kg	4.2 U	2.1 U	6.3	2.1 U	5.7	4 J	4	2.1 U	4.4 U	2.1 U	2.2 U
4,4'-DDE	µg/kg	4.2 U	2.1 U	2.2 U	2	2.1 U	2 J	1 J	1 J	4.4 U	0.9 J	2.2 U
4,4'-DDT	µg/kg	10	9.7	5.3	8	7.3	8	4.9	4	4.4 U	3	2.2 U
Dieldrin	µg/kg	4.2 U	2.1 U	2.2 U	2.1 U	2.1 U	4.8 U	2.1 U	2.1 U	4.4 U	2.1 U	2.2 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 11

ANALYTICAL RESULTS FOR STOCKPILE C-5

Analyte	UNITS	0032-302	0032-303	0032-304	0032-305	0032-306	0032-307	0032-308	0032-309	0032-310	0032-311	0032-312
Endosulfan I	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Endosulfan II	µg/kg	4.2 U	2.1 U	2.2 U	2.1. U	2.1 U	4.8 U	2.1 U	2.1 U	4.4 U	2.1 U	2.2 U
Endosulfan sulfate	µg/kg	11 U	5.3 U	5.4 U	5.3 U	5.4 U	12 U	5.3 U	5.3 U	11 U	5.1 U	5.5 U
Endrin	µg/kg	4.2 U	2.1 U	2.2 U	2.1 U	2.1 U	4.8 U	2.1 U	2.1 U	4.4 U	2.1 U	2.2 U
Endrin aldehyde	µg/kg	4.2 U	2.1 U	2.2 U	2.1 U	2.1 U	4.8 U	2.1 U	2.1 U	4.4 U	2.1 U	2.2 U
Endrin ketone	µg/kg	4.2 U	2.1 U	2.2 U	2.1 U	2.1 U	4.8 U	2.1 U	2.1 U	4.4 U	2.1 U	2.2 U
Heptachlor	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Hepatchlor epoxide	µg/kg	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	2.2 U	1.0 U	1.1 U
Methoxychlor	µg/kg	21 U	11 U	11 U	11 U	11 U	24 U	11 U	11 U	22 U	10 U	11 U
Toxaphene	µg/kg	210 U	110 U	110 U	110 U	110 U	240 U	110 U	110 U	220 U	100 U	110 U
Aroclor-1016	µg/kg	53 U	53 U	54 U	53 U	54 U	61 U	53 U	53 U	55 U	51 U	55 U
Aroclor-1221	µg/kg	110 U	110 U	110 U	110 U	110 U	120 U	110 U	110 U	110 U	100 U	110 U
Aroclor-1232	µg/kg	53 U	53 U	54 U	53 U	54 U	61 U	53 U	53 U	55 U	51 U	55 U
Aroclor-1242	µg/kg	53 U	53 U	54 U	53 U	54 U	61 U	53 U	53 U	55 U	51 U	55 U
Aroclor-1248	µg/kg	53 U	53 U	54 U	53 U	54 U	61 U	53 U	53 U	55 U	51 U	55 U
Aroclor-1254	µg/kg	26 U	26 U	27 U	26 U	27 U	30 U	27 U	26 U	27 U	26 U	27 U
Aroclor-1260	µg/kg	40	28	61	99	90	62	17 J	35	51	23 J	20 J

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 12

ANALYTICAL RESULTS FOR STOCKPILE C-6

Analyte	UNITS	0032-350	0032-351	0032-353	0032-360	0032-361	0032-362	0032-363	0032-364	0032-365	0032-366
		01/16/01	01/16/01	01/16/01	01/17/01	01/17/01	01/17/01	01/17/01	01/17/01	01/17/01	01/17/01
TTLC 17 Metals											
Antimony	mg/kg	0.35 J	3.8 J	5.7 U	0.37 J	0.39 J	0.37 J	5.6 U	0.88 J	5.8 U	0.33 J
Arsenic	mg/kg	45	46	42	5	43	44	62	48	48	47
Beryllium	mg/kg	0.23 U	0.23 U	0.23 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.22 U
Cadmium	mg/kg	0.066 J	0.16 J	0.097 J	0 11 J	0.067 J	0.15 J	0.036 J	0.11 J	0.087 J	0 11 J
Cobalt	mg/kg	9.9	10.5	9.6	10.7	9.4	9.6	11.8	10.6	10 8	10.6
Lead	mg/kg	13.7	34	14.1	25.4	20.1	32.1	5.7	14.5	39.2	33.5
Thallium	mg/kg	1.1 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
Cyanide	mg/kg	2.9 U	2 8 U	2.8 U	2.8 U	2.8 U	2 8 U	2 8 U	2 9 U	2.9 U	2.8 U
Total Petroleum Hydrocarbons											
Gasoline	mg/kg	0.02 J	0.03 J	0 02 J	0 7 J	0.06 J	0 04 J	0.02 J	0.03 J	0 03 J	0.02 J
Diesel	mg/kg	42	18	20	11 J	7 J	8 J	7 J	20	15	30
Motor Oil	mg/kg	190	100	74	53	45	43	27	72	50	96
Volatile Organic Compounds											
Acetone	µg/kg	180 U	15 J	14 J	19 J	23 J	19 J	18 J	17 J	19 J	22 J
Benzene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
2-Butanone (MEK)	µg/kg	7 J	130 U	4 J	6 J	6 J	5 J	5 J	5 J	5 J	6 J
Carbon disulfide	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Chlorobenzene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Chloromethane	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
1,2-Dichlorobenzene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
1,1-Dichloroethane	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
1,2-Dichloroethane	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
1,1-Dichloroethene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
cis-1,2-Dichloroethene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
trans-1,2-Dichloroethene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Ethylbenzene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Tetrachloroethene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Toluene	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Trichloroethene	µg/kg	7 J	4 J	5 J	0.7 J	0.9 J	3 J	10	12	4 J	5 J
Vinyl chloride	µg/kg	9.1 U	6.4 U	5.5 U	6.6 U	6.8 U	6.7 U	7.5 U	5.7 U	6.3 U	6.2 U
Xylenes (Total)	µg/kg	27 U	19 U	17 U	20 U	20 U	20 U	22 U	17 U	19 U	19 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 13

ANALYTICAL RESULTS FOR STOCKPILE D-3

Analyte	UNITS	0032-367	0032-368	0032-369	0032-370
		01/17/01	01/17/01	01/17/01	01/17/01
TTLC 17 Metals					
Antimony	mg/kg	19.5	[illegible]	2.3 J	1.8 J
Arsenic	mg/kg		2.1		
Barium	mg/kg	104	129	84.9	81
Beryllium	mg/kg	0.23 U	0.23 U	0.23 U	0.23 U
Cadmium	mg/kg	1.6	1.9	0.48	0.29
Chromium	mg/kg			29.3	23.1
Cobalt	mg/kg	12.4	16.1	9.5	9.1
Copper	mg/kg				
Lead	mg/kg				
Mercury	mg/kg				1.5
Molybdenum	mg/kg	2	1.6	0.23 U	0.23 U
Nickel	mg/kg	22.7	29.3	13.8	12.3
Selenium	mg/kg	0.50 J	0.37 J	0.58 U	0.57 U
Silver	mg/kg	0.22 J	0.76	0.58 U	0.57 U
Thallium	mg/kg	0.57 U	0.58 U	0.58 U	0.57 U
Vanadium	mg/kg	34.2	35.8	34.7	34.1
Zinc	mg/kg	1140	2040	350	182
Cyanide	mg/kg	2.8 U	2.9 U	2.9 U	2.9 U
Leachable Metals					
STLC Chromium	µg/L			528	2790
TCLP Chromium	µg/L	75.4	93.5	24.5	70.8
STLC Copper	µg/L			16300	
STLC Lead	µg/L			2440	
TCLP Lead	µg/L	556	1780	143	3040
STLC Mercury	µg/L		117	6.7	33.8
TCLP Mercury	µg/L	2.5	2.8	0.30 J	1.6
Total Petroleum Hydrocarbons					
Gasoline	mg/kg	70	43 J	0.3 J	0.3 J
Diesel	mg/kg	290	1500	41	340
Motor Oil	mg/kg	630	3100	210	660
Volatile Organic Compounds					
Acetone	µg/kg	56 J	24 J	26 J	30 J
Benzene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
2-Butanone (MEK)	µg/kg	6 J	5 J	6 J	7 J
Carbon disulfide	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
Chlorobenzene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
Chloromethane	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
1,2-Dichlorobenzene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
1,1-Dichloroethane	µg/kg	1 J	5.4 U	5.1 U	1 J

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 13

ANALYTICAL RESULTS FOR STOCKPILE D-3

Analyte	UNITS	0032-367	0032-368	0032-369	0032-370
1,2-Dichloroethane	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
1,1-Dichloroethene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
cis-1,2-Dichloroethene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
trans-1,2-Dichloroethene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
Ethylbenzene	µg/kg	5	0.5 J	5.1 U	6.5 U
Tetrachloroethene	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
Toluene	µg/kg	4 J	5.4 U	5.1 U	6.5 U
Trichloroethene	µg/kg	87	65	18	71
Vinyl chloride	µg/kg	5.4 U	5.4 U	5.1 U	6.5 U
Xylenes (Total)	µg/kg	39	3 J	15 U	19 U
Semivolatile Organic Compounds					
Acenapthene	µg/kg	1500 U	6100 U	770 U	750 U
Acenapthylene	µg/kg	1500 U	6100 U	770 U	750 U
Anthracene	µg/kg	1500 U	6100 U	770 U	750 U
Benzoic acid	µg/kg	7700 U	31000 U	4000 U	3900 U
Benzo(a)anthracene	µg/kg	900 J	1200 J	370 J	853
Benzo(a)pyrene	µg/kg	760 J	1100 J	300 J	660 J
Benzo(b)fluoranthene	µg/kg	1100 J	1500 J	440 J	1100
Benzo(g,h,I)perylene	µg/kg	330 J	6100 U	770 U	210 J
Benzo(k)fluoranthene	µg/kg	430 J	6100 U	170 J	520 J
Bis(2-chloroethoxy) methane	µg/kg	1500 U	6100 U	770 U	750 U
Bis(2-chloroethyl) ether	µg/kg	1500 U	6100 U	770 U	750 U
Bis(2-chloroisopropyl) ether	µg/kg	1500 U	6100 U	770 U	750 U
Bis(2-ethyhexyl) phthalate	µg/kg	1500 U	6100 U	770 U	240 J
4-Bromophenyl phenyl ether	µg/kg	1500 U	6100 U	770 U	750 U
Butyl benzyl phthalate	µg/kg	1500 U	6100 U	770 U	750 U
4-Chloro-3-methylphenol	µg/kg	1500 U	6100 U	770 U	750 U
4-Chloroaniline	µg/kg	1500 U	6100 U	770 U	750 U
2-Chloronaphthalene	µg/kg	1500 U	6100 U	770 U	750 U
2-Chlorophenol	µg/kg	1500 U	6100 U	770 U	750 U
4-Chlorophenyl phenyl ether	µg/kg	1500 U	6100 U	770 U	750 U
Chrysene	µg/kg	970 J	1400 J	370 J	853
Di-n-butyl phthalate	µg/kg	500 J	1400 J	770 U	756
Di-n-octyl phthalate	µg/kg	1500 U	6100 U	770 U	750 U
Dibenz(a,h)anthracene	µg/kg	1500 U	6100 U	770 U	750 U
Dibenzofuran	µg/kg	1500 U	6100 U	770 U	750 U
1,2-Dichlorobenzene	µg/kg	1500 U	6100 U	770 U	750 U
1,3 Dichlorobenzene	µg/kg	1500 U	6100 U	770 U	750 U
1,4 Dichlorobenzene	µg/kg	1500 U	6100 U	770 U	750 U
3,3'-Dichlorobenzidine	µg/kg	1500 U	6100 U	770 U	750 U
2,4-Dichlorophenol	µg/kg	1500 U	6100 U	770 U	750 U
Diethyl phthalate	µg/kg	1500 U	6100 U	770 U	750 U
Dimethyl phthalate	µg/kg	1500 U	6100 U	770 U	750 U
2,4-Dimethylphenol	µg/kg	1500 U	6100 U	770 U	750 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 13

ANALYTICAL RESULTS FOR STOCKPILE D-3

Analyte	UNITS	0032-367	0032-368	0032-369	0032-370
4,6-Dinitro-2-methylphenol	µg/kg	7300 U	30000 U	3700 U	3700 U
2,4-Dinitrophenol	µg/kg	7300 U	30000 U	3700 U	3700 U
2,4-Dinitrotoluene	µg/kg	1500 U	6100 U	770 U	750 U
2,6-Dinitrotoluene	µg/kg	1500 U	6100 U	770 U	750 U
Fluoranthene	µg/kg	1500 J	2400 J	550 J	1360
Fluorene	µg/kg	1500 U	6100 U	770 U	750 U
Hexachlorobenzene	µg/kg	1500 U	6100 U	770 U	750 U
Hexachlorobutadiene	µg/kg	1500 U	6100 U	770 U	750 U
Hexachlorocyclopentadiene	µg/kg	1500 U	6100 U	770 U	750 U
Hexachloroethane	µg/kg	1500 U	6100 U	770 U	750 U
Indeno(1,2,3-cd)pyrene	µg/kg	360 J	6100 U	130 J	220 J
3/4-Methylphenol (m/p-cresol)	µg/kg	1500 U	6100 U	770 U	750 U
2-Methylphenol (o-cresol)	µg/kg	1500 U	6100 U	770 U	750 U
2-Methylnapthalene	µg/kg	1500 U	6100 U	770 U	750 U
Napthalene	µg/kg	1500 U	5100 J	770 U	310 J
2-Nitroaniline	µg/kg	7300 U	30000 U	3700 U	3700 U
3-Nitroaniline	µg/kg	7300 U	30000 U	3700 U	3700 U
4-Nitroaniline	µg/kg	7300 U	30000 U	3700 U	3700 U
Nitrobenzene	µg/kg	1500 U	6100 U	770 U	750 U
2-Nitrophenol	µg/kg	1500 U	6100 U	770 U	750 U
4-Nitrophenol	µg/kg	7300 U	30000 U	3700 U	3700 U
N-nitroso-di-n-propylamine	µg/kg	1500 U	6100 U	770 U	750 U
N-nitrosodiphenylamine	µg/kg	1500 U	6100 U	770 U	750 U
Pentachlorophenol	µg/kg	1500 U	6100 U	770 U	750 U
Phenanthrene	µg/kg	600 J	2600 J	220 J	610 J
Phenol	µg/kg	180 J	6100 U	770 U	750 U
Pyrene	µg/kg	1200 J	2200 J	500 J	1180
1,2,4-Trichlorobenzene	µg/kg	1500 U	6100 U	770 U	750 U
2,4,5-Trichlorophenol	µg/kg	7300 U	30000 U	3700 U	3700 U
2,4,6-Trichlorophenol	µg/kg	1500 U	6100 U	770 U	750 U
Pesticides/PCBs					
Aldrin	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Beta-BHC	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Alpha-BHC	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Delta-BHC	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Gamma-BHC (Lindane)	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Chlordane	µg/kg	57 U	58 U	58 U	57 U
4,4'-DDD	µg/kg	4	2.3 U	2.3 U	7.4
4,4'-DDE	µg/kg	13	5	11	5.8
4,4'-DDT	µg/kg	70	20	28	44
Dieldrin	µg/kg	2.3 U	2.3 U	2.3 U	2.3 U
Endosulfan I	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Endosulfan II	µg/kg	2.3 U	2.3 U	2.3 U	2.3 U
Endosulfan sulfate	µg/kg	5.7 U	5.8 U	5.8 U	5.7 U

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 13

ANALYTICAL RESULTS FOR STOCKPILE D-3

Analyte	UNITS	0032-367	0032-368	0032-369	0032-370
Endrin	µg/kg	2.3 U	2.3 U	2.3 U	2.3 U
Endrin aldehyde	µg/kg	2.3 U	2.3 U	2.3 U	2.3 U
Endrin ketone	µg/kg	2.3 U	2.3 U	2.3 U	2.3 U
Heptachlor	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Hepatchlor epoxide	µg/kg	1.1 U	1.2 U	1.2 U	1.1 U
Methoxychlor	µg/kg	11 U	12 U	12 U	11 U
Toxaphene	µg/kg	110 U	120 U	120 U	110 U
Aroclor-1016	µg/kg	57 U	58 U	58 U	57 U
Aroclor-1221	µg/kg	110 U	120 U	120 U	110 U
Aroclor-1232	µg/kg	57 U	58 U	58 U	57 U
Aroclor-1242	µg/kg	57 U	58 U	58 U	57 U
Aroclor-1248	µg/kg	57 U	58 U	58 U	57 U
Aroclor-1254	µg/kg	28 U	29 U	29 U	29 U
Aroclor-1260	µg/kg	310	410	200	170

Blue shading: result is above RAO
Red shading: result is above TTLC/STLC/TCLP limits

J: estimated value
na: not analyzed
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-035	0032-036	0032-037	0032-038	0032-039	0032-040	0032-041	0032-042	0032-043	0032-044	0032-045	0032-046	0032-049	0032-050	0032-051	0032-052	0032-053
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00
LOCATION			D14	D14 (DUP)	E14	F14	G14	D15	D13	D15 Sidewall	E13	E15	E15 (DUP)	F13	E15 Sidewall	G13	D12	E12	F12
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.3 U	5.2 U	5.3 U	5.4 U	5.5 U	4.9 J	5.4 U	5.3 U	5.3 U	5.6 U	5.4 U	6.2 U	5.6 U	7.1	5.4 U	5.4 U	5.2 U
Arsenic	mg/kg	3.9	3.3	[illegible]	2.5	3.5	3.3	[illegible]	3.4	3.2	3.7	2.9	2.5	[illegible]	[illegible]	[illegible]	3.5	2.8	[illegible]
Barium	mg/kg	NE	82.3 J	89.2 J	44.6 J	63.2 J	70.6 J	122 J	80.9 J	62.1 J	58.4 J	66.1 J	61.6 J	114 J	107 J	93.8 J	73.2 J	74.7 J	59.9 J
Beryllium	mg/kg	0.68	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.23 U	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.25 U	0.22 U	0.22 U	0.22 U	0.22 U	0.21 U
Cadmium	mg/kg	42	0.035 J	0.072 J	0.087 J	0.057 J	0.069 J	0.5	0.079 J	0.039 J	0.080 J	0.061 J	0.057 J	0.6	0.39	0.74	0.083 J	0.059 J	0.084 J
Chromium	mg/kg	NE	11.9 J	11.5 J	8.3 J	11.5 J	11.2 J	29.1 J	11.7 J	11.6 J	10.7 J	17.6 J	11.8 J	31.6 J	26.6 J	36.8 J	10.5 J	11.3 J	11.6 J
Cobalt	mg/kg	3400	8.3 J	8.4 J	5.6 J	7.7 J	8.3 J	10.6 J	8.8 J	8.2 J	6.9 J	8.1 J	7.8 J	11 J	11.9 J	9.7 J	6.8 J	8.9 J	7.5 J
Copper	mg/kg	NE	8.9	8.1	9.6	8.4	10.2	306	9.7	10.2	16.3	7.5	8.2	421	242	417	6.8	9.2	12.2
Lead	mg/kg	620	2.7	2.1	1.3	1.6	2.2	78.5	1.8	1.1	3.5	1.5	1.7	99.2	43.9	163	1.5	1.3	2.1
Mercury	mg/kg	NE	0.073 J	0.054 J	1.2	0.044 J	0.050 J	1.8	0.071 J	0.11 J	0.10 J	0.058 J	0.048 J	3.2	0.55	4.2	0.22 U	0.22 U	0.048 J
Molybdenum	mg/kg	NE	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.23 U	0.21 U	0.21 U	0.21 U	0.22 U	0.21 U	0.25 U	0.22 U	0.22 U	0.22 U	1.4	0.21 U
Nickel	mg/kg	NE	9.1 J	9.4 J	5.9 J	8.3 J	9.1 J	20.1 J	9.5 J	8.8 J	7.7 J	8.4 J	8.3 J	19.3 J	20.2 J	23.2 J	7.5 J	9.8 J	8.7 J
Selenium	mg/kg	NE	0.089 J	0.28 J	0.32 J	0.99	0.12 J	0.38 J	0.54 U	0.53	0.7	0.33 J	0.31 J	0.84	0.41 J	0.50 J	0.35 J	0.48 J	0.46 J
Silver	mg/kg	NE	0.53 U	0.52 U	0.53 U	0.54 U	0.55 U	0.56 U	0.54 U	0.53 U	0.53 U	0.56 U	0.54 U	0.62 U	0.56 U	0.55 U	0.54 U	0.54 U	0.52 U
Thallium	mg/kg	3.9	0.53 U	0.52 U	0.53 U	0.54 U	0.55 U	0.56 U	0.54 U	0.53 U	0.53 U	0.56 U	0.54 U	0.62 U	0.56 U	0.55 U	0.54 U	0.54 U	0.52 U
Vanadium	mg/kg	NE	29.2	27.7	21.5	29.8	29	40.2	29.3	29.2	26.5	28.6	24.6	41.7	39.8	40	26	26.5	30
Zinc	mg/kg	NE	35.1	33.9	23.7	30.9	34.1	288	34.2	33	32.2	29.8	29.4 J	299 J	214 J	394 J	26.4 J	34.8 J	33.9 J
Cyanide	mg/kg	1100	2.6 U	2.6 U	2.6 U	2.7 U	2.7 U	2.8 U	2.7 U	2.7 U	2.6 U	2.8 U	2.7 U	3.1 U	2.8 UJ	2.7 UJ	2.7 UJ	2.7 UJ	2.6 UJ
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1.3 U	0.02 J	1.2 U	1.8 U	0.05 J	1.2 U	1.9 U	0.01 J	1.7 U	0.01 J	1.2 U	1.7 U	2.6 U	1.1 U	1.3 U	1.7 U	1.9 U
Diesel	mg/kg	10000	49	55	98 J	11 U	11 U	8 J	82	11 U	11 U	15	13	8 J	8 J	29	11 U	11 U	10 U
Motor Oil	mg/kg	50000	150	190	140 J	11 U	2 J	79	530	11 U	2 J	160	140	74	67	110	3 J	4 J	4 J
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	140 U	110 U	110 U	150 U	210 U	120 U	250 U	160 U	290 U	130 U	120 UJ	270 UJ	360 UJ	120 UJ	250 UJ	150 UJ	250 UJ
Benzene	µg/kg	3700	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Bromodichloromethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Bromoform	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Bromomethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
2-Butanone (MEK)	µg/kg	27000000	140 U	110 U	110 U	150 U	210 U	120 U	250 U	160 U	290 U	130 U	120 U	270 U	360 U	120 U	250 U	150 U	250 U
Carbon disulfide	µg/kg	120000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Carbon tetrachloride	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Chlorobenzene	µg/kg	180000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Dibromochloromethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Chloroethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
2-Chloroethyl vinyl ether	µg/kg	NE	72 U	54 U	54 U	76 U	110 U	59 U	130 U	78 U	140 U	66 U	62 U	140 U	180 U	62 U	130 U	74 U	130 U
Chloroform	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Chloromethane	µg/kg	180000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-035	0032-036	0032-037	0032-038	0032-039	0032-040	0032-041	0032-042	0032-043	0032-044	0032-045	0032-046	0032-049	0032-050	0032-051	0032-052	0032-053
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00
LOCATION			D14	D14 (DUP)	E14	F14	G14	D15	D13	D15 Sidewall	E13	E15	E15 (DUP)	F13	E15 Sidewall	G13	D12	E12	F12
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,2-Dichloroethane	µg/kg	8500	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,1-Dichloroethene	µg/kg	360	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
cis-1,2-Dichloroethene	µg/kg	120000	7.2 U	5.4 U	5.4 U	7.6 U	3 J	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
trans-1,2-Dichloroethene	µg/kg	210000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,2-Dichloropropane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
cis-1,3-Dichloropropene	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
trans-1,3-Dichloropropene	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Ethylbenzene	µg/kg	5700000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
2-Hexanone	µg/kg	NE	72 U	54 U	54 U	76 U	110 U	59 U	130 U	78 U	140 U	66 U	62 U	140 U	180 U	62 U	130 U	74 U	130 U
Methylene chloride	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	72 U	54 U	54 U	76 U	110 U	59 U	130 U	78 U	140 U	66 U	62 U	140 U	180 U	62 U	130 U	74 U	130 U
Methyl tert-butyl ether	µg/kg	NE	14 U	11 U	11 U	15 U	21 U	12 U	25 U	16 U	29 U	13 U	12 U	27 U	36 U	12 U	25 U	15 U	25 U
Styrene	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Tetrachloroethene	µg/kg	7400	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Toluene	µg/kg	2000000	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,1,1-Trichloroethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,1,2-Trichloroethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	8	13 U	7.4 U	13 U
Trichloroethene	µg/kg	7200	7.2 U	5.4 U	5.4 U	7.6 U	31	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Vinyl acetate	µg/kg	NE	72 U	54 U	54 U	76 U	110 U	59 U	130 U	78 U	140 U	66 U	62 U	140 U	180 U	62 U	130 U	74 U	130 U
Vinyl chloride	µg/kg	13	7.2 U	5.4 U	5.4 U	7.6 U	11 U	5.9 U	13 U	7.8 U	14 U	6.6 U	6.2 U	14 U	18 U	6.2 U	13 U	7.4 U	13 U
Xylenes (Total)	µg/kg	4500000	21 U	16 U	16 U	23 U	32 U	18 U	38 U	23 U	43 U	20 U	18 U	41 U	54 U	19 U	38 U	22 U	38 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Acenapthylene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Anthracene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Benzoic acid	µg/kg	NE	1800 U	1800 U	1800 U	1800 U	1900 U	1900 U	1800 U	1800 U	1800 U	1900 U	1800 U	4200 U	1900 U	1900 U	1800 U	1900 U	1800 U
Benzo(a)anthracene	µg/kg	NE	350 U	350 U	130 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	67 J	360 U	360 U	340 U
Benzo(a)pyrene	µg/kg	NE	350 U	350 U	160 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	69 J	360 U	360 U	340 U
Benzo(b)fluoranthene	µg/kg	NE	350 U	350 U	150 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	110 J	360 U	360 U	340 U
Benzo(g,h,I)perylene	µg/kg	NE	350 UJ	350 UJ	270 J	360 UJ	360 UJ	62 J	350 UJ	350 UJ	350 UJ	370 UJ	350 U	820 UJ	370 U	49 J	360 UJ	360 UJ	340 UJ
Benzo(k)fluoranthene	µg/kg	NE	350 U	350 U	63 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	42 J	360 U	360 U	340 U
Bis(2-chloroethoxy) methane	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Bis(2-chloroethyl) ether	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 UJ	820 U	370 UJ	360 UJ	360 UJ	360 UJ	340 UJ
Bis(2-chloroisopropyl) ether	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Bis(2-ethyhexyl) phthalate	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 UJ	350 UJ	350 U	350 U	370 U	350 U	820 UJ	370 U	67 J	360 U	360 U	340 U
4-Bromophenyl phenyl ether	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Butyl benzyl phthalate	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 UJ	350 UJ	350 U	350 U	370 U	350 U	820 UJ	370 U	360 U	360 U	360 U	340 U

J: estimated value
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Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-035	0032-036	0032-037	0032-038	0032-039	0032-040	0032-041	0032-042	0032-043	0032-044	0032-045	0032-046	0032-049	0032-050	0032-051	0032-052	0032-053
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00
LOCATION			D14	D14 (DUP)	E14	F14	G14	D15	D13	D15 Sidewall	E13	E15	E15 (DUP)	F13	E15 Sidewall	G13	D12	E12	F12
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
4-Chloroaniline	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2-Chloronaphthalene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2-Chlorophenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
4-Chlorophenyl phenyl ether	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	67 J	360 U	360 U	340 U
Chrysene	µg/kg	NE	350 U	350 U	130 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Di-n-butyl phthalate	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Di-n-octyl phthalate	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 UJ	370 U	360 U	360 U	360 U	340 U
Dibenz(a,h)anthracene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Dibenzofuran	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
1,2-Dichlorobenzene	µg/kg	3300000	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
1,3 Dichlorobenzene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
1,4 Dichlorobenzene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
3,3'-Dichlorobenzidine	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2,4-Dichlorophenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Diethyl phthalate	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Dimethyl phthalate	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2,4-Dimethylphenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
4,6-Dinitro-2-methylphenol	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1700 U	1800 U	1700 U	4000 UJ	1800 U	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrophenol	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 UJ	1700 UJ	1700 U	1700 U	1800 U	1700 U	4000 U	1800 U	1700 U	1700 UJ	1700 UJ	1700 UJ
2,4-Dinitrotoluene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2,6-Dinitrotoluene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Fluoranthene	µg/kg	NE	350 U	350 U	240J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	33 J	130 J	360 U	360 U	340 U
Fluorene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Hexachlorobenzene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Hexachlorobutadiene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Hexachlorocyclopentadiene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 UJ	820 UJ	370 UJ	360 U	360 UJ	360 U	340 UJ
Hexachloroethane	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 UJ	360 U	360 U	340 U
Indeno(1,2,3-cd)pyrene	µg/kg	NE	350 U	350 U	150 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	39 J	360 U	360 U	340 U
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2-Methylphenol (o-cresol)	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2-Methylnapthalene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	360 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Napthalene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	46 J	360 U	110 J
2-Nitroaniline	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1700 U	1800 U	1700 U	4000 U	1800 U	1700 U	1700 U	1700 U	1700 U
3-Nitroaniline	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1700 U	1800 U	1700 U	4000 U	1800 U	1700 U	1700 U	1700 U	1700 U
4-Nitroaniline	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1700 U	1800 U	1700 U	4000 U	1800 U	1700 U	1700 UJ	1700 UJ	1700 UJ
Nitrobenzene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2-Nitrophenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
4-Nitrophenol	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1700 U	1800 U	1700 U	4000 U	1800 U	1700 U	1700 UJ	1700 UJ	1700 UJ
N-nitroso-di-n-propylamine	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
N-nitrosodiphenylamine	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U

