

CONTAMINATED MEDIA MANAGEMENT PLAN WEST PROPERTY - TASS 2 SITE 10505 NORTH PORTLAND ROAD PORTLAND, OREGON

by Haley & Aldrich, Inc. Portland, Oregon

for City of Portland, Bureau of Environmental Services, TASS Program, and Brownfield Program Portland, Oregon

File No. 0209772-001 May 2024



HALEY & ALDRICH, INC. 6420 S. Macadam Avenue Suite 100 Portland, OR 97239-3517 503.620.7284

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City of Portland, Bureau of Environmental Services 1120 SW 5th Avenue Portland, Oregon 97204

Attention: Taryn Meyer

Subject: Contaminated Media Management Plan

West Property - TASS 2 Site 10505 North Portland Road

Portland, Oregon

Dear Taryn:

Haley & Aldrich, Inc. (Haley & Aldrich) is pleased to provide this Contaminated Media Management Plan (CMMP) for the West Property - TASS 2 Site (site) located at 10505 North Portland Road in Portland, Oregon. This document has been developed for the construction of an RV and Pod shelter for the Temporary Alternative Shelter Sites (TASS) program within the City of Portland (City) Mayor's office. The City Brownfield Program is providing US Environmental Protection Agency (EPA) grant funding for this project. These services are being provided through the City Bureau of Environmental Services (BES) Coordinated Site Assessment programs environmental on-call contract #31001878 with Haley & Aldrich. During construction of the TASS 2, BES personnel and/or TASS contractors may encounter soil impacted with low concentrations of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), pesticides, and metals. This CMMP has been prepared for use by BES and/or their contractors during field activities to assist with the proper management of affected media during construction.

Sincerely yours,

HALEY & ALDRICH, INC.

Kevin Woodhouse Project Manager

Enclosures

Jennifer Casler

Client Account Manager

Jennifu an Custer





SIGNATURE PAGE FOR

REPORT ON

CONTAMINATED MEDIA MANAGEMENT PLAN
WEST PROPERTY - TASS 2 SITE
10505 NORTH PORTLAND ROAD
PORTLAND, OREGON

PREPARED FOR

CITY OF PORTLAND, BUREAU OF ENVIRONMENTAL SERVICES PORTLAND, OREGON

PREPARED BY:

Kevin Woodhouse Project Manager Haley & Aldrich, Inc.

REVIEWED AND APPROVED BY:

Jennifer Casler

Client Account Manager Haley & Aldrich, Inc.

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List of Abbreviations

Abbreviation	Definition
°C	degrees Celsius
BES	Bureau of Environmental Services (City of Portland)
bgs	below ground surface
BMP	best management practice
BUD	Beneficial Use Determination
CFR	Code of Federal Regulations
CMMP	Contaminated Media Management Plan
DEQ	Department of Environmental Quality (State of Oregon)
ECSI	Environmental Cleanup Site Information
ESCP	Erosion and Sedimentation Control Plan
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
IDW	investigation-derived waste
μg/kg	micrograms per kilogram
mg/kg	milligrams per kilogram
msl	mean sea level
NELAP	National Environmental Laboratory Accreditation Program
NFA	No Further Action
NIOSH	National Institute for Occupational Safety and Health
NPDES	National Pollution Discharge Elimination System
OAR	Oregon Administrative Rules
ORELAP	Oregon Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PNG	PNG Environmental, Inc.
RAP	Remedial Action Plan
RBC	Risk-Based Concentration
RCRA	Resource Conservation and Recovery Act
ROW	right-of-way
RV	recreational vehicle
site	West Property - TASS 2 Site, 10505 North Portland Road, Portland, Oregon
SL	Screening Level
SVOC	semi-volatile organic compound
TASS	Temporary Alternative Shelter Site
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOC	volatile organic compound



1. Introduction

This Contaminated Media Management Plan (CMMP) presents information and guidance for City of Portland (City) Bureau of Environmental Services (BES) personnel and contractors to identify and appropriately manage potentially contaminated soil during future earthwork-related activities at the West Property - Temporary Alternative Shelter Site (TASS) 2 development in Portland, Oregon (referred to as the "site"; Figure 1). This plan includes information on the proper identification, management, removal, temporary storage, transportation, and disposal of potentially contaminated soil that may be encountered during earthwork activities at the site. This CMMP was funded through the City Brownfield Program with federal grant money provided by the US Environmental Protection Agency (EPA).

2. Purpose

The purpose of this CMMP is to provide protocols for identifying and managing potentially contaminated soil that may be encountered during future earthwork activities at the site. Based on the results of previous environmental assessments conducted at the site, soil may contain concentrations of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), pesticides, and metals, including arsenic, cadmium, chromium, copper, mercury, and lead.

In addition to this CMMP, any redevelopment activities are subject to best management practices (BMPs) prescribed by permits, plans, and specifications, and adherence to regulations and requirements of local, state, and federal agencies.

3. Site Description

The site is located at 10505 North Portland Road in Portland, Oregon (Figure 1) and is located on the east portion of tax lot 1000 of Multnomah County tax map 1N1E05B. Tax lot 1000 was previously referred to as the Former North Larsen Property and is currently called the West Property because it is situated west of the City Columbia Boulevard Wastewater Treatment Plant (WWTP), and the future long-term use for this property is for the expansion of the WWTP. The West Property includes the current planned footprint of a proposed TASS 2 facility, which is an approximately 6-acre portion of the West Property. This CMMP discusses only the activities and results of investigations conducted within the boundary and perimeter of the planned development of the TASS 2 site. The site is currently developed with gravel parking and storage areas. The West Property is bordered by industrial properties to the west (Columbia Steel) and south (Truck Repair Enterprise), North Portland Road to the east, and the Columbia Slough to the north. Access to the site is through an unnamed road along the southern boundary of the site. The approximate limits of the site and surrounding area are shown on the BES site plan included in Appendix A.



4. Planned Redevelopment

The City intends to construct the TASS 2 facility within the West Property. Environmental services in preparation for construction of the TASS 2 site are being funded using EPA Brownfield Grant funding. Preliminary plans indicate that TASS 2 will consist of RV storage areas; car parking areas; mobile manufactured housing pods; tents for common areas including kitchen areas, trash areas, picnic areas, and gathering areas; and sewage and stormwater infrastructure. Except for stormwater swales and a small, forested area along the east boundary of the site, the entirety of the site will be paved following the completion of construction activities. Sewage infrastructure will likely consist of a series of subsurface sewage treatment tanks connected to above-ground holding tanks that will be periodically pumped out and the sewage properly disposed of off site. Surface grading will slope the site slightly downward to the north, so that surface water at the site will flow toward a curb along the northern edge of the pavement near the north boundary of the site. Stormwater will flow through curb openings to lined stormwater swales along the northern boundary of the site. The lined stormwater swales will discharge to an oil/water separator, which will ultimately discharge to the City of Portland storm sewer system. Preliminary development plans are included in Appendix B.

Ground-disturbing activities will generally be limited to surface grading of imported gravel fill, installation of subsurface utility lines, subsurface wastewater and stormwater infrastructure, fencing, and surface improvements (i.e., walkways, parking areas, common areas, etc.). The specific locations of these excavations have not yet been determined. Excavations of up to 9 feet below ground surface (bgs) will be required to install septic treatment tanks near the southeast portion of the site. Excavations deeper than 9 feet bgs are not anticipated. Excavations to install the septic treatment tanks will be conducted during periods of dry weather to minimize surface water runoff entering the excavations. As discussed below in Section 5.2, groundwater beneath the site is generally present at depths of between 18 and 21 feet bgs, except for an area of perched groundwater observed in former monitoring well MW-3, located near the center of the site. Perched groundwater was encountered at a depth of 10.7 feet bgs in former well MW-3, below the maximum planned excavation depth. Therefore, dewatering during construction is not anticipated. Preliminary septic plans are included in Appendix B.

Prior to installation of TASS 2 facilities, the entirety of the TASS 2 site except for the lined stormwater swales and a forested area near the south boundary of the site will be capped with a minimum of 8 inches of imported aggregate base rock fill underlying a minimum of 4 inches of asphalt paving. A demarcation layer consisting of geotextile fabric will be installed prior to the placement of the aggregate base rock and asphalt cap. The geotextile fabric demarcation layer will identify the boundary between contaminated soil and overlying clean capping materials, isolating contamination from human or ecological contact. The planned project will prevent direct contact of underlying soil by future site occupants and eliminate exposure to the generally low concentrations of contaminants in surface soil. In addition to this CMMP, the TASS 2 development will be conducted in accordance with a forthcoming Remedial Action Plan (RAP) for the TASS 2 development.

5. Background

A discussion of the site history, geology and hydrology, and previous environmental investigations is presented in the following sections.



5.1 SITE HISTORY

Based on information obtained from the Oregon Department of Environmental Quality (DEQ), the West Property, which includes the TASS 2 site, operated as an industrial site since at least the 1940s, including use as a shingle mill, a boat manufacture and repair facility, for materials storage, welding, diesel engine repair and rebuilding, and as a tank-truck washing facility. The West Property is currently vacant. The Columbia Slough adjoins the northern boundary of the West Property. The West Property was listed on the DEQ Environmental Cleanup Site Information (ECSI) database (ECSI No. 0186) because of the presence or suspected presence of metals, polychlorinated biphenyls (PCBs), and petroleum hydrocarbons and associated constituents in soil and/or groundwater. Contamination present on-site resulted from historical practices that included discharge of wastewaters to on-site ponds, product spillage, leaking underground storage tanks (USTs), contaminated stormwater runoff, as well as contaminants released to an on-site drywell.

Historically, the primary environmental concern for the West Property was groundwater contamination from a solvent plume migrating from the adjacent South Larsen site (ECSI No. 3337). Other potential historical sources on site include historical truck washing, historical diesel truck repair, and a former UST as shown on the BES figure included in Appendix A. BES installed several monitoring wells and conducted several monitoring events to determine if groundwater contamination from the South Larsen site was migrating to the West Property. Groundwater was encountered in the monitoring well located closest to the unnamed road separating the two sites at depths of between 35 to 60 feet bgs.

TASS 2 structures at the site will be mobile or temporary in nature, i.e., they will be driven on site and supported on axels, support struts, or will be skid mounted units deposited at the site. As a result, all TASS 2 structures will be air gapped and not in direct contact with the ground surface (i.e., structures will have airspace of between approximately 5 to 6 inches or 1 to 1.5 feet between the ground surface and the bottom of the structure, depending on the type of structure); therefore, the *Vapor Intrusion into Indoor Air* exposure pathway is considered incomplete. The structures will not have skirting or flashing around their bases that could impede airflow through the airspace below the structure. Groundwater beneath TASS 2 is a data gap. There is minimal data available for the TASS 2 site with the only existing data located along the western boundary from MW-3 and MW-4. The existing data is pertinent to monitoring the VOC plume from the South Larsen property but was collected prior to remediation of the South Larsen VOC plume. There is no on-site data pertaining to the former UST releases in the northeast corner of the site. Additional data in and adjacent to the source area should be collected to further characterize groundwater at the site.