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Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-035	0032-036	0032-037	0032-038	0032-039	0032-040	0032-041	0032-042	0032-043	0032-044	0032-045	0032-046	0032-049	0032-050	0032-051	0032-052	0032-053
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00
LOCATION			D14	D14 (DUP)	E14	F14	G14	D15	D13	D15 Sidewall	E13	E15	E15 (DUP)	F13	E15 Sidewall	G13	D12	E12	F12
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Phenanthrene	µg/kg	NE	350 U	350 U	150 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	43 J	360 U	360 U	340 U
Phenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Pyrene	µg/kg	NE	350 U	350 U	230 J	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 UJ	370 U	110 J	360 U	360 U	340 U
1,2,4-Trichlorobenzene	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
2,4,5-Trichlorophenol	µg/kg	NE	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1700 U	1800 U	1700 U	4000 U	1800 U	1700 U	1700 U	1700 U	1700 U
2,4,6-Trichlorophenol	µg/kg	NE	350 U	350 U	350 U	360 U	360 U	370 U	350 U	350 U	350 U	370 U	350 U	820 U	370 U	360 U	360 U	360 U	340 U
Pesticides/PCBs																			
Aldrin	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Beta-BHC	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Alpha-BHC	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Delta-BHC	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Gamma-BHC (Lindane)	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
alpha-chlordane	µg/kg	NE	53 U	52 U	53 U	54 U	55 U	56 U	54 U	53 U	53 U	56 U	54 U	62 U	56 U	110 U	54 U	54 U	52 U
gamma-chlordane	µg/kg	NE	53 U	52 U	53 U	54 U	55 U	56 U	54 U	53 U	53 U	56 U	54 U	62 U	56 U	110 U	54 U	54 U	52 U
4,4'-DDD	µg/kg	NE	2.1 U	2.1 U	28	1 J	16	2.3 U	2.1 U	2.1 U	2 J	2.2 U	2.1 U	2.5 U	2.2 U	40	2.2 U	2.2 U	2.1 U
4,4'-DDE	µg/kg	NE	2.1 U	2.1 U	7.2	2.2 U	1 J	2.3 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.5 U	2.2 U	3 J	2.2 U	2.2 U	2.1 U
4,4'-DDT	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	51	3	2.1 U	2.1 U	5.5	2.2 U	2.1 U	2.5 U	2.2 U	103	2	2.2 U	2.1 U
Dieldrin	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.5 U	2.2 U	4.4 U	2.2 U	2.2 U	2.1 U
Endosulfan I	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Endosulfan II	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.5 U	2.2 U	4.4 U	2.2 U	2.2 U	2.1 U
Endosulfan sulfate	µg/kg	NE	5.3 U	5.2 U	5.3 U	5.4 U	5.5 U	5.6 U	5.4 U	5.3 U	5.3 U	5.6 U	5.4 U	6.2 U	5.6 U	11 U	5.4 U	5.4 U	5.2 U
Endrin	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.5 U	2.2 U	4.4 U	2.2 U	2.2 U	2.1 U
Endrin aldehyde	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.5 U	2.2 U	4.4 U	2.2 U	2.2 U	2.1 U
Endrin ketone	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.5 U	2.2 U	4.4 U	2.2 U	2.2 U	2.1 U
Heptachlor	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Hepatchlor epoxide	µg/kg	NE	1.1 U	1.0 U	1.1 U	1.1 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	2.2 U	1.1 U	1.1 U	1.0 U
Methoxychlor	µg/kg	NE	11 U	10 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	22 U	11 U	11 U	10 U
Toxaphene	µg/kg	NE	110 U	100 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	120 U	110 U	220 U	110 U	110 U	100 U
Aroclor-1016	µg/kg	NE	53 U	100 U	53 U	54 U	55 U	56 U	270 U	53 U	53 U	56 U	54 U	62 U	56 U	55 U	54 U	54 U	52 U
Aroclor-1221	µg/kg	NE	110 U	210 U	110 U	110 U	110 U	110 U	540 U	110 U	110 U	110 U	110 U	120 U	110 U	110 U	110 U	110 U	100 U
Aroclor-1232	µg/kg	NE	53 U	100 U	53 U	54 U	55 U	56 U	270 U	53 U	53 U	56 U	54 U	62 U	56 U	55 U	54 U	54 U	52 U
Aroclor-1242	µg/kg	NE	53 U	100 U	53 U	54 U	55 U	56 U	270 U	53 U	53 U	56 U	54 U	62 U	56 U	55 U	54 U	54 U	52 U
Aroclor-1248	µg/kg	NE	53 U	100 U	53 U	54 U	55 U	56 U	270 U	53 U	53 U	56 U	54 U	62 U	56 U	55 U	54 U	54 U	52 U
Aroclor-1254	µg/kg	NE	26 U	52 U	26 U	27 U	27 U	28 U	130 U	27 U	26 U	28 U	27 U	31 U	28 U	27 U	27 U	47	26 U
Aroclor-1260	µg/kg	NE	430	500	110 J	27 U	27 U	19 J	3770	27 U	220 J	130	180	90	150	120	27 U	27 U	26 U

J: estimated value
na: not analyzed
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U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-054	0032-055	0032-056	0032-057	0032-058	0032-059	0032-060	0032-114	0032-115	0032-116	0032-117	0032-118	0032-119	0032-120	0032-121	0032-122	0032-165
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/22/00
LOCATION			F12 (DUP)	F15 Sidewall	G12	E11	D11	F11	G11	C15	C15 Sidewall	C15 Sidewall (DUP)	C14	B15 Sidewall	B14 Sidewall	B13 Sidewall	B12 Sidewall	B11 Sidewall	G10
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.2 U	5.2 U	5.2 U	5.5 U	5.8 U	5.8 U	5.3 U	5.4 U	5.1 U	5.1 U	5.5 U	5.2 U	5.4 U	5.4 U	5.3 U	5.6 U	5.6 U
Arsenic	mg/kg	3.9	4.6	4	2.7	3.3	4.2	2.8	7	2.6	2.3	2.6	3.7	2.3	4.1	4.7	4	4.6	2.8
Barium	mg/kg	NE	57 J	48.1 J	50.9 J	58.4 J	66.7 J	58.1 J	66.5 J	72	54	54	65.3	56.1	76.7	90.8	62.1	62.3	75.6
Beryllium	mg/kg	0.68	0.21 U	0.21 U	0.21 U	0.22 U	0.23 U	0.23 U	0.21 U	0.22 U	0.20 U	0.20 U	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.23 U	0.22 U
Cadmium	mg/kg	42	0.082 J	0.068 J	0.033 J	2.1	0.083 J	0.054 J	0.19 J	0.052 J	0.024 J	0.032 J	0.16 J	0.029 J	0.14 J	0.12 J	0.043 J	0.039 J	0.22 U
Chromium	mg/kg	NE	12.6 J	10.4 J	10.9 J	48.2 J	12.1 J	10.9 J	15 J	12.1	9.5	10.9	12.6	10	14.6	12.4	12.1	12.5	14.2
Cobalt	mg/kg	3400	7.2 J	6.3 J	7 J	15.4 J	8.3 J	7.8 J	7.8 J	6.7 J	6.4 J	6.6 J	6.9 J	7 J	8.4 J	8.7 J	7.9 J	8 J	9.2
Copper	mg/kg	NE	18	6.3	6.1	53.1	6.6	6.4	56.1	5.9	5.2	5.6	58.2	5.9	38.7	16.2	7.9	7.6	60.1
Lead	mg/kg	620	3.1	1.3	1	5.9	1.6	1.2	26.2	1.7	1.4	1.2	13.5	1.4	7.3	4	1.7	1.6	10.3
Mercury	mg/kg	NE	0.036 J	0.21 U	0.21 U	0.35	0.23 U	0.053 J	0.13 J	0.042 J	0.038 J	0.042 J	0.32	0.035 J	0.13 J	0.061 J	0.21 U	0.23 U	0.050 J
Molybdenum	mg/kg	NE	0.21 U	0.21 U	0.21 U	0.22 U	0.23 U	0.23 U	0.21 U	0.22 U	0.20 U	0.20 U	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.23 U	0.22 U
Nickel	mg/kg	NE	8.2 J	7.3 J	7.4 J	62.2 J	8.8 J	8.2 J	9.3 J	7.6 J	6.8 J	7 J	9.1 J	7.6 J	10.9 J	10.6 J	8.8 J	8.9 J	10.1
Selenium	mg/kg	NE	0.67	0.35 J	0.47 J	0.27 J	0.27 J	0.34 J	0.58	0.54 U	0.51 U	0.51 U	0.55 U	0.52 U	0.54 U	0.54 U	0.53 U	0.56 U	0.56 U
Silver	mg/kg	NE	0.52 U	0.52 U	0.52 U	0.55 U	0.58 U	0.58 U	0.53 U	0.54 U	0.51 U	0.51 U	0.55 U	0.52 U	0.54 U	0.54 U	0.53 U	0.56 U	0.56 U
Thallium	mg/kg	3.9	0.52 U	0.52 U	0.52 U	0.55 U	0.58 U	0.58 U	0.53 U	0.54 U	0.51 U	0.51 U	0.55 U	0.52 U	0.54 U	0.54 U	0.53 U	0.56 U	0.56 U
Vanadium	mg/kg	NE	31.8	27.5	31.9	29.4	31.7	27.1	31.6	25.8	26.5	30.1	29.4	27	32.5	29.2	33.2	36	31.6
Zinc	mg/kg	NE	33.7 J	25.1 J	26.6 J	509 J	31 J	29.3 J	68.3 J	25.4	23.4	24.2	56.4	25.7	48.5	39	28.9	30.5	62
Cyanide	mg/kg	1100	2.6 UJ	2.6 UJ	2.6 UJ	2.7 UJ	2.9 UJ	2.9 UJ	2.6 UJ	2.7 U	2.5 U	2.5 U	2.7 U	2.6 U	2.7 U	2.7 U	2.6 U	2.8 U	2.8 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1.6 U	1.5 U	1.7 U	0.06 J	1.3 U	1.3 U	1.5 U	1.4 U	1.4 U	1.1 U	0.03 J	1.0 U	1.1 U	1.1 U	1.1 U	1.3 U	1.4 U
Diesel	mg/kg	10000	10 U	10 U	10 U	180	12 U	12 U	6 J	8 J	10 UJ	10 UJ	11 UJ	10 U	30 J	10 J	11 U	11 U	21
Motor Oil	mg/kg	50000	1 J	10 U	10 U	480	12 U	12 U	37	42 J	10 U	10 U	13	10 UJ	130 J	65 J	11 UJ	11 UJ	210
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	280 UJ	140 UJ	120 UJ	130 UJ	120 UJ	130 UJ	170 UJ	100 U	150 U	190 U	100 U	150 U	130 U	120 U	130 U	130 U	11 J
Benzene	µg/kg	3700	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Bromodichloromethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Bromoform	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Bromomethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
2-Butanone (MEK)	µg/kg	27000000	280 U	140 U	120 U	130 U	120 U	130 U	170 U	100 U	5 J	190 U	100 U	5 J	130 U	120 U	130 U	5 J	140 U
Carbon disulfide	µg/kg	120000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Carbon tetrachloride	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Chlorobenzene	µg/kg	180000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Dibromochloromethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Chloroethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
2-Chloroethyl vinyl ether	µg/kg	NE	140 U	71 U	59 U	66 U	62 U	67 U	85 U	50 U	77 U	95 U	50 U	77 U	66 U	61 U	64 U	64 U	72 U
Chloroform	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Chloromethane	µg/kg	180000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

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U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-054	0032-055	0032-056	0032-057	0032-058	0032-059	0032-060	0032-114	0032-115	0032-116	0032-117	0032-118	0032-119	0032-120	0032-121	0032-122	0032-165
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/22/00
LOCATION			F12 (DUP)	F15 Sidewall	G12	E11	D11	F11	G11	C15	C15 Sidewall	C15 Sidewall (DUP)	C14	B15 Sidewall	B14 Sidewall	B13 Sidewall	B12 Sidewall	B11 Sidewall	G10
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,2-Dichloroethane	µg/kg	8500	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,1-Dichloroethene	µg/kg	360	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
cis-1,2-Dichloroethene	µg/kg	120000	14 U	7.1 U	5.9 U	37	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
trans-1,2-Dichloroethene	µg/kg	210000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,2-Dichloropropane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
cis-1,3-Dichloropropene	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
trans-1,3-Dichloropropene	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Ethylbenzene	µg/kg	5700000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
2-Hexanone	µg/kg	NE	140 U	71 U	59 U	66 U	62 U	67 U	85 U	50 U	77 U	95 U	50 U	77 U	66 U	61 U	64 U	64 U	72 U
Methylene chloride	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	3 J	7.7 U	6 J	4 J	5 J	5 J	4 J	5 J	4 J	7.2 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	140 U	71 U	59 U	66 U	62 U	67 U	85 U	50 U	1 J	1 J	50 U	77 U	66 U	61 U	64 U	64 U	72 U
Methyl tert-butyl ether	µg/kg	NE	28 U	14 U	12 U	13 U	12 U	13 U	17 U	10 U	15 U	19 U	10 U	15 U	13 U	12 U	13 U	13 U	14 U
Styrene	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Tetrachloroethene	µg/kg	7400	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Toluene	µg/kg	2000000	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,1,1-Trichloroethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,1,2-Trichloroethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	4 J
Trichloroethene	µg/kg	7200	14 U	7.1 U	5.9 U	24	3 J	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Vinyl acetate	µg/kg	NE	140 U	71 U	59 U	66 U	62 U	67 U	85 U	50 U	77 U	95 U	50 U	77 U	66 U	61 U	64 U	64 U	72 U
Vinyl chloride	µg/kg	13	14 U	7.1 U	5.9 U	6.6 U	6.2 U	6.7 U	8.5 U	5.0 U	7.7 U	9.5 U	5.0 U	7.7 U	6.6 U	6.1 U	6.4 U	6.4 U	7.2 U
Xylenes (Total)	µg/kg	4500000	41 U	21 U	18 U	20 U	19 U	20 U	25 U	0.9 J	23 U	28 U	15 U	23 U	20 U	18 U	19 U	19 U	22 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Acenapthylene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Anthracene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Benzoic acid	µg/kg	NE	1800 U	1800 U	1800 U	3700 U	2000 U	2000 U	1800 U	1900 U	1700 U	1700 U	1900 U	1800 U	7400 U	1900 U	1800 U	1900 U	1900 U
Benzo(a)anthracene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 UJ
Benzo(a)pyrene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Benzo(b)fluoranthene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	59 J
Benzo(g,h,I)perylene	µg/kg	NE	340 UJ	340 UJ	350 UJ	730 U	380 UJ	380 UJ	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	61 J
Benzo(k)fluoranthene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Bis(2-chloroethoxy) methane	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Bis(2-chloroethyl) ether	µg/kg	NE	340 UJ	340 UJ	350 UJ	730 UJ	380 UJ	380 UJ	350 UJ	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Bis(2-chloroisopropyl) ether	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 UJ	340 UJ	330 UJ	360 UJ	340 UJ	1400 UJ	360 UJ	350 UJ	370 UJ	370 U
Bis(2-ethyhexyl) phthalate	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
4-Bromophenyl phenyl ether	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Butyl benzyl phthalate	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U

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CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-054	0032-055	0032-056	0032-057	0032-058	0032-059	0032-060	0032-114	0032-115	0032-116	0032-117	0032-118	0032-119	0032-120	0032-121	0032-122	0032-165
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/22/00
LOCATION			F12 (DUP)	F15 Sidewall	G12	E11	D11	F11	G11	C15	C15 Sidewall	C15 Sidewall (DUP)	C14	B15 Sidewall	B14 Sidewall	B13 Sidewall	B12 Sidewall	B11 Sidewall	G10
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
4-Chloroaniline	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 UJ	340 UJ	330 UJ	360 UJ	340 UJ	1400 UJ	360 UJ	350 UJ	370 UJ	370 U
2-Chloronaphthalene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2-Chlorophenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
4-Chlorophenyl phenyl ether	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Chrysene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	40 J
Di-n-butyl phthalate	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	588 J
Di-n-octyl phthalate	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Dibenz(a,h)anthracene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 UJ
Dibenzofuran	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
1,2-Dichlorobenzene	µg/kg	3300000	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
1,3 Dichlorobenzene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
1,4 Dichlorobenzene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
3,3'-Dichlorobenzidine	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2,4-Dichlorophenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Diethyl phthalate	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Dimethyl phthalate	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2,4-Dimethylphenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
4,6-Dinitro-2-methylphenol	µg/kg	NE	1600 U	1700 U	1700 U	3500 U	1800 U	1900 U	1700 U	1700 U	1600 U	1600 U	1800 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
2,4-Dinitrophenol	µg/kg	NE	1600 UJ	1700 UJ	1700 UJ	3500 U	1800 UJ	1900 UJ	1700 U	1700 U	1600 U	1600 U	1800 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
2,4-Dinitrotoluene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2,6-Dinitrotoluene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Fluoranthene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	46 J
Fluorene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Hexachlorobenzene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Hexachlorobutadiene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Hexachlorocyclopentadiene	µg/kg	NE	340 UJ	340 UJ	350 UJ	730 UJ	380 UJ	380 UJ	350 UJ	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 UJ
Hexachloroethane	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Indeno(1,2,3-cd)pyrene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	41 J
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	340 U	340 U	57 J	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2-Methylphenol (o-cresol)	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2-Methylnapthalene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Napthalene	µg/kg	NE	340 U	25 J	340 J	730 U	130 J	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2-Nitroaniline	µg/kg	NE	1600 U	1700 U	1700 U	3500 U	1800 U	1900 U	1700 U	1700 U	1600 U	1600 U	1800 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
3-Nitroaniline	µg/kg	NE	1600 U	1700 U	1700 U	3500 U	1800 U	1900 U	1700 U	1700 U	1600 U	1600 U	1800 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
4-Nitroaniline	µg/kg	NE	1600 UJ	1700 UJ	1700 UJ	3500 U	1800 UJ	1900 UJ	1700 U	1700 U	1600 U	1600 U	1800 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
Nitrobenzene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2-Nitrophenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
4-Nitrophenol	µg/kg	NE	1600 UJ	1700 UJ	1700 UJ	3500 U	1800 UJ	1900 UJ	1700 U	1700 U	1600 U	1600 U	1800 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
N-nitroso-di-n-propylamine	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
N-nitrosodiphenylamine	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-054	0032-055	0032-056	0032-057	0032-058	0032-059	0032-060	0032-114	0032-115	0032-116	0032-117	0032-118	0032-119	0032-120	0032-121	0032-122	0032-165
SAMPLE DATE			11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/20/00	11/22/00
LOCATION			F12 (DUP)	F15 Sidewall	G12	E11	D11	F11	G11	C15	C15 Sidewall	C15 Sidewall (DUP)	C14	B15 Sidewall	B14 Sidewall	B13 Sidewall	B12 Sidewall	B11 Sidewall	G10
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Phenanthrene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Phenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Pyrene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
1,2,4-Trichlorobenzene	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
2,4,5-Trichlorophenol	µg/kg	NE	1600 U	1700 U	1700 U	3500 U	1800 U	1900 U	1700 U	1700 U	1600 U	1600 U	1700 U	1700 U	7000 U	1700 U	1700 U	1800 U	1800 U
2,4,6-Trichlorophenol	µg/kg	NE	340 U	340 U	350 U	730 U	380 U	380 U	350 U	360 U	340 U	330 U	360 U	340 U	1400 U	360 U	350 U	370 U	370 U
Pesticides/PCBs																			
Aldrin	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Beta-BHC	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Alpha-BHC	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Delta-BHC	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Gamma-BHC (Lindane)	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	0.5 J	1.1 U	1.1 U	1.1 U	2.2 U
alpha-chlordane	µg/kg	NE	52 U	52 U	52 U	55 U	58 U	58 U	53 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	0.8 J	1.1 U	1.1 U	1.1 U	2.2 U
gamma-chlordane	µg/kg	NE	52 U	52 U	52 U	55 U	58 U	58 U	53 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	0.8 J	1.1 U	1.1 U	1.1 U	2.2 U
4,4'-DDD	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	8.7	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2 J	2.2 U	2.1 U	2.3 U	27
4,4'-DDE	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	0.4 J	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	1 J	2.2 U	2.1 U	2.3 U	1 J
4,4'-DDT	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	20	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.3 U	94
Dieldrin	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.3 U	4.5 U
Endosulfan I	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Endosulfan II	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.3 U	4.5 U
Endosulfan sulfate	µg/kg	NE	5.2 U	5.2 U	5.2 U	5.5 U	5.8 U	5.8 U	5.3 U	5.4 U	5.1 U	5.1 U	5.5 U	5.1 U	5.5 U	5.4 U	5.3 U	5.6 U	11 U
Endrin	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.3 U	4.5 U
Endrin aldehyde	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.3 U	4.5 U
Endrin ketone	µg/kg	NE	2.1 U	2.1 U	2.1 U	2.2 U	2.3 U	2.3 U	2.1 U	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	2.2 U	2.2 U	2.1 U	2.3 U	4.5 U
Heptachlor	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Hepatchlor epoxide	µg/kg	NE	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U
Methoxychlor	µg/kg	NE	10 U	10 U	10 U	11 U	12 U	12 U	11 U	11 U	10 U	10 U	11 U	10 U	11 U	11 U	11 U	11 U	22 U
Toxaphene	µg/kg	NE	100 U	100 U	100 U	110 U	120 U	120 U	110 U	110 U	100 U	100 U	110 U	100 U	110 U	110 U	110 U	110 U	220 U
Aroclor-1016	µg/kg	NE	52 U	52 U	52 U	55 U	58 U	58 U	53 U	54 U	51 U	51 U	55 U	52 U	54 U	54 U	53 U	56 U	56 U
Aroclor-1221	µg/kg	NE	100 U	100 U	100 U	110 U	120 U	120 U	110 U	110 U	100 U	100 U	110 U	100 U	110 U	110 U	110 U	110 U	110 U
Aroclor-1232	µg/kg	NE	52 U	52 U	52 U	55 U	58 U	58 U	53 U	54 U	51 U	51 U	55 U	52 U	54 U	54 U	53 U	56 U	56 U
Aroclor-1242	µg/kg	NE	52 U	52 U	52 U	55 U	58 U	58 U	53 U	54 U	51 U	51 U	55 U	52 U	54 U	54 U	53 U	56 U	56 U
Aroclor-1248	µg/kg	NE	52 U	52 U	52 U	55 U	58 U	58 U	53 U	54 U	51 U	51 U	55 U	52 U	54 U	54 U	53 U	56 U	56 U
Aroclor-1254	µg/kg	NE	26 U	26 U	26 U	27 U	29 U	29 U	26 U	27 U	25 U	25 U	27 U	26 U	27 U	27 U	26 U	28 U	28 U
Aroclor-1260	µg/kg	NE	26 U	26 U	26 U	220 J	29 U	29 U	14 J	39	25 U	25 U	27 U	26 U	27 U	27 U	26 U	28 U	28 U

Blue shading result is above RAO

J estimated value
na not analyzed
NE not established
U not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-166	0032-167	0032-168	0032-169	0032-170	0032-171	0032-172	0032-173	0032-177	0032-178	0032-179	0032-180	0032-181	0032-182	0032-183	0032-184	0032-185
SAMPLE DATE			11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			G10 (DUP)	F10	E10	B14	B13	B12	C13	C12	B15	B15 West Sidewall	G15 West Sidewall	G14 South Sidewall	G13 Sidewall	H12 Sidewall	H11 Sidewall	H10 Sidewall	H11
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.5 U	5.5 U	5.5 U	6.2 U	6.6 U	6.0 U	5.3 U	5.3 U	5.2 U	5.1 U	5.1 U	19.7	16.3	11.6	8.5	5.3 U	3.1 J
Arsenic	mg/kg	3.9	2.8	2.6	20.8	4.3	7.1	4.6	2.9	3.1	2.9 J	2.2 J	3.1 J	3.8 J	4.9 J	4.2 J	4.1 J	2.9 J	3.4 J
Barium	mg/kg	NE	79.8	68.4	79.4	89.9	161	111	54.2	73.2	53.5	62	63.2	100	103	101	67.3	52.9	72.4
Beryllium	mg/kg	0.68	0.22 U	0.22 U	0.22 U	0.25 U	0.27 U	0.24 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.23 U	0.22 U	0.22 U	0.22 U	0.21 U	0.21 U
Cadmium	mg/kg	42	0.22 U	0.22 U	0.22 U	0.25 U	0.27 U	0.24 U	0.21 U	1.2	0.21 U	0.017 J	0.027 J	0.35	0.6	0.87	1.3	0.21 U	0.11 J
Chromium	mg/kg	NE	14.2	21.6	609	16.8	23.6	18.2	10.2	11.9	8.4	8.9	11.9	29	42.5	36.5	70.8	10.6	14.9
Cobalt	mg/kg	3400	9.2	8.2	9.3	9.3	15.8	11.4	6.5	7.1	6.1	6.8	6.5	8.3	8.3	8.6	9.1	5.8	7.6
Copper	mg/kg	NE	53.4	121	11.1	43	19.2	30.2	8.5	7.9	6	9.9	50	289	574	845	1960	34.7	76.9
Lead	mg/kg	620	7.2	56.2	1.8	10.6	3	15.2	2.3	3.6	1.8 J	1.9	13	114	183	300	277	9.6	19.2
Mercury	mg/kg	NE	0.19 J	0.97	0.091 J	0.32	0.27 U	0.64	0.054 J	0.040 J	0.21 U	0.039 J	0.27	1.2	3.4	1.7	8	1.4	0.39
Molybdenum	mg/kg	NE	0.22 U	0.22 U	0.22 U	0.25 U	0.27 U	0.24 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.23 U	0.22 U	0.22 U	0.22 U	0.21 U	0.21 U
Nickel	mg/kg	NE	10.5	13.8	10	11.6	19.2	14.3	7.3	12.8	7.5	8.1	8.7	15.5	20.1	19.9	15.9	7	10.4
Selenium	mg/kg	NE	0.55 U	0.55 U	0.55 U	0.62 U	0.66 U	0.60 U	0.53 U	0.53 U	0.52 U	0.51 U	0.51 U	0.58 U	0.54 U	0.54 U	0.55 U	0.53 U	0.53 U
Silver	mg/kg	NE	0.55 U	0.55 U	0.55 U	0.62 U	0.66 U	0.60 U	0.53 U	0.53 U	0.52 U	0.51 U	0.51 U	0.58 U	0.065 J	0.16 J	0.3 J	0.53 U	0.53 U
Thallium	mg/kg	3.9	0.55 U	0.55 U	0.55 U	0.62 U	0.66 U	0.60 U	0.53 U	0.53 U	0.52 U	0.51 U	0.51 U	0.58 U	0.54 U	0.54 U	0.55 U	0.53 U	0.53 U
Vanadium	mg/kg	NE	31.2	33.5	29.7	35.3	49.6	36.9	26.9	27.2	19.4	21.7	27.6	33.2	33.2	35.2	29.4	27	30.2
Zinc	mg/kg	NE	88.4	159	35.7	59.7	65.3	63.3	29.9	274	26.6	30.1	63.9	249	436	532	1240	36.2	93.3
Cyanide	mg/kg	1100	2.8 U	2.7 U	2.8 U	3.1 U	3.3 U	3.0 U	2.7 U	2.7 U	2.6 U	2.5 U	2.6 U	2.9 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1.3 U	1.1 U	1.4 U	1.3 U	1.7 U	390 J	0.7 J	0.1 J	1.1 U	0.90 U	1.1 U	1.4 U	0.09 J	0.02 J	0.1 J	0.02 J	0.02 J
Diesel	mg/kg	10000	11 U	73	23	4 J	7 J	870	4 J	11 U	10 U	10 U	3 J	10 J	62	41 J	180	28 J	37
Motor Oil	mg/kg	50000	5 J	210	71	15	13 U	430	7 J	11 U	10 U	10 U	15	87	280	330	790	310	100
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	9 J	100 U	110 U	130 U	130 U	41 J	130 U	7 J	110 U	100 U	1110 U	110 U	120 U	110 U	23 J	15 J	14 J
Benzene	µg/kg	3700	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Bromodichloromethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Bromoform	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Bromomethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
2-Butanone (MEK)	µg/kg	27000000	130 UJ	100 U	110 U	130 U	130 U	170 U	130 U	110 U	110 U	100 U	110 U	110 U	120 U	110 U	110 U	99 U	100 U
Carbon disulfide	µg/kg	120000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8 J	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Carbon tetrachloride	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Chlorobenzene	µg/kg	180000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Dibromochloromethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Chloroethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
2-Chloroethyl vinyl ether	µg/kg	NE	67 U	52 U	55 U	66 U	64 U	84 U	63 U	55 U	53 U	52 U	53 U	57 U	58 U	53 U	54 U	49 U	51 U
Chloroform	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Chloromethane	µg/kg	180000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-166	0032-167	0032-168	0032-169	0032-170	0032-171	0032-172	0032-173	0032-177	0032-178	0032-179	0032-180	0032-181	0032-182	0032-183	0032-184	0032-185
SAMPLE DATE			11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			G10 (DUP)	F10	E10	B14	B13	B12	C13	C12	B15	B15 West Sidewall	G15 West Sidewall	G14 South Sidewall	G13 Sidewall	H12 Sidewall	H11 Sidewall	H10 Sidewall	H11
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,2-Dichloroethane	µg/kg	8500	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,1-Dichloroethene	µg/kg	360	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
cis-1,2-Dichloroethene	µg/kg	120000	6.7 U	5 J	15	6.6 U	6.4 U	86	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
trans-1,2-Dichloroethene	µg/kg	210000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,2-Dichloropropane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
cis-1,3-Dichloropropene	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
trans-1,3-Dichloropropene	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Ethylbenzene	µg/kg	5700000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	99	6.3 U	5.5 U	5.3 U	5.2 U	53 U	57 U	58 U	53 U	54 U	59 U	51 U
2-Hexanone	µg/kg	NE	67 U	5.2 U	55 U	66 U	64 U	3 J	2 J	55 U	53 U	52 U	5.3 U	4 J	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Methylene chloride	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	1 J	5.5 U	5.3 U	5.2 U	0.9 J	57 U	58 U	53 U	54 U	49 U	51 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	67 U	52 U	55 U	66 U	64 U	84 U	1 J	55 U	2 J	4 J	11 U	11 U	12 U	11 U	11 U	9.9 U	10 U
Methyl tert-butyl ether	µg/kg	NE	13 U	10 U	11 U	13 U	13 U	17 U	13 U	11 U	11 U	10 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Styrene	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Tetrachloroethene	µg/kg	7400	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Toluene	µg/kg	2000000	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	9	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,1,1-Trichloroethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,1,2-Trichloroethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	2 J	12	1 J	80	4.9 U	5.1 U
Trichloroethene	µg/kg	7200	6.7 U	20	100	6.6 U	6.4 U	1 J	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	53 U	57 U	58 U	53 U	54 U	49 U	51 U
Vinyl acetate	µg/kg	NE	67 U	52 U	55 U	66 U	64 U	28 J	63 U	55 U	53 U	52 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Vinyl chloride	µg/kg	13	6.7 U	5.2 U	5.5 U	6.6 U	6.4 U	8.4 U	6.3 U	5.5 U	5.3 U	5.2 U	5.3 U	5.7 U	5.8 U	5.3 U	5.4 U	4.9 U	5.1 U
Xylenes (Total)	µg/kg	4500000	20 U	16 U	16 U	20 U	19 U	460	19 U	16 U	16 U	16 U	16 U	17 U	17 U	16 U	16 U	15 U	15 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	100 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	68 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	1900 U	3700 U	1900 U	4200 U	2300 U	2000 U	1800 U	1800 U	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	360 U	720 UJ	370 UJ	820 UJ	440 UJ	150 J	350 UJ	350 UJ	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	97 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	360 U	100 J	370 U	820 U	440 U	130 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	NE	360 UJ	720 UJ	370 UJ	820 UJ	440 UJ	44 J	350 UJ	350 UJ	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	65 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na

J: estimated value
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Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-166	0032-167	0032-168	0032-169	0032-170	0032-171	0032-172	0032-173	0032-177	0032-178	0032-179	0032-180	0032-181	0032-182	0032-183	0032-184	0032-185
SAMPLE DATE			11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			G10 (DUP)	F10	E10	B14	B13	B12	C13	C12	B15	B15 West Sidewall	G15 West Sidewall	G14 South Sidewall	G13 Sidewall	H12 Sidewall	H11 Sidewall	H10 Sidewall	H11
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	360 U	110 J	370 U	820 U	440 U	150 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	360 U	490 J	637 J	610 J	774 J	562 J	320 J	370 J	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	360 U	720 UJ	370 UJ	820 UJ	440 UJ	390 UJ	350 UJ	350 UJ	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	44 J	350 U	350 U	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	1800 U	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	1800 UJ	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	360 U	71 J	370 U	820 U	440 U	350 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	110 J	350 U	350 U	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	360 UJ	720 UJ	370 UJ	820 UJ	440 UJ	390 UJ	350 UJ	350 UJ	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	360 UJ	720 UJ	370 UJ	820 UJ	440 UJ	390 UJ	350 UJ	350 UJ	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	370 J	350 U	350 U	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	1300	350 U	350 U	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	1800 U	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	1800 U	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	1800 U	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	1800 U	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na

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TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-166	0032-167	0032-168	0032-169	0032-170	0032-171	0032-172	0032-173	0032-177	0032-178	0032-179	0032-180	0032-181	0032-182	0032-183	0032-184	0032-185
SAMPLE DATE			11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			G10 (DUP)	F10	E10	B14	B13	B12	C13	C12	B15	B15 West Sidewall	G15 West Sidewall	G14 South Sidewall	G13 Sidewall	H12 Sidewall	H11 Sidewall	H10 Sidewall	H11
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	492	350 U	350 U	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	360 U	88 J	370 U	820 U	440 U	350 J	350 U	350 U	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	1800 U	3500 U	1800 U	4000 U	2100 U	1900 U	1700 U	1700 U	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	360 U	720 U	370 U	820 U	440 U	390 U	350 U	350 U	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	1.1 U	110 U	2.4	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	1.1 U	110 U	8.8	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	2 J	220 U	2 J	2.5 U	2.7 U	4	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	2.2 U	63 J	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	3	3700	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	2.2 U	220 U	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	2.2 U	220 U	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	5.5 U	550 U	5.5 U	6.2 U	6.6 U	6.0 U	5.3 U	5.3 U	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	2.2 U	220 U	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	2.2 U	220 U	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	2.2 U	220 U	2.2 U	2.5 U	2.7 U	2.4 U	2.1 U	2.1 U	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	1.1 U	110 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	11 U	1100 U	11 U	12 U	13 U	12 U	11 U	11 U	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	110 U	11000 U	110 U	120 U	130 U	120 U	110 U	110 U	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	55 U	1400 U	55 U	62 U	66 U	60 U	53 U	53 U	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	110 U	2700 U	110 U	120 U	130 U	120 U	110 U	110 U	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	55 U	1400 U	55 U	62 U	66 U	60 U	53 U	53 U	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	55 U	1400 U	55 U	62 U	66 U	60 U	53 U	53 U	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	55 U	1400 U	55 U	62 U	66 U	60 U	53 U	53 U	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	28 U	680 U	28 U	31 U	33 U	30 U	27 U	27 U	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	28 U	13000	120	31 U	33 U	85	27 U	17 J	na	na	na	na	na	na	na	na	na

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-186	0032-187	0032-188	0032-189	0032-190	0032-191	0032-192	0032-193	0032-194	0032-195	0032-196	0032-197	0032-198	0032-199	0032-200	0032-201	0032-202
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H10	H10	B11	C11	B10 Sidewall	B10	C10	D10	B9 Sidewall	C9	B9	D9	D9 (DUP)	H9 Sidewall	E9	F9	G9
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.3 U	5.4 U	5.4 U	5.7 U	5.2 U	5.4 U	5.0 J	2.9 J	5.2 U	6.0 U	5.4 U	5.8 U	5.4 U	1020	5.6 U	6.1 U	2.9 J
Arsenic	mg/kg	3.9	2.7 J	3.1 J	2.7 J	2.6 J	3.6 J	2.5 J	17.3 J	33.3	3.3	3.6	2.1 J	3.1	3.6	9.4	3	3.6	3.9
Barium	mg/kg	NE	54.2	57.5	66.6	73.5	51.2	59.9	63.3	82.8	59.5	72.1	71.4	77.4	69.2	76.6	51.3	71.7	67
Beryllium	mg/kg	0.68	0.21 U	0.22 U	0.22 U	0.23 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.25 U	0.21 U
Cadmium	mg/kg	42	0.21 U	0.22 U	0.071 J	0.23 U	0.21 U	0.21 U	0.22 U	0.070 J	0.21 U	0.24 U	0.22 U	0.23 U	0.016 J	1.3	0.028 J	0.25 U	0.3
Chromium	mg/kg	NE	10.3	12	13.6	11.9	10.3	11	11.5	16	11.6	12.1	11.1	13.7	12.7	78.4	9.4	11.7	25.3
Cobalt	mg/kg	3400	5.7	6.1	7.6	7.9	6.4	7.1	7.8	9	7.1	7.2	7.8	8.1	7.7	9.4	5.4	7.2	7.4
Copper	mg/kg	NE	10.1	9.3	39.8	7.8	7.3	7.7	8.5	64.1	8.4	7.1	7.2	14.5	15.5	1530	30.6	9.3	481
Lead	mg/kg	620	2.3	2.3	10.2	2.1	2.2	2.3	2.3	21.2	2.3	2.3	1.8 J	2.3	1.9	407	6	2.4	94.1
Mercury	mg/kg	NE	0.063 J	0.22 U	0.041 J	0.039 J	0.21 U	0.037 J	0.070 J	0.18 J	0.039 J	0.24 U	0.047 J	0.33	0.3	7.6	0.85	0.058 J	2.1
Molybdenum	mg/kg	NE	0.21 U	0.22 U	0.22 U	0.23 U	0.21 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U	0.22 U	0.23 U	0.22 U	0.35 J	0.22 U	0.25 U	0.22 J
Nickel	mg/kg	NE	7.2	7.5	9.6	9.6	7.6	8.2	9.1	11.6	8.4	8.7	8.9	9.4	8.7	20.4	6.7	9.4	11
Selenium	mg/kg	NE	0.53 U	0.54 U	0.54 U	0.57 U	0.52 U	0.54 U	0.54 U	0.53 U	0.52 U	0.60 U	0.54 U	0.58 U	0.54 U	0.54 U	0.56 U	0.61 U	0.52 U
Silver	mg/kg	NE	0.53 U	0.54 U	0.54 U	0.57 U	0.52 U	0.54 U	0.54 U	0.53 U	0.52 U	0.60 U	0.54 U	0.58 U	0.54 U	0.32 J	0.56 U	0.61 U	0.52 U
Thallium	mg/kg	3.9	0.53 U	0.54 U	0.54 U	0.57 U	0.52 U	0.54 U	0.54 U	0.53 U	0.52 U	0.60 U	0.54 UJ	0.58 U	0.54 U	0.54 U	0.56 U	0.61 U	0.52 U
Vanadium	mg/kg	NE	24.2	30.1	30	27.6	28	27.2	32.8	33	30.8	29	26.1	28.8	25.9	29.8	21.6	25	28.8
Zinc	mg/kg	NE	30.6	27.8	56.6	33.5	28.1	30.3	32.9	110	31	31.5	32.9	34.8	31.9	1080	38	33.8	312
Cyanide	mg/kg	1100	2.6 U	2.7 U	2.7 U	2.8 U	2.6 U	2.7 U	2.7 U	2.6 U	2.6 U	3.0 U	2.7 U	2.9 U	2.7 U	2.7 U	2.8 U	3.1 U	2.6 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	0.02 J	0.02 J	0.02 J	0.02 J	0.02 J	0.02 J	0.02 J	0.04 J	0.02 J	0.03 J	0.02 J	0.02 J	0.04 J	0.1 J	2.0 U	0.03 J	1.1 U
Diesel	mg/kg	10000	11 U	11 U	94	11 U	10 U	11 U	38	130	10 U	12 U	11 U	9 J	15	270	3 J	12 U	9 J
Motor Oil	mg/kg	50000	4 J	11 U	95	11 U	10 U	4 J	210	386	2 J	12 U	11 U	28	47	1100	14	3 J	52
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	21 J	21 J	20 J	20 J	17 J	20 J	17 J	19 J	16 J	21 J	20 J	14 J	100 UJ	110 UJ	120 UJ	130 UJ	97 UJ
Benzene	µg/kg	3700	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Bromodichloromethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Bromoform	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Bromomethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
2-Butanone (MEK)	µg/kg	27000000	110 U	110 U	110 U	110 U	97 U	100 U	110 U	110 U	110 U	130 U	110 U	110 U	100 U	110 U	120 U	130 U	97 U
Carbon disulfide	µg/kg	120000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Carbon tetrachloride	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Chlorobenzene	µg/kg	180000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Dibromochloromethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Chloroethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
2-Chloroethyl vinyl ether	µg/kg	NE	54 U	55 U	56 U	55 U	49 U	51 U	55 U	55 U	53 U	63 U	53 U	55 U	52 U	53 U	58 U	66 U	49 U
Chloroform	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Chloromethane	µg/kg	180000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
1,2-Dichlorobenzene	µg/kg	3300000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-186	0032-187	0032-188	0032-189	0032-190	0032-191	0032-192	0032-193	0032-194	0032-195	0032-196	0032-197	0032-198	0032-199	0032-200	0032-201	0032-202
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H10	H10	B11	C11	B10 Sidewall	B10	C10	D10	B9 Sidewall	C9	B9	D9	D9 (DUP)	H9 Sidewall	E9	F9	G9
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
1,2-Dichloroethane	µg/kg	8500	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
1,1-Dichloroethene	µg/kg	360	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
cis-1,2-Dichloroethene	µg/kg	120000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	240 J	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	1 J	5.8 U	96	4.9 U
trans-1,2-Dichloroethene	µg/kg	210000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	2 J	4.9 U
1,2-Dichloropropane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
cis-1,3-Dichloropropene	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
trans-1,3-Dichloropropene	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Ethylbenzene	µg/kg	5700000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
2-Hexanone	µg/kg	NE	54 U	55 U	56 U	55 U	49 U	51 U	55 U	55 U	53 U	63 U	53 U	55 U	52 U	53 U	58 U	66 U	49 U
Methylene chloride	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	54 U	55 U	56 U	55 U	49 U	51 U	55 U	55 U	53 U	63 U	53 U	55 U	52 U	53 U	58 U	0.5 J	49 U
Methyl tert-butyl ether	µg/kg	NE	11 U	11 U	11 U	11 U	9.7 U	10 U	11 U	11 U	11 U	13 U	11 U	11 U	10 U	11 U	12 U	13 U	9.7 U
Styrene	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Tetrachloroethene	µg/kg	7400	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Toluene	µg/kg	2000000	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
1,1,1-Trichloroethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
1,1,2-Trichloroethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Trichloroethene	µg/kg	7200	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	152	5.3 U	6.3 U	5.3 U	0.8 J	0.7 J	49	4 J	9	2 J
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Vinyl acetate	µg/kg	NE	54 U	55 U	56 U	55 U	49 U	51 U	55 U	55 U	53 U	63 U	53 U	55 U	52 U	53 U	58 U	66 U	49 U
Vinyl chloride	µg/kg	13	5.4 U	5.5 U	5.6 U	5.5 U	4.9 U	5.1 U	5.5 U	5.5 U	5.3 U	6.3 U	5.3 U	5.5 U	5.2 U	5.3 U	5.8 U	6.6 U	4.9 U
Xylenes (Total)	µg/kg	4500000	16 U	16 U	17 U	17 U	15 U	15 U	17 U	17 U	16 U	19 U	16 U	16 U	16 U	16 U	17 U	20 U	15 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-186	0032-187	0032-188	0032-189	0032-190	0032-191	0032-192	0032-193	0032-194	0032-195	0032-196	0032-197	0032-198	0032-199	0032-200	0032-201	0032-202
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H10	H10	B11	C11	B10 Sidewall	B10	C10	D10	B9 Sidewall	C9	B9	D9	D9 (DUP)	H9 Sidewall	E9	F9	G9
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

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Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-186	0032-187	0032-188	0032-189	0032-190	0032-191	0032-192	0032-193	0032-194	0032-195	0032-196	0032-197	0032-198	0032-199	0032-200	0032-201	0032-202
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H10	H10	B11	C11	B10 Sidewall	B10	C10	D10	B9 Sidewall	C9	B9	D9	D9 (DUP)	H9 Sidewall	E9	F9	G9
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

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U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-203	0032-204	0032-209	0032-210	0032-211	0032-212	0032-213	0032-214	0032-215	0032-216	0032-217	0032-218	0032-219	0032-220	0032-221	0032-222	0032-223
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H9	B8 Sidewall	B8	C8	D8	E8	F8	G8	H8	H8 Sidewall	H7 Sidewall	H7	H7 (DUP)	G7	F7	E7	D7
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	4 J	5.2 U	5.9 U	6.4 U	6.0 U	5.7 U	5.3 U	3.1 J	6.7	5.2 U	5.2 U	5.2 U	5.4 U	8.1	5.9 U	5.5 U	5.5 U
Arsenic	mg/kg	3.9	2.6	7.4	2.7	3.8	2.9	2.6	2.1	4.5	3.6	3.5	2.9	6.8	6.7	3.4	2.6	7.4	2.1
Barium	mg/kg	NE	23.2	56.7	69.7	108	83	75.8	75.3	70.5	58.8	77.6	63.7	51.1	75	41.1	74.5	72.6	59.6
Beryllium	mg/kg	0.68	0.21 U	0.21 U	0.24 U	0.26 U	0.24 U	0.23 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 U	0.24 U	0.22 U	0.22 U
Cadmium	mg/kg	42	1.5	0.21 U	0.022 J	0.039 J	0.037 J	0.016 J	0.021 J	0.72	1.3	0.93	0.16 J	0.27	0.23	1.1	0.81	1.1	0.22 U
Chromium	mg/kg	NE	72	11.6	11.3	17.6	14.1	12.2	11.5	37.5	95	36.8	12.4	13.8	21.1	41.3	23.9	68.8	11.5
Cobalt	mg/kg	3400	5	6.5	7.4	11.9	10.1	8.7	8.1	8.2	8	9.2	6.4	5.9	7.8	7.9	8.5	10.1	7.4
Copper	mg/kg	NE	3140	18	6 J	11.2	11.2	8.6	13.1	842	2240	580	61.1	130	269	1220	629	1410	9.2
Lead	mg/kg	620	351	5.7	1.5	2.3	2.2	1.8	2.4	130	318	33.1	20.7	37.1	38	252	53.7	238	1.7
Mercury	mg/kg	NE	13	0.22	0.054 J	0.083 J	0.26	0.058 J	0.093 J	6.3	14.5	10.8	0.26	1.8	0.73	5.8	3.1	0.7	0.051 J
Molybdenum	mg/kg	NE	0.35 J	0.21 U	0.24 U	0.26 U	0.24 U	0.23 U	0.21 U	0.22 J	0.81	0.21 U	0.21 U	0.24 J	0.25 J	0.53 J	0.24 U	0.66	0.22 U
Nickel	mg/kg	NE	9.2	8.1	8.8	14.7	11.5	9.8	8.8	12.2	16.1	15.1	8.5	8.3	11.1	16.3	12.1	25.1	8
Selenium	mg/kg	NE	0.52 U	0.52 U	0.59 U	0.64 U	0.60 U	0.57 U	0.53 U	0.54 U	0.52 U	0.52 U	0.52 U	0.52 U	0.54 U	0.54 U	0.59 U	0.55 U	0.55 U
Silver	mg/kg	NE	0.14 J	0.52 U	0.59 U	0.64 U	0.60 U	0.57 U	0.53 U	0.54 U	0.52 U	0.52 U	0.52 U	0.52 U	0.54 U	0.54 U	0.59 U	0.55 U	0.55 U
Thallium	mg/kg	3.9	0.52 U	0.52 U	0.59 U	0.64 U	0.60 U	0.57 U	0.53 U	0.54 U	0.52 U	0.52 U	0.52 U	0.52 U	0.54 U	0.54 U	0.59 U	0.55 U	0.55 U
Vanadium	mg/kg	NE	13.5	24.3	25.8	38.6	33.3	29.9	30.1	30.5	25.6	29.8	29.1	25	32	22.7	32.9	36.5	29.4
Zinc	mg/kg	NE	1310	42.2	29.2	46.2	41.4	34.2	32.5	438	1070	448	102	137	180	729	652	902	31.1
Cyanide	mg/kg	1100	2.6 U	2.6 U	2.9 U	3.2 U	3.0 U	2.8 U	2.6 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	2.7 U	2.9 U	2.7 U	2.7 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1 J	0.02 J	1.3 U	1.3 U	1.1 U	1.3 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U	1.1 U	1.1 U	1.0 U	1.2 U	1.1 U	1.3 U
Diesel	mg/kg	10000	10 U	10 U	12 U	13 U	58	11 U	830	60	59	17 J	2 J	10 U	20	63	43 J	270	11 U
Motor Oil	mg/kg	50000	3 J	6 J	3 J	2 J	190	11 U	2200	600	660	150	17	17	150	742	270	680	1 J
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	100 UJ	110 UJ	110 UJ	140 UJ	120 UJ	100 UJ	110 UJ	100 UJ	110 UJ	110 UJ	97 UJ	100 UJ	110 U	110 UJ	110 UJ	100 UJ	100 UJ
Benzene	µg/kg	3700	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Bromodichloromethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Bromoform	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Bromomethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 UJ	5.5 U	5.4 U	5.2 U	5.0 U
2-Butanone (MEK)	µg/kg	27000000	100 U	110 U	110 U	140 U	120 U	100 U	110 U	100 U	110 U	110 U	97 U	100 U	110 U	110 U	110 U	100 U	100 U
Carbon disulfide	µg/kg	120000	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Carbon tetrachloride	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Chlorobenzene	µg/kg	180000	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Dibromochloromethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Chloroethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
2-Chloroethyl vinyl ether	µg/kg	NE	51 U	53 U	57 U	68 U	59 U	52 U	57 U	52 U	57 U	55 U	49 U	50 U	53 U	55 U	54 U	52 U	50 U
Chloroform	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Chloromethane	µg/kg	180000	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
1,2-Dichlorobenzene	µg/kg	3300000	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-203	0032-204	0032-209	0032-210	0032-211	0032-212	0032-213	0032-214	0032-215	0032-216	0032-217	0032-218	0032-219	0032-220	0032-221	0032-222	0032-223
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H9	B8 Sidewall	B8	C8	D8	E8	F8	G8	H8	H8 Sidewall	H7 Sidewall	H7	H7 (DUP)	G7	F7	E7	D7
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
1,2-Dichloroethane	µg/kg	8500	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
1,1-Dichloroethene	µg/kg	360	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
cis-1,2-Dichloroethene	µg/kg	120000	0.7 J	5.3 U	5.7 U	6.8 U	5.9 U	36	12	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	2 J	226	0.8 J	5.0 U
trans-1,2-Dichloroethene	µg/kg	210000	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	18	5.2 U	5.0 U
1,2-Dichloropropane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
cis-1,3-Dichloropropene	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
trans-1,3-Dichloropropene	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Ethylbenzene	µg/kg	5700000	4 J	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
2-Hexanone	µg/kg	NE	51 U	53 U	57 U	68 U	59 U	52 U	57 U	52 U	57 U	55 U	49 U	50 U	53 U	55 U	54 U	52 U	50 U
Methylene chloride	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	51 U	53 U	57 U	0.6 J	59 U	0.6 J	57 U	52 U	57 U	55 U	0.6 J	0.5 J	53 U	55 U	0.7 J	52 U	50 U
Methyl tert-butyl ether	µg/kg	NE	10 U	11 U	11 U	14 U	12 U	10 U	11 U	10 U	11 U	11 U	9.7 U	10 U	11 U	11 U	11 U	10 U	10 U
Styrene	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Tetrachloroethene	µg/kg	7400	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Toluene	µg/kg	2000000	0.8 J	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
1,1,1-Trichloroethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
1,1,2-Trichloroethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Trichloroethene	µg/kg	7200	81	5.3 U	5.7 U	6.8 U	3 J	1 J	13	2 J	10	5.5 U	4.9 U	0.5 J	5.3 U	7	12	5	5.0 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	5.4 U	5.2 U	5.0 U
Vinyl acetate	µg/kg	NE	51 U	53 U	57 U	68 U	59 U	52 U	57 U	52 U	57 U	55 U	49 U	50 U	53 U	55 U	54 U	52 U	50 U
Vinyl chloride	µg/kg	13	5.1 U	5.3 U	5.7 U	6.8 U	5.9 U	5.2 U	5.7 U	5.2 U	5.7 U	5.5 U	4.9 U	5.0 U	5.3 U	5.5 U	2 J	5.2 U	5.0 U
Xylenes (Total)	µg/kg	4500000	16	16 U	17 U	20 U	18 U	16 U	17 U	16 U	17 U	16 U	15 U	15 U	16 U	16 U	16 U	16 U	15 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

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U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-203	0032-204	0032-209	0032-210	0032-211	0032-212	0032-213	0032-214	0032-215	0032-216	0032-217	0032-218	0032-219	0032-220	0032-221	0032-222	0032-223
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H9	B8 Sidewall	B8	C8	D8	E8	F8	G8	H8	H8 Sidewall	H7 Sidewall	H7	H7 (DUP)	G7	F7	E7	D7
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

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U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-203	0032-204	0032-209	0032-210	0032-211	0032-212	0032-213	0032-214	0032-215	0032-216	0032-217	0032-218	0032-219	0032-220	0032-221	0032-222	0032-223
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00
LOCATION			H9	B8 Sidewall	B8	C8	D8	E8	F8	G8	H8	H8 Sidewall	H7 Sidewall	H7	H7 (DUP)	G7	F7	E7	D7
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-224	0032-225	0032-226	0032-227	0032-228	0032-229	0032-230	0032-231	0032-232	0032-233	0032-234	0032-235	0032-236	0032-237	0032-238	0032-239	0032-240
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00
LOCATION			C7	B7	A7 Sidewall	B6	C6	D6	E6	F6	G6	H6	H6 Sidewall	H5 Sidewall	H5	G5	F5	E5	E5 (DUP)
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.8 U	5.8 U	5.1 U	5.7 U	5.5 U	2.4 J	4.4 J	5.6 U	5.6 U	5.4 U	5.4 U	5.5 U	5.6 U	5.8 U	1.7 J	6.2 U	6.0 U
Arsenic	mg/kg	3.9	2.5	2.5	4	2.6	2.4	3.7	4.2	4.1	3.2	2.9	4.2	3.3	3.5	3.3	4.2	3.9	3.7
Barium	mg/kg	NE	76.8	69.1	65.2	58.5	70.9	69	72.1 J	116 J	74.9 J	74.2 J	77.4 J	64.7 J	85.4 J	74.1 J	83.2 J	90.3 J	74.5 J
Beryllium	mg/kg	0.68	0.23 U	0.23 U	0.20 U	0.23 U	0.22 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.21 U	0.22 U	0.22 U	0.23 U	0.22 U	0.25 U	0.24 U
Cadmium	mg/kg	42	0.035 J	0.011 J	0.036 J	0.017 J	0.037 J	0.83	1.4	0.063 J	0.017 J	0.020 J	0.52	0.042 J	0.030 J	0.014 J	0.88	0.82	0.94
Chromium	mg/kg	NE	13.1	12.6	12.3	10.3	13.8	47.4	78.6 J	22.7 J	13.5 J	12 J	12.4 J	10.9 J	14.5 J	13.6 J	34 J	55.5 J	70 J
Cobalt	mg/kg	3400	8.8	8.5	7.8	6.7	8.4	8.5	9.9	12.7	9.1	8.6	8	7.2	8.5	8.4	8.8	9.7	8.5
Copper	mg/kg	NE	10.3	8.8	20.3	6.3	27.4	719	2490	48.6	13.4	15.2	34.2	14.5	22.2	8.9	705	1530	1700
Lead	mg/kg	620	5.9	1.7	3.9	1.5	5.8	709	512	4.6	2.2	3.9	9.3	2.1	3.8	2.1	149	206	299
Mercury	mg/kg	NE	0.14 J	0.11 J	0.063 J	0.044 J	0.059 J	2.8	10.2	0.13 J	0.072 J	0.037 J	0.33	0.088 J	0.24	0.043 J	2.5	3.5	4.4
Molybdenum	mg/kg	NE	0.23 U	0.23 U	0.20 U	0.23 U	0.22 U	0.21 U	1.1	0.22 U	0.22 U	0.22 U	0.21 U	0.22 U	0.22 U	0.23 J	0.35 J	0.27 J	0.29 J
Nickel	mg/kg	NE	9.9	9.2	9.1	7.5	9.5	13.6	24.1	14.5	10.6	9.9	10.1	8.2	10.4	9.8	19	15.3	14.9
Selenium	mg/kg	NE	0.58 U	0.58 U	0.51 U	0.57 U	0.55 U	0.52 U	0.52 U	0.56 U	0.56 U	0.54 U	0.54 U	0.55 U	0.56 U	0.58 U	0.55 U	0.62 U	0.60 U
Silver	mg/kg	NE	0.58 U	0.58 U	0.51 U	0.57 U	0.55 U	0.52 U	0.075 J	0.56 U	0.56 U	0.54 U	0.54 U	0.55 U	0.56 U	0.58 U	0.058 J	0.62 U	0.60 U
Thallium	mg/kg	3.9	0.58 U	0.58 U	0.51 U	0.57 U	0.55 U	0.52 U	0.52 U	0.56 U	0.56 U	0.54 U	0.54 U	0.55 U	0.56 U	0.58 U	0.55 U	0.62 U	0.60 U
Vanadium	mg/kg	NE	29.7	32.1	29.1	26	32.7	31	34.2	50.8	32.6	28.3	29.5	25.8	33.5	33.4	38.4	33.1	33.1
Zinc	mg/kg	NE	88.4	34.4	38.3	25.5	47.7	510	998	62.9	42.7	40.2	140	30.5	41.6	34.7	455	723	773
Cyanide	mg/kg	1100	2.9 U	2.9 U	2.6 U	2.9 U	2.7 U	2.6 U	2.8 U	2.8 U	2.7 U	2.7 U	2.7 U	2.7 U	2.8 U	2.9 U	2.7 U	3.1 U	3.0 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1.2 U	1.2 U	0.95 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 UJ	1.3 U	1.2 U	1.2 U	1.6 U	1.1 U	1.2 U	1.1 U
Diesel	mg/kg	10000	20 J	12 U	10 U	11 U	2 J	33 J	63 J	5 J	11 U	11 U	2 J	11 U	11 U	12 U	17 J	66	120
Motor Oil	mg/kg	50000	82	2 J	2 J	11 U	16	220	252 J	38	2 J	11 U	25	11 U	11 U	12 U	190	410	620
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	120 UJ	110 UJ	100 UJ	100 UJ	100 UJ	99 UJ	110 U	110 U	100 U	110 U	100 U	100 U	120 U	110 U	110 U	130 U	110 U
Benzene	µg/kg	3700	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Bromodichloromethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Bromoform	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Bromomethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
2-Butanone (MEK)	µg/kg	27000000	120 U	110 U	100 U	100 U	100 U	99 U	110 U	110 U	100 U	110 U	100 U	100 U	120 U	110 U	110 U	130 U	110 U
Carbon disulfide	µg/kg	120000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Carbon tetrachloride	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Chlorobenzene	µg/kg	180000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Dibromochloromethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	0.8 J	5.7 U
Chloroethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
2-Chloroethyl vinyl ether	µg/kg	NE	60 U	57 U	52 U	52 U	50 U	50 U	53 U	57 U	50 U	57 U	52 U	51 U	60 U	53 U	57 U	63 U	57 U
Chloroform	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	0.7 J	5.7 U
Chloromethane	µg/kg	180000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,2-Dichlorobenzene	µg/kg	3300000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U