The South Larsen Property owners remediated the groundwater contamination present on the South Larsen site and the small area of impacted groundwater that migrated onto the West Property. ECSI No. 3337, including the small area of impacted groundwater that migrated onto the West Property, was granted a No Further Action (NFA) designation from DEQ after the completion of remedial activities (Appendix C). DEQ determined that the groundwater exposure pathway evaluation was complete and approved the abandonment of the groundwater wells on the West Property that were installed to investigate the plume from the South Larsen site. A detailed comparison of previous soil and groundwater sample analytical results to applicable cleanup levels is presented in Haley & Aldrich's draft Risk Assessment for the TASS 2 site (Haley & Aldrich, 2024).

The solvents in groundwater that migrated onto the southern-most portion of the West Property from the South Larsen site are a listed hazardous waste. Despite the low concentrations of solvents in soil and



groundwater, because the solvents are a listed hazardous waste, soil and groundwater at the subject property must either be managed as a hazardous waste or managed as non-hazardous waste under a No Longer Contained-In Determination (NLCID) from DEQ. DEQ issued an NLCID for investigation-derived waste (IDW) generated during well abandonment and soil generated during subsurface investigations at the West Property in December 2023 (Appendix C), allowing IDW generated during well abandonment and soil generated during subsurface investigations at the West Property to be disposed of as non-hazardous waste.

Foundry waste from the Columbia Steel facility located adjacent to the west of the West Property was previously stored on the western-most portion of the West Property, outside the limits of the site. The foundry waste from Columbia Steel included heavy metals, with elevated concentrations of cobalt and manganese. The majority of this foundry waste has been removed from the West Property. Previous sampling of the foundry waste indicated that the material is not a characteristic hazardous waste.

5.2 GEOLOGY AND HYDROGEOLOGY

The site is approximately 43 feet above mean sea level (msl) and is generally flat, with a slight downwards slope north toward the Columbia Slough located approximately 160 feet north of the site. Stormwater at the site appears to either infiltrate into the ground surface or surface flow to the south, east, or north.

Near-surface soils mapped on the site primarily consist of Sauvie-Rafton-Urban land complex on the eastern portion of the site and Sauvie silt loam on the western portion of the site (NRCS, 2023). Subsurface conditions encountered at the site during previous investigations consisted of clayey to silty fill soils with varying amounts of debris (concrete, wood, plastic, brick, piping, and rebar). Abundant large concrete and asphalt debris (up to 3 feet in diameter) was encountered in a majority of the test pits excavated at the site by Kleinfelder, Inc. in May 2000 (Kleinfelder, 2000). This debris was encountered generally between 6 to 14 feet bgs. The fill soils appeared to extend to a depth of at least 21 feet bgs in some areas of the site.

Static groundwater measurements from former on-site groundwater monitoring wells MW-1, MW-3, and MW-4 generally ranged from approximately 18 feet bgs to 21 feet bgs. Apparent perched groundwater was encountered at a depth of 10.7 feet bgs in monitoring well MW-3, formerly located near the center of the site. The depth to groundwater in monitoring wells MW-2, formerly located off site near the northeast portion of the site and the closest monitoring well to the future locations of the septic tanks, ranged between 20 and 21 feet bgs. Based on the maximum depth of planned excavations of 9 feet bgs and the depth to static groundwater beneath the site, groundwater is not anticipated to be encountered during ground disturbance activities and is therefore not discussed in this CMMP.

Regional groundwater is expected to flow to the north toward the Columbia Slough and follow the direction of flow to the west. Groundwater is not anticipated to be encountered during ground disturbance activities; however, a description of protocols that will be followed if groundwater is encountered, is presented in Section 7.

5.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Numerous previous environmental investigations have been conducted on the West Property; however, this CMMP discusses only the activities and results of investigations conducted within the boundary and



perimeter of the planned development of the TASS 2 (the site). Previous environmental investigations conducted at the site consist of a Phase II Environmental Site Assessment (ESA) conducted by PNG Environmental, Inc. (PNG) in November 1999, a Phase II ESA conducted by Kleinfelder, Inc. in May 2000, and soil sampling activities conducted by BES in October and November 2023.

For the purpose of this CMMP, soil sample analytical results were compared to DEQ Clean Fill Screening Levels (Clean Fill SLs; DEQ, 2019) and DEQ Ecological RBCs for Freshwater Sediment (DEQ, 2020). Soil sample analytical results were also compared to the following DEQ RBCs (DEQ, 2023):

• Soil Ingestion, Dermal Contact, and Inhalation for residential, occupational, construction worker, and excavation worker receptors; and

Groundwater sample analytical results were compared to the following DEQ RBCs (DEQ, 2023):

Groundwater in Excavation for construction and excavation worker receptors; and

Previous soil sample analytical results, including a comparison to the above-described regulatory criteria, are presented in BES tables 1 through 6, included in Appendix D. The November 1999 PNG report and the July 2000 Kleinfelder, Inc. report, which include previous on-site groundwater analytical data, are included in Appendix E. The results of the previous investigations are summarized in the following sections.

5.3.1 Phase II ESA - PNG Environmental, Inc. - November 1999

PNG conducted a Phase II ESA of the West Property in November 1999. The Phase II ESA included analyzing a soil sample collected from one test pit (TP-3) advanced adjacent to the west boundary of the site, installing three on-site groundwater monitoring wells (MW-1, MW-3, and MW-4), and collecting groundwater samples from the monitoring wells during two sampling events. It appears that soil samples were either not collected from the monitoring well borings or were not analyzed. The locations of the 1999 explorations on the site are shown on the site plan included in Appendix A.

5.3.1.1 Soil Analytical Results

Test Pit TP-3 encountered fill material to a total depth excavated of 13 feet bgs. The fill material consisted of construction debris, primarily concrete rubble, with a dark brown silt/sand matrix. The fill material emitted a petroleum-like odor and displayed staining indicative of petroleum contamination. Groundwater was not encountered in the excavation. Soil sample TP-3-13 was collected from the base of the excavation at a depth of 13 feet bgs and analyzed for diesel- and oil-range hydrocarbons by Northwest Method NWTPH-Dx, gasoline-range hydrocarbons by Northwest Method NWTPH-Gx, VOCs by United States Environmental Protection Agency (EPA) Method 8240, and semi-volatile organic compounds (SVOCs) by EPA Method 8270B.

Diesel-range hydrocarbons were not detected in soil sample TP-3-13. Gasoline- and oil-range hydrocarbons were detected in soil sample TP-3-13 at concentrations of 4.77 and 1,000 milligrams per kilogram (mg/kg), respectively. The detected concentrations of gasoline- and oil-range hydrocarbons were less than DEQ Clean Fill SLs and applicable DEQ RBCs. DEQ has not established freshwater sediment ecological RBCs for gasoline- or oil-range hydrocarbons. Benzene was detected in soil sample TP-3-13 at a concentration of 956 micrograms per kilogram (µg/kg), greater than the corresponding DEQ Clean Fill SL but less than applicable DEQ RBCs. DEQ has not established freshwater sediment ecological RBCs for benzene. Additional VOCs or SVOCs were not detected in soil sample TP-3-13.



Soil sample TP-3-13 analytical results, including a comparison to the above-described regulatory criteria, are presented in BES tables 1 through 3, included in Appendix D.

5.3.1.2 Groundwater Analytical Results

Groundwater samples were collected from former on-site monitoring wells MW-1, MW-3, and MW-4 in May and June 1999 and analyzed for gasoline-range hydrocarbons by Northwest Method NWTPH-Gx, diesel- and oil-range hydrocarbons by Northwest Method NWTPH-Dx, SVOCs by EPA Method 625, and VOCs by EPA Method 624. Contaminants were not detected at concentrations greater than applicable DEQ RBCs in the groundwater samples analyzed.

Groundwater sample analytical results are presented in the November 1999 PNG report, included in Appendix E.

5.3.2 Phase II ESA - Kleinfelder, Inc. - May 2000

Kleinfelder, Inc. completed a Phase II ESA at the West Property in July 2000. The July 2000 Phase II ESA included analyzing 11 soil samples collected from two test pits advanced on or adjacent to the site (TP-1 and TP-2) and analyzing groundwater samples collected from on-site monitoring wells MW-1, MW-3, and MW-4. This Phase II ESA used the same nomenclature for test pit labeling as the previous Phase II ESA performed by PNG in 1999; however, the test pits of the same identification were not in the same location for both investigations. The locations of the July 2000 explorations on the site are shown on the site plan included in Appendix A.

5.3.2.1 Soil Analytical Results

Subsurface conditions encountered in the test pits generally consisted of clayey to silty fill soils with varying amounts of debris (concrete, wood, plastic, brick, piping, and rebar). Abundant large concrete and asphalt debris (up to 3 feet in diameter) was encountered in a majority of the test pits excavated. This debris was encountered generally from 6 to 14 feet bgs. Fill soils stained black or gray were observed in test pit TP-1. Field screening did not detect the presence of volatile organic vapors in test pits TP-1 or TP-2.

Soil samples were analyzed for VOCs by EPA Method 8260, PAHs by EPA Method 8270D, and total Resource Conservation and Recovery Act (RCRA) 8 metals by EPA 6000/7000 series methods. Naphthalene and/or 1,2,4-trimethylbenzene were detected in soil sample TP-2-19 at a concentration greater than DEQ Clean Fill SLs. VOCs were not detected at concentrations greater than applicable DEQ RBCs. Except for naphthalene, DEQ has not established freshwater sediment ecological RBCs for VOCs. The detected concentration of naphthalene in soil sample TP-2-19 of 408 µg/kg was greater than the corresponding DEQ freshwater sediment ecological RBC of 176 µg/kg.

PAHs were not detected at concentrations greater than applicable DEQ RBCs or DEQ Clean Fill SLs. Fluoranthene and pyrene were detected in soil sample TP-2-5 at a concentration greater than the corresponding DEQ freshwater sediment ecological RBCs.



RCRA 8 metals were not detected at concentrations greater than applicable DEQ RBCs. Lead and/or mercury were detected at concentrations greater than DEQ Clean Fill SLs and DEQ freshwater sediment ecological RBCs in soil samples TP-1-19 and TP-2-19.

Soil sample analytical results from the July 2000 Phase II ESA, including a comparison to the above-described regulatory criteria, are presented in BES tables 1 through 4, included in Appendix D.