J: estimated value
na: not analyzed
NE: not established
U: not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-224	0032-225	0032-226	0032-227	0032-228	0032-229	0032-230	0032-231	0032-232	0032-233	0032-234	0032-235	0032-236	0032-237	0032-238	0032-239	0032-240
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00
LOCATION			C7	B7	A7 Sidewall	B6	C6	D6	E6	F6	G6	H6	H6 Sidewall	H5 Sidewall	H5	G5	F5	E5	E5 (DUP)
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,2-Dichloroethane	µg/kg	8500	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,1-Dichloroethene	µg/kg	360	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	120000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
trans-1,2-Dichloroethene	µg/kg	210000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,2-Dichloropropane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
cis-1,3-Dichloropropene	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
trans-1,3-Dichloropropene	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Ethylbenzene	µg/kg	5700000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
2-Hexanone	µg/kg	NE	60 U	57 U	52 U	52 U	50 U	50 U	53 U	57 U	50 U	57 U	52 U	51 U	60 U	53 U	57 U	63 U	57 U
Methylene chloride	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	60 U	57 U	52 U	2 J	50 U	0.5 J	53 U	57 U	1 J	0.8 J	52 U	0.8 J	2 J	2 J	57 U	63 U	57 U
Methyl tert-butyl ether	µg/kg	NE	12 U	11 U	10 U	10 U	10 U	9.9 U	11 U	11 U	10 U	11 U	10 U	10 U	12 U	11 U	11 U	13 U	11 U
Styrene	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,1,2,2-Tetrachloroethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Tetrachloroethene	µg/kg	7400	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Toluene	µg/kg	2000000	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,1,1-Trichloroethane	µg/kg	NE	1 J	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,1,2-Trichloroethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Trichloroethene	µg/kg	7200	1 J	5.7 U	5.2 U	5.2 U	0.4 J	0.8 J	5	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Vinyl acetate	µg/kg	NE	60 U	57 U	52 U	52 U	50 U	50 U	53 U	57 U	50 U	57 U	52 U	51 U	60 U	53 U	57 U	63 U	57 U
Vinyl chloride	µg/kg	13	6.0 U	5.7 U	5.2 U	5.2 U	5.0 U	5.0 U	5.3 U	5.7 U	5.0 U	5.7 U	5.2 U	5.1 U	6.0 U	5.3 U	5.7 U	6.3 U	5.7 U
Xylenes (Total)	µg/kg	4500000	18 U	17 U	16 U	16 U	15 U	15 U	16 U	17 U	15 U	17 U	16 U	15 U	18 U	16 U	17 U	19 U	11 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-224	0032-225	0032-226	0032-227	0032-228	0032-229	0032-230	0032-231	0032-232	0032-233	0032-234	0032-235	0032-236	0032-237	0032-238	0032-239	0032-240
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00
LOCATION			C7	B7	A7 Sidewall	B6	C6	D6	E6	F6	G6	H6	H6 Sidewall	H5 Sidewall	H5	G5	F5	E5	E5 (DUP)
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

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TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-224	0032-225	0032-226	0032-227	0032-228	0032-229	0032-230	0032-231	0032-232	0032-233	0032-234	0032-235	0032-236	0032-237	0032-238	0032-239	0032-240
SAMPLE DATE			11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/27/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00
LOCATION			C7	B7	A7 Sidewall	B6	C6	D6	E6	F6	G6	H6	H6 Sidewall	H5 Sidewall	H5	G5	F5	E5	E5 (DUP)
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

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U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-241	0032-242	0032-243	0032-244	0032-245	0032-246	0032-247	0032-248	0032-249	0032-315	0032-316	0032-317	0032-318	0032-319	0032-320	0032-321	0032-322
SAMPLE DATE			11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01
LOCATION			D5	C5	C5 (DUP)	E4	F4	F4 (DUP)	G4	D4	H4	A6 Sidewall	A5 Sidewall	A4 Sidewall	A4 Sidewall (DUP)	A3 Sidewall	A2 Sidewall	A1 Sidewall	B1 Sidewall
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.8 U	6.1 U	5.8 U	5.4 U	5.6 U	5.5 U	5.5 U	5.5 U	5.3 U	5.4 U	5.4 U	5.8 U	5.9 U	5.2 U	5.6 U	5.4 U	5.2 U
Arsenic	mg/kg	3.9	2.3	4.1	2.4	3.9	2.4	2.9	3.9	2.3	3.2	4.7	4.6	5.1	5.5	4.8	3.9	5.2	4.8
Barium	mg/kg	NE	77.5 J	69.1 J	76.7 J	67 J	64.7 J	100 J	77.5 J	68.1 J	71.9 J	na	na	na	na	na	na	na	na
Beryllium	mg/kg	0.68	0.23 U	0.24 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U	0.23 U	0.23 U	0.21 U	0.22 U	0.22 U	0.21 U
Cadmium	mg/kg	42	0.23 U	0.021 J	0.022 J	0.026 J	0.018 J	0.22 U	0.25	0.015 J	0.47	0.21 U	0.22 U	0.23 U	0.23 U	0.21 U	0.22 U	0.22 U	0.21 U
Chromium	mg/kg	NE	12.7 J	13.6 J	13.7 J	11.9 J	12.2 J	15.3 J	20.8 J	12.5 J	22.4 J	na	na	na	na	na	na	na	na
Cobalt	mg/kg	3400	9	8.1	7.9	8.2	7.4	10.8	8.8	8.3	8.3	7.6	8.9	8.8	8.2	7.3	6.4	9.2	8.5
Copper	mg/kg	NE	7.7 J	11.6	19.4	18.5	6.9 J	12.9	172	15.7	389	na	na	na	na	na	na	na	na
Lead	mg/kg	620	4.1	2.1	17.5	2.8	1.7	2.2	40.1	2.8	59.1	2.5	5.3	6.2	2.5	2.3	2.1	2.5	7
Mercury	mg/kg	NE	0.072 J	0.24 U	0.040 J	0.36	0.22 U	0.22 U	1.3 J	0.097 J	1.2	na	na	na	na	na	na	na	na
Molybdenum	mg/kg	NE	0.23 U	0.24 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.21 U	na	na	na	na	na	na	na	na
Nickel	mg/kg	NE	9.6	8.9	9.5	9.4	8.8	12.5	11.6	9	10.8	na	na	na	na	na	na	na	na
Selenium	mg/kg	NE	0.58 U	0.61 U	0.58 U	0.54 U	0.56 U	0.55 U	0.55 U	0.55 U	0.53 U	na	na	na	na	na	na	na	na
Silver	mg/kg	NE	0.58 U	0.61 U	0.58 U	0.54 U	0.56 U	0.55 U	0.55 U	0.55 U	0.53 U	na	na	na	na	na	na	na	na
Thallium	mg/kg	3.9	0.58 U	0.61 U	0.58 U	0.54 U	0.56 U	0.55 U	0.55 U	0.55 U	0.53 U	1.1 U	1.1 U	1.2 U	1.2 U	1.0 U	1.1 U	1.1 U	1.0 U
Vanadium	mg/kg	NE	31.6	30.9	31.5	29.7	27.7	33.7	34.6	29.7	31.6	na	na	na	na	na	na	na	na
Zinc	mg/kg	NE	34.5	33.9	40.2	41.1	30.7	46.7	135	41.7	151	na	na	na	na	na	na	na	na
Cyanide	mg/kg	1100	2.9 U	3.1 U	2.9 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.7 U	2.7 U	2.7 U	2.9 U	2.9 U	2.6 U	2.8 U	2.7 U	2.6 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1.2 U	1.4 U	1.1 U	1.3 U	1.2 U	1.2 U	1.4 U	1.2 U	1.1 U	0.06 J	1.6 U	1.5 U	1.5 U	0.83 U	1.4 U	1.9 U	2.0 U
Diesel	mg/kg	10000	16	12 U	12 U	4 J	11 U	11 U	16 J	4 J	28 J	11 U	1 J	1 J	59 U	10 U	11 U	11 U	10 U
Motor Oil	mg/kg	50000	55	7 J	5 J	30	11 U	2 J	87 J	30	320	11 U	9 J	18	89	1 J	3 J	11 U	4 J
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	100 U	120 U	120 U	120 U	120 U	120 U	130 U	110 U	110 U	120 U	150 U	160 U	170 U	140 U	120 U	190 U	150 U
Benzene	µg/kg	3700	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
Bromodichloromethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Bromoform	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Bromomethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
2-Butanone (MEK)	µg/kg	27000000	100 U	120 U	120 U	120 U	120 U	120 U	130 U	110 U	110 U	120 U	150 U	160 U	170 U	140 U	120 U	190 U	150 U
Carbon disulfide	µg/kg	120000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
Carbon tetrachloride	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Chlorobenzene	µg/kg	180000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
Dibromochloromethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Chloroethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
2-Chloroethyl vinyl ether	µg/kg	NE	51 U	61 U	62 U	58 U	61 U	62 U	64 U	53 U	56 U	na	na	na	na	na	na	na	na
Chloroform	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Chloromethane	µg/kg	180000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
1,2-Dichlorobenzene	µg/kg	3300000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-241	0032-242	0032-243	0032-244	0032-245	0032-246	0032-247	0032-248	0032-249	0032-315	0032-316	0032-317	0032-318	0032-319	0032-320	0032-321	0032-322
SAMPLE DATE			11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01
LOCATION			D5	C5	C5 (DUP)	E4	F4	F4 (DUP)	G4	D4	H4	A6 Sidewall	A5 Sidewall	A4 Sidewall	A4 Sidewall (DUP)	A3 Sidewall	A2 Sidewall	A1 Sidewall	B1 Sidewall
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
1,2-Dichloroethane	µg/kg	8500	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
1,1-Dichloroethene	µg/kg	360	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
cis-1,2-Dichloroethene	µg/kg	120000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
trans-1,2-Dichloroethene	µg/kg	210000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
1,2-Dichloropropane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
trans-1,3-Dichloropropene	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Ethylbenzene	µg/kg	5700000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
2-Hexanone	µg/kg	NE	51 U	61 U	62 U	58 U	61 U	62 U	64 U	53 U	56 U	na	na	na	na	na	na	na	na
Methylene chloride	µg/kg	NE	5.7 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	1 J	61 U	62 U	58 U	2 J	1 J	64 U	53 U	1 J	na	na	na	na	na	na	na	na
Methyl tert-butyl ether	µg/kg	NE	10 U	12 U	12 U	12 U	12 U	12 U	13 U	11 U	11 U	na	na	na	na	na	na	na	na
Styrene	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Tetrachloroethene	µg/kg	7400	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
Toluene	µg/kg	2000000	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
1,1,1-Trichloroethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
1,1,2-Trichloroethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Trichloroethene	µg/kg	7200	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	0.7 J	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	na	na	na	na	na	na	na	na
Vinyl acetate	µg/kg	NE	51 U	61 U	62 U	58 U	61 U	62 U	64 U	53 U	56 U	na	na	na	na	na	na	na	na
Vinyl chloride	µg/kg	13	5.1 U	6.1 U	6.2 U	5.8 U	6.1 U	6.2 U	6.4 U	5.3 U	5.6 U	6.2 U	7.7 U	7.8 U	8.7 U	6.8 U	6.2 U	9.5 U	7.7 U
Xylenes (Total)	µg/kg	4500000	15 U	18 U	19 U	17 U	19 U	19 U	19 U	16 U	17 U	19 U	23 U	23 U	26 U	20 U	19 U	28 U	23 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,l)perylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-241	0032-242	0032-243	0032-244	0032-245	0032-246	0032-247	0032-248	0032-249	0032-315	0032-316	0032-317	0032-318	0032-319	0032-320	0032-321	0032-322
SAMPLE DATE			11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01
LOCATION			D5	C5	C5 (DUP)	E4	F4	F4 (DUP)	G4	D4	H4	A6 Sidewall	A5 Sidewall	A4 Sidewall	A4 Sidewall (DUP)	A3 Sidewall	A2 Sidewall	A1 Sidewall	B1 Sidewall
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

J estimated value
na not analyzed
NE not established
U not detected

Blue shading: result is above RAO

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-241	0032-242	0032-243	0032-244	0032-245	0032-246	0032-247	0032-248	0032-249	0032-315	0032-316	0032-317	0032-318	0032-319	0032-320	0032-321	0032-322
SAMPLE DATE			11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	11/28/00	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01	01/10/01
LOCATION			D5	C5	C5 (DUP)	E4	F4	F4 (DUP)	G4	D4	H4	A6 Sidewall	A5 Sidewall	A4 Sidewall	A4 Sidewall (DUP)	A3 Sidewall	A2 Sidewall	A1 Sidewall	B1 Sidewall
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading. result is above RAO

J: estimated value
na. not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-323	0032-324	0032-326	0032-327	0032-328	0032-329	0032-330	0032-331	0032-332	0032-333	0032-334	0032-335	0032-336	0032-337	0032-338	0032-339	0032-340
SAMPLE DATE			01/10/01	01/10/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01
LOCATION			C1 Sidewall	D1 Sidewall	B5	B4	B3	B2	B1	B1 (DUP)	H4 Sidewall	G4	C2	G3	C4	G3 Sidewall	F3	C3	E3
Analyte	**UNITS**	**RAO**																	
TTLC 17 Metals																			
Antimony	mg/kg	23	5.5 U	5.7 U	6.6 U	6.7 U	7.4 U	6.5 U	6.7 U	7.2 U	6.3 U	6.0 U	6.5 U	6.2 U	6.7 U	5.4 U	7.0 U	7.8 U	6.2 U
Arsenic	mg/kg	3.9	7	5.3	4.7	4.4	3.9	5.2	4.8	5.6	5.1	4.9	6.6	3.8	3.2	6.6	4.5	6.3	4.9
Barium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beryllium	mg/kg	0.68	0.22 U	0.23 U	0.26 U	0.27 U	0.30 U	0.26 U	0.27 U	0.28 U	0.25 U	0.24 U	0.26 U	0.25 U	0.27 U	0.21 U	0.28 U	0.31 U	0.25 U
Cadmium	mg/kg	42	0.22 U	0.23 U	0.26 U	0.27 U	0.30 U	0.26 U	0.27 U	0.28 U	0.25 U	0.24 U	0.26 U	0.25 U	0.27 U	0.21 U	0.28 U	0.31 U	0.25 U
Chromium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cobalt	mg/kg	3400	11.8	9.8	7.4	6.5	6.5	9.1	8.3	8.5	7.9	8.9	9.7	8.1	7.4	8.5	8.6	10.6	6.6
Copper	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	mg/kg	620	3.5	3.8	10.1	3.4	4.4	5.2	43.6	37.8	3.1	2.3	3.1	2.4	2.1	2.3	8.3	3	28.7
Mercury	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Molybdenum	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nickel	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Selenium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Silver	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Thallium	mg/kg	3.9	1.1 U	1.1 U	1.3 U	1.3	1.5 U	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.1 U	1.4 U	1.6 U	1.2 U
Vanadium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Zinc	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cyanide	mg/kg	1100	2.8 U	2.9 U	3.3 U	3.4 U	3.7 U	3.2 U	3.3 U	3.6 U	3.1 U	3.0 U	3.3 U	3.1 U	3.4 U	2.7 U	3.5 U	3.9 U	3.1 U
Total Petroleum Hydrocarbons																			
Gasoline	mg/kg	1000	1.9 U	2.0 U	1.6 U	1.9 U	1.9 U	1.5 U	1.8 U	2.5 U	1.4 U	1.2 U	1.9 U	1.2 U	2.3 U	1.0 U	1.3U	2.2 U	1.1 U
Diesel	mg/kg	10000	1 J	11 U	4 J	13 U	15 U	13 U	2 J	2 J	13 U	12 U	13 U	12 U	13 U	11 U	14 U	16 U	18
Motor Oil	mg/kg	50000	2 J	2 J	23	2 J	15 U	13 U	13	15	3 J	12 U	13 U	2 J	13 U	11 U	4 J	16 U	50
Volatile Organic Compounds																			
Acetone	µg/kg	3100000	170 U	190 U	180 UJ	330 UJ	200 UJ	170 UJ	200 UJ	200 UJ	140 UJ	110 UJ	160 UJ	20 J	44 J	100 UJ	238 J	170 UJ	100 UJ
Benzene	µg/kg	3700	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7	8.5 U	5.1 U
Bromodichloromethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bromoform	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bromomethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Butanone (MEK)	µg/kg	27000000	170 U	190 U	180 UJ	330 UJ	200 UJ	170 UJ	200 UJ	200 UJ	140 UJ	110 UJ	160 UJ	120 UJ	230 UJ	100 UJ	140 UJ	170 UJ	100 UJ
Carbon disulfide	µg/kg	120000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
Carbon tetrachloride	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chlorobenzene	µg/kg	180000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
Dibromochloromethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloroethyl vinyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloroform	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloromethane	µg/kg	180000	8.4 U	9.5 UJ	8.8 UJ	17 UJ	9.9 UJ	8.7 UJ	10 UJ	10 UJ	6.9 UJ	5.6 UJ	7.8 UJ	6.2 UJ	12 UJ	5.2 UJ	7.0 UJ	8.5 UJ	5.1 UJ
1,2-Dichlorobenzene	µg/kg	3300000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-323	0032-324	0032-326	0032-327	0032-328	0032-329	0032-330	0032-331	0032-332	0032-333	0032-334	0032-335	0032-336	0032-337	0032-338	0032-339	0032-340
SAMPLE DATE			01/10/01	01/10/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01
LOCATION			C1 Sidewall	D1 Sidewall	B5	B4	B3	B2	B1	B1 (DUP)	H4 Sidewall	G4	C2	G3	C4	G3 Sidewall	F3	C3	E3
Analyte	**UNITS**	**RAO**																	
1,1-Dichloroethane	µg/kg	50000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
1,2-Dichloroethane	µg/kg	8500	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
1,1-Dichloroethene	µg/kg	360	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
cis-1,2-Dichloroethene	µg/kg	120000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	1 J	1 J	4 J	12 U	5.2 U	7.0 U	8.5 U	5.1 U
trans-1,2-Dichloroethene	µg/kg	210000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
1,2-Dichloropropane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-1,3-Dichloropropene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Ethylbenzene	µg/kg	5700000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
2-Hexanone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl tert-butyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tetrachloroethene	µg/kg	7400	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
Toluene	µg/kg	2000000	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
1,1,1-Trichloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Trichloroethene	µg/kg	7200	8.4 U	9.5 U	0.8 J	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	15	7.8 U	37	12 U	2 J	1 J	8.5 U	9
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl acetate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl chloride	µg/kg	13	8.4 U	9.5 U	8.8 U	17 U	9.9 U	8.7 U	10 U	10 U	6.9 U	5.6 U	7.8 U	6.2 U	12 U	5.2 U	7.0 U	8.5 U	5.1 U
Xylenes (Total)	µg/kg	4500000	25 U	29 U	26 U	50 U	30 U	26 U	31 U	30 U	21 U	17 U	23 U	19 U	35 U	16 U	21 U	26 U	15 U
Semivolatile Organic Compounds																			
Acenapthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-323	0032-324	0032-326	0032-327	0032-328	0032-329	0032-330	0032-331	0032-332	0032-333	0032-334	0032-335	0032-336	0032-337	0032-338	0032-339	0032-340
SAMPLE DATE			01/10/01	01/10/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01
LOCATION			C1 Sidewall	D1 Sidewall	B5	B4	B3	B2	B1	B1 (DUP)	H4 Sidewall	G4	C2	G3	C4	G3 Sidewall	F3	C3	E3
Analyte	**UNITS**	**RAO**																	
4-Chloro-3-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
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NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-323	0032-324	0032-326	0032-327	0032-328	0032-329	0032-330	0032-331	0032-332	0032-333	0032-334	0032-335	0032-336	0032-337	0032-338	0032-339	0032-340
SAMPLE DATE			01/10/01	01/10/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01	01/15/01
LOCATION			C1 Sidewall	D1 Sidewall	B5	B4	B3	B2	B1	B1 (DUP)	H4 Sidewall	G4	C2	G3	C4	G3 Sidewall	F3	C3	E3
Analyte	**UNITS**	**RAO**																	
Pentachlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs																			
Aldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-341	0032-342	0032-343	0032-344	0032-347	0032-348	0032-349	0032-352	0032-354	0032-355	0032-358	0032-359
SAMPLE DATE			01/15/01	01/15/01	01/15/01	01/15/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/17/01	01/17/01
LOCATION			E2	D3	D1	D1 (DUP)	D2	C1	E1 Sidewall	F2	E1	E1 (DUP)	F1	F1 Sidewall
Analyte	**UNITS**	**RAO**												
TTLC 17 Metals														
Antimony	mg/kg	23	6.6 U	7.4 U	6.2 U	6.1 U	6.6 U	6.6 U	5.5 U	6.2 U	3.1	6.2 U	5.7 U	5.3 U
Arsenic	mg/kg	3.9	2.5	3.6	4.9	4.8	2.9	5.1	4	2.9	4.5	3.5	4.3	4.2
Barium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Beryllium	mg/kg	0.68	0.26 U	0.29 U	0.25 U	0.25 U	0.26 U	0.26 U	0.22 U	0.25 U	0.25 U	0.25 U	0.23 U	0.21 U
Cadmium	mg/kg	42	0.26 U	0.29 U	0.25 U	0.25 U	0.26 U	0.26 U	0.18 J	0.25 U	0.14 J	0.25 U	0.23 U	0.21 U
Chromium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Cobalt	mg/kg	3400	7.9	7.5	7.4	7.8	8	9.8	7.8	10.5	8	7.7	8.5	8.3
Copper	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Lead	mg/kg	620	3.2	2.7	21	19.5	3.9 J	3.1 J	1.6 UJ	1.7 J	28.4 J	6 J	6.1	2.3
Mercury	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Molybdenum	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Nickel	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Selenium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Silver	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Thallium	mg/kg	3.9	1.3 U	1.5 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U
Vanadium	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Zinc	mg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Cyanide	mg/kg	1100	3.3 U	3.7 U	3.2 U	3.1 U	3.3 U	3.3 U	2.8 U	3.1 U	3.1 U	3.1 U	2.9 U	2.7 U
Total Petroleum Hydrocarbons														
Gasoline	mg/kg	1000	1.3 U	2.4 U	1.1 U	1.1 U	3.1 U	2.0 U	1.2 U	1.1 U	1.5 U	1.3 U	0.7 J	0.8 J
Diesel	mg/kg	10000	13 U	15 U	7 J	7 J	4 J	13 U	11 U	12 U	13 U	12 U	11 U	11 U
Motor Oil	mg/kg	50000	13 U	15 U	33	32	21	13 U	18	12 U	7 J	22	4 J	11 U
Volatile Organic Compounds														
Acetone	µg/kg	3100000	33 J	74 J	43 J	24 J	26 J	250 U	16 J	16 J	26 J	24 J	21 J	24 J
Benzene	µg/kg	3700	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
Bromodichloromethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Bromoform	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Bromomethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Butanone (MEK)	µg/kg	27000000	130 UJ	340 UJ	130 UJ	120 UJ	230 U	250 U	130 U	120 U	120 U	140 U	150 U	140 U
Carbon disulfide	µg/kg	120000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 UJ	7.1 UJ
Carbon tetrachloride	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Chlorobenzene	µg/kg	180000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
Dibromochloromethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Chloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloroethyl vinyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Chloroform	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Chloromethane	µg/kg	180000	6.4 UJ	17 UJ	6.6 UJ	6.0 UJ	11 UJ	12 UJ	6.7 UJ	5.9 UJ	6.0 UJ	6.8 UJ	7.3 UJ	7.1 UJ
1,2-Dichlorobenzene	µg/kg	3300000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-341	0032-342	0032-343	0032-344	0032-347	0032-348	0032-349	0032-352	0032-354	0032-355	0032-358	0032-359
SAMPLE DATE			01/15/01	01/15/01	01/15/01	01/15/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/17/01	01/17/01
LOCATION			E2	D3	D1	D1 (DUP)	D2	C1	E1 Sidewall	F2	E1	E1 (DUP)	F1	F1 Sidewall
Analyte	**UNITS**	**RAO**												
1,1-Dichloroethane	µg/kg	50000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
1,2-Dichloroethane	µg/kg	8500	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
1,1-Dichloroethene	µg/kg	360	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
cis-1,2-Dichloroethene	µg/kg	120000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
trans-1,2-Dichloroethene	µg/kg	210000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
1,2-Dichloropropane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
trans-1,3-Dichloropropene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Ethylbenzene	µg/kg	5700000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
2-Hexanone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4-Methyl-2-pentanone (MIBK)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Methyl tert-butyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Tetrachloroethene	µg/kg	7400	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
Toluene	µg/kg	2000000	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
1,1,1-Trichloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Trichloroethene	µg/kg	7200	2 J	4 J	2 J	2 J	20	3 J	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
1,1,2-Trichloroetrifluoroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl acetate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl chloride	µg/kg	13	6.4 U	17 U	6.6 U	6.0 U	11 U	12 U	6.7 U	5.9 U	6.0 U	6.8 U	7.3 U	7.1 U
Xylenes (Total)	µg/kg	4500000	19 U	51 U	20 U	18 U	34 U	37 U	20 U	18 U	18 U	21 U	22 U	21 U
Semivolatile Organic Compounds														
Acenapthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Acenapthylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,I)perylene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy) methane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroisopropyl) ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-ethyhexyl) phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
na: not analyzed
NE: not established
U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-341	0032-342	0032-343	0032-344	0032-347	0032-348	0032-349	0032-352	0032-354	0032-355	0032-358	0032-359
SAMPLE DATE			01/15/01	01/15/01	01/15/01	01/15/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/17/01	01/17/01
LOCATION			E2	D3	D1	D1 (DUP)	D2	C1	E1 Sidewall	F2	E1	E1 (DUP)	F1	F1 Sidewall
Analyte	**UNITS**	**RAO**												
4-Chloro-3-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg	3300000	na	na	na	na	na	na	na	na	na	na	na	na
1,3 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
1,4 Dichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
3/4-Methylphenol (m/p-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnapthalene	µg/kg	NE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Napthalene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
N-nitroso-di-n-propylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
N-nitrosodiphenylamine	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

J: estimated value
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U: not detected

TABLE 14

CONFIRMATION SAMPLE RESULTS

SAMPLE ID			0032-341	0032-342	0032-343	0032-344	0032-347	0032-348	0032-349	0032-352	0032-354	0032-355	0032-358	0032-359
SAMPLE DATE			01/15/01	01/15/01	01/15/01	01/15/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/16/01	01/17/01	01/17/01
LOCATION			E2	D3	D1	D1 (DUP)	D2	C1	E1 Sidewall	F2	E1	E1 (DUP)	F1	F1 Sidewall
Analyte	**UNITS**	**RAO**												
Pentachlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Pesticides/PCBs														
Aldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Beta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Alpha-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Delta-BHC	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Gamma-BHC (Lindane)	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
alpha-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
gamma-chlordane	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan I	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan II	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Hepatchlor epoxide	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1016	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1221	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1232	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1242	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1248	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1254	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor-1260	µg/kg	NE	na	na	na	na	na	na	na	na	na	na	na	na

Blue shading: result is above RAO

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TABLE 15

FIELD CHANGE

Number	Description	Reason for change	Disposition
1	Change backfill compaction testing frequency from one test every 2,500 ft^2 per lift (12 inch lifts) to one test every 500 cubic yards	This is not a structural fill area. Using natural, clean sand material as fill material that is able to meet compaction requirements without difficulty.	Change backfill compaction testing frequency to once every 500 cubic yards. Minor change.
2	Not used		
3	Work Plan calls for first layer of backfill to be 18 inches of CAB. FWENC recommends using ¾ inch rock for this layer instead of CAB. Geotechnical engineer requested the layer of ¾ inch rock be no greater than 2 feet in depth and one layer of geotextile underneath and one layer above the layer of ¾ inch rock.	The proposed ¾ inch rock has no sediments and therefore has more porosity than the CAB. This is better for the SVE system that will be installed after the backfill is complete. Geotextile is recommended to be placed under and over the layer of the ¾ inch rock layer. The geotextile will help prevent settling of the ¾ inch aggregate.	Place layer of clean ¾ inch rock, no greater than 2 feet in depth, at bottom of the excavation area. Geotextile will be placed under and over this layer.
4	Work Plan calls for excavation to continue under the helicopter pad.	The helicopter pad is a firm structure and should be kept in place, if possible.	Excavation would begin 5 horizontal feet away from the helicopter pad, then slope down at a 1.5:1 slope to the bottom of excavation. When we are completed with this eastern section of the excavation, a geophysical survey will be conducted to verify that all drums have been removed and the sidewalls are clear from any debris. (Minor change)
5	Work Plan calls for compaction to at least 90 percent of its maximum dry density as measured by the modified Proctor method (ASTM D 1557).	An AS/SVE system will be installed at the site after backfilling is complete. The efficiency of AS/SVE system is dependent on soil compaction. The system will operate more efficiently with less compacted soil.	Lower the backfill compaction requirement to non-structural criteria of 85 percent of its maximum dry density as measured by the Modified proctor method (ASTM D 15570. (minor change)

TABLE 15

FIELD CHANGE

Number	Description	Reason for change	Disposition
6	Work Plan calls for radiation surveying to be performed during soil excavation phase. The presence of radioactive material was not anticipated. During the radiation survey suspect material/soil was found and later identified as low level radioactive material (Radium-226 and relevant Progeny). To address the radioactive materials, additional procedures have been generated and are awaiting implementation.	Suspected material/soil was found during the excavation process and later identified as low level radioactive material (Radium-226 and relevant Progeny). The presence of radioactive material was not anticipated. To address the radioactive materials, additional procedures have been generated and are awaiting implementation.	Refer to Long Beach IR Sites 1 and 2 Radioactive Material Characterization and Handling Protocols (Protocols 1 through 5). Major change (impacts cost, schedule or technical).
7	FCR-006 addresses the handling procedures for potentially radioactive materials on site. The roll off bins located on site will be emptied and the contents (debris, soil and miscellaneous material) will undergo a direct radiological survey. Radioactive materials will be segregated and the remaining materials will be shipped off site for disposal. The current HSP does not address this issue and therefore it must be updated.	The initial Long Beach IR Sites 1 and 2 Work Plan did not anticipate the presence of radioactive materials. However, during excavation, radiation surveys were performed and radioactive materials were detected. The current HSP does not address the additional radiation surveying requirements (FCR-006), therefore it must be updated.	Amend the HSP with radiation survey protocols to address the additional radiation surveying required at the site. Major change (impacts cost, schedule or technical).

AS – air sparge
CAB - crushed aggregate base
FWENC – Foster Wheeler Environmental Corporation
HSP - Health and Safety Plan
SVE – soil vapor extraction

TABLE 16

DAILY DRUM TRACKING LOG

Drum ID	Accumulation Date	Type of Container	Storage Location	Container Content	DOT Class	Overpack/Loose-Pack/Lab-pack
001	10/27/2000	5 gal. Poly Drum	ST - 1	Sodium Carbonate - Non RCRA Solid	N/R	Lab Pack
002	10/27/2000	5 gal. Poly Drum	ST - 1	Photo Fixer - Non RCRA Solid	N/R	Lab Pack
003	10/27/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
004	10/27/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
005	10/27/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
006	10/27/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
007	10/30/2000	55 gal. Steel Drum	ST - 1	Latex Paint - Non RCRA Solid	N/R	Loose Pack
008	10/31/2000	55 gal. Steel Drum	ST - 1	Latex Paint - Non RCRA Solid	N/R	Loose Pack
009	10/31/2000	55 gal. Steel Drum	ST - 1	Latex Paint - Non RCRA Solid	N/R	Loose Pack
010	10/31/2000	55 gal. Steel Drum	ST - 1	Latex Paint - Non RCRA Solid	N/R	Loose Pack
011	10/31/2000	55 gal. Steel Drum	ST - 1	Latex Paint - Non RCRA Solid	N/R	Loose Pack
012	10/31/2000	55 gal. Steel Drum	ST - 1	Latex Paint - Non RCRA Solid	N/R	Loose Pack
013	10/31/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
014	10/31/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
015	10/31/2000	85 gal. Steel Over Pack	ST - 1	Latex Paint/Debris - Non RCRA Solid	N/R	Over Pack
016	10/31/2000	85 gal. Steel Over Pack	ST - 1	Latex Paint/Debris - Non RCRA Solid	N/R	Over Pack
017	10/30/2000	85 gal. Steel Over Pack	ST - 1	Latex Paint/Debris - Non RCRA Solid	N/R	Over Pack
018	11/1/2000	55 gal. Steel Drum	ST - 1	Asbestos - Haz Waste Solid	9	Loose Pack
019	11/1/2000	55 gal. Steel Drum	ST - 1	Asbestos - Haz Waste Solid	9	Loose Pack
020	11/1/2000	95 gal. Poly Over Pack	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Over Pack
021	11/1/2000	95 gal. Poly Over Pack	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Over Pack
022	11/1/2000	85 gal. Steel Over Pack	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Over Pack
023	11/1/2000	95 gal. Poly Over Pack	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Over Pack
024	11/1/2000	55 gal. Steel Drum	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Loose Pack
025	11/1/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
026	11/1/2000	55 gal. Steel Drum	ST - 1	Paint/Debris - Flam Solid, Organic	4.1	Loose Pack
027	11/1/2000	5 gal. Poly Drum	ST - 1	Flammable/Toxic - Lead Paint	3, 6.1	Lab Pack
028	11/2/2000	5 gal. Poly Drum	ST - 1	Flammable Liquid - Toluene	3	Lab Pack
029	11/2/2000	5 gal. Poly Drum	ST - 1	Soap/Cleaner - Non RCRA Liquid	N/R	Lab Pack
030	11/2/2000	95 gal. Poly Over Pack	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Over Pack

TABLE 16

DAILY DRUM TRACKING LOG

Drum ID	Accumulation Date	Type of Container	Storage Location	Container Content	DOT Class	Overpack/Loose-Pack/Lab-pack
031	11/2/2000	55 gal. Steel Drum	ST - 1	Photo Tubes - Non RCRA Solid	N/R	Loose Pack
032	11/6/2000	85 gal. Steel Over Pack	ST - 1	Tar/Solvent - Flam Solid, Organic	4.1	Over Pack
033	11/6/2000	85 gal. Steel Over Pack	ST - 1	Tar/Solvent - Flam Solid, Organic	4.1	Over Pack
034	11/6/2000	85 gal. Steel Over Pack	ST - 1	Tar/Solvent - Flam Solid, Organic	4.1	Over Pack
035	11/6/2000	85 gal. Steel Over Pack	ST - 1	Tar/Solvent - Flam Solid, Organic	4.1	Over Pack
036	11/6/2000	5 gal. Poly Drum	ST - 1	Acetic Acid - Corrosive	8	Lab Pack
037	11/6/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
038	11/7/2000	55 gal. Poly Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
039	11/7/2000	55 gal. Poly Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
040	11/7/2000	55 gal. Poly Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
041	11/7/2000	55 gal. Steel Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
042	11/7/2000	55 gal. Steel Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
043	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
044	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
045	11/8/2000	5 gal. Poly Drum	ST - 1	Flammable/Corrosive	3, 8	Lab Pack
046	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
047	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
048	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
049	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
050	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
051	11/8/2000	55 gal. Steel Drum	ST - 1	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
052	11/8/2000	95 gal. Poly Over Pack	ST - 1	Flammable/Toxic - Tar/Cresol	3, 6.1	Over Pack
053	11/8/2000	55 gal. Poly Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
054	11/7/2000	55 gal. Steel Drum	ST - 1	PPE - Non RCRA Solid(1)	N/R	Loose Pack
055	11/9/2000	85 gal. Steel Over Pack	ST - 2	Tar/Solvent - Flam Solid, Organic	4.1	Over Pack
056	11/9/2000	55 gal. Steel Drum	ST - 2	Tar Solvent - Flam Solid, Organic	4.1	Loose Pack
057	11/9/2000	85 gal. Steel Over Pack	ST - 4	Radioactive Soil	7	Loose Pack
058	11/14/2000	55 gal. Steel Drum	ST - 2	Glass Beads - Non RCRA Solid	N/R	Over Pack
059	11/14/2000	55 gal. Steel Drum	ST - 2	PPE - Non RCRA Solid	N/R	Loose Pack
060	11/16/2000	85 gal. Steel Drum	ST - 2	TAR Cresol - Toxic Solid Organic	6.1	Over Pack

TABLE 16

DAILY DRUM TRACKING LOG

Drum ID	Accumulation Date	Type of Container	Storage Location	Container Content	DOT Class	Overpack/Loose-Pack/Lab-pack
061	11/16/2000	85 gal. Steel Drum	ST - 2	TAR Cresol - Toxic Solid Organic	6.1	Over Pack
062	11/16/2000	85 gal. Steel Drum	ST - 2	TAR Cresol - Toxic Solid Organic	6.1	Over Pack
063	11/16/2000	85 gal. Steel Drum	ST - 2	Grease - Non RCRA Solid	N/R	Over Pack
064	11/16/2000	85 gal. Steel Over Pack	ST - 2	Tar/Solvent - Flam Solid, Organic	4.1	Over Pack
065	11/16/2000	55 gal. Steel Drum	ST - 2	PPE - Non RCRA Solid(1)	N/R	Loose Pack
066	11/21/2000	55 gal. Steel Drum	ST - 2	PPE/Debris(1)	N/R	Loose Pack
067	11/22/2000	55 gal. Steel Drum	ST - 4	Radioactive Soil	7	Loose Pack
068	11/22/2000	55 gal. Steel Drum	ST - 4	Radioactive Soil	7	Loose Pack
069	11/22/2000	55 gal. Steel Drum	ST - 2	Used PPE(1)	N/R	Loose Pack
070	11/22/2000	55 gal. Steel Drum	ST - 2	Used PPE(1)	N/R	Loose Pack
071	11/22/2000	55 gal. Steel Drum	ST - 2	Used PPE(1)	N/R	Loose Pack
072	11/27/2000	5 gal. Poly Drum	ST - 2	Flam. Corrosive	3.8	Loose Pack
073	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack
074	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack
075	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack
076	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack
077	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack
078	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack
079	11/27/2000	85 gal. Steel Drum	ST - 2	Tar	N/R	Over Pack

(1) Used PPE was temporarily stored in 55-gallon drums. The contents of used PPE drums were double bagged and disposed of along with the non-RCRA contaminated soils.

DOT = Department of Transportation
PPE = personal protective equipment
RCRA = Resource Conservation and Recovery Act