5.3.2.2 Groundwater Analytical Results

Groundwater samples were collected from former on-site monitoring wells MW-1, MW-3, and MW-4 and analyzed for SVOCs by EPA Method 8270, VOCs by EPA Method 8260B, and total Resource Conservation and Recovery Act (RCRA) 8 metals. Contaminants were not detected at concentrations greater than applicable DEQ RBCs in the groundwater samples analyzed.

Groundwater sample analytical results are presented in the July 2000 Kleinfelder report, included in Appendix E.

5.3.3 Test Pit Investigation - City of Portland BES - October 2023

The BES analyzed 13 composite soil samples collected from 12 test pits advanced on or adjacent to the northern portion of the site in October 2023 (test pits T-Pit-1 through T-Pit-12). The composite soil samples included seven composite soil samples collected between 0 and 1.5 feet bgs and six composite soil samples collected between 0 and 5 feet bgs. The composite soil samples were analyzed for qualitative hydrocarbon identification by Method NWTPH-HCID; gasoline-range hydrocarbons by Northwest Method NWTPH-Gx; diesel- and oil-range hydrocarbons by Northwest Method NWTPH-Dx; PAHs by EPA Method 8270-SIM; total arsenic, cadmium, chromium, copper, lead, mercury, and zinc by EPA Method 6020; PCBs by EPA Method 8082, and/or organochlorine pesticides by EPA Method 8081B.

5.3.3.1 Soil Analytical Results

Gasoline- and diesel-range hydrocarbons were either not detected or were detected at concentrations less than DEQ Clean Fill SLs and applicable DEQ RBCs in the composite soil samples analyzed. Oil-range hydrocarbons were either not detected or were detected at concentrations less than applicable DEQ RBCs in the composite soil samples analyzed. DEQ has not established Clean Fill SLs for oil-range hydrocarbons and has not established freshwater sediment ecological RBCs for petroleum hydrocarbons.

Benzo(a)pyrene, dibenz(a,h)anthracene, and/or indeno(1,2,3-cd)pyrene were detected at concentrations greater than DEQ Clean Fill SLs in soil samples T-Pit-2 0-5', T-Pit-3 0-18", T-Pit-5 0-18", T-Pit-6 0-18", T-Pit-6 0-5', T-Pit-9 0-5', and T-Pit-11 0-5'. The detected concentrations of benzo(a)pyrene, dibenz(a,h,)anthracene, and/or indeno(1,2,3-cd)pyrene in soil samples T-Pit-2 0-5', T-Pit-3 0-18", T-Pit-5 0-18", T-Pit-6 0-18", T-Pit-6 0-5', and/or T-Pit-9 0-5' were greater than the corresponding DEQ RBCs for Soil Ingestion, Dermal Contact, and Inhalation for residential receptors. With these exceptions, PAHs were not detected at concentrations greater than applicable DEQ RBCs. One or more PAHs were detected at concentrations greater than DEQ freshwater sediment ecological RBCs in seven of the 13 composite soil samples analyzed.



Arsenic, cadmium, chromium, copper, lead, mercury, and/or zinc were detected at concentrations greater than DEQ Clean Fill SLs in 11 of the 13 composite soil samples analyzed (i.e., except for soil samples T-Pit-8 0-18" and T-Pit-12 0-18"). Except for arsenic in soil sample T-Pit-3 0-18", metals were not detected at concentrations greater than applicable DEQ RBCs in the 13 composite soil samples analyzed. One or more metals were detected at concentrations greater than DEQ freshwater sediment ecological RBCs in nine of the 13 composite soil samples analyzed (i.e., except for soil samples T-Pit-6 0-18", T-Pit-8 0-18", T-Pit-9 0-5', and T-Pit-12 0-18").

One of the 13 composite soil samples (composite soil sample T-Pit-6 0-5') was analyzed for PCBs. PCBs were not detected. One of the 13 composite soil samples (composite soil sample T-Pit-7 0-5') was analyzed for organochlorine pesticides. Three organochlorine pesticides, including 4-4'-DDD, 4-4'-DDE, and 4-4'-DDT, were detected at concentrations greater than DEQ Clean Fill SLs and DEQ freshwater sediment ecological RBCs. Organochlorine pesticides were not detected at concentrations greater than applicable DEQ RBCs.

5.3.4 Direct-Push Boring Investigation - City of Portland BES - November 2023

The BES analyzed 27 soil samples collected from 12 direct-push borings (WP-1 through WP-7 and WP-9 through WP-13) advanced on or adjacent to the site in October 2023. The soil samples included one discrete soil sample collected between 0 and 1 foot bgs, 12 composite soil samples collected between 0 and 5 feet bgs, 12 composite soil samples collected between 5 and 10 feet bgs, and two composite soil samples collected between 10 and 15 feet bgs. The soil samples were analyzed for qualitative hydrocarbon identification by Method NWTPH-HCID; gasoline-range hydrocarbons by Northwest Method NWTPH-Gx; diesel- and oil-range hydrocarbons by Northwest Method NWTPH-Dx; VOCs by EPA Method 8260, PAHs by EPA Method 8270-SIM; total arsenic, cadmium, chromium, copper, lead, mercury, and zinc by EPA Method 6020; and/or PCBs by EPA Method 8082.

5.3.4.1 Soil Analytical Results

Gasoline- and diesel-range hydrocarbons were either not detected or were detected at concentrations less than DEQ Clean Fill SLs and applicable DEQ RBCs in the composite soil samples analyzed. Oil-range hydrocarbons were either not detected or were detected at concentrations less than applicable DEQ RBCs in the composite soil samples analyzed. DEQ has not established Clean Fill SLs for oil-range hydrocarbons and has not established freshwater sediment ecological RBCs for petroleum hydrocarbons.

One of the 27 soil samples (WP-11-0-1) was analyzed for VOCs. VOCs were not detected at concentrations greater than DEQ Clean Fill SLs, DEQ RBCs, or DEQ freshwater sediment ecological RBCs.

One or more PAHs were detected in each of the 27 soil samples analyzed. PAHs were detected at concentrations greater than DEQ Clean Fill SLs in 11 of the soil samples analyzed, including five soil samples collected between 0 and 5 feet bgs, five soil samples collected between 5 and 10 feet bgs, and one soil sample collected between 10 and 15 feet bgs. One or more PAHs were detected at concentrations greater than DEQ RBCs for soil ingestion, dermal contact, and inhalation for residential and/or occupational receptors in three soil samples (WP-9 0-5, WP-10 0-5, WP-12 0-5, and WP-13 0-5) collected between 0 and 5 feet bgs. For soil below 3 feet bgs, the soil ingestion, dermal contact, and inhalation exposure pathway is considered an incomplete exposure pathway for residential and



occupational receptors. PAHs were not detected at concentrations greater than applicable DEQ RBCs for construction or excavation workers.

One or more PAHs were detected at concentrations greater than DEQ freshwater sediment criteria in 22 of the 27 soil samples analyzed (all except for WP-3 0-5, WP-6 0-5, WP-10 5-10, WP-11 5-10, and WP-12 5-10).

Arsenic, chromium, copper, and/or lead were detected at concentrations greater than DEQ Clean Fill SLs in 20 of the 27 composite soil samples analyzed. Except for arsenic in soil sample WP-2 0-5, metals were not detected at concentrations greater than applicable DEQ RBCs in the 27 soil samples analyzed. One or more metals were detected at concentrations greater than DEQ freshwater sediment ecological RBCs in 12 of the 27 soil samples analyzed.

Two of the 27 soil samples (WP-3 0-5 and WP-10 5-10) were analyzed for PCBs. Except for Aroclor 1254 in soil sample WP-3 0-5, PCBs were not detected. The detected concentration of Aroclor 1254 and/or concentration of total PCBs in soil sample WP-3 0-5 of 19.3 μ g/kg was less than the DEQ Clean Fill SL and applicable DEQ RBC, but greater than the DEQ freshwater sediment ecological RBC.

5.3.5 Previous Soil and Groundwater Sample Summary

Based on the previous soil analytical data, all soil excavated during site redevelopment should be considered restricted fill and will require disposal at a Subtitle-D landfill, either because of the presence of fill material or because of the presence of contaminants at concentrations exceeding DEQ Clean Fill SLs. The analytical results from previous soil and groundwater samples collected from the site indicate that:

- Contaminants were not detected in soil samples at concentrations greater than DEQ Soil Ingestion, Dermal contact, and Inhalation RBCs for construction worker and excavation worker receptors, and contaminants were not detected in groundwater samples at concentrations greater than DEQ Groundwater in Excavation for construction and excavation worker receptors; therefore, the low concentrations of contaminants in soil and groundwater do not appear to present a risk to future construction and excavation workers.
- Except for PAHs and arsenic, contaminants were not detected in soil samples at concentrations greater than DEQ *Soil Ingestion, Dermal contact, and Inhalation* RBCs for residential receptors.
- Based on the measured depths to groundwater beneath the site, groundwater is not expected
 to be encountered during site redevelopment. In the unlikely event that groundwater is
 encountered during excavation, work will stop until this CMMP is revised to include appropriate
 guidance on appropriate permitting and treatment requirements for dewatering and
 construction water disposal.
- Contaminants were detected in some soil samples at concentrations greater than DEQ ecological RBCs for freshwater sediment. Appropriate efforts will be made to restrict stormwater flow to catch basins and surface water bodies during construction.

A detailed comparison of previous soil and groundwater sample analytical results to applicable cleanup levels is presented in Haley & Aldrich's draft Risk Assessment for the TASS 2 site (Haley & Aldrich, 2024).



6. Worker Safety

Contamination has not been detected at the site at concentrations greater than DEQ direct-contact RBCs for construction or excavation workers. However, higher concentrations of contaminants may be present in areas not explored. Each entity involved in earthwork-related activities is responsible for the safety of their workers. Prior to beginning site activities, each entity shall prepare a site-specific Health and Safety Plan (HASP) in accordance with Oregon Occupational Safety and Health Administration (OSHA) requirements to cover safety issues related to site environmental and physical hazards and to describe any training requirements, monitoring, and certifications. The HASP shall include the potential exposure to contaminated soil.

As part of the HASP preparation, each involved entity shall assess existing data and the location of the planned work to identify potentially contaminated media as it relates to worker safety. Occupational health guidelines for chemical hazards (i.e., OSHA and the National Institute for Occupational Safety and Health [NIOSH]) can be used to evaluate site conditions. The evaluation should consider exposure limits (i.e., time-weighted average, short term exposure limit, and/or permissible exposure limit), exposure symptoms, and personal protective equipment. Haley & Aldrich environmental personnel who may be on site during future earthwork must have received 40-hour Hazardous Waste Operation and Emergency Response (29 Code of Federal Regulations [CFR] 1910.120) training. Additionally, the City of Portland or the Contractor must have a 40-hour Hazardous Waste Operation and Emergency Response (29 CFR 1910.120) trained representative on site during earthwork activities who is able to identify contaminated media to oversee or observe earthwork activities and direct staff in the correct handling of contaminated media during earthwork activities. Each party involved should assess the need for this training for additional staff or for supervisory staff based on the activities to be performed and current information for the site. Specific recommendations should be provided in the forthcoming HASP to protect worker safety.