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
12/18/2000	20658186	00001	Non RCRA Hazardous Waste Solid (lead & copper)	77,400	29,460	47,940	23.97	Kent Bowser	CAL000717479		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658185	00002	Non RCRA Hazardous Waste Solid (lead & copper)	79,660	31,160	48,500	24.25	N C. McDonald	CAD983616202		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658184	00003	Non RCRA Hazardous Waste Solid (lead & copper)	79,740	30,840	48,900	24.45	Overstreet Trucking	CAR000078147		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658183	00004	Non RCRA Hazardous Waste Solid (lead & copper)	76,240	34,560	41,680	20.84	Art's Disposal	CAD057335333		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658182	00005	Non RCRA Hazardous Waste Solid (lead & copper)	76,060	31,900	44,160	22.08	Garcia Trucking	CAR00064451		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658181	00006	Non RCRA Hazardous Waste Solid (lead & copper)	74,360	31,480	42,880	21.44	Ecology Control Industries	CA0982030173		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658180	00007	Non RCRA Hazardous Waste Solid (lead & copper)	73,920	30,660	43,260	21.63	ECI	CAD982030173	T 17005	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658179	00008	Non RCRA Hazardous Waste Solid (lead & copper)	73,920	30,660	43,260	21.63	Aro Trucking	CAR000045963	T 17015	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658178	00009	Non RCRA Hazardous Waste Solid (lead & copper)	74,800	31,040	43,760	21.88	ECI	CAD982030173	T 17006	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658177	00010	Non RCRA Hazardous Waste Solid (lead & copper)	74,800	30,380	44,420	22.21	ECI	CAD982030173	T 16065	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658176	00011	Non RCRA Hazardous Waste Solid (lead & copper)	76,520	31,900	44,620	22.31	ECI	CAD982030173	T 16077	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658175	00012	Non RCRA Hazardous Waste Solid (lead & copper)	73,080	29,520	43,560	21.78	ECI	CAD982030173	T 16093	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658174	00013	Non RCRA Hazardous Waste Solid (lead & copper)	75,920	31,920	44,000	22.00	ECI	CAD982030173	T 17008	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658173	00014	Non RCRA Hazardous Waste Solid (lead & copper)	75,080	31,360	43,720	21.86	ECI	CAD982030173	T 17023	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658172	00015	Non RCRA Hazardous Waste Solid (lead & copper)	73,200	30,460	42,740	21.37	ECI	CAD982030173	T 16076	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658171	00016	Non RCRA Hazardous Waste Solid (lead & copper)	74,180	31,860	42,320	21.16	ECI	CAD982030173	T 17017	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658170	00017	Non RCRA Hazardous Waste Solid (lead & copper)	76,500	32,800	43,700	21.85	ECI	CAD982030173	T 17037	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658169	00018	Non RCRA Hazardous Waste Solid (lead & copper)	75,100	32,520	42,580	21.29	ECI	CAD982030173	T 17028	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658168	00019	Non RCRA Hazardous Waste Solid (lead & copper)	73,550	33,360	40,190	20.10	ECI	CAD982030173	T 16012	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658167	00020	Non RCRA Hazardous Waste Solid (lead & copper)	72,880	32,300	40,580	20.29	ECI	CAD982030173	T 16026	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658166	00021	Non RCRA Hazardous Waste Solid (lead & copper)	77,740	33,980	43,760	21.88	ADS	CAD057335333	T 102	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658165	00022	Non RCRA Hazardous Waste Solid (lead & copper)	79,500	31,620	47,880	23.94	Rodriguez Trucking	CAR000045930	T 308	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658164	00023	Non RCRA Hazardous Waste Solid (lead & copper)	79,540	29,960	49,580	24.79	Rodriguez Trucking	CAR000045931	T 307	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658163	00024	Non RCRA Hazardous Waste Solid (lead & copper)	80,040	30,360	49,680	24.84	Navarro Trucking	CAT000646117	T 192	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/18/2000	20658162	00025	Non RCRA Hazardous Waste Solid (lead & copper)	79,620	32,180	47,440	23.72	Sandoval Trucking	CAT000646117	T 008	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
TOTAL FOR DECEMBER 18, 2000				1,903,350	788,240	1,115,110	557.56					
12/19/2000	20658161	00026	Non RCRA Hazardous Waste Solid (lead & copper)	76,340	30,600	45,740	22.87	Machado Transportation	CAL000194786	9A97284	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658160	00027	Non RCRA Hazardous Waste Solid (lead & copper)	79,160	32,460	46,700	23.35	Luther & Son's	CAL000827895	I30	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658159	00028	Non RCRA Hazardous Waste Solid (lead & copper)	79,080	33,960	45,120	22.56	RL Johnson	CAL000209853	J1	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658158	00029	Non RCRA Hazardous Waste Solid (lead & copper)	74,500	32,220	42,280	21.14	ECI	CAD982030173	17037	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658157	00030	Non RCRA Hazardous Waste Solid (lead & copper)	74,600	33,260	41,340	20.67	Perez Transportation	CAL000209887	P2	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658156	00031	Non RCRA Hazardous Waste Solid (lead & copper)	77,540	31,940	45,600	22.80	Garcia Trucking	CAR000064451	1298	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658155	00032	Non RCRA Hazardous Waste Solid (lead & copper)	75,240	30,840	44,400	22.20	ECI	CAD98203173	17015	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658154	00033	Non RCRA Hazardous Waste Solid (lead & copper)	79,820	28,020	51,800	25.90	JDS Transport	CAR000048017	7	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658153	00034	Non RCRA Hazardous Waste Solid (lead & copper)	73,060	31,080	41,980	20.99	ECI	CAD982030173	17005	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658152	00035	Non RCRA Hazardous Waste Solid (lead & copper)	78,100	34,420	43,680	21.84	Art's Disposal	CAD057335333	101	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658151	00036	Non RCRA Hazardous Waste Solid (lead & copper)	83,540	32,420	51,120	25.56	Art's Disposal	CAD057335333	103	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658150	00037	Non RCRA Hazardous Waste Solid (lead & copper)	78,820	33,080	45,740	22.87	ECI	CAD982030173	16077	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658149	00038	Non RCRA Hazardous Waste Solid (lead & copper)	79,100	30,680	48,420	24.21	Aro Trucking	CAR000045963	GT 25636	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658148	00039	Non RCRA Hazardous Waste Solid (lead & copper)	80,900	31,020	49,880	24.94	ECI	CAD982030173	17023	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658147	00040	Non RCRA Hazardous Waste Solid (lead & copper)	78,420	31,320	47,100	23.55	ECI	CAD982030173	16079	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658146	00041	Non RCRA Hazardous Waste Solid (lead & copper)	78,820	30,180	48,640	24.32	Gary Boreham Trucking	CAL000213883	90	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658145	00042	Non RCRA Hazardous Waste Solid (lead & copper)	79,020	31,100	47,920	23.96	H McAbee & Sons	CAL000059998	602	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658144	00043	Non RCRA Hazardous Waste Solid (lead & copper)	78,660	29,440	49,220	24.61	Kent Bowser	CAL000212479	3	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658143	00044	Non RCRA Hazardous Waste Solid (lead & copper)	75,620	31,180	44,440	22.22	ECI	CAD982030173	16065	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658142	00045	Non RCRA Hazardous Waste Solid (lead & copper)	77,440	31,160	46,280	23.14	B & M Transport	CAR000087734	GT 26730	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658141	00046	Non RCRA Hazardous Waste Solid (lead & copper)	79,080	29,720	49,360	24.68	KVS Transportation	CAD982495608	T 325	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658140	00047	Non RCRA Hazardous Waste Solid (lead & copper)	77,340	30,180	47,160	23.58	KVS Transportation	CAD982495608	T 280	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658139	00048	Non RCRA Hazardous Waste Solid (lead & copper)	75,860	34,480	41,380	20.69	Jaico Gomboa Trucking	CAL000217084	175821	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658138	00049	Non RCRA Hazardous Waste Solid (lead & copper)	75,860	31,700	44,160	22.08	ECI	CAD982030173	17008	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
12/19/2000	20658137	00050	Non RCRA Hazardous Waste Solid (lead & copper)	73,180	30,420	42,760	21.38	ECI	CAD982030173	17017	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658136	00051	Non RCRA Hazardous Waste Solid (lead & copper)	74,260	31,640	42,620	21.31	ECI	CAD982030173	16076	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658135	00052	Non RCRA Hazardous Waste Solid (lead & copper)	72,400	30,020	42,380	21.19	ECI	CAD982030173	1604	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658134	00053	Non RCRA Hazardous Waste Solid (lead & copper)	72,840	31,900	40,940	20.47	ECI	CAD982030173	16013	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658133	00054	Non RCRA Hazardous Waste Solid (lead & copper)	73,080	30,880	42,200	21.10	ECI	CAD982030173	16015	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658132	00055	Non RCRA Hazardous Waste Solid (lead & copper)	78,560	29,980	48,580	24.29	KVS Transportation	CAD982495608	T 310	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658131	00056	Non RCRA Hazardous Waste Solid (lead & copper)	79,320	32,240	47,080	23.54	Sandoval Trucking	CAR000045872	8	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658130	00057	Non RCRA Hazardous Waste Solid (lead & copper)	80,500	31,460	49,040	24.52	Rodriguez Trucking	CAR000045930	308	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658129	00058	Non RCRA Hazardous Waste Solid (lead & copper)	79,880	30,240	49,640	24.82	Navarro Trucking	CAR000045948	192	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658128	00059	Non RCRA Hazardous Waste Solid (lead & copper)	78,520	29,800	48,720	24.36	Rodriguez Trucking	CAR000045930	307	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658127	00060	Non RCRA Hazardous Waste Solid (lead & copper)	71,640	30,520	41,120	20.56	ECI	CAD982030173	17028	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658126	00061	Non RCRA Hazardous Waste Solid (lead & copper)	77,580	32,880	44,700	22.35	KVS Transportation	CAD982495608	T 239	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658125	00062	Non RCRA Hazardous Waste Solid (lead & copper)	76,660	34,260	42,400	21.20	ECI	CAD982030173	16012	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658124	00063	Non RCRA Hazardous Waste Solid (lead & copper)	78,680	29,580	49,100	24.55	KVS Transportation	CAD982495606	T 263	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658123	00064	Non RCRA Hazardous Waste Solid (lead & copper)	78,740	30,360	48,380	24.19	KVS Transportation	CAD982495608	T 265	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658122	00065	Non RCRA Hazardous Waste Solid (lead & copper)	76,660	29,640	47,020	23.51	KVS Transportation	CAD982495608	T313	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/19/2000	20658121	00066	Non RCRA Hazardous Waste Solid (lead & copper)	77,240	32,360	44,880	22.44	ECI	CAD982030173	16009	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 19, 2000				**3,165,660**	**1,284,640**	**1,881,020**	**940.51**					
12/20/2000	20658120	00067	Non RCRA Hazardous Waste Solid (lead & copper)	80,500	30,520	49,980	24.99	KVS Transportation	CAD962495618		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658119	00068	Non RCRA Hazardous Waste Solid (lead & copper)	79,040	31,740	47,300	23.65	Machado Transportation	CAL000194786		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658118	00069	Non RCRA Hazardous Waste Solid (lead & copper)	78,880	29,720	49,160	24.58	KVS Transportation	CAD982495608		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658117	00070	Non RCRA Hazardous Waste Solid (lead & copper)	79,740	31,140	48,600	24.30	Luther & Son's	CAL000827895	SP38280	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658116	00071	Non RCRA Hazardous Waste Solid (lead & copper)	79,060	33,760	45,300	22.65	RL Johnson	CAL000209803		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658115	00072	Non RCRA Hazardous Waste Solid (lead & copper)	77,460	30,220	47,240	23.62	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658114	00073	Non RCRA Hazardous Waste Solid (lead & copper)	78,160	30,820	47,340	23.67	KVS Transportation	CAD982495608	SP61858	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
12/20/2000	20658113	00074	Non RCRA Hazardous Waste Solid (lead & copper)	76,420	31,080	45,340	22.67	B & M Transport	CAR000087734	NO LICENSE	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658112	00075	Non RCRA Hazardous Waste Solid (lead & copper)	75,740	31,960	43,780	21.89	Marzett Transportation	CAR000013411	9C42530	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658111	00076	Non RCRA Hazardous Waste Solid (lead & copper)	75,060	32,980	42,080	21.04	Mercede's Maria	CAL000213882	9B47292	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658110	00077	Non RCRA Hazardous Waste Solid (lead & copper)	75,260	30,640	44,620	22.31	ECI	CAD982030173	SP77958	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658109	00078	Non RCRA Hazardous Waste Solid (lead & copper)	76,960	33,760	43,200	21.60	Perez Transportation	CAL000209887	SP94976	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658108	00079	Non RCRA Hazardous Waste Solid (lead & copper)	78,100	33,980	44,120	22.06	Art's Disposal	CAD057335333	9A65834	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658107	00080	Non RCRA Hazardous Waste Solid (lead & copper)	77,260	34,500	42,760	21.38	Jaico Gomboa Trucking	CAL000217084	NO LICENSE/ NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658106	00081	Non RCRA Hazardous Waste Solid (lead & copper)	78,460	34,540	43,920	21.96	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658105	00082	Non RCRA Hazardous Waste Solid (lead & copper)	82,660	30,140	52,520	26.26	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658104	00083	Non RCRA Hazardous Waste Solid (lead & copper)	77,920	32,540	45,380	22.69	Art's Disposal	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658103	00084	Non RCRA Hazardous Waste Solid (lead & copper)	79,380	31,160	48,220	24.11	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658102	00085	Non RCRA Hazardous Waste Solid (lead & copper)	75,220	31,380	43,840	21.92	ECI	CAD982030173	SP61595	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658101	00086	Non RCRA Hazardous Waste Solid (lead & copper)	78,700	32,520	46,180	23.09	ECI	CAD982030173	SP34739	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658100	00087	Non RCRA Hazardous Waste Solid (lead & copper)	80,060	29,440	50,620	25.31	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658099	00088	Non RCRA Hazardous Waste Solid (lead & copper)	79,740	30,680	49,060	24.53	Aro Trucking	CAR000045963	SP92168	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658098	00089	Non RCRA Hazardous Waste Solid (lead & copper)	77,640	31,240	46,400	23.20	ECI	CAD982030173	SP60202	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658097	00090	Non RCRA Hazardous Waste Solid (lead & copper)	77,640	33,140	44,500	22.25	ECI	CAD982030173	9B47442	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658096	00091	Non RCRA Hazardous Waste Solid (lead & copper)	76,040	31,580	44,460	22.23	ECI	CAD982030173	9B17018	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658289	00092	Non RCRA Hazardous Waste Solid (lead & copper)	78,660	30,300	48,360	24.18	Karos Trucking	CAR000045955	9B55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658288	00093	Non RCRA Hazardous Waste Solid (lead & copper)	75,880	32,520	43,360	21.68	ECI	CAD982030173	9A38200	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658287	00094	Non RCRA Hazardous Waste Solid (lead & copper)	74,820	30,020	44,800	22.40	ECI	CAD982030173	9B19326	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658286	00095	Non RCRA Hazardous Waste Solid (lead & copper)	74,600	29,660	44,940	22.47	ECI	CAD982010173	9B17048	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658285	00096	Non RCRA Hazardous Waste Solid (lead & copper)	76,160	31,100	45,060	22.53	ECI	CAD982010173	9B19123	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658284	00097	Non RCRA Hazardous Waste Solid (lead & copper)	76,240	30,900	45,340	22.67	ECI	CAD982030173	9B19327	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/20/2000	20658283	00098	Non RCRA Hazardous Waste Solid (lead & copper)	74,760	30,880	43,880	21.94	ECI	CAD982030173	9B12067	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
TOTAL FOR DECEMBER 20, 2000				2,482,220	1,010,560	1,471,660	735.83					
12/21/2000	20658282	00099	Non RCRA Hazardous Waste Solid (lead & copper)	74,640	33,120	41,520	20.76	ECI	CAD982030173	9B47442	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/21/2000	20658281	00100	Non RCRA Hazardous Waste Solid (lead & copper)	74,120	31,100	43,020	21.51	ECI	CAD982030173	9B47439	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 21, 2000				148,760	64,220	84,540	42.27					
12/26/2000	20658280	00101	Non RCRA Hazardous Waste Solid (lead & copper)	78,320	34,640	43,680	21.84	Jaico Gomboa	CAL000217084	Temp License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/26/2000	20658279	00102	Non RCRA Hazardous Waste Solid (lead & copper)	78,120	33,780	44,340	22.17	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/26/2000	20658278	00103	Non RCRA Hazardous Waste Solid (lead & copper)	76,860	29,400	47,460	23.73	Greg Lee Trucking Co.	CAR000065086	9B41840	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 26, 2000 FOR STOCKPILE C1				233,300	97,820	135,480	67.74					
12/26/2000	20658277	00104	Non RCRA Hazardous Waste Solid (lead & copper)	81,140	27,660	53,480	26.74	JDS Transport	CAR000048017	New License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/26/2000	20658276	00105	Non RCRA Hazardous Waste Solid (lead & copper)	83,960	33,140	50,820	25.41	Den Beste Transportation	CAD982513632	5P44562	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 26, 2000 STOCKPILE C3				165,100	60,800	104,300	52.15					
TOTAL FOR DECEMBER 26, 2000				398,400	158,620	239,780	119.89					
12/27/2000	20658239	00142	Non RCRA Hazardous Waste Solid (lead & copper)	86,580	30,100	56,480	28.24	Rust & Son's Trucking	CAD981634116	ITE324	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658240	00141	Non RCRA Hazardous Waste Solid (lead & copper)	58,440	30,900	27,540	13.77	Bolt Trans	CAR000066621	IVK332	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658241	00140	Non RCRA Hazardous Waste Solid (lead & copper)	79,440	27,700	51,740	25.87	JDS Transport	CAR000048017	JDSTRAN	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658242	00139	Non RCRA Hazardous Waste Solid (lead & copper)	79,640	30,220	49,420	24.71	Karos Trucking	CAR000045955	9A55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658243	00138	Non RCRA Hazardous Waste Solid (lead & copper)	77,150	31,220	45,930	22.97	H. McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658244	00137	Non RCRA Hazardous Waste Solid (lead & copper)	80,540	29,540	51,000	25.50	Rodriguez Trucking	CAR000045930	9C42530	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658245	00136	Non RCRA Hazardous Waste Solid (lead & copper)	78,300	28,380	49,920	24.96	Aro Trucking	CAR000045963	SP92167	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658246	00135	Non RCRA Hazardous Waste Solid (lead & copper)	78,580	30,500	48,080	24.04	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658247	00134	Non RCRA Hazardous Waste Solid (lead & copper)	79,580	31,400	48,180	24.09	Rodriguez Trucking	CAR000045930	9B01763	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658248	00133	Non RCRA Hazardous Waste Solid (lead & copper)	80,440	32,220	48,220	24.11	Sandoval Trucking	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658249	00132	Non RCRA Hazardous Waste Solid (lead & copper)	75,780	33,420	42,360	21.18	J Torres Trucking	CAD980887046	SP49964	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658250	00131	Non RCRA Hazardous Waste Solid (lead & copper)	79,680	34,300	45,380	22.69	Quint Trucking	CAR000078428	IUM144	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658251	00130	Non RCRA Hazardous Waste Solid (lead & copper)	76,780	32,340	44,440	22.22	J Torres Trucking	CAD980887046	SP78648	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658253	00129	Non RCRA Hazardous Waste Solid (lead & copper)	82,500	29,060	53,440	26.72	Kent Bowser	CAL000212479	7A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658254	00128	Non RCRA Hazardous Waste Solid (lead & copper)	70,500	30,200	40,300	20.15	Rust & Son's Trucking	CAD981634116	ITE306(OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
12/27/2000	20658252	00127	Non RCRA Hazardous Waste Solid (lead & copper)	86,820	30,020	56,800	28.40	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658255	00126	Non RCRA Hazardous Waste Solid (lead & copper)	75,220	29,980	45,240	22.62	Bolt Trans	CAR000066621	Temp. License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658256	00125	Non RCRA Hazardous Waste Solid (lead & copper)	74,920	29,800	45,120	22.56	Bolt Trans	CAR000066621	New License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658257	00124	Non RCRA Hazardous Waste Solid (lead & copper)	71,400	30,480	40,920	20.46	Bolt Trans	CAR000066621	IUZ139(OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658258	00123	Non RCRA Hazardous Waste Solid (lead & copper)	84,040	29,920	54,120	27.06	Greg Lee Trucking Co.	CAR000065086	9B41840	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658259	00122	Non RCRA Hazardous Waste Solid (lead & copper)	78,600	31,340	47,260	23.63	Rust & Son's Trucking	CAD981634116	1TO208	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658260	00121	Non RCRA Hazardous Waste Solid (lead & copper)	77,950	34,080	43,870	21.94	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658261	00120	Non RCRA Hazardous Waste Solid (lead & copper)	77,660	28,920	48,740	24.37	Rust & Son's Trucking	CAD981634116	ITH233	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658262	00119	Non RCRA Hazardous Waste Solid (lead & copper)	78,600	29,100	49,500	24.75	Bolt Trans	CAR000866621	New License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658263	00118	Non RCRA Hazardous Waste Solid (lead & copper)	80,100	32,560	47,540	23.77	J Torres Trucking	CAD980887046	SP60103	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658264	00117	Non RCRA Hazardous Waste Solid (lead & copper)	79,040	31,240	47,800	23.90	J Torres Trucking	CAD980887046	SP78865	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658265	00116	Non RCRA Hazardous Waste Solid (lead & copper)	78,700	30,060	48,640	24.32	J Torres Trucking	CAD980887046	SP81349	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658266	00115	Non RCRA Hazardous Waste Solid (lead & copper)	76,700	31,400	45,300	22.65	Sanchez Trucking	CAR000045880	SP88705	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658267	00114	Non RCRA Hazardous Waste Solid (lead & copper)	77,880	32,800	45,080	22.54	Sanchez Trucking	CAR000045880	SP72596	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658268	00113	Non RCRA Hazardous Waste Solid (lead & copper)	79,840	34,640	45,200	22.60	Jairo Gomboa Trucking	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658269	00112	Non RCRA Hazardous Waste Solid (lead & copper)	80,760	31,340	49,420	24.71	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658270	00111	Non RCRA Hazardous Waste Solid (lead & copper)	78,700	30,540	48,160	24.08	Rust & Son's Trucking	CAD981634116	ITE323 (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658271	00110	Non RCRA Hazardous Waste Solid (lead & copper)	78,780	32,880	45,900	22.95	Den Beste Transportation	CAD982513632	SP44562	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658272	00109	Non RCRA Hazardous Waste Solid (lead & copper)	78,820	33,440	45,380	22.69	Den Beste Transportation	CAD982513632	SP44478	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658273	00108	Non RCRA Hazardous Waste Solid (lead & copper)	67,700	34,080	33,620	16.81	Den Beste Transportation	CAD982513632	SP41894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658274	00107	Non RCRA Hazardous Waste Solid (lead & copper)	76,620	32,600	44,020	22.01	Den Beste Transportation	CAD982513632	SP70049	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/27/2000	20658275	00106	Non RCRA Hazardous Waste Solid (lead & copper)	78,380	32,080	46,300	23.15	Den Beste Transportation	CAD982513632	SP44473	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 27, 2000				**2,881,160**	**1,154,800**	**1,726,360**	**863.18**					
12/28/2000	20658238	00143	Non RCRA Hazardous Waste Solid (lead & copper)	86,660	33,440	53,220	26.61	Den Beste Transportation	CAD982513632	SP44562	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658237	00144	Non RCRA Hazardous Waste Solid (lead & copper)	78,720	33,920	44,800	22.40	Den Beste Transportation	CAD982513632	SP70049	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
12/28/2000	20658236	00145	Non RCRA Hazardous Waste Solid (lead & copper)	78,920	34,120	44,800	22.40	Den Beste Transportation	CAD982513632	SP44478	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658235	00146	Non RCRA Hazardous Waste Solid (lead & copper)	78,980	31,660	47,320	23.66	Den Beste Transportation	CAD982513632	SP44473	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658234	00147	Non RCRA Hazardous Waste Solid (lead & copper)	76,240	29,120	47,120	23.56	Rust & Son's Trucking	CAD981634116	ITH322	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658233	00148	Non RCRA Hazardous Waste Solid (lead & copper)	84,700	29,140	55,560	27.78	Bolt Trans	CAR000066621	New License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658232	00149	Non RCRA Hazardous Waste Solid (lead & copper)	79,220	30,440	48,780	24.39	Rust & Son's Trucking	CAD981634116	ITE323 (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658231	00150	Non RCRA Hazardous Waste Solid (lead & copper)	79,840	30,400	49,440	24.72	Bolt Trans	CAR000066621	R1XC88 (TX)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658230	00151	Non RCRA Hazardous Waste Solid (lead & copper)	75,680	30,900	44,780	22.39	Rust & Son's Trucking	CAD981634116	ITO203	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658229	00152	Non RCRA Hazardous Waste Solid (lead & copper)	79,300	30,060	49,240	24.62	Bolt Trans	CAR000066621	IUZ139 (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658228	00153	Non RCRA Hazardous Waste Solid (lead & copper)	93,040	30,920	62,120	31.06	Rust & Son's Trucking	CAD981634116	ITE306 (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658227	00154	Non RCRA Hazardous Waste Solid (lead & copper)	78,340	31,580	46,760	23.38	Sanchez Trucking	CAR000045880	SP88705	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658226	00155	Non RCRA Hazardous Waste Solid (lead & copper)	79,580	32,640	46,940	23.47	Sanchez Trucking	CAR000045880	SP72596	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658225	00156	Non RCRA Hazardous Waste Solid (lead & copper)	80,840	34,600	46,240	23.12	Jairo Gomboa Trucking	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658224	00157	Non RCRA Hazardous Waste Solid (lead & copper)	82,280	31,360	50,920	25.46	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658223	00158	Non RCRA Hazardous Waste Solid (lead & copper)	93,340	33,260	60,080	30.04	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658222	00159	Non RCRA Hazardous Waste Solid (lead & copper)	78,300	31,480	46,820	23.41	ECI	CAD982030173	9B19323	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658221	00160	Non RCRA Hazardous Waste Solid (lead & copper)	78,360	34,920	43,440	21.72	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658220	00161	Non RCRA Hazardous Waste Solid (lead & copper)	69,740	30,900	38,840	19.42	ECI	CAD982030173	SP7899	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658219	00162	Non RCRA Hazardous Waste Solid (lead & copper)	71,160	32,980	38,180	19.09	ECI	CAD982030173	9B47439	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658218	00163	Non RCRA Hazardous Waste Solid (lead & copper)	77,720	29,820	47,900	23.95	Bolt Trans	CAR000066621	New License (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658217	00164	Non RCRA Hazardous Waste Solid (lead & copper)	80,380	30,800	49,580	24.79	Bolt Trans	CAR000066621	IVK332 (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658216	00165	Non RCRA Hazardous Waste Solid (lead & copper)	74,780	29,900	44,880	22.44	Bolt Trans	CAR000066621	Temporary (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658215	00166	Non RCRA Hazardous Waste Solid (lead & copper)	78,520	32,480	46,040	23.02	Art's Disposal	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658214	00167	Non RCRA Hazardous Waste Solid (lead & copper)	72,720	30,840	41,880	20.94	Lutrel Trucking	CAD083003699	SP27086	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658213	00168	Non RCRA Hazardous Waste Solid (lead & copper)	78,900	32,240	46,660	23.33	Sandoval Trucking	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658212	00169	Non RCRA Hazardous Waste Solid (lead & copper)	80,020	28,540	51,480	25.74	Aro Trucking	CAR000045963	SP92167	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
12/28/2000	20658211	00170	Non RCRA Hazardous Waste Solid (lead & copper)	79,480	30,300	49,180	24.59	Karos Trucking	CAR000045955	9A55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658210	00171	Non RCRA Hazardous Waste Solid (lead & copper)	69,960	32,200	37,760	18.88	ECI	CAD982030173	SP90102	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658209	00172	Non RCRA Hazardous Waste Solid (lead & copper)	87,220	29,060	58,160	29.08	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658208	00173	Non RCRA Hazardous Waste Solid (lead & copper)	80,000	29,420	50,580	25.29	Greg Lee Trucking Co.	CAR000065086	9B41840	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658207	00174	Non RCRA Hazardous Waste Solid (lead & copper)	85,040	30,060	54,980	27.49	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658206	00175	Non RCRA Hazardous Waste Solid (lead & copper)	85,900	31,220	54,680	27.34	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/28/2000	20658205	00176	Non RCRA Hazardous Waste Solid (lead & copper)	91,980	30,080	61,900	30.95	Rust & Son's Trucking	CAD981634116	ITE324	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 28, 2000				**2,725,860**	**1,064,800**	**1,661,060**	**830.53**					
12/29/2000	20658204	00177	Non RCRA Hazardous Waste Solid (lead & copper)	74,620	33,380	41,240	20.62	Den Beste Transportation	CAD982513632	SP70049	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658203	00178	Non RCRA Hazardous Waste Solid (lead & copper)	82,160	32,840	49,320	24.66	Den Beste Transportation	CAD982513632	SP44562	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658202	00179	Non RCRA Hazardous Waste Solid (lead & copper)	79,540	33,660	45,880	22.94	Den Beste Transportation	CAD982513632	SP44478	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658201	00180	Non RCRA Hazardous Waste Solid (lead & copper)	75,440	33,640	41,800	20.90	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658200	00181	Non RCRA Hazardous Waste Solid (lead & copper)	79,700	31,720	47,980	23.99	Den Beste Transportation	CAD982513632	SP44473	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658199	00182	Non RCRA Hazardous Waste Solid (lead & copper)	78,640	32,200	46,440	23.22	Sanchez Trucking	CAR000045880	SP88705	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658198	00183	Non RCRA Hazardous Waste Solid (lead & copper)	79,800	33,760	46,040	23.02	Sanchez Trucking	CAR000045880	SP72596	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658197	00184	Non RCRA Hazardous Waste Solid (lead & copper)	75,940	28,680	47,260	23.63	Bolt Trans	CAR000066621	New License	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658196	00185	Non RCRA Hazardous Waste Solid (lead & copper)	79,580	27,640	51,940	25.97	JDS Transport	CAR000048017		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658195	00186	Non RCRA Hazardous Waste Solid (lead & copper)	78,320	30,500	47,820	23.91	Bolt Trans	CAR000066621		Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658194	00187	Non RCRA Hazardous Waste Solid (lead & copper)	75,160	30,900	44,260	22.13	Bolt Trans	CAR000066621	IVK332 (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658193	00188	Non RCRA Hazardous Waste Solid (lead & copper)	78,740	29,800	48,940	24.47	Bolt Trans	CAR000066621	NEW	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658192	00189	Non RCRA Hazardous Waste Solid (lead & copper)	80,460	29,900	50,560	25.28	Bolt Trans	CAR000066621	Temporary (OK)	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658191	00190	Non RCRA Hazardous Waste Solid (lead & copper)	76,520	34,640	41,880	20.94	Jairo Gomboa Trucking	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
12/29/2000	20658190	00191	Non RCRA Hazardous Waste Solid (lead & copper)	81,780	33,000	48,780	24.39	Quint Trucking	CAR000078428	IUM144	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR DECEMBER 29, 2000				**1,176,400**	**476,260**	**700,140**	**350.07**					
1/2/2001	20658506	00192	Non RCRA Hazardous Waste Solid (lead & copper)	81,760	33,680	48,080	24.04	Den Beste Transportation	CAD982513632	SP70049	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658402	00193	Non RCRA Hazardous Waste Solid (lead & copper)	85,600	33,580	52,020	26.01	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/2/2001	20658403	00194	Non RCRA Hazardous Waste Solid (lead & copper)	77,200	34,580	42,620	21.31	Jairo Gomboa Trucking	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658404	00195	Non RCRA Hazardous Waste Solid (lead & copper)	79,100	31,260	47,840	23.92	J Torres Trucking	CAD980887046	SP78865	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658405	00196	Non RCRA Hazardous Waste Solid (lead & copper)	76,560	30,060	46,500	23.25	J Torres Trucking	CAD980887046	SP81349	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658406	00197	Non RCRA Hazardous Waste Solid (lead & copper)	78,100	33,140	44,960	22.48	J Torres Trucking	CAD980887046	SP49964	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658407	00198	Non RCRA Hazardous Waste Solid (lead & copper)	77,840	32,380	45,460	22.73	Den Beste Transportation	CAD982513632	SP44562	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658408	00199	Non RCRA Hazardous Waste Solid (lead & copper)	75,920	32,460	43,460	21.73	Mark Doss Trucking	CAR000053736	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658409	00200	Non RCRA Hazardous Waste Solid (lead & copper)	80,260	32,120	48,140	24.07	Mark Doss Trucking	CAR000053736	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658410	00201	Non RCRA Hazardous Waste Solid (lead & copper)	80,180	33,220	46,960	23.48	D & S Trucking	CAR000045443	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658411	00202	Non RCRA Hazardous Waste Solid (lead & copper)	80,680	31,100	49,580	24.79	Mark Doss Trucking	CAR000053736	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658412	00203	Non RCRA Hazardous Waste Solid (lead & copper)	73,260	32,720	40,540	20.27	ECI	CAD982030173	9B47439	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658413	00204	Non RCRA Hazardous Waste Solid (lead & copper)	72,840	31,260	41,580	20.79	ECI	CAD982030173	SP7899	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658414	00205	Non RCRA Hazardous Waste Solid (lead & copper)	86,060	34,140	51,920	25.96	Art's Disposal	CAD057335333	9A65834	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658415	00206	Non RCRA Hazardous Waste Solid (lead & copper)	85,520	32,360	53,160	26.58	Art's Disposal	CAD057335333	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658416	00207	Non RCRA Hazardous Waste Solid (lead & copper)	80,760	32,860	47,900	23.95	Mark Doss Trucking	CAR000053736	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658417	00208	Non RCRA Hazardous Waste Solid (lead & copper)	79,460	34,340	45,120	22.56	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658418	00209	Non RCRA Hazardous Waste Solid (lead & copper)	71,820	31,380	40,440	20.22	ECI	CAD982030173	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658419	00210	Non RCRA Hazardous Waste Solid (lead & copper)	78,780	32,520	46,260	23.13	J Torres Trucking	CAD980887046	SP78648	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658420	00211	Non RCRA Hazardous Waste Solid (lead & copper)	79,400	33,380	46,020	23.01	CL TESCHENDORF	CAD981167315	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658421	00212	Non RCRA Hazardous Waste Solid (lead & copper)	78,080	31,660	46,420	23.21	DELGADO Trucking	CAR0069765	-	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658422	00213	Non RCRA Hazardous Waste Solid (lead & copper)	81,300	31,000	50,300	25.15	KVS Transportation	CAD982495608	SP61858	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658423	00214	Non RCRA Hazardous Waste Solid (lead & copper)	78,160	30,000	48,160	24.08	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658424	00215	Non RCRA Hazardous Waste Solid (lead & copper)	78,500	32,100	46,400	23.20	MORALES Trucking	CAD981650609	SP21929	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658425	00216	Non RCRA Hazardous Waste Solid (lead & copper)	74,900	32,060	42,840	21.42	ECI	CAD982030173	SP78667	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658426	00217	Non RCRA Hazardous Waste Solid (lead & copper)	70,820	30,700	40,120	20.06	ECI	CAD982030173	SP17047	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658427	00218	Non RCRA Hazardous Waste Solid (lead & copper)	72,160	30,760	41,400	20.70	ECI	CAD982030173	9A38200	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/2/2001	20658428	00219	Non RCRA Hazardous Waste Solid (lead & copper)	71,060	30,200	40,860	20.43	ECI	CAD982030173	9B17022	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658429	00220	Non RCRA Hazardous Waste Solid (lead & copper)	79,400	30,160	49,240	24.62	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658430	00221	Non RCRA Hazardous Waste Solid (lead & copper)	79,440	30,160	49,280	24.64	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658431	00222	Non RCRA Hazardous Waste Solid (lead & copper)	74,780	30,960	43,820	21.91	A & J Environmental	CAD982491896	SP82950	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658432	00223	Non RCRA Hazardous Waste Solid (lead & copper)	74,560	33,040	41,520	20.76	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658433	00224	Non RCRA Hazardous Waste Solid (lead & copper)	80,420	28,940	51,480	25.74	Aro Trucking	CAR000045963	SP92167	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658434	00225	Non RCRA Hazardous Waste Solid (lead & copper)	79,680	31,760	47,920	23.96	Rodriguez Trucking	CAR000045930	9B01763	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658435	00226	Non RCRA Hazardous Waste Solid (lead & copper)	78,580	29,800	48,780	24.39	Rodriguez Trucking	CAR000045930	9C45497	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658436	00227	Non RCRA Hazardous Waste Solid (lead & copper)	80,580	30,600	49,980	24.99	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658437	00228	Non RCRA Hazardous Waste Solid (lead & copper)	77,040	33,180	43,860	21.93	Martin's Trucking	CAR000046987	SP72185	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658438	00229	Non RCRA Hazardous Waste Solid (lead & copper)	80,380	30,260	50,120	25.06	Karos Trucking	CAR000045955	9A55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658439	00230	Non RCRA Hazardous Waste Solid (lead & copper)	81,460	31,900	49,560	24.78	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658440	00231	Non RCRA Hazardous Waste Solid (lead & copper)	80,420	30,520	49,900	24.95	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658441	00232	Non RCRA Hazardous Waste Solid (lead & copper)	82,620	30,720	51,900	25.95	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658442	00233	Non RCRA Hazardous Waste Solid (lead & copper)	84,620	31,940	52,680	26.34	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658443	00234	Non RCRA Hazardous Waste Solid (lead & copper)	82,380	30,900	51,480	25.74	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658444	00235	Non RCRA Hazardous Waste Solid (lead & copper)	82,640	30,560	52,080	26.04	KVS Transportation	CAD982495608	SP61665	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658445	00236	Non RCRA Hazardous Waste Solid (lead & copper)	82,000	32,060	49,940	24.97	Sandoval Trucking	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658446	00237	Non RCRA Hazardous Waste Solid (lead & copper)	89,980	31,080	58,900	29.45	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658447	00238	Non RCRA Hazardous Waste Solid (lead & copper)	94,540	29,260	65,280	32.64	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/2/2001	20658448	00239	Non RCRA Hazardous Waste Solid (lead & copper)	89,300	30,540	58,760	29.38	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 2, 2001				**3,820,900**	**1,519,360**	**2,301,540**	**1,150.77**					
1/3/2001	20658449	00240	Non RCRA Hazardous Waste Solid (lead & copper)	78,700	34,140	44,560	22.28	CL TESCHENDORF	CAD981167315		Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658450	00241	Non RCRA Hazardous Waste Solid (lead & copper)	77,720	33,340	44,380	22.19	D & S Trucking	DAR000045443	SP62614	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658451	00242	Non RCRA Hazardous Waste Solid (lead & copper)	80,180	30,740	49,440	24.72	J Torres Trucking	CAD980887046	SP78865	Chemical Waste Management Kettleman Hills Facility	CAT000646117

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1/3/2001	20658452	00243	Non RCRA Hazardous Waste Solid (lead & copper)	78,920	29,980	48,940	24.47	J Torres Trucking	CAD980887046	SP81349	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658453	00244	Non RCRA Hazardous Waste Solid (lead & copper)	78,560	32,660	45,900	22.95	J Torres Trucking	CAD980887046	SP49964	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658454	00245	Non RCRA Hazardous Waste Solid (lead & copper)	75,900	30,780	45,120	22.56	Overstreet Trucking	CAR000078147	SP94862	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658455	00246	Non RCRA Hazardous Waste Solid (lead & copper)	76,920	34,680	42,240	21.12	Jairo Gomboa Trucking	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658456	00247	Non RCRA Hazardous Waste Solid (lead & copper)	75,360	32,360	43,000	21.50	Art's Disposal	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658457	00248	Non RCRA Hazardous Waste Solid (lead & copper)	75,720	32,040	43,680	21.84	Lutrel Trucking	CAD083003699	SP77288	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658458	00249	Non RCRA Hazardous Waste Solid (lead & copper)	79,880	31,180	48,700	24.35	N.C. McDonald	CAD983616202	SP58855	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658459	00250	Non RCRA Hazardous Waste Solid (lead & copper)	79,380	32,120	47,260	23.63	MORALES Trucking	CAD981650609	SP21929	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658460	00251	Non RCRA Hazardous Waste Solid (lead & copper)	71,880	31,540	40,340	20.17	ECI	CAD982030173	9B47438	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658461	00252	Non RCRA Hazardous Waste Solid (lead & copper)	69,220	32,700	36,520	18.26	ECI	CAD982030173	SP78755	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658462	00253	Non RCRA Hazardous Waste Solid (lead & copper)	75,480	32,040	43,440	21.72	DELGADO Trucking	CAR000069765	SP87748	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658463	00254	Non RCRA Hazardous Waste Solid (lead & copper)	81,240	32,400	48,840	24.42	Martin's Trucking	CAR000046987	SP72185	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658464	00255	Non RCRA Hazardous Waste Solid (lead & copper)	77,660	34,020	43,640	21.82	Art's Disposal	CAD057335333	9A65834	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658465	00256	Non RCRA Hazardous Waste Solid (lead & copper)	80,240	31,320	48,920	24.46	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658466	00257	Non RCRA Hazardous Waste Solid (lead & copper)	78,500	34,360	44,140	22.07	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658467	00258	Non RCRA Hazardous Waste Solid (lead & copper)	75,620	30,680	44,940	22.47	ECI	CAD982030173	9B17020	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658468	00259	Non RCRA Hazardous Waste Solid (lead & copper)	77,340	32,480	44,860	22.43	J Torres Trucking	CAD980887046	SP78648	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658469	00260	Non RCRA Hazardous Waste Solid (lead & copper)	80,600	30,440	50,160	25.08	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658470	00261	Non RCRA Hazardous Waste Solid (lead & copper)	80,760	31,300	49,460	24.73	KVS Transportation	CAD982495608	SP61858	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658471	00262	Non RCRA Hazardous Waste Solid (lead & copper)	70,380	31,520	38,860	19.43	ECI	CAD982030173	SP78667	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658472	00263	Non RCRA Hazardous Waste Solid (lead & copper)	79,300	31,560	47,740	23.87	DELGADO Trucking	CAR000069765	SP90777	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658473	00264	Non RCRA Hazardous Waste Solid (lead & copper)	67,220	30,940	36,280	18.14	ECI	CAD982030173	9B17047	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658474	00265	Non RCRA Hazardous Waste Solid (lead & copper)	72,020	30,640	41,380	20.69	ECI	CAD982030173	9B17022	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658475	00266	Non RCRA Hazardous Waste Solid (lead & copper)	63,960	30,920	33,040	16.52	ECI	CAD982030173	9A38200	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658476	00267	Non RCRA Hazardous Waste Solid (lead & copper)	80,280	29,680	50,600	25.30	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/3/2001	20658477	00268	Non RCRA Hazardous Waste Solid (lead & copper)	81,880	29,720	52,160	26.08	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658478	00269	Non RCRA Hazardous Waste Solid (lead & copper)	79,260	31,260	48,000	24.00	KVS Transportation	CAD982495608	SP79099	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658479	00270	Non RCRA Hazardous Waste Solid (lead & copper)	82,400	29,980	52,420	26.21	KVS Transportation	CAD982495608	SP61665	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658480	00271	Non RCRA Hazardous Waste Solid (lead & copper)	75,480	33,300	42,180	21.09	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658481	00272	Non RCRA Hazardous Waste Solid (lead & copper)	81,480	30,160	51,320	25.66	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658482	00273	Non RCRA Hazardous Waste Solid (lead & copper)	86,560	31,380	55,180	27.59	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658506		Non RCRA Hazardous Waste Solid (lead & copper)	81,760	33,680	48,080	24.04	Den Beste Transportation	CAD982513632	SP7004	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 3, 2001 FOR STOCKPILE C3				**2,626,000**	**1,078,360**	**1,547,640**	**773.82**					
1/3/2001	20658483	00274	Non RCRA Hazardous Waste Solid (lead & copper)	84,740	30,780	53,960	26.98	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/3/2001	20658484	00275	Non RCRA Hazardous Waste Solid (lead & copper)	81,620	30,320	51,300	25.65	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 3, 2001 FOR ASPHALT				**166,360**	**61,100**	**105,260**	**52.63**					
TOTAL FOR JANUARY 3, 2001				**2,792,360**	**1,139,460**	**1,652,900**	**826.45**					
1/4/2001	20658485	00276	Non RCRA Hazardous Waste Solid (lead & copper)	80,680	29,920	50,760	25.38	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/4/2001	20658486	00277	Non RCRA Hazardous Waste Solid (lead & copper)	78,420	31,500	46,920	23.46	KVS Transportation	CAD982495608	SP61858	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/4/2001	20658487	00278	Non RCRA Hazardous Waste Solid (lead & copper)	74,920	32,140	42,780	21.39	KVS Transportation	CAD982495608	SP61664	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/4/2001	20658488	00279	Non RCRA Hazardous Waste Solid (lead & copper)	74,100	30,200	43,900	21.95	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 4, 2001				**308,120**	**123,760**	**184,360**	**92.18**					
1/5/2001	20658489	00280	Non RCRA Hazardous Waste Solid (lead & copper)	77,100	30,160	46,940	23.47	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/5/2001	20658490	00281	Non RCRA Hazardous Waste Solid (lead & copper)	79,040	29,940	49,100	24.55	KVS Transportation	CAD982495608	SP61665	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/5/2001	20658491	00282	Non RCRA Hazardous Waste Solid (lead & copper)	83,060	29,660	53,400	26.70	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 5, 2001				**239,200**	**89,760**	**149,440**	**74.72**					
1/9/2001	20658493	00284	Non RCRA Hazardous Waste Solid (lead & copper)	91,760	30,140	61,620	30.81	Gary Boreham Trucking	CAL000213883		Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/9/2001	20658492	00283	Non RCRA Hazardous Waste Solid (lead & copper)	85,580	31,240	54,340	27.17	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 9, 2001 ASPHALT MIXTURE				**177,340**	**61,380**	**115,960**	**57.98**					
1/22/2001	20658494	00285	Non RCRA Hazardous Waste Solid (lead & copper)	78,920	32,200	46,720	23.36	Den Beste Transportation	CAD982513632	New Truck	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658495	00286	Non RCRA Hazardous Waste Solid (lead & copper)	80,420	30,900	49,520	24.76	KVS Transportation	CAD982495608	SP77891	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658496	00287	Non RCRA Hazardous Waste Solid (lead & copper)	76,640	32,840	43,800	21.90	Den Beste Transportation	CAD982513632	SP44562	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658497	00288	Non RCRA Hazardous Waste Solid (lead & copper)	76,080	31,400	44,680	22.34	Sanchez Trucking	CAR000045880	SP88705	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/22/2001	20658498	00289	Non RCRA Hazardous Waste Solid (lead & copper)	76,280	32,720	43,560	21.78	Sanchez Trucking	CAR000045880	SP72596	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658499	00290	Non RCRA Hazardous Waste Solid (lead & copper)	75,280	33,420	41,860	20.93	Den Beste Transportation	CAD982513632	SP44589	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658500	00291	Non RCRA Hazardous Waste Solid (lead & copper)	78,220	29,820	48,400	24.20	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658501	00292	Non RCRA Hazardous Waste Solid (lead & copper)	77,160	30,160	47,000	23.50	KVS Transportation	CAD982495608	SP77726	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658502	00293	Non RCRA Hazardous Waste Solid (lead & copper)	79,380	32,280	47,100	23.55	Aro Trucking	CAR000045963	TP02330	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658503	00294	Non RCRA Hazardous Waste Solid (lead & copper)	80,180	28,620	51,560	25.78	Aro Trucking	CAR000045963	9B84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658504	00295	Non RCRA Hazardous Waste Solid (lead & copper)	77,160	30,540	46,620	23.31	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658505	00296	Non RCRA Hazardous Waste Solid (lead & copper)	80,200	30,900	49,300	24.65	Aro Trucking	CAR000065963	6D29367	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658506		Non RCRA Hazardous Waste Solid (lead & copper)					See 1/2/01			Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658507	00297	Non RCRA Hazardous Waste Solid (lead & copper)	79,680	29,620	50,060	25.03	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658802	00298	Non RCRA Hazardous Waste Solid (lead & copper)	80,160	30,460	49,700	24.85	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658803	00299	Non RCRA Hazardous Waste Solid (lead & copper)	79,540	30,360	49,180	24.59	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658804	00300	Non RCRA Hazardous Waste Solid (lead & copper)	78,200	30,480	47,720	23.86	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658805	00301	Non RCRA Hazardous Waste Solid (lead & copper)	76,720	33,820	42,900	21.45	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658806	00302	Non RCRA Hazardous Waste Solid (lead & copper)	78,400	32,660	45,740	22.87	Martin's Trucking	CAR000046987	SP72185	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/22/2001	20658807	00303	Non RCRA Hazardous Waste Solid (lead & copper)	78,520	31,440	47,080	23.54	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 9, 2001 C3/C4/D1				**1,487,140**	**594,640**	**892,500**	**446.25**					
1/23/2001	20658808	00304	Non RCRA Hazardous Waste Solid (lead & copper)	77,800	30,420	47,380	23.69	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658809	00305	Non RCRA Hazardous Waste Solid (lead & copper)	79,140	33,360	45,780	22.89	Den Beste Transportation	CAD982513632	SP44589	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658810	00306	Non RCRA Hazardous Waste Solid (lead & copper)	79,020	29,180	49,840	24.92	Bolt Transportation	CAR000066621	RX1C9 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658811	00307	Non RCRA Hazardous Waste Solid (lead & copper)	77,740	33,300	44,440	22.22	Den Beste Transportation	CAD982513632	SP44376	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658812	00308	Non RCRA Hazardous Waste Solid (lead & copper)	77,840	30,320	47,520	23.76	Camacho Transportation	CAR000089409	9B85600	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658813	00309	Non RCRA Hazardous Waste Solid (lead & copper)	79,960	31,560	48,400	24.20	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658814	00310	Non RCRA Hazardous Waste Solid (lead & copper)	80,220	32,620	47,600	23.80	Martin's Trucking	CAR000046987	TP02433	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658815	00311	Non RCRA Hazardous Waste Solid (lead & copper)	74,340	32,660	41,680	20.84	ECI	CAD982030173	9B17046	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/23/2001	20658816	00312	Non RCRA Hazardous Waste Solid (lead & copper)	75,960	31,300	44,660	22.33	ECI	CAD982030173	9B47442	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658817	00313	Non RCRA Hazardous Waste Solid (lead & copper)	78,500	32,560	45,940	22.97	ECI	CAD982030173	SP60202	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658818	00314	Non RCRA Hazardous Waste Solid (lead & copper)	80,920	31,420	49,500	24.75	Den Beste Transportation	CAD982513632	NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658819	00315	Non RCRA Hazardous Waste Solid (lead & copper)	77,420	30,160	47,260	23.63	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658820	00316	Non RCRA Hazardous Waste Solid (lead & copper)	77,480	30,520	46,960	23.48	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658821	00317	Non RCRA Hazardous Waste Solid (lead & copper)	77,860	32,300	45,560	22.78	Sandoval	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658822	00318	Non RCRA Hazardous Waste Solid (lead & copper)	78,160	28,820	49,340	24.67	Aro Trucking	CAR000045963	9A84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658823	00319	Non RCRA Hazardous Waste Solid (lead & copper)	78,160	30,420	47,740	23.87	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658824	00320	Non RCRA Hazardous Waste Solid (lead & copper)	79,140	31,000	48,140	24.07	Aro Trucking	CAR000045963	9A84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658825	00321	Non RCRA Hazardous Waste Solid (lead & copper)	78,480	29,860	48,620	24.31	Bolt Transportation	CAR000066621	IVK333 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20658826	00322	Non RCRA Hazardous Waste Solid (lead & copper)	78,020	31,320	46,700	23.35	Bolt Transportation	CAR000066621	NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659199	00323	Non RCRA Hazardous Waste Solid (lead & copper)	77,900	31,340	46,560	23.28	Bolt Transportation	CAR000066621	IVK332 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659198	00324	Non RCRA Hazardous Waste Solid (lead & copper)	79,920	30,140	49,780	24.89	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659197	00325	Non RCRA Hazardous Waste Solid (lead & copper)	78,440	30,800	47,640	23.82	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659196	00326	Non RCRA Hazardous Waste Solid (lead & copper)	79,420	29,680	49,740	24.87	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659195	00327	Non RCRA Hazardous Waste Solid (lead & copper)	78,900	30,020	48,880	24.44	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659194	00328	Non RCRA Hazardous Waste Solid (lead & copper)	77,120	32,180	44,940	22.47	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659193	00329	Non RCRA Hazardous Waste Solid (lead & copper)	80,080	29,100	50,980	25.49	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/23/2001	20659192	00330	Non RCRA Hazardous Waste Solid (lead & copper)	79,240	31,200	48,040	24.02	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 23, 2001 C2/C3/C4				**2,117,180**	**837,560**	**1,279,620**	**639.81**					
1/24/2001	20659191	00331	Non RCRA Hazardous Waste Solid (lead & copper)	80,220	31,320	48,900	24.45	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659001	00332	Non RCRA Hazardous Waste Solid (lead & copper)	79,980	32,080	47,900	23.95	Sandoval	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659190	00333	Non RCRA Hazardous Waste Solid (lead & copper)	79,940	31,360	48,580	24.29	H McAbee & Sons	CAL000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659189	00334	Non RCRA Hazardous Waste Solid (lead & copper)	81,620	31,180	50,440	25.22	Rick Luther	CAL0000194785	SP96774	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659188	00335	Non RCRA Hazardous Waste Solid (lead & copper)	78,920	32,840	46,080	23.04	Machado Transportation	CAL00194786	9A97284	Chemical Waste Management Kettleman Hills Facility	CAT000646117