All entities shall be responsible for notifying and updating their employees of potential site hazards that may be encountered during the project. Changes may need to be made should additional contamination be discovered. DEQ should be notified if additional unanticipated contamination is discovered during site work. Prior to site work, this CMMP and the HASP must also be provided to employees who will be working on the site, and a list of contacts should be prepared and distributed to all entities involved in work at the site for implementation of this CMMP. This will help ensure timely notification of changing site conditions to maintain the appropriate level of worker safety. All site workers will be responsible for compliance with their HASP, including use of appropriate personal protective equipment.

7. Contaminated Media Identification and Management

Previous environmental investigations at the site identified TPH, VOCs, PAHs, pesticides, and arsenic, cadmium, chromium, copper, mercury, and lead in soil at the site. Prior to any earthwork-related activities, site workers and their employers should review this CMMP. This section presents regulatory requirements, methods to identify and manage contaminated soil, as well as an analytical program to identify uncontaminated media.



Groundwater is not anticipated to be encountered and therefore is not discussed in the CMMP. If groundwater is encountered, work still stop and DEQ will be notified. This CMMP will be modified to address potential groundwater contamination prior to excavation work resuming.

7.1 REGULATORY REQUIREMENTS, SCREENING LEVELS, AND CRITERIA

Certain regulatory requirements, screening levels, and criteria are applicable for managing soil from the site. Future users of this document should review regulatory requirements for updates and revisions. The regulatory factors described below are applicable as of February 2024. While these requirements are primarily applicable during excavation or grading, they also will apply for contaminated media exposed or generated during future site maintenance. These items are described below as they pertain to this site. Additional criteria may be used by disposal facilities to determine whether to accept environmental media from the site for treatment and/or disposal. A disposal permit will be obtained by the City Coordinated Site Assessment (CSA) program under the forthcoming amended NLCID.

7.1.1 Clean Fill SLs

The DEQ has developed guidance and Clean Fill SLs for soil (DEQ, 2019). If contaminant concentrations in excavated soil are below Clean Fill SLs and "...the material type is limited to soil, rock, concrete, brick, building block, tile or asphalt paving and does not consist of putrescible wastes, construction and demolition wastes and industrial solid wastes," the soil can be used as unrestricted clean fill for placement on and off the site, with the exception that soil cannot be placed in a location where surface water would be affected. Clean Fill SLs are based on RBCs for residential use, ecological SLs for terrestrial receptors, and background levels. Based on the nature of the site and the previous soil sample analytical results, soil generated during site redevelopment cannot be managed as clean fill.

7.1.2 Solid Waste Regulations

Any soil not meeting Clean Fill SLs and that is not considered a hazardous waste would fall under DEQ's solid waste regulations (Oregon Administrative Rules [OAR] 340-093). At the TASS 2 site, soil generated during site earthwork will be disposed of at a Subtitle D landfill.

7.1.3 Risk-Based Concentrations

Based on toxicity data and standard exposure factors, the DEQ has calculated RBCs to estimate contaminant concentrations in environmental media that are considered protective of ecological receptors and humans, including sensitive groups, over a lifetime. RBCs are used to assess if contaminant concentrations might pose an unacceptable health risk.

7.1.4 National Pollution Discharge Elimination System (NPDES)

NPDES permits set regulatory benchmarks for surface water discharge to a storm sewer system, including runoff from the site during earthwork activities. Site earthwork activities will be conducted in accordance with a forthcoming NPDES 1200-CA permit for the TASS 2 development. DEQ's Cleanup Program will be provided a copy of the approved 1200-CA permit and will be involved in review of the 1200-CA permit application prior to approval.



7.2 IDENTIFICATION OF POTENTIALLY CONTAMINATED SOIL

Each party involved in any earthwork-related construction activities at the site shall be solely responsible for identification of contaminated soil. Each contractor shall monitor soil for evidence of contamination. If site personnel observe media exhibiting characteristics of contaminant impacts, the media in question shall be identified as potentially impacted and handled and characterized as described in Sections 7.3 and 7.4. The following field observations can be used to screen potentially impacted media:

- Staining of soil (dark gray or black in color);
- Chemical or petroleum odors;
- Measurements made with a photoionization detector; and/or
- Sheen on moist or saturated soil.

Note that the absence of these characteristics does not necessarily imply that the media does not contain contaminants. Contaminant concentrations at the site are likely only detectable with the use of environmental testing equipment or analytical testing. As such, chemical analysis of excavated soil is recommended. In addition, all media generated during construction should be assumed to be contaminated and handled accordingly.

The contractor should expect to encounter soil with generally low concentrations of TPH, VOCs, PAHs, pesticides, and metals, and debris including concrete, wood, plastic, brick, piping, and rebar. If unexpected hazardous materials are encountered, the contractors shall:

- Stop all work in that area;
- Notify the BES immediately;
- Ensure no contaminated material is hauled from the site;
- Remove the work force from the immediate area of the contamination;
- Involve an environmental consultant; and
- Secure the area from access by the public to prevent unauthorized entry prior to and during construction activities.

7.3 HANDLING OF CONTAMINATED MEDIA

Except for the septic treatment tanks, which will include excavations to a maximum depth of 9 feet bgs, only shallow soil will be excavated during site redevelopment. Groundwater is not expected to be encountered during site redevelopment. Soil generated during the planned redevelopment of the site cannot be managed as clean fill. Because of the presence of listed hazardous wastes from an off-site source in deep soil and groundwater at the site, soil generated during the planned redevelopment must be disposed of at an RCRA Subtitle D landfill as non-hazardous waste under a NLCID from DEQ. The previous NLCID for the site only applies to specific drums and IDW. The existing NLCID will be amended to include soil generated during planned site redevelopment. The City of Portland should use the forthcoming amended NLCID to support a disposal permit for soil generated during site redevelopment. The forthcoming NLCID will be added to Appendix C upon issuance. Care should be taken to minimize worker exposure to contaminated soil in accordance with the forthcoming site-specific HASP.



7.4 ANALYTICAL PROTOCOLS FOR MEDIA CHARACTERIZATION

Specific media characterization requirements should be negotiated with the receiving facility. The receiving facility may determine that recent analytical data collected by BES may be adequate to support a disposal permit.

If additional soil samples are collected, samples should undergo a minimal amount of disturbance during sample collection. Generally, all sample containers should be filled to the top, leaving no observable head space. Protocol may vary depending on the contaminant of concern, particularly VOCs, if collected. Samples should then be stored in a cooler at 4 degrees Celsius (°C) ± 2°C from collection to receipt by the analytical laboratory. Chain of custody documentation must be maintained. The laboratory must be certified by Oregon and/or National Environmental Laboratory Accreditation Program (ORELAP and NELAP, respectively). Soil samples should be analyzed for RCRA 8 metals by EPA Method 6010/6020 and/or 7471, gasoline-range hydrocarbons by Northwest Method NWTPH-Gx, diesel-range hydrocarbons by Northwest Method NWTPH-Dx, VOCs by EPA Method 5035/8260B, organochlorine pesticides by EPA Method 8081A, and PAHs by EPA Method 8270-SIM. The receiving facility may require additional analyses.

Method reporting limits for the above tests shall be consistent with industry standards and less than that required for disposal or regulatory screening criteria (e.g., Clean Fill guidelines of DEQ [2019]), as appropriate.

Waste characterization should adequately determine the nature and magnitude of contamination; consult with the waste disposal facility for current sampling and analysis requirements to ensure acceptance of the waste materials by the facility. These may include composite sampling or other methods to help reduce overall analytical costs. If additional soil samples are required by the receiving facility, they may be collected *in situ* prior to earthwork activities or from stockpiles of excavated material.

7.5 OFF-SITE TRANSPORT AND DISPOSAL

The City is responsible for obtaining appropriate soil disposal permits from the permitted landfill facility(s) under the forthcoming amended NLCID prior to the contractor hauling the impacted soil or other materials off site. The City will likely need to provide a copy of the chemical analytical laboratory report to the selected disposal facility. Copies of the permit should accompany each load transported to the selected disposal facility.

Disposal facilities often have the following requirements prior to accepting soil at their facility:

- Contaminated soil will not be received without first completing a soil profile sheet, obtaining a
 permit (to be completed by the City), having an approval of credit application on file, and having
 pre-approval from the disposal facility.
- Trucks will be permitted to weigh in as negotiated with the facility.
- Material may be sampled during delivery by the disposal facility. Comparisons may be made between the submitted profile and on-site analysis. Any material's profile that does not compare to the delivered material may be rejected.
- Exported soil must not contain any free liquids or foreign material (i.e., rebar, fittings, cans, wood, etc.). Truckloads found with excessive foreign material may be reloaded and returned to



the customer or screened, sorted, and disposed of by the disposal facility for an additional fee. Truckloads with free liquids may be rejected or charged an additional solidification fee.

BES and DEQ shall be notified and approve of all off-site soil disposal locations.

7.6 STOCKPILE MANAGEMENT

Soil generated during excavation that cannot be immediately transported off site can be temporarily stockpiled on the TASS 2 site or in other areas on the West Property designated by BES. Excavated material that is placed in temporary stockpiles must be well maintained at all times. All stockpiled material must be placed on impermeable plastic sheeting (minimum 6-mil-thick) with a berm around the perimeter of the stockpile. The plastic sheeting and berm must be constructed to prevent the runoff of soil and contaminants to surrounding areas. The berm will be constructed with either hay bales or dimensional lumber. The bottom plastic sheeting should be lapped over the berm materials and the soil stockpile covered with plastic sheeting to prevent erosion or leaching of contaminants to underlying soil and to prevent exposure to precipitation and wind. Plastic sheeting that covers the soil stockpile should be secured using sandbags or equivalent.

Stockpiles must be clearly designated as to the nature of the stockpiled soil (e.g., contaminated soil, pending analysis, or awaiting transport), either with signage or stakes with different colored flagging. The locations and nature of each stockpile should be discussed during daily work meetings. There are currently no plans to stockpile soil outside of the West Property. Off-site stockpiling of soil will not be conducted unless DEQ approves an off-site soil stockpile location and provides a Solid Waste Letter of Authorization. Following removal, the stockpile areas should be restored to a pre-stockpile condition. Residual plastic or debris should not be left unattended at the site and must be properly disposed of following stockpile removal.

7.7 LOADING AND HAULING

Material intended for off-site disposal can be loaded directly into trucks for transport to the receiving facility once the appropriate permitting has been completed and field screening protocols implemented, as appropriate. All truck loading will occur on the West Property. The contractor must exercise care during loading of the impacted material to help minimize spillage of the material onto the ground surface. All trucks leaving the West Property will be free of loose soil on the exterior of the trucks and tires, will have loads sitting below the bed walls, and beds will be covered with tight fitting covers. Impacted soil loaded into trucks will be covered during transport to the disposal facility. The contractor must use care not to track soil onto roads and must implement additional BMPs if soil is observed tracked onto roads. Trucks should not be allowed to leave the West Property if liquids are draining from the load. Transport tracking tickets may be required, which document the haul to the approved disposal facility for each truck leaving the West Property.

7.8 WHEEL WASH

Standard site entry BMPs, including stabilized construction entrances/exits (e.g., rock pad) to the construction site and gravel filter berms, will be implemented at the site in accordance with Section 4.2 of the City of Portland's Erosion and Sediment Control Manual dated October 2022. If sediment is tracked off site during construction, additional BMPs shall be implemented, including washing wheels before vehicles leave the site. Wheel washing will be completed on the rock pad or in an approved wheel wash structure, as specified in Section 4.2 of the City of Portland's Erosion Control Manual dated



March 2008. The wheels will be washed before crossing the construction exit to leave the site. Wheel wash water will be containerized by constructing a wheel wash station consisting of a paved or lined shallow depression to hold wheel wash water, or by installing a specialized system consisting of a large surface pad with direct drainage to a large sump. Water generated during wheel washing will be periodically disposed of to the City of Portland sanitary sewer system under a forthcoming batch discharge authorization.

7.9 EROSION AND DUST CONTROL

Exposed soil will become susceptible to erosion by wind and water; therefore, erosion control measures should be planned carefully and in place before excavation and stockpiling begin. Silt fences, fiber rolls or compost socks, and/or gravel haul roads will be used as required to reduce sediment transport during construction to acceptable levels. Measures to reduce erosion should be implemented in accordance with the State of Oregon 1200-CA Construction Stormwater Discharge General Permit. Erosion and dust control measures will be presented in an Erosion and Sedimentation Control Plan (ESCP) for on- and off-site portions of the site. The anticipated erosion and dust control measures to be outlined in the ESCP include the use of sediment fences, inlet protection, gravel construction entrances, and biofilter bags where necessary.

7.10 RIGHT-OF-WAY EXCAVATION

Right-of-way (ROW) excavation activities shall comply with the City of Portland's Hazardous Substances requirements (PCC 17.24.067). Contaminated soil encountered during excavation work within the ROW will be managed in accordance with this CMMP. The City of Portland's Hazardous Substances code requires that residual contaminated soil left in-place within the ROW after excavation activities be characterized and demarked using orange geotextile fabric or similar material.

7.11 IMPORTED FILL MATERIAL

All fill material imported to the site shall consist of either a manufactured rock product (e.g., 0.75-inchminus crushed rock from a permitted rock quarry) or must be free of contaminants at concentrations exceeding DEQ's Clean Fill SLs. It is the contractor's responsibility to ensure all imported fill material meets these criteria and provide BES with the imported origin information and accompanying documentation demonstrating the material meets DEQ Clean Fill SLs, if not using a manufactured rock product. If a non-manufactured rock material is used, test results demonstrating that the material meets DEQ Clean Fill SLs must be reviewed and approved by DEQ prior to being brought onsite. In addition, if evidence of contamination is observed in imported fill material, the contractor should reject the imported backfill and identify an alternate source. Also, any material imported as structural backfill should be evaluated and approved by the geotechnical engineer before placement on the site.

7.12 CONTRACTOR REPORTING REQUIREMENTS

The contractor is responsible for keeping a detailed daily record of all soil excavation, stockpiling, export, and disposal activities. This includes the purpose, origin, destination, and volume of soil that is:
(1) loaded and hauled to the approved off-site disposal sites; (2) reused on the site; or (3) transported to temporary soil stockpile locations on the West Property. The contractor is responsible for preparing a daily field report for distribution to BES representatives that identifies the number of truckloads and tonnage of soil transported off site and daily tonnage for each disposal location. All soil excavation, handling, and disposal activities should be documented in daily field reports by the contractor, and soil



sampling and chemical analytical data shall be summarized in a final report upon the completion of construction that will be submitted to DEQ.

7.13 PERMITS AND APPROVALS

All involved parties are responsible for obtaining the appropriate permits for construction activities at the site. These may include but are not limited to general construction/erosion control permits and disposal permits. For disposal of soil and water, the landfill or treatment facility should be contacted regarding their acceptance and chemical analysis requirements prior to beginning work. The landfill or treatment facility may accept the data listed herein for disposal characterization; however, it is likely that more recent data will be required for profiling. Copies of all approved permits obtained to complete the work will be included in the Construction Completion report.

8. Communications

The key personnel and roles and responsibilities for communication during construction are summarized below:

City of Portland Project Contact

Ms. Taryn Meyer, Hydrogeologist Bureau of Environmental Services 1120 SW 5th Avenue, Suite 613 Portland, Oregon 97204 503.823.8155 taryn.meyer@portlandoregon.gov

Ms. Meyer will have the role of primary City contact during implementation of the RA. Ms. Meyer has overall responsibility for project performance and meeting regulatory requirements.

General Contractor Project Manager

Mr. Luis Lopez Fulcrum Construction 971.201.6843 luis.l@fulcrumpdx.com

Mr. Lopez will have the role of construction manager during completion of the TASS 2 project.

Haley & Aldrich Project Manager

Mr. Colby Hunt 6420 S. Macadam, Suite 100 Portland, Oregon 97239 971.327.9103 chunt@haleyaldrich.com

Mr. Hunt will have the role of Environmental Consultant during implementation of the RA. The Environmental Consultant in collaboration with the contractor has responsibility for implementation of the CMMP. The Environmental Consultant is responsible for oversight during installation of the



protective cap, response if notified of suspected contamination beyond that described in Section 5.0 is encountered, sampling and analysis (if conducted) evaluation of disposal requirements and options for contaminated soil management, and response to other environmental issues that may develop.

Oregon Department of Environmental Quality (DEQ) Project Manager

Ms. Sarah Greenfield
Oregon Department of Environmental Quality
700 Multnomah Street, Suite 600
Portland, Oregon
503.229.5245
sarah.greenfield@deq.oregon.gov

Ms. Greenfield is responsible for environmental regulatory oversight during implementation of this CMMP.

9. Reporting

Following completion of earthwork activities, a Construction Completion Report will be prepared and submitted to DEQ for review and approval. The Construction Completion Report will include a description of methods and procedures used during cap construction, a summary of observations during earthwork activities, final copies of all approved permits, and a summary of media management and disposal.

10. Schedule

It is anticipated that ground disturbing activities will begin immediately upon receiving DEQ approval of this draft CMMP. Construction of the protective cap and any other remedial elements of the TASS 2 development will begin following DEQ review and approval of the draft Risk Assessment and the draft RAP. The Construction is anticipated to be completed within 60 days after the initiation of construction activities. DEQ will be notified at least 10 days before construction activities commence. The Construction Completion Report will be submitted to DEQ within 60 days of completion of construction.

11. Limitations

This CMMP is intended to provide procedures for identifying and managing potentially contaminated soil encountered during earthwork and ground-disturbing activities only on the portion of the West Property comprising the site. Haley & Aldrich prepared this CMMP in accordance with generally accepted professional practices related to the nature of the work specified in the CMMP, in the same or similar localities, at the time this plan was prepared. Future users of this plan shall consider changes that may have occurred in environmental practices, regulations, and guidance, including risk-based and Clean Fill criteria since plan preparation. No other warranty, express or implied, is made.



References

- 1. DEQ, 2019. Clean Fill Determinations. February 21.
- 2. DEQ, 2020. Conducting Ecological Risk Assessments. September 14.
- 3. DEQ, 2023. Risk-Based Concentrations for Individual Chemicals. Revised August.
- 4. Kleinfelder, 2000. Limited Site Investigation and Groundwater Monitoring, Backfilled Retention Ponds, 10505 North Portland Road, Portland Oregon. July 6.
- 5. NRCS, 2023. Web Soil Survey, accessed November 2023 at: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.
- 6. PNG, 1999. Phase II Environmental Investigation, Larsen Property, 10505 North Portland Road, Portland, Oregon. November 12.
- 7. Haley & Aldrich, 2024. Draft Risk Assessment, Former North Larsen Property, 10505 North Portland Road, Portland, Oregon, dated 29 January.

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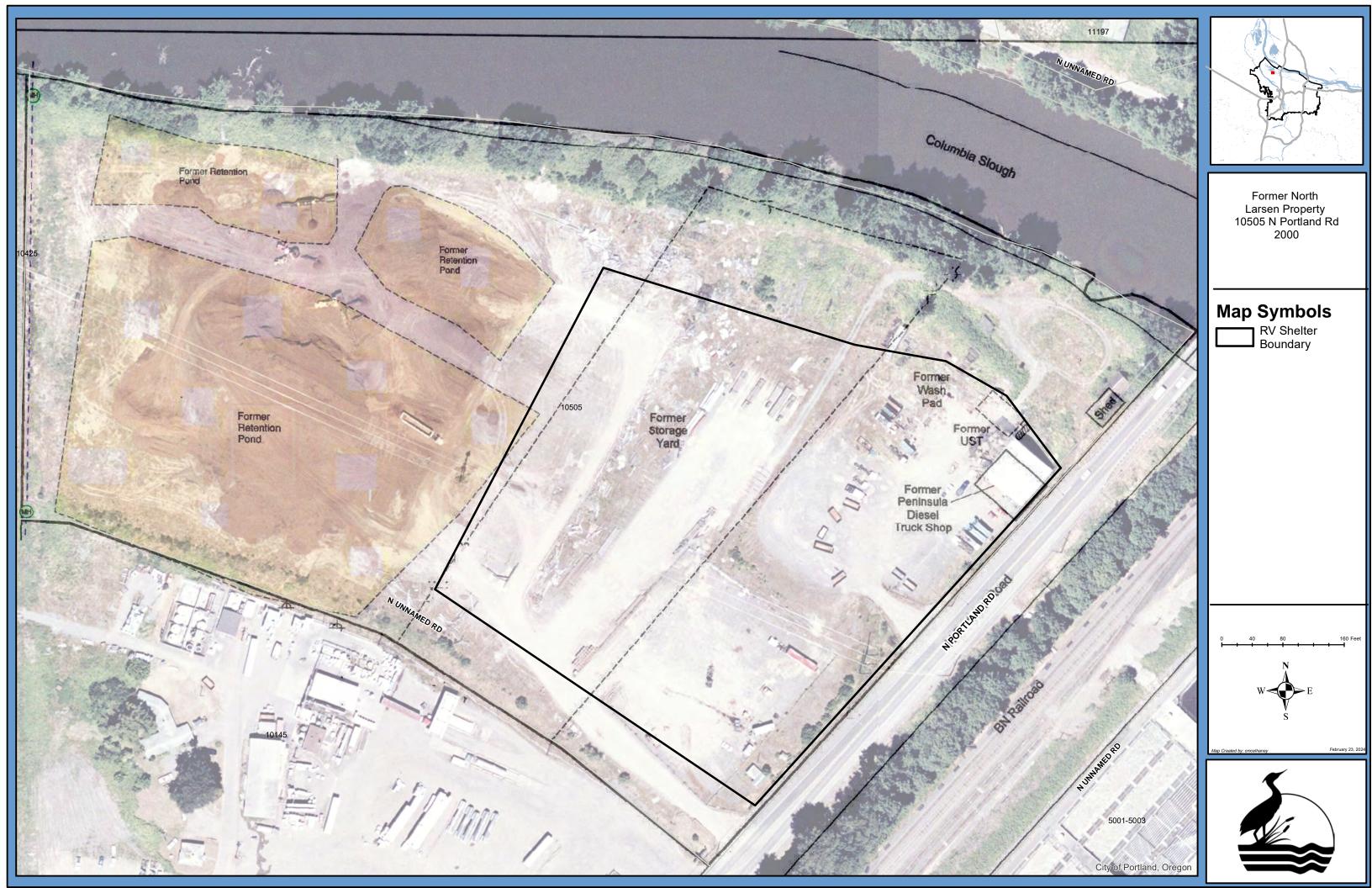