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SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/24/2001	20659187	00336	Non RCRA Hazardous Waste Solid (lead & copper)	79,940	32,740	47,200	23.60	Mc Knight Ent	CAR000079301	6A03007	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659186	00337	Non RCRA Hazardous Waste Solid (lead & copper)	79,540	31,120	48,420	24.21	Luther & Sons	CAL000827895	SP38282	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659185	00338	Non RCRA Hazardous Waste Solid (lead & copper)	80,500	34,220	46,280	23.14	Bolt Transportation	CAR000066621	RAXC88 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659184	00339	Non RCRA Hazardous Waste Solid (lead & copper)	80,200	29,680	50,520	25.26	Bolt Transportation	CAR000066621	A7149437	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659183	00340	Non RCRA Hazardous Waste Solid (lead & copper)	78,440	30,160	48,280	24.14	Bolt Transportation	CAR000066621	RIXC90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659182	00341	Non RCRA Hazardous Waste Solid (lead & copper)	80,740	31,300	49,440	24.72	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659181	00342	Non RCRA Hazardous Waste Solid (lead & copper)	79,700	31,400	48,300	24.15	Jairo Gomboa	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659180	00343	Non RCRA Hazardous Waste Solid (lead & copper)	80,460	33,980	46,480	23.24	JIF Trucking	CAL000209868	9C52096	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659179	00344	Non RCRA Hazardous Waste Solid (lead & copper)	76,420	32,940	43,480	21.74	ECI	CAD982030173	9B17046	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659178	00345	Non RCRA Hazardous Waste Solid (lead & copper)	76,580	29,520	47,060	23.53	DJ Trucking	CAL000209867	9A24973	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659177	00346	Non RCRA Hazardous Waste Solid (lead & copper)	78,180	33,220	44,960	22.48	HM Trucking	CAL000209869	9B46224	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659176	00347	Non RCRA Hazardous Waste Solid (lead & copper)	85,540	30,100	55,440	27.72	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659175	00348	Non RCRA Hazardous Waste Solid (lead & copper)	79,760	28,660	51,100	25.55	Aro Trucking	CAR000045963	9A84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659174	00349	Non RCRA Hazardous Waste Solid (lead & copper)	78,840	33,500	45,340	22.67	ECI	CAD982030173	9B47442	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659173	00350	Non RCRA Hazardous Waste Solid (lead & copper)	80,020	29,860	50,160	25.08	Bolt Transportation	CAR000066621	IVK333 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659172	00351	Non RCRA Hazardous Waste Solid (lead & copper)	79,680	30,960	48,720	24.36	Aro Trucking	CAR000045963	6D29637	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659171	00352	Non RCRA Hazardous Waste Solid (lead & copper)	78,900	32,920	45,980	22.99	Bolt Transportation	CAR000066621	ITW410	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659170	00353	Non RCRA Hazardous Waste Solid (lead & copper)	79,080	30,180	48,900	24.45	Bolt Transportation	CAR000066621	Temporary	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659169	00354	Non RCRA Hazardous Waste Solid (lead & copper)	79,560	29,680	49,880	24.94	Bolt Transportation	CAR000066621	New Truck	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659168	00355	Non RCRA Hazardous Waste Solid (lead & copper)	78,220	30,380	47,840	23.92	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659167	00356	Non RCRA Hazardous Waste Solid (lead & copper)	79,480	30,440	49,040	24.52	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659166	00357	Non RCRA Hazardous Waste Solid (lead & copper)	80,180	31,780	48,400	24.20	Bolt Transportation	CAR000066621	IVK332 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659165	00358	Non RCRA Hazardous Waste Solid (lead & copper)	80,660	29,160	51,500	25.75	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659164	00359	Non RCRA Hazardous Waste Solid (lead & copper)	78,580	29,680	48,900	24.45	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659163	00360	Non RCRA Hazardous Waste Solid (lead & copper)	79,580	30,480	49,100	24.55	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/24/2001	20659162	00361	Non RCRA Hazardous Waste Solid (lead & copper)	79,700	29,960	49,740	24.87	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/24/2001	20659161	00362	Non RCRA Hazardous Waste Solid (lead & copper)	78,540	32,520	46,020	23.01	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 24, 2001 C2/C3/C4				**2,547,700**	**999,320**	**1,548,380**	**774.19**					
1/25/2001	20659160	00363	Non RCRA Hazardous Waste Solid (lead & copper)	81,500	33,300	48,200	24.10	Den Beste Transportation	CAD982513632	SP44473	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659159	00364	Non RCRA Hazardous Waste Solid (lead & copper)	79,540	31,820	47,720	23.86	Machado Transportation	CAL000194786	9A97284	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659158	00365	Non RCRA Hazardous Waste Solid (lead & copper)	80,320	32,020	48,300	24.15	Luther & Sons	CAL000827895	SP38282	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659155	00366	Non RCRA Hazardous Waste Solid (lead & copper)	75,440	29,640	45,800	22.90	Bolt Transportation	CAR000066621	A7149437	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659154	00367	Non RCRA Hazardous Waste Solid (lead & copper)	80,940	30,220	50,720	25.36	KVS Transportation	CAD982495608	SP77726	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659153	00368	Non RCRA Hazardous Waste Solid (lead & copper)	77,880	33,400	44,480	22.24	Bolt Transportation	CAR000066621	RIXC88 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659152	00369	Non RCRA Hazardous Waste Solid (lead & copper)	78,860	30,420	48,440	24.22	KVS Transportation	CAD982495608	SP61674	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659151	00370	Non RCRA Hazardous Waste Solid (lead & copper)	77,340	31,660	45,680	22.84	Bolt Transportation	CAD000066621	Temporary	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659150	00371	Non RCRA Hazardous Waste Solid (lead & copper)	83,740	32,420	51,320	25.66	Martin's Trucking	CAR000046987	TP02433	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659149	00372	Non RCRA Hazardous Waste Solid (lead & copper)	81,060	31,280	49,780	24.89	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659148	00373	Non RCRA Hazardous Waste Solid (lead & copper)	79,080	30,900	48,180	24.09	Jairo Gomboa	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659147	00374	Non RCRA Hazardous Waste Solid (lead & copper)	78,860	33,880	44,980	22.49	JIF Trucking	CAL000209868	9C52096	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659146	00375	Non RCRA Hazardous Waste Solid (lead & copper)	79,120	32,980	46,140	23.07	HM Trucking	CAL000209869	9B46224	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659145	00376	Non RCRA Hazardous Waste Solid (lead & copper)	80,840	29,580	51,260	25.63	Rodriguez Trucking	CAR00045930	9C45497	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659144	00377	Non RCRA Hazardous Waste Solid (lead & copper)	80,300	31,720	48,580	24.29	Rodriguez Trucking	CAR000045930	9B01763	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659143	00378	Non RCRA Hazardous Waste Solid (lead & copper)	83,520	32,520	51,000	25.50	ECI	CAD982030173	9B17046	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659142	00379	Non RCRA Hazardous Waste Solid (lead & copper)	80,000	29,440	50,560	25.28	DJ Trucking	CAL000209867	9A24973	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659141	00380	Non RCRA Hazardous Waste Solid (lead & copper)	80,380	32,800	47,580	23.79	ECI	CAD982030173	9B47439	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659140	00381	Non RCRA Hazardous Waste Solid (lead & copper)	78,260	31,220	47,040	23.52	ECI	CAD982030173	SP60205	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659139	00382	Non RCRA Hazardous Waste Solid (lead & copper)	80,200	30,380	49,820	24.91	Karo's	CAR000045955	9A55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659138	00383	Non RCRA Hazardous Waste Solid (lead & copper)	77,920	31,920	46,000	23.00	ECI	CAD982030173	SP60201	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659137	00384	Non RCRA Hazardous Waste Solid (lead & copper)	79,240	29,080	50,160	25.08	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/25/2001	20659136	00385	Non RCRA Hazardous Waste Solid (lead & copper)	80,440	30,500	49,940	24.97	Bolt Transportation	CAR000066621	ITH 834 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659135	00386	Non RCRA Hazardous Waste Solid (lead & copper)	76,700	31,840	44,860	22.43	KVS Transportation	CAD982495608	SP79099	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659134	00387	Non RCRA Hazardous Waste Solid (lead & copper)	79,820	30,320	49,500	24.75	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659133	00388	Non RCRA Hazardous Waste Solid (lead & copper)	76,320	30,880	45,440	22.72	KVS Transportation	CAD982495608	SP61664	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659132	00389	Non RCRA Hazardous Waste Solid (lead & copper)	78,400	30,020	48,380	24.19	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659131	00390	Non RCRA Hazardous Waste Solid (lead & copper)	74,900	32,220	42,680	21.34	Bolt Transportation	CAR000066621	IUZ 138 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659130	00391	Non RCRA Hazardous Waste Solid (lead & copper)	78,340	32,640	45,700	22.85	Bolt Transportation	CAR000066621	ITW 410 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659129	00392	Non RCRA Hazardous Waste Solid (lead & copper)	80,640	33,220	47,420	23.71	Art's Disposal	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659128	00393	Non RCRA Hazardous Waste Solid (lead & copper)	83,160	35,220	47,940	23.97	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659127	00394	Non RCRA Hazardous Waste Solid (lead & copper)	82,780	34,200	48,580	24.29	Art's Disposal	CAD057335333	9A65834	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659126	00395	Non RCRA Hazardous Waste Solid (lead & copper)	82,160	29,940	52,220	26.11	Bolt Transportation	CAR000066621	IVK 333 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659125	00396	Non RCRA Hazardous Waste Solid (lead & copper)	76,880	30,160	46,720	23.36	Bolt Transportation	CAR000066621	CAL Temporary 726	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659124	00397	Non RCRA Hazardous Waste Solid (lead & copper)	79,740	31,220	48,520	24.26	Bolt Transportation	CAR000066621	1VK 332 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659123	00398	Non RCRA Hazardous Waste Solid (lead & copper)	77,580	28,700	48,880	24.44	Aro Trucking	CAR000045963	9B84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659122	00399	Non RCRA Hazardous Waste Solid (lead & copper)	79,360	32,600	46,760	23.38	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/25/2001	20659121	00400	Non RCRA Hazardous Waste Solid (lead & copper)	78,960	32,800	46,160	23.08	Sandoval	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 25, 2001 C2/D1/D2				**3,020,520**	**1,199,080**	**1,821,440**	**910.72**					
1/26/2001	20659120	00401	Non RCRA Hazardous Waste Solid (lead & copper)	80,560	33,340	47,220	23.61	Den Beste Transportation	CAD982513632	SP44473	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659119	00402	Non RCRA Hazardous Waste Solid (lead & copper)	78,480	32,860	45,620	22.81	Machado Transportation	CAL000194786	9A97284	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659118	00403	Non RCRA Hazardous Waste Solid (lead & copper)	77,340	31,780	45,560	22.78	Luther & Sons	CAL000827895	SP38282	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659117	00404	Non RCRA Hazardous Waste Solid (lead & copper)	78,220	32,000	46,220	23.11	Pacheco	CAL000212367	9B21797	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659116	00405	Non RCRA Hazardous Waste Solid (lead & copper)	80,220	32,660	47,560	23.78	Sanchez Trucking	CAR000045880	SP72596	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659115	00406	Non RCRA Hazardous Waste Solid (lead & copper)	78,620	31,660	46,960	23.48	Sanchez Trucking	CAR000045880	SP88705	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659114	00407	Non RCRA Hazardous Waste Solid (lead & copper)	77,960	30,580	47,380	23.69	B & M Trucking	CAR000087734	9B73707	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659113	00408	Non RCRA Hazardous Waste Solid (lead & copper)	77,000	30,980	46,020	23.01	Jairo Gomboa	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/26/2001	20659112	00409	Non RCRA Hazardous Waste Solid (lead & copper)	74,840	33,300	41,540	20.77	Vega Trucking	CAR000089052	NEW TRUCK #76	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659111	00410	Non RCRA Hazardous Waste Solid (lead & copper)	79,280	30,940	48,340	24.17	Rust & Son Trucking	CAD981634116	ITO 208 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659110	00411	Non RCRA Hazardous Waste Solid (lead & copper)	79,480	32,760	46,720	23.36	Rust & Son Trucking	CAD981634116	ITE 307 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659004	00412	Non RCRA Hazardous Waste Solid (lead & copper)	79,240	29,900	49,340	24.67	Rust & Son Trucking	CAD981634116	ITE 323 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659005	00413	Non RCRA Hazardous Waste Solid (lead & copper)	80,440	32,940	47,500	23.75	Martin's Trucking	CAR000046987	TP02433	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659006	00414	Non RCRA Hazardous Waste Solid (lead & copper)	75,620	30,840	44,780	22.39	ECI	CAD982030173	SP60205	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659007	00415	Non RCRA Hazardous Waste Solid (lead & copper)	77,500	32,780	44,720	22.36	ECI	CAD982030173	9B17046	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659008	00416	Non RCRA Hazardous Waste Solid (lead & copper)	77,680	29,740	47,940	23.97	Bolt Transportation	CAR000066621	IUZ 139 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659009	00417	Non RCRA Hazardous Waste Solid (lead & copper)	78,500	29,340	49,160	24.58	Bolt Transportation	CAR000066621	A7149437	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659010	00418	Non RCRA Hazardous Waste Solid (lead & copper)	77,000	31,240	45,760	22.88	Bolt Transportation	CAR000066621	501ILT	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659011	00419	Non RCRA Hazardous Waste Solid (lead & copper)	79,560	29,860	49,700	24.85	Bolt Transportation	CAR000066621	R1XC90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659012	00420	Non RCRA Hazardous Waste Solid (lead & copper)			0	0.00	Mike Hester Trucking	CAR000087114	9B70102	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659013	00421	Non RCRA Hazardous Waste Solid (lead & copper)	81,640	30,240	51,400	25.70	Bolt Transportation	CAR000066621	NEW TRUCK/ Temporary	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659014	00422	Non RCRA Hazardous Waste Solid (lead & copper)	77,600	30,960	46,640	23.32	Bolt Transportation	CAR000066621	ITH 837 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659015	00423	Non RCRA Hazardous Waste Solid (lead & copper)	77,940	34,220	43,720	21.86	Jeff Fields Trucking	CAR000089391	TP0316	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659016	00424	Non RCRA Hazardous Waste Solid (lead & copper)	80,000	34,480	45,520	22.76	J Torres Trucking	CAD980887046	SP60286	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659017	00425	Non RCRA Hazardous Waste Solid (lead & copper)	79,400	33,280	46,120	23.06	J Torres Trucking	CAD980887046	SP16103	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659018	00426	Non RCRA Hazardous Waste Solid (lead & copper)	82,400	32,180	50,220	25.11	J Torres Trucking	CAD980887046	SP78649	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659019	00427	Non RCRA Hazardous Waste Solid (lead & copper)	80,320	33,460	46,860	23.43	J Torres Trucking	CAD980887046	SP49964	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659020	00428	Non RCRA Hazardous Waste Solid (lead & copper)	76,260	33,200	43,060	21.53	ECI	CAD982030173	SP60201	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659021	00429	Non RCRA Hazardous Waste Solid (lead & copper)	78,120	29,860	48,260	24.13	KVS Transportation	CAD982495608	SP78896	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659022	00430	Non RCRA Hazardous Waste Solid (lead & copper)	79,840	30,720	49,120	24.56	Rust & Son Trucking	CAD981634116	ITE 325 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659023	00431	Non RCRA Hazardous Waste Solid (lead & copper)	76,020	30,260	45,760	22.88	Rust & Son Trucking	CAD981634116	ITE 322 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659024	00432	Non RCRA Hazardous Waste Solid (lead & copper)	79,820	29,660	50,160	25.08	Rust & Son Trucking	CAD981634116	ITE 324 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659025	00433	Non RCRA Hazardous Waste Solid (lead & copper)	78,360	32,060	46,300	23.15	Rust & Son Trucking	CAD981634116	ITE 335 OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/26/2001	20659026	00434	Non RCRA Hazardous Waste Solid (lead & copper)	80,420	30,740	49,680	24.84	KVS Transportation	CAD982495608	SP77726	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659027	00435	Non RCRA Hazardous Waste Solid (lead & copper)	78,160	32,320	45,840	22.92	KVS Transportation	CAD982495608	SP61674	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659028	00436	Non RCRA Hazardous Waste Solid (lead & copper)	77,540	30,740	46,800	23.40	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659029	00437	Non RCRA Hazardous Waste Solid (lead & copper)	79,140	32,160	46,980	23.49	KVS Transportation	CAD982495608	SP61859	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659030	00438	Non RCRA Hazardous Waste Solid (lead & copper)	79,660	30,040	49,620	24.81	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659031	00439	Non RCRA Hazardous Waste Solid (lead & copper)	77,220	30,580	46,640	23.32	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659032	00440	Non RCRA Hazardous Waste Solid (lead & copper)	77,580	32,560	45,020	22.51	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659033	00441	Non RCRA Hazardous Waste Solid (lead & copper)	78,380	30,640	47,740	23.87	KVS Transportation	CAD982495608	SP61664	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659034	00442	Non RCRA Hazardous Waste Solid (lead & copper)	79,240	31,100	48,140	24.07	Aro Trucking	CAR000045963	6D29367	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/26/2001	20659035	00443	Non RCRA Hazardous Waste Solid (lead & copper)	80,620	29,720	50,900	25.45	Rodriguez Trucking	CAR000045930	9C45497	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 26, 2001 D2				**3,303,220**	**1,324,680**	**1,978,540**	**989.27**					
1/29/2001	20659036	00444	Non RCRA Hazardous Waste Solid (lead & copper)	80,340	32,960	47,380	23.69	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659037	00445	Non RCRA Hazardous Waste Solid (lead & copper)	77,960	31,040	46,920	23.46	Jairo Gomboa	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659038	00446	Non RCRA Hazardous Waste Solid (lead & copper)	80,460	34,520	45,940	22.97	Jeff Fields Trucking	CAR000089391	TP03116	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659039	00447	Non RCRA Hazardous Waste Solid (lead & copper)	81,440	30,040	51,400	25.70	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659040	00448	Non RCRA Hazardous Waste Solid (lead & copper)	78,420	30,440	47,980	23.99	Bolt Transportation	CAR000066621	R1XL90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659041	00449	Non RCRA Hazardous Waste Solid (lead & copper)	80,920	29,420	51,500	25.75	Bolt Transportation	CAR000066621	A7149437	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659042	00450	Non RCRA Hazardous Waste Solid (lead & copper)	78,920	33,740	45,180	22.59	Bolt Transportation	CAR000066621	R1XC88 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659043	00451	Non RCRA Hazardous Waste Solid (lead & copper)	75,340	30,640	44,700	22.35	Mark Doss Trucking	CAR000053736	8U	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659044	00452	Non RCRA Hazardous Waste Solid (lead & copper)	73,540	30,400	43,140	21.57	Mark Doss Trucking	CAR000053736	5E25854	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659045	00453	Non RCRA Hazardous Waste Solid (lead & copper)	79,500	30,120	49,380	24.69	Camacho Transportation	CAR000089409	9B85600	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659046	00454	Non RCRA Hazardous Waste Solid (lead & copper)	77,260	32,000	45,260	22.63	Mark Doss Trucking	CAR000053731	9A20142	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659047	00455	Non RCRA Hazardous Waste Solid (lead & copper)	79,080	32,520	46,560	23.28	Mark Doss Trucking	CAR000053736	9C31168	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659048	00456	Non RCRA Hazardous Waste Solid (lead & copper)	77,180	30,340	46,840	23.42	Mark Doss Trucking	CAR000053736	4N87626	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659055	00457	Non RCRA Hazardous Waste Solid (lead & copper)	77,920	32,600	45,320	22.66	Martin's Trucking	CAR000046987	TP09633	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/29/2001	20659056	00458	Non RCRA Hazardous Waste Solid (lead & copper)	79,140	31,580	47,560	23.78	Martin's Trucking	CAR000046987	SP97450	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659057	00459	Non RCRA Hazardous Waste Solid (lead & copper)	79,740	32,200	47,540	23.77	Karo's Trucking	CAR000045955	9A55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659058	00460	Non RCRA Hazardous Waste Solid (lead & copper)	78,800	31,660	47,140	23.57	Rodriguez Trucking	CAR000045930	9B01763	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659059	00461	Non RCRA Hazardous Waste Solid (lead & copper)	79,260	28,700	50,560	25.28	Aro Trucking	CAR000045963	9B84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659060	00462	Non RCRA Hazardous Waste Solid (lead & copper)	77,540	30,580	46,960	23.48	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659061	00463	Non RCRA Hazardous Waste Solid (lead & copper)	79,880	30,840	49,040	24.52	KVS Transportation	CAD982495608	SP61665	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659062	00464	Non RCRA Hazardous Waste Solid (lead & copper)	80,800	29,880	50,920	25.46	KVS Transportation	CAD982495608	SP78774	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659063	00465	Non RCRA Hazardous Waste Solid (lead & copper)	78,160	29,380	48,780	24.39	KVS Transportation	CAD982495608	SP61857	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659064	00466	Non RCRA Hazardous Waste Solid (lead & copper)	78,520	30,840	47,680	23.84	KVS Transportation	CAD982495608	SP61673	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659065	00467	Non RCRA Hazardous Waste Solid (lead & copper)	80,420	29,820	50,600	25.30	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659066	00468	Non RCRA Hazardous Waste Solid (lead & copper)	79,740	30,600	49,140	24.57	KVS Transportation	CAD982495608	SP61664	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659067	00469	Non RCRA Hazardous Waste Solid (lead & copper)	79,900	32,340	47,560	23.78	ADS Trucking	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659068	00470	Non RCRA Hazardous Waste Solid (lead & copper)	79,780	32,720	47,060	23.53	KVS Transportation	CAD982495608	SP61662	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659069	00471	Non RCRA Hazardous Waste Solid (lead & copper)	79,580	30,640	48,940	24.47	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659070	00472	Non RCRA Hazardous Waste Solid (lead & copper)	67,900	34,360	33,540	16.77	KVS Transportation	CAD982495608	SP61856	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659071	00473	Non RCRA Hazardous Waste Solid (lead & copper)	82,220	29,860	52,360	26.18	Bolt Transportation	CAR000066621	Temporary OK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659072	00474	Non RCRA Hazardous Waste Solid (lead & copper)	79,960	30,140	49,820	24.91	Bolt Transportation	CAR000066621	NEW	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659073	00475	Non RCRA Hazardous Waste Solid (lead & copper)	82,540	30,360	52,180	26.09	Bolt Transportation	CAR000066621	NEW	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659074	00476	Non RCRA Hazardous Waste Solid (lead & copper)	82,800	29,540	53,260	26.63	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
1/29/2001	20659075	00477	Non RCRA Hazardous Waste Solid (lead & copper)	82,080	31,580	50,500	25.25	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR JANUARY 29, 2001 D2				**2,687,040**	**1,058,400**	**1,628,640**	**814.32**					
2/5/2001	20659076	00478	Non RCRA Hazardous Waste Solid (lead & copper)	83,700	33,640	50,060	25.03	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659077	00479	Non RCRA Hazardous Waste Solid (lead & copper)	78,120	29,880	48,240	24.12	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659078	00480	Non RCRA Hazardous Waste Solid (lead & copper)	76,000	29,140	46,860	23.43	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659079	00481	Non RCRA Hazardous Waste Solid (lead & copper)	78,420	30,020	48,400	24.20	Lutrel Trucking	CAD083003699	SP77270	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
2/5/2001	20659080	00482	Non RCRA Hazardous Waste Solid (lead & copper)	79,820	30,700	49,120	24.56	Lutrel Trucking	CAD083003699	SP77269	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659081	00483	Non RCRA Hazardous Waste Solid (lead & copper)	78,320	29,900	48,420	24.21	Lutrel Trucking	CAD083003699	SP75745	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659082	00484	Non RCRA Hazardous Waste Solid (lead & copper)	76,160	29,020	47,140	23.57	Lutrel Trucking	CAD083003699	SP75744	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659083	00485	Non RCRA Hazardous Waste Solid (lead & copper)	79,860	29,940	49,920	24.96	Bolt Transportation	CAR000066621	R1X C90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659084	00486	Non RCRA Hazardous Waste Solid (lead & copper)	81,680	30,200	51,480	25.74	Camacho Transportation	CAR000089409	9B85600	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659085	00487	Non RCRA Hazardous Waste Solid (lead & copper)	78,300	30,440	47,860	23.93	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659086	00488	Non RCRA Hazardous Waste Solid (lead & copper)	77,300	33,380	43,920	21.96	ECI	CAD982030173	9B47442	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659087	00489	Non RCRA Hazardous Waste Solid (lead & copper)	75,440	32,880	42,560	21.28	ECI	CAD982030173	SP78755	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659088	00490	Non RCRA Hazardous Waste Solid (lead & copper)	75,480	30,360	45,120	22.56	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659089	00491	Non RCRA Hazardous Waste Solid (lead & copper)	80,060	30,440	49,620	24.81	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659090	00492	Non RCRA Hazardous Waste Solid (lead & copper)	80,480	30,040	50,440	25.22	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659091	00493	Non RCRA Hazardous Waste Solid (lead & copper)	84,860	29,240	55,620	27.81	Bolt Transportation	CAR000066621	A7149437	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659092	00494	Non RCRA Hazardous Waste Solid (lead & copper)	78,920	30,220	48,700	24.35	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659093	00495	Non RCRA Hazardous Waste Solid (lead & copper)	79,420	30,080	49,340	24.67	Bolt Transportation	CAR000066621	NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/5/2001	20659094	00496	Non RCRA Hazardous Waste Solid (lead & copper)	82,340	30,660	51,680	25.84	Bolt Transportation	CAR000066621	PGZ 447 OR	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR FEBRUARY 5, 2001 D1/D3				**1,504,680**	**580,180**	**924,500**	**462.25**					
2/6/2001	20659095	00497	Non RCRA Hazardous Waste Solid (lead & copper)	77,820	33,160	44,660	22.33	L & H Consulting	CAD982322570	9A71652	Chemical Waste Management Kettleman Hills Facility	CAT000646116
2/6/2001	20659096	00498	Non RCRA Hazardous Waste Solid (lead & copper)	86,980	34,300	52,680	26.34	T & B	CAL000209862	9B81951	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659097	00499	Non RCRA Hazardous Waste Solid (lead & copper)	87,540	35,660	51,880	25.94	Mike Hester Trucking	CAR000087114	9B70102	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659098	00500	Non RCRA Hazardous Waste Solid (lead & copper)	74,180	33,200	40,980	20.49	GEORGE Lima	CAL000221680	9B35171	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659099	00501	Non RCRA Hazardous Waste Solid (lead & copper)	79,440	33,560	45,880	22.94	Vega Trucking	CAR000089052	9B58812	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659100	00502	Non RCRA Hazardous Waste Solid (lead & copper)	78,880	30,000	48,880	24.44	Lutrel Trucking	CAD083003699	SP77270	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659101	00503	Non RCRA Hazardous Waste Solid (lead & copper)	79,800	30,820	48,980	24.49	Lutrel Trucking	CAD083003699	SP77269	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659102	00504	Non RCRA Hazardous Waste Solid (lead & copper)	79,480	30,520	48,960	24.48	Lutrel Trucking	CAD083003699	SP77271	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659103	00505	Non RCRA Hazardous Waste Solid (lead & copper)	76,920	29,820	47,100	23.55	Bolt Transportation	CAR000066621	R1XC90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
2/6/2001	20659104	00506	Non RCRA Hazardous Waste Solid (lead & copper)	81,560	33,480	48,080	24.04	ECI	CAD982030173	9B47439	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659105	00507	Non RCRA Hazardous Waste Solid (lead & copper)	78,200	33,080	45,120	22.56	ECI	CAD982030173	SP78755	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659106	00508	Non RCRA Hazardous Waste Solid (lead & copper)	77,980	29,840	48,140	24.07	Lutrel Trucking	CAD083003699	SP75745	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659107	00509	Non RCRA Hazardous Waste Solid (lead & copper)	75,520	35,160	40,360	20.18	Jeff Fields Trucking	CAR00089391	TP03116	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659108	00510	Non RCRA Hazardous Waste Solid (lead & copper)	82,080	29,380	52,700	26.35	Lutrel Trucking	CAD083003699	SP75744	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659109	00511	Non RCRA Hazardous Waste Solid (lead & copper)	76,940	30,680	46,260	23.13	Jairo Gomboa	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20659000	00512	Non RCRA Hazardous Waste Solid (lead & copper)	81,020	34,540	46,480	23.24	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658999	00513	Non RCRA Hazardous Waste Solid (lead & copper)	79,980	29,920	50,060	25.03	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658998	00514	Non RCRA Hazardous Waste Solid (lead & copper)	80,320	30,080	50,240	25.12	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658997	00515	Non RCRA Hazardous Waste Solid (lead & copper)	77,520	30,020	47,500	23.75	Gary Boreham Trucking	CAL000213883	3W40916	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658996	00516	Non RCRA Hazardous Waste Solid (lead & copper)	80,100	30,280	49,820	24.91	Camacho Transportation	CAR000089409	9B85600	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658995	00517	Non RCRA Hazardous Waste Solid (lead & copper)	81,020	29,040	51,980	25.99	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658994	00518	Non RCRA Hazardous Waste Solid (lead & copper)	81,400	30,020	51,380	25.69	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658993	00519	Non RCRA Hazardous Waste Solid (lead & copper)	78,960	30,020	48,940	24.47	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658992	00520	Non RCRA Hazardous Waste Solid (lead & copper)	79,260	30,000	49,260	24.63	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658991	00521	Non RCRA Hazardous Waste Solid (lead & copper)	79,360	30,400	48,960	24.48	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658990	00522	Non RCRA Hazardous Waste Solid (lead & copper)	79,080	32,060	47,020	23.51	KVS Transportation	CAD982495608	SP61661	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658989	00523	Non RCRA Hazardous Waste Solid (lead & copper)	80,620	30,120	50,500	25.25	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658988	00524	Non RCRA Hazardous Waste Solid (lead & copper)	75,620	29,380	46,240	23.12	Bolt Transportation	CAR000066620	NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658987	00525	Non RCRA Hazardous Waste Solid (lead & copper)	76,540	30,020	46,520	23.26	Bolt Transportation	CAR000066621	PGZ 447 OR	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658986	00526	Non RCRA Hazardous Waste Solid (lead & copper)	78,320	32,300	46,020	23.01	ADS Trucking	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/6/2001	20658985	00527	Non RCRA Hazardous Waste Solid (lead & copper)	78,180	34,340	43,840	21.92	ADS Trucking	CAD057335333	9A65834	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR FEBRUARY 6, 2001 D3/C5				**2,460,620**	**975,200**	**1,485,420**	**742.71**					
2/7/2001	20658984	00528	Non RCRA Hazardous Waste Solid (lead & copper)	90,900	34,120	56,780	28.39	RL Johnson	CAL000209853	9B6J324	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658983	00529	Non RCRA Hazardous Waste Solid (lead & copper)	89,640	31,320	58,320	29.16	Pacheos Trucking	CAL000212367	9B21797	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
2/7/2001	20658982	00530	Non RCRA Hazardous Waste Solid (lead & copper)	80,800	30,800	50,000	25.00	Jaico Gamboa Trucking	CAL000217084	9B74261	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658981	00531	Non RCRA Hazardous Waste Solid (lead & copper)	84,320	34,260	50,060	25.03	T & B	CAL000209862	PB81951	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658980	00532	Non RCRA Hazardous Waste Solid (lead & copper)	72,320	33,280	39,040	19.52	GE Lima	CAL000221680	9B35171	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658979	00533	Non RCRA Hazardous Waste Solid (lead & copper)	81,160	35,560	45,600	22.80	Mike Hester Trucking	CAR0087114	9B70201	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658978	00534	Non RCRA Hazardous Waste Solid (lead & copper)	76,220	33,460	42,760	21.38	Vega Trucking	CAR000089052	9B58812	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658977	00535	Non RCRA Hazardous Waste Solid (lead & copper)	75,500	33,900	41,600	20.80	M & K Trucking	CAR000089383	NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658976	00536	Non RCRA Hazardous Waste Solid (lead & copper)	78,380	35,200	43,180	21.59	Jeff Fields Trucking	CAR000089391	TP03116	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658975	00537	Non RCRA Hazardous Waste Solid (lead & copper)	78,880	30,100	48,780	24.39	Camacho Transportation	CAR000089409	9B85600	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658974	00538	Non RCRA Hazardous Waste Solid (lead & copper)	77,160	34,280	42,880	21.44	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658973	00539	Non RCRA Hazardous Waste Solid (lead & copper)	75,420	30,040	45,380	22.69	Lutrel Trucking	CAD083003699	SP77270	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658972	00540	Non RCRA Hazardous Waste Solid (lead & copper)	77,700	30,800	46,900	23.45	Lutrel Trucking	CAD083003699	SP77269	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658971	00541	Non RCRA Hazardous Waste Solid (lead & copper)	77,980	29,780	48,200	24.10	Lutrel Trucking	CAD083003699	SP75744	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658970	00542	Non RCRA Hazardous Waste Solid (lead & copper)	78,660	31,180	47,480	23.74	Lutrel Trucking	CAD083003699	9B07682	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658969	00543	Non RCRA Hazardous Waste Solid (lead & copper)	76,000	29,100	46,900	23.45	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658968	00544	Non RCRA Hazardous Waste Solid (lead & copper)	78,460	30,160	48,300	24.15	Bolt Transportation	CAR000066621	R1X C90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658967	00545	Non RCRA Hazardous Waste Solid (lead & copper)	77,860	30,560	47,300	23.65	Bolt Transportation	CAR000066621	NEW TRUCK	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658966	00546	Non RCRA Hazardous Waste Solid (lead & copper)	77,200	33,380	43,820	21.91	ECI	CAD982030173	9B47442	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658965	00547	Non RCRA Hazardous Waste Solid (lead & copper)	74,720	32,460	42,260	21.13	ECI	CAD982030173	SP78755	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658964	00548	Non RCRA Hazardous Waste Solid (lead & copper)	78,180	30,540	47,640	23.82	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658963	00549	Non RCRA Hazardous Waste Solid (lead & copper)	74,140	30,400	43,740	21.87	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658962	00550	Non RCRA Hazardous Waste Solid (lead & copper)	78,320	29,800	48,520	24.26	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658961	00551	Non RCRA Hazardous Waste Solid (lead & copper)	74,920	29,960	44,960	22.48	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658960	00552	Non RCRA Hazardous Waste Solid (lead & copper)	78,000	30,360	47,640	23.82	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658959	00553	Non RCRA Hazardous Waste Solid (lead & copper)	77,260	30,200	47,060	23.53	KVS Transportation	CAD982495608	SP61663	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658958	00554	Non RCRA Hazardous Waste Solid (lead & copper)	77,640	30,060	47,580	23.79	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
2/7/2001	20658957	00555	Non RCRA Hazardous Waste Solid (lead & copper)	79,420	30,460	48,960	24.48	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658956	00556	Non RCRA Hazardous Waste Solid (lead & copper)	73,840	31,640	42,200	21.10	KVS Transportation	CAD982495608	SP61661	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658955	00557	Non RCRA Hazardous Waste Solid (lead & copper)	90,540	32,860	57,680	28.84	Denbeste	CAL000209887	HJP	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658954	00558	Non RCRA Hazardous Waste Solid (lead & copper)	96,100	34,500	61,600	30.80	Perez Transportation	CAL000209887		Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658953	00559	Non RCRA Hazardous Waste Solid (lead & copper)	80,200	30,300	49,900	24.95	Bolt Transportation	CAR000066621	PGZ 447 OR	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658920	00560	Non RCRA Hazardous Waste Solid (lead & copper)	75,520	32,520	43,000	21.50	Den Beste Trucking	CAL000220262	NEW	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658919	00561	Non RCRA Hazardous Waste Solid (lead & copper)	73,980	33,840	40,140	20.07	Sandhu Trucking	CAL0000224649	SP70839	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/7/2001	20658918	00562	Non RCRA Hazardous Waste Solid (lead & copper)	79,180	31,400	47,780	23.89	H McAbee & Sons	CAR000059998	9B20877	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR FEBRUARY 7, 2001 C5				**2,766,520**	**1,112,580**	**1,653,940**	**826.97**					
2/8/2001	20658917	00563	Non RCRA Hazardous Waste Solid (lead & copper)	83,280	34,120	49,160	24.58	R.L. Johnson	CAL000209853	9B65324	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658948	00564	Non RCRA Hazardous Waste Solid (lead & copper)	79,140	30,340	48,800	24.40	Camacho Transportation	CAR000089409	9B85600	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658947	00565	Non RCRA Hazardous Waste Solid (lead & copper)	80,720	31,080	49,640	24.82	Aro Trucking	CAR000045963	6D29367	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658946	00566	Non RCRA Hazardous Waste Solid (lead & copper)	86,740	30,340	56,400	28.20	Karo's Trucking	CAR000045955	9A55747	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658945	00567	Non RCRA Hazardous Waste Solid (lead & copper)	91,140	33,240	57,900	28.95	T & B	CAL000209862	9B81951	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658944	00568	Non RCRA Hazardous Waste Solid (lead & copper)	90,000	34,860	55,140	27.57	Mike Hester Trucking	CAR000087114	9B70102	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658943	00569	Non RCRA Hazardous Waste Solid (lead & copper)	85,660	34,360	51,300	25.65	Jeff Fields Trucking	CAR000089391	TP03116	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658942	00570	Non RCRA Hazardous Waste Solid (lead & copper)	77,140	29,420	47,720	23.86	Lutrel Trucking	CAD083003699	SP75744	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658941	00571	Non RCRA Hazardous Waste Solid (lead & copper)	80,380	29,100	51,280	25.64	Kent Bowser	CAL000212479	9A94206	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658940	00572	Non RCRA Hazardous Waste Solid (lead & copper)	75,080	32,740	42,340	21.17	GE Lima	CAL000221680	9B35171	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658939	00573	Non RCRA Hazardous Waste Solid (lead & copper)	78,360	30,060	48,300	24.15	Lutrel Trucking	CAD083003699	SP77270	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658938	00574	Non RCRA Hazardous Waste Solid (lead & copper)	75,780	32,580	43,200	21.60	Lutrel Trucking	CAD083003699	SP27053	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658937	00575	Non RCRA Hazardous Waste Solid (lead & copper)	79,580	30,720	48,860	24.43	Lutrel Trucking	CAD083003699	SP77269	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658936	00576	Non RCRA Hazardous Waste Solid (lead & copper)	76,040	31,440	44,600	22.30	Lutrel Trucking	CAD083003699	9B80642	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658935	00577	Non RCRA Hazardous Waste Solid (lead & copper)	80,340	28,280	52,060	26.03	Aro Trucking	CAR000045963	9B84063	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658934	00578	Non RCRA Hazardous Waste Solid (lead & copper)	79,720	31,960	47,760	23.88	Sandoval Trucking	CAR000045872	9A86557	Chemical Waste Management Kettleman Hills Facility	CAT000646117