FIGURE













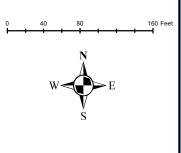


Former North Larsen Property 10505 N Portland Rd

2010

Map Symbols

RV Shelter Boundary







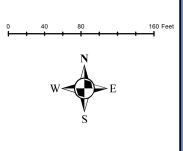


Former North Larsen Property 10505 N Portland Rd

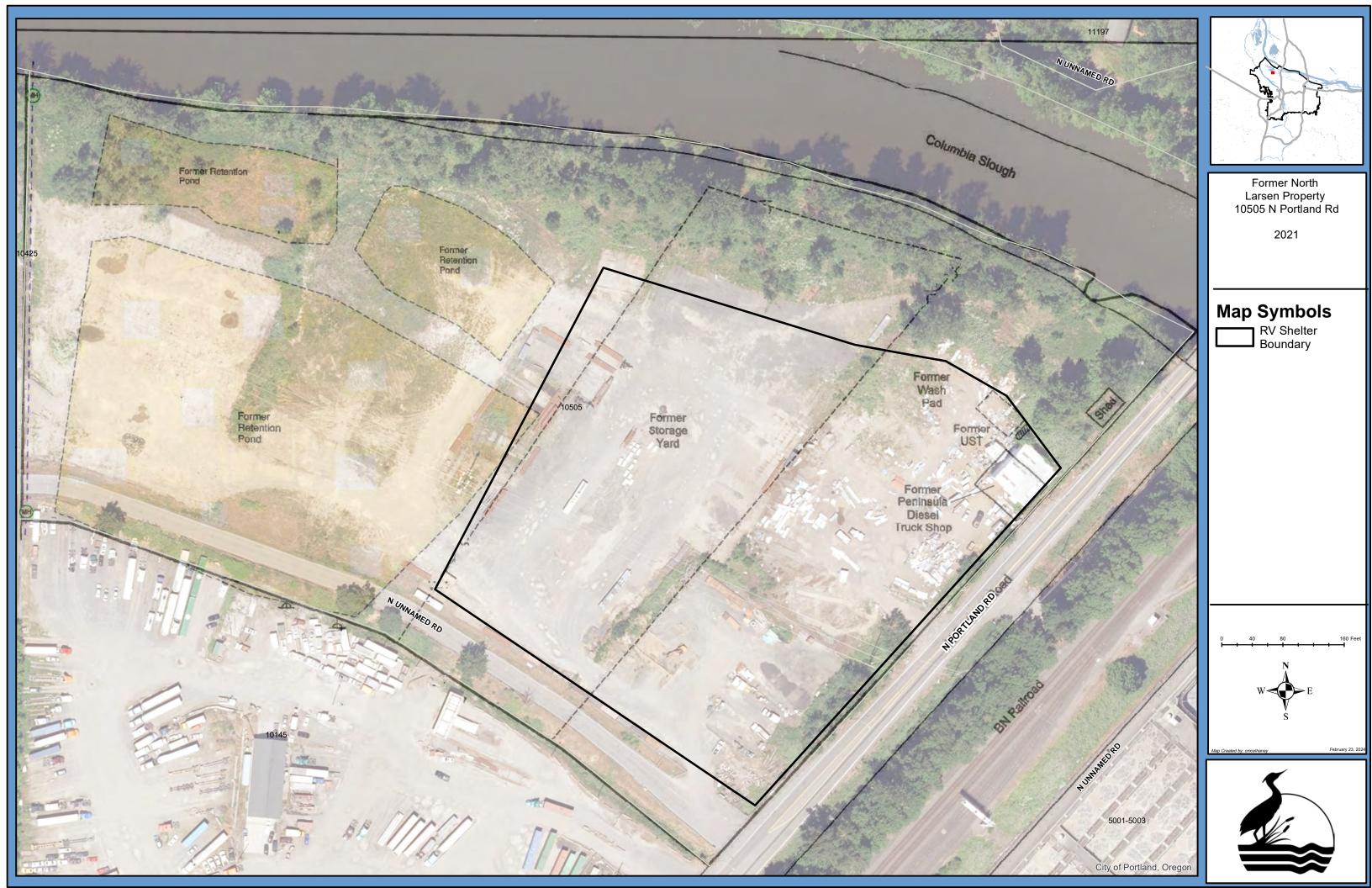
2015

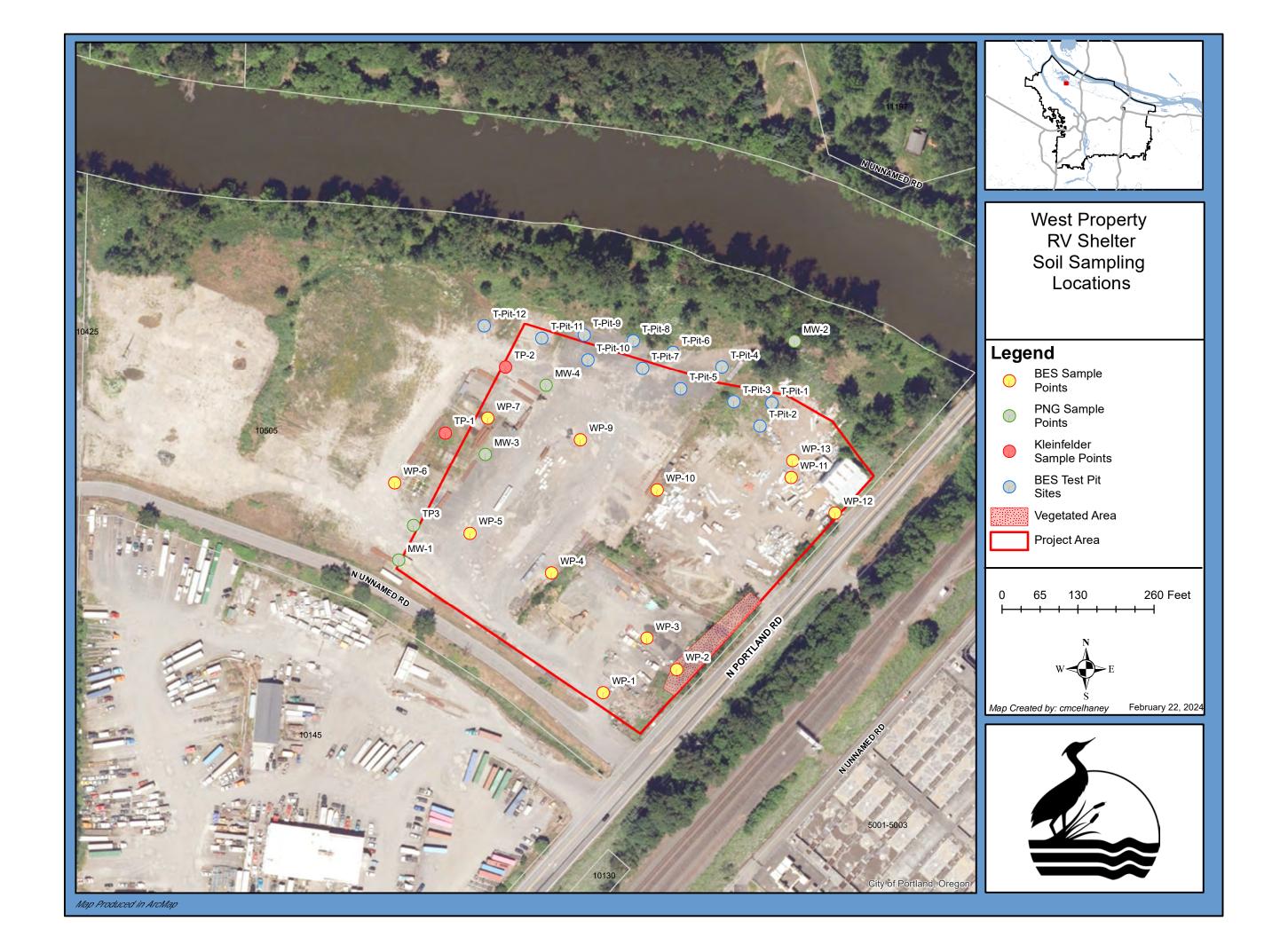
Map Symbols

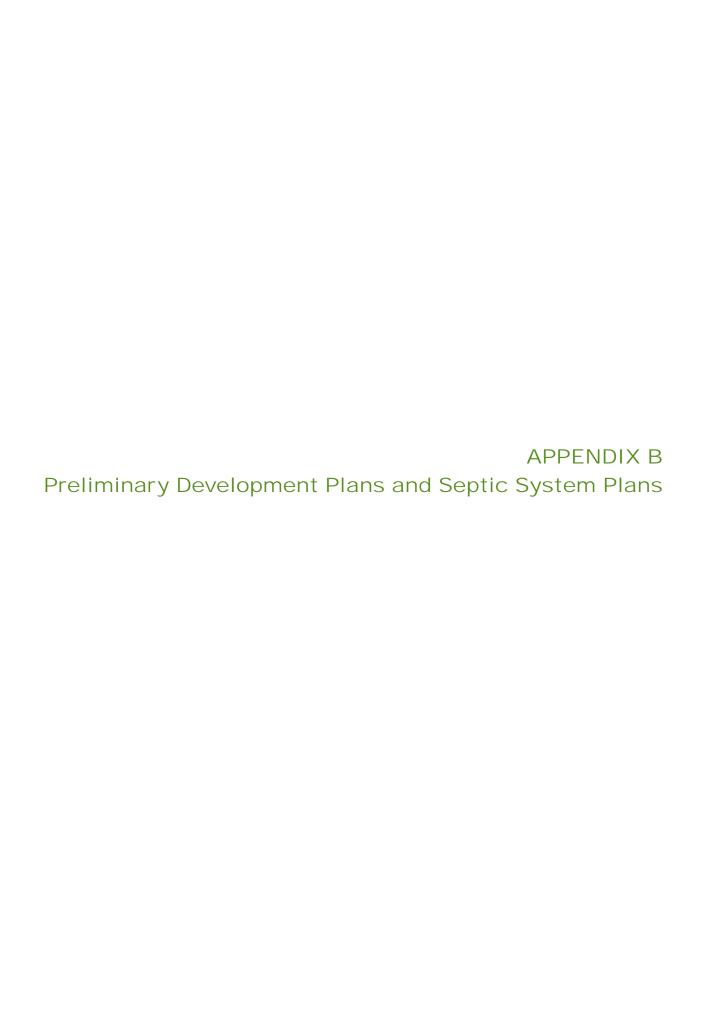
RV Shelter
Boundary











TEMPORARY ALTERNATIVE SHELTER SITE 2 - DEVELOPMENT REVIEW

PROJECT TEAM

OWNER

CITY OF PORTLAND OFFICE OF MANAGEMENT AND FINANCE

1120 SW 5TH AVENUE PORTLAND, OR 97204

CONTACT: MICHELLE LADD 503.823.8344

MICHELLE.LADD@PORTLANDOREGON.GOV

GENERAL CONTRACTOR

FULCRUM CONSTRUCTION SOSYAL ARCHITECTURE AND COMMUNITY DEVELOPMENT, LLC

12125 SW 2ND STREET BEAVERTON, OR 97005 CONTACT: LUIS LOPEZ

971.201.6842 LUIS.L@FULCRUMPDX.COM

CONTACT: SERMIN YESILADA

ARCHITECT

P.O. BOX 19833

PORTLAND, OR 97280

503.922.9099 SYESILADA@SOSYALARCHITECTURE.COM

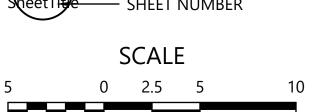
SHEET INDEX

A00 COVER SHEET A01 OVERALL SITE PLAN AND CODE SHEET A02 SITE PLAN OVERALL - AREA OF WORK A03 ENLARGED SITE PLAN - A A04 ENLARGED SITE PLAN - B

A05 ENLARGED SITE PLAN - C A06 ENLARGED SITE PLAN - D A07 ENLARGED SITE PLAN - E A08 ENLARGED SITE PLAN - F

A09 TREE PROTECTION PLAN

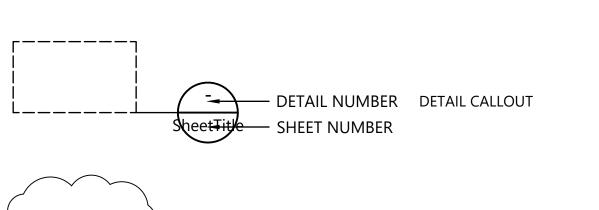
SYMBOLS



- DETAIL NUMBER

SCALE BAR

DRAWING TITLE



REVISION MARK AND CLOUD

UG

VAR

VERT

WF

WM

WS

W/O

UNKNOWN

VERTICAL

WITHOUT

YARD

UNDERGROUND

WATER METER

WATER STANDPIPE

VARIES OR VARIABLE

WEST, WIDTH, OR WATER

WATER FAUCET OR HOSE BIB



KEYNOTE

ELEVATION HEIGHT, DATUM POINT

PERMIT SET 2.14.2024

ABBREVIATIONS

ALIGNMENT AGGREGATE **ANGLE POINT** AMERICAN NATIONAL STANDARDS INSTITUTE **APPROXIMATE** ASPHALT **ASTM** AMERICAN SOCIETY FOR TESTING AND MATERIALS AVE BES **BUREAU OF ENVIRONMENTAL SERVICES BOTT** BOTTOM **BOUNDARY** BRIDGE BACKFILL BIKEWAY **BLOCK** BOULEVARD BLDG BUILDING BM BENCH MARK BWW BUREAU OF WATER WORKS CL CENTERLINE CLR CLEARANCE CONC CONCRETE CONN CONNECTION CONST CONSTRUCT **CONTROL POINT** CU. CUBIC CY CUBIC YARD DEGREE OF CURVE OR DELTA DIA DIAMETER DR DRIVE DWG DRAWING DRIVEWAY DWY EL, ELEV ELEVATION ELEC ELECTRICAL **EMB EMBANKMENT ESMT EASEMENT**

EW **EACH WAY EXCAVATION** EXIST, EXTG, EX. **EXISTING FOUNDATION** FINISHED FLOOR ELEVATION FINISHED FLOOR FIRE HYDRANT

> **FINISHED** FOOT OR FEET

GAUGE GALV GALVANIZED **GENERAL GUARDRAIL** HEIGHT

HORIZONTAL **INSIDE DIAMETER INCHES** INCLUDE **INSTALL OR INSTRUMENT**

JUNCTION BOX JUNCTION **KILOMETER** LIN LINEAL, LINEAR

LT

LV

ОН

LOC LOCATION LIGHT POLE LEFT LEVEL METER MATL

MATERIAL MAX MAXIMUM МН MAINTENANCE HOLE MIN MINIMUM **MODIFIED** MULTIPLE

MOD NORTH NE **NORTHEAST** NUMBER NOM **NOMINAL** NORM NORMAL

NTS NOT TO SCALE **NORTHWEST** OC ON CENTER OD OUTSIDE DIAMETER ODOT

OREGON DEPARTMENT OF TRANSPORTATION OVERHEAD LINES OREGON STATE HIGHWAY DIVISION

POWER OR SIGNAL POLE POINT OF CURVATURE PROFESSIONAL ENGINEER PED **PEDESTRIAN** PERF **PERFORATED** PERM **PERMANENT** PGE PORTLAND GENERAL ELECTRIC PROPERTY LINE POWER POLE PROF PROFILE PUMPING STATION POUNDS PER SQUARE INCH **PVMT**

PAVEMENT QUARTER SECTION CORNER

RADIUS ROADWAY REQUIRED REVISE RAILROAD RIGHT R/W. ROW/R.O.W. RIGHT OF WAY

RDWY

REQ'D

REV

SAN

SEC

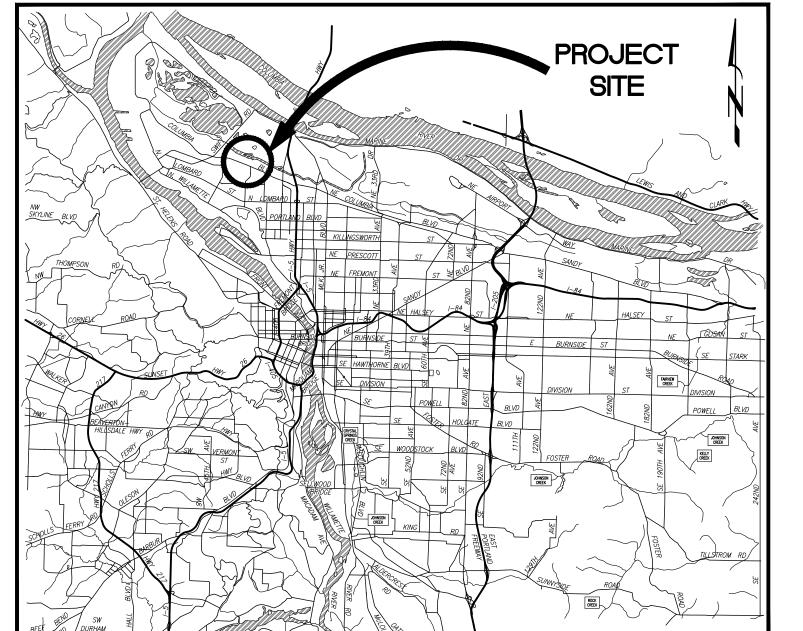
SEG

STD

SOUTH OR SLOPE SALV SALVAGE **SECTION CORNER** SOUTHEAST SECTION **SEGMENT** SF, SQ FT SQUARE FEET STREET STANDARD STEEL

STL STM STORM, STORM SEWER SURF SURFACE SW **SOUTHWEST** S/W SIDWALK TBM TEMPORARY BENCHMARK TOP OF CURB OR TRAFFIC CONTROL