TABLE 17

SUMMARY OF NON-RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
2/8/2001	20658933	00579	Non RCRA Hazardous Waste Solid (lead & copper)	80,400	30,180	50,220	25.11	Navarro Trucking	CAR000045948	9A93417	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658932	00580	Non RCRA Hazardous Waste Solid (lead & copper)	83,220	34,100	49,120	24.56	Art's Disposal	CAD057335333	9A65834	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658931	00581	Non RCRA Hazardous Waste Solid (lead & copper)	78,320	29,740	48,580	24.29	Bolt Transportation	CAR000066621	R1X C90 TX	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658930	00582	Non RCRA Hazardous Waste Solid (lead & copper)	78,120	34,260	43,860	21.93	Art's Disposal	CAD057335333	9A65889	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658929	00583	Non RCRA Hazardous Waste Solid (lead & copper)	79,100	32,820	46,280	23.14	ECI	CAD982030173	SP78755	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658928	00584	Non RCRA Hazardous Waste Solid (lead & copper)	75,660	33,120	42,540	21.27	ECI	CAD982030173	9B47439	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658927	00585	Non RCRA Hazardous Waste Solid (lead & copper)	82,060	29,840	52,220	26.11	KVS Transportation	CAD982495608	SP78773	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658926	00586	Non RCRA Hazardous Waste Solid (lead & copper)	80,880	30,740	50,140	25.07	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658925	00587	Non RCRA Hazardous Waste Solid (lead & copper)	80,180	30,240	49,940	24.97	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658924	00588	Non RCRA Hazardous Waste Solid (lead & copper)	75,220	31,020	44,200	22.10	KVS Transportation	CAD982495608	SP61661	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658923	00589	Non RCRA Hazardous Waste Solid (lead & copper)	80,400	28,900	51,500	25.75	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658916	00590	Non RCRA Hazardous Waste Solid (lead & copper)	81,760	30,780	50,980	25.49	KVS Transportation	CAD982495608	SP77630	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658915	00591	VOID	0	0	0	0.00				Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658914	00592	Non RCRA Hazardous Waste Solid (lead & copper)	81,200	30,140	51,060	25.53	KVS Transportation	CAD982495608	SP78894	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658913	00593	Non RCRA Hazardous Waste Solid (lead & copper)	79,800	30,700	49,100	24.55	Bolt Transportation	CAR000066621	PGZ 447 OR	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/8/2001	20658912	00594	Non RCRA Hazardous Waste Solid (lead & copper)	78,040	32,500	45,540	22.77	ADS Trucking	CAD057335333	9B07070	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR FEBRUARY 8, 2001 C5				**2,493,460**	**973,720**	**1,519,740**	**759.87**					
2/9/2001	20658911	00595	Non RCRA Hazardous Waste Solid (lead & copper)	76,540	30,040	46,500	23.25	KVS Transportation	CAD982495608	SP77726	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/9/2001	20658910	00596	Non RCRA Hazardous Waste Solid (lead & copper)	76,740	29,900	46,840	23.42	KVS Transportation	CAD982495608	SP61942	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/9/2001	20658909	00597	Non RCRA Hazardous Waste Solid (lead & copper)	75,760	29,540	46,220	23.11	KVS Transportation	CAD982495608	SP61753	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/9/2001	20658908	00598	Non RCRA Hazardous Waste Solid (lead & copper)	77,600	29,700	47,900	23.95	KVS Transportation	CAD982495608	SP78895	Chemical Waste Management Kettleman Hills Facility	CAT000646117
2/9/2001	20658907	00599	Non RCRA Hazardous Waste Solid (lead & copper)	83,440	30,380	53,060	26.53	KVS Transportation	CAD982495608	SP77871	Chemical Waste Management Kettleman Hills Facility	CAT000646117
TOTAL FOR FEBRUARY 9, 2001 C5				**390,080**	**149,560**	**240,520**	**120.26**					
			TOTALS	**46,997,890**	**18,740,780**	**28,257,110**	**14,128.56**					

TABLE 18

SUMMARY OF RCRA CONTAMINATED SOIL VOLUMES

Date	Man. No.	Man. Doc. No.	Description	Net Wt (Pounds)	Tonnage (Tons)	Transporation Name	Transportation EPA No.	Truck License No.	Facility Name	Facility ID
1/25/2001	99710988	D1001	RQ, RCRA Hazardous Waste Solid	54060	27.03	D& S Trucking	CAR000045443		US Ecology	NVT330010000
1/25/2001	99710989	D1002	RQ, RCRA Hazardous Waste Solid	51700	25.85	Morales Trucking	CAD981650609	TP03110	US Ecology	NVT330010000
1/25/2001	99710990	D1003	RQ, RCRA Hazardous Waste Solid	49980	24.99	Delgado Trucking	CAD000069765	SP87748	US Ecology	NVT330010000
1/25/2001	99710991	D1004	RQ, RCRA Hazardous Waste Solid	47960	23.98	JW Trucking	CAD981413834	SP90777	US Ecology	NVT330010000
1/25/2001	99710992	D1005	RQ, RCRA Hazardous Waste Solid	52020	26.01	Vega Trucking	CAR00036160	SP62977	US Ecology	NVT330010000
TOTAL FOR JANUARY 25, 2001 C2/D1/D2				**255720**	127.86					
1/26/2001	99710993	D1006	RQ, RCRA Hazardous Waste Solid	46720	23.36	CL Teschendorf	CAD981167315	SP11940	US Ecology	NVT330010000
1/26/2001	99710994	D1007	RQ, RCRA Hazardous Waste Solid	42960	21.48	A & J Environmental	CAD982491896	SP82950	US Ecology	NVT330010000
1/26/2001	99710995	D1008	RQ, RCRA Hazardous Waste Solid	51860	25.93	Morales Trucking	CAD981650609	POT3110	US Ecology	NVT330010000
1/26/2001	99710996	D1009	RQ, RCRA Hazardous Waste Solid	52800	26.40	D & S Trucking	CAR000045443	SP62614	US Ecology	NVT330010000
1/26/2001	99710997	D1010	RQ, RCRA Hazardous Waste Solid	49080	24.54	Vega Trucking	CAR000036160	SP62977	US Ecology	NVT330010000
1/26/2001	99710998	D1011	RQ, RCRA Hazardous Waste Solid	51220	25.61	Delgado Trucking	CAR000069765	SP87748	US Ecology	NVT330010000
1/26/2001	99710999	D1012	RQ, RCRA Hazardous Waste Solid	52820	26.41	Mc Donald	CAD983616202	SP58855	US Ecology	NVT330010000
1/26/2001	99711000	D1013	RQ, RCRA Hazardous Waste Solid	48860	24.43	Kal Trucking	CAL000225710	SP9899528	US Ecology	NVT330010000
1/26/2001	99711001	D1014	RQ, RCRA Hazardous Waste Solid	49260	24.63	Delgado Trucking	CAR000069765	SP90777	US Ecology	NVT330010000
TOTAL FOR JANUARY 25, 2001 D2				**445580**	222.79					
1/29/2001	99711002	D1015	RQ, RCRA Hazardous Waste Solid	53760	26.88	CL Teschendorf	CAD981167315	SP11940	US Ecology	NVT330010000
1/29/2001	99711003	D1016	RQ, RCRA Hazardous Waste Solid	53600	26.80	D& S Trucking	CAR000045443	SP62604	US Ecology	NVT330010000
1/29/2001	99711004	D1017	RQ, RCRA Hazardous Waste Solid	59120	29.56	Vega Trucking	CAR000036160	SP62977	US Ecology	NVT330010000
1/29/2001	99711005	D1018	RQ, RCRA Hazardous Waste Solid	56560	28.28	A & J Environmental	CAD982491896	SP82950	US Ecology	NVT330010000
1/29/2001	99711006	D1019	RQ, RCRA Hazardous Waste Solid	51940	25.97	Mc Donald	CAD983616202	SP58855	US Ecology	NVT330010000
1/29/2001	99711018	D1020	RQ, RCRA Hazardous Waste Solid	50700	25.35	Kal Trucking	CAL000221057	9899528	US Ecology	NVT330010000
1/29/2001	99711019	D1021	RQ, RCRA Hazardous Waste Solid	53840	26.92	Delgado Trucking	CAR000069765	SP87948	US Ecology	NVT330010000
1/29/2001	99711020	D1022	RQ, RCRA Hazardous Waste Solid	52800	26.40	Delgado Trucking	CAR000069765	SP90777	US Ecology	NVT330010000
TOTAL FOR JANUARY 29, 2001 D2				**432320**	216.16					
TOTAL				**1133620**	566.81					

TABLE 19

SUMMARY OF NON-RCRA CONTAMINATED WASTE DEBRIS

Date	Man. No.	Man. Doc. No.	Description	Gross Wt (Pounds)	Tare Wt (Pounds)	Net Wt (Pounds)	Tonnage (Tons)	Transp. Name	Transp. EPA No.	Truck Lic. No.	Facility Name	Facility ID
4/3/01	CA6170023109DEB01	20720007	Non RCRA Hazardous Waste Solid	54,360	37,380	16,980	8.49	Sandoval	CAR000045872	9A86557	Chemical Waste Management	CAT000646117
4/3/01	CA6170023109DEB02	20720008	Non RCRA Hazardous Waste Solid	59,280	37,540	21,740	10.87	ARO TK'N	CAR000045963	TP02330	Chemical Waste Management	CAT000646117
TOTAL FOR 4/3/01				**113,640**	**74,920**	**38,720**	**19.36**					
4/4/01	CA6170023109DEB03	20720009	Non RCRA Hazardous Waste Solid	69260	33040	36,220	18.11	Denbeste	CAD982513632	SP53984	Chemical Waste Management	CAT000646117
TOTAL FOR 4/4/01				**69,260**	**33,040**	**36,220**	**18.11**					
4/5/01	CA6170023109DEB04	20720010	Non RCRA Hazardous Waste Solid	49460	33780	15,680	7.84	Denbeste	CAD982513632	SP44478	Chemical Waste Management	CAT000646117
4/5/01	CA6170023109DEB05	20720011	Non RCRA Hazardous Waste Solid	70180	33020	37,160	18.58	Denbeste	CAD982513632	SP53984	Chemical Waste Management	CAT000646117
4/5/01	CA6170023109DEB06	20720012	Non RCRA Hazardous Waste Solid	62360	34520	27,840	13.92	Rust & Sons	CAD981634116	IIE 310	Chemical Waste Management	CAT000646117
Void	CA6170023109DEB07	20720013	Void	Void	Void	Void	Void	Void	Void	Void	Void	Void
4/5/01	CA6170023109DEB08	20720014	Non RCRA Hazardous Waste Solid	65660	33320	32,340	16.17	Denbeste	CAD982513632	SP44478	Chemical Waste Management	CAT000646117
4/5/01	CA6170023109DEB09	20720015	Non RCRA Hazardous Waste Solid	73300	32940	40,360	20.18	Denbeste	CAD982513632	SP53984	Chemical Waste Management	CAT000646117
TOTAL FOR 4/5/01				**320,960**	**167,580**	**153,380**	**76.69**					
4/9/01	CA6170023109DEB10	20720016	Non RCRA Hazardous Waste Solid	56060	32500	23,560	11.78	Rodriquez	CAR000045930	9C45497	Chemical Waste Management	CAT000646117
4/9/01	CA6170023109DEB11	20723166	Non RCRA Hazardous Waste Solid	73320	31380	41,940	20.97	Rodriquez	CAR000045930	9B01763	Chemical Waste Management	CAT000646117
TOTAL FOR 4/9/01				**129,380**	**63,880**	**65,500**	**32.75**					
4/11/01	CA6170023109DEB12	20723165	Non RCRA Hazardous Waste Solid	70420	32200	38,220	19.11	Denbeste	CAD982513632	SP44562	Chemical Waste Management	CAT000646117
4/11/01	CA6170023109DEB13	20723164	Non RCRA Hazardous Waste Solid	57000	33240	23,760	11.88	Denbeste	CAD982513632	SP44478	Chemical Waste Management	CAT000646117
TOTAL FOR 4/11/01				**127,420**	**65,440**	**61,980**	**30.99**					
4/12/01	CA6170023109DEB14	20723163	Non RCRA Hazardous Waste Solid	60060	32160	27,900	13.95	Denbeste	CAD982513632	SP99211	Chemical Waste Management	CAT000646117
4/12/01	CA6170023109DEB15	20723162	Non RCRA Hazardous Waste Solid	62480	32600	29,880	14.94	Denbeste	CAD982513632	SP44562	Chemical Waste Management	CAT000646117
TOTAL FOR 4/12/01				**122,540**	**64,760**	**57,780**	**28.89**					
4/13/01	CA6170023109DEB16	20723161	Non RCRA Hazardous Waste Solid	55840	31680	24,160	12.08	Denbeste	CAD982513632	SP99211	Chemical Waste Management	CAT000646117
4/13/01	CA6170023109DEB17	20723160	Non RCRA Hazardous Waste Solid	61580	32480	29,100	14.55	Denbeste	CAD982513632	SP44562	Chemical Waste Management	CAT000646117
TOTAL FOR 4/13/01				**117,420**	**64,160**	**53,260**	**26.63**					
4/16/01	CA6170023109DEB18	20723159	Non RCRA Hazardous Waste Solid	61160	33200	27,960	13.98	Denbeste	CAD982513632	SP44598	Chemical Waste Management	CAT000646117
4/16/01	CA6170023109DEB19	20723158	Non RCRA Hazardous Waste Solid	62540	32820	29,720	14.86	Denbeste	CAD982513632	SP44562	Chemical Waste Management	CAT000646117
4/16/01	CA6170023109DEB20	20723157	Non RCRA Hazardous Waste Solid	62720	33020	29,700	14.85	Denbeste	CAD982513632	SP53984	Chemical Waste Management	CAT000646117
TOTAL FOR 4/16/01				**186,420**	**99,040**	**87,380**	**43.69**					
5/24/01	CA6170023109DEB21	20720000	Non RCRA Hazardous Waste Solid	42520	36180	6,340	3.17	Lutrel Trk	CAD083003699	SP75647	Chemical Waste Management	CAT000646117
TOTAL FOR 5/24/01				**42,520**	**36,180**	**6,340**	**3.17**					
TOTALS FOR ALL DATES				**1,229,560**	**669,000**	**560,560**	**280.28**					