TEMP **TEMPORARY THKN** THICKNESS TOPO **TOPOGRAPHY** TOP OF PAVEMENT TYP TYPICAL



PORTLAND, OREGON **VICINITY MAP** NOT TO SCALE

CITY OF PORTLAND VERTICAL DATUM AND OCRS83.PORTLANDIF

CITY OF PORTLAND TEMPORARY ALTERNATIVE SHELTER SITE 2

COVER SHEET 10505 NORTH PORTLAND ROAD PORTLAND, OR 97209

1924, 1925 JOB NO. 23003.01 A0.0 1 OF 10

KMIIN Y				XREF(S) USED: ;2023-11-15 MFDR000304 10505 N Portland Rd TOPO;COP SITE 2 -SI ROTATION ANGLE: 0d0'0"		SY, LE	DATE APPROVED
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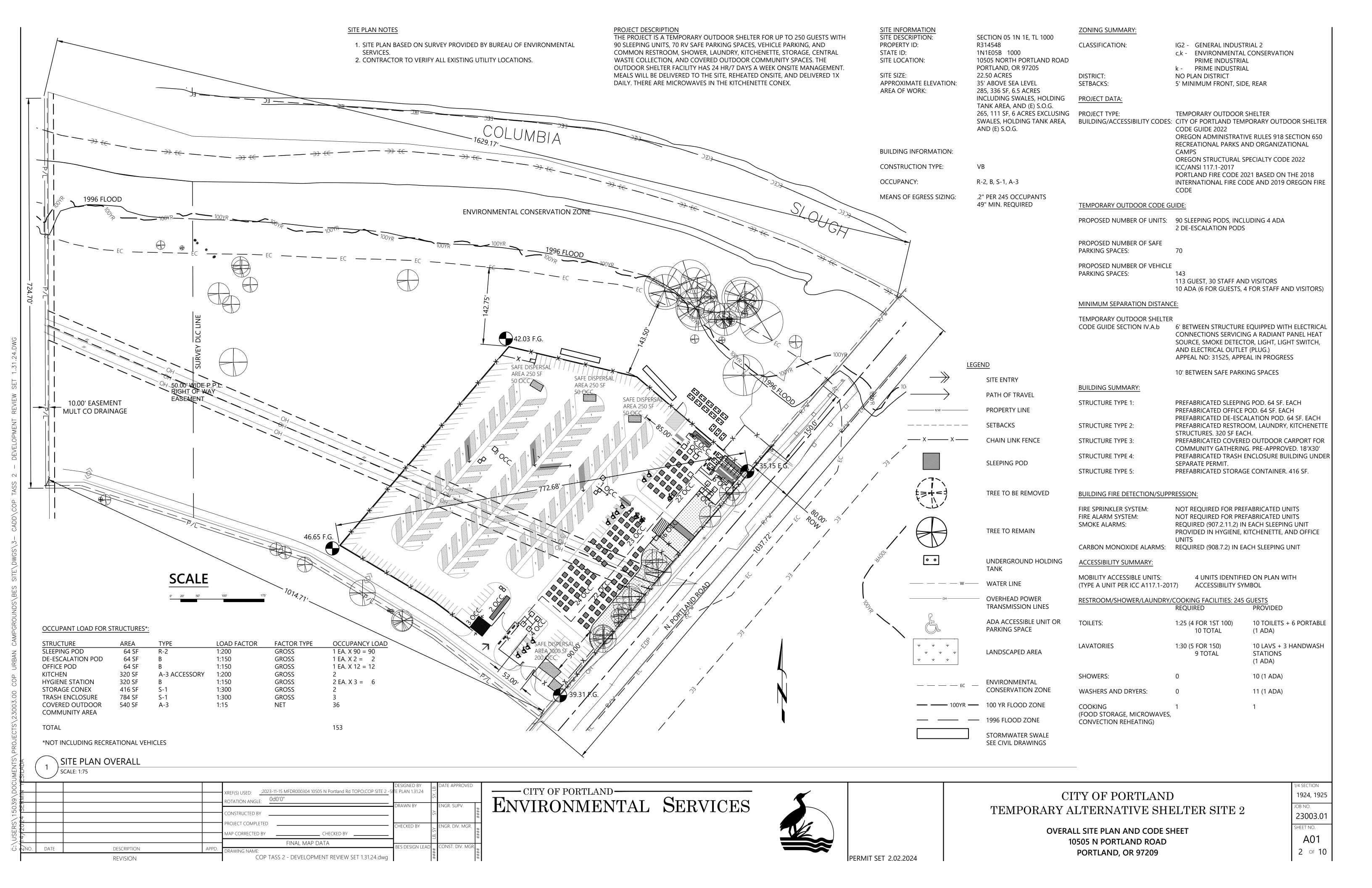
—— CITY OF PORTLAND— Environmental Services **APPROVAL**

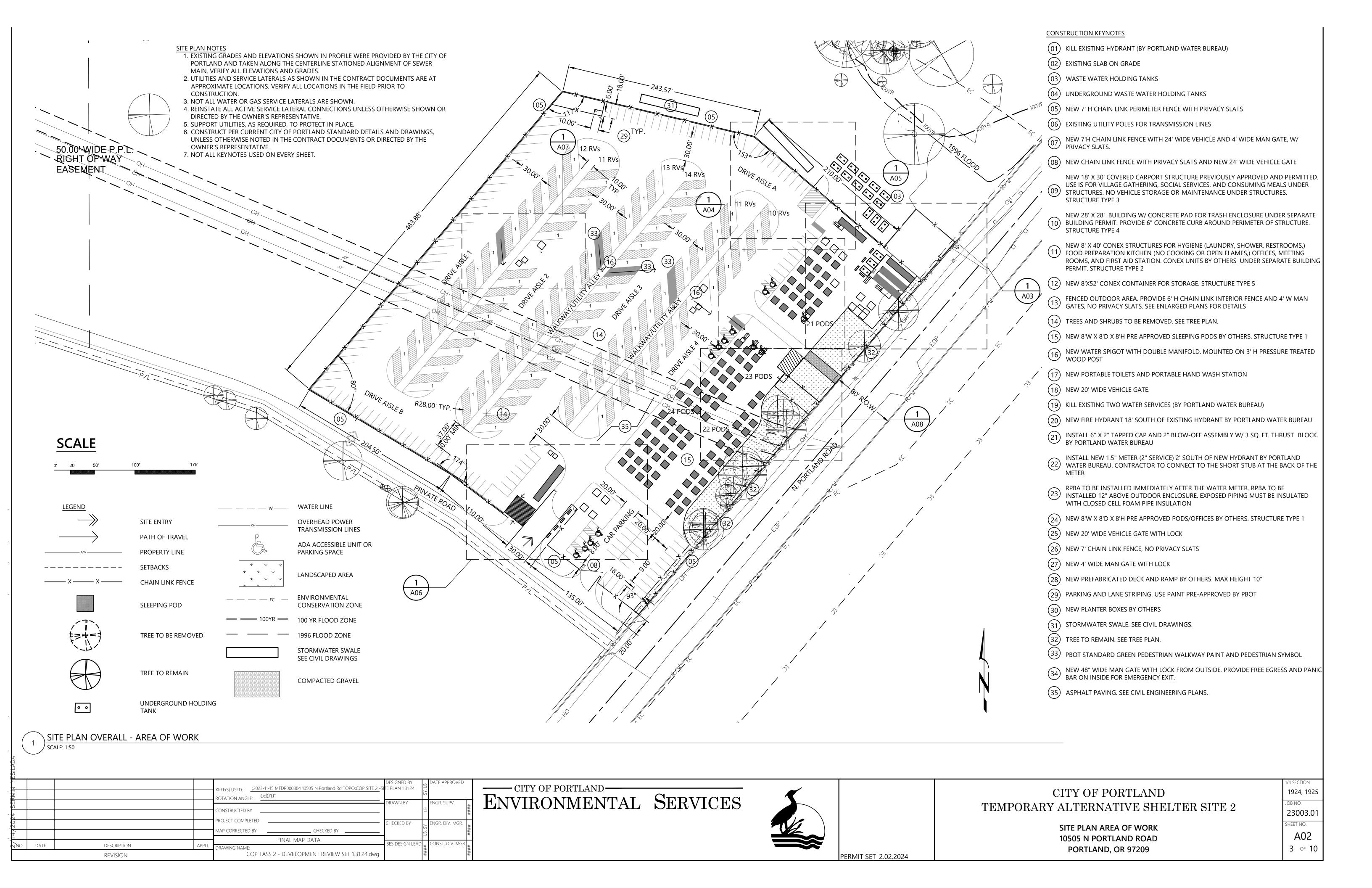
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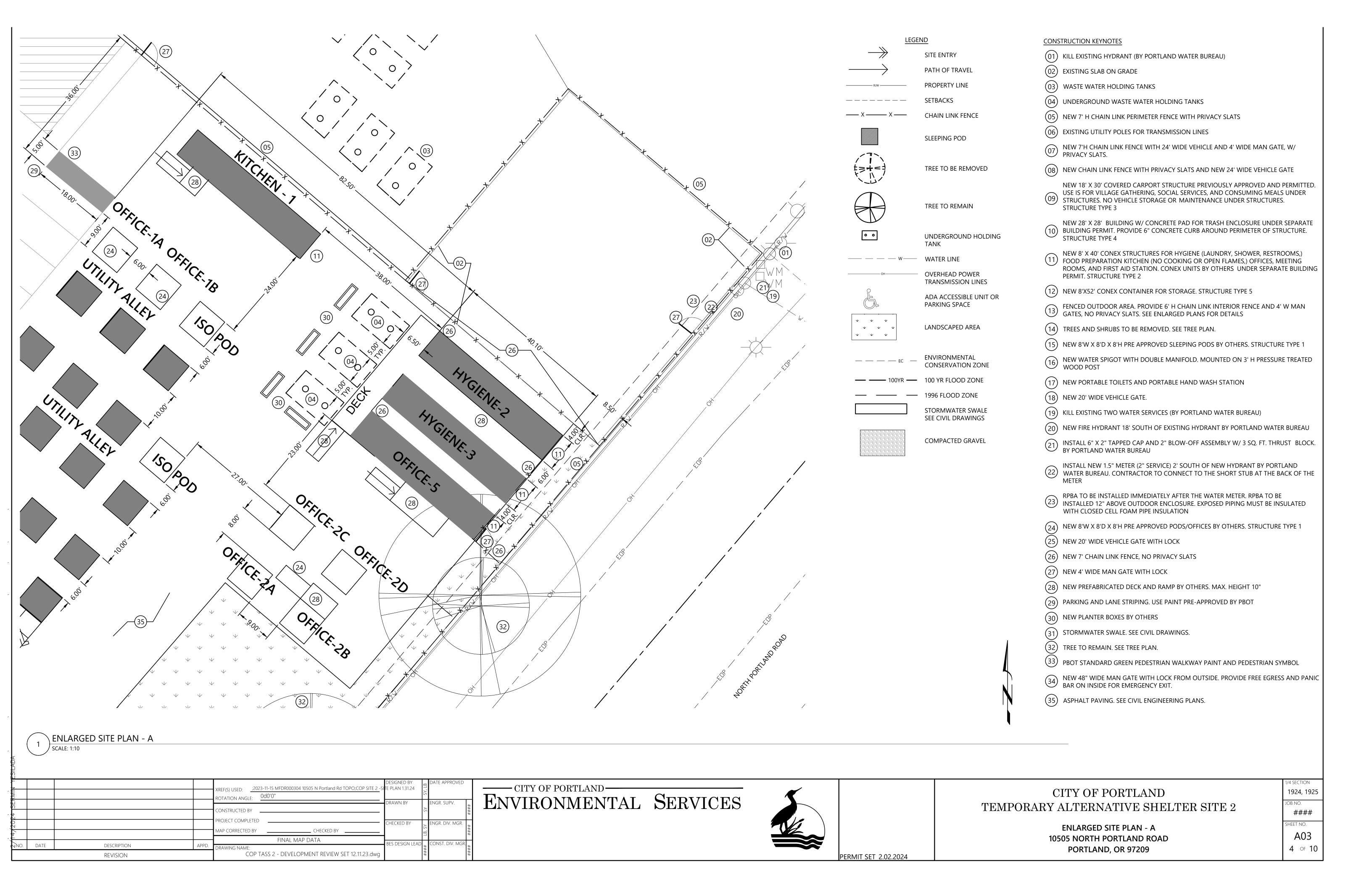
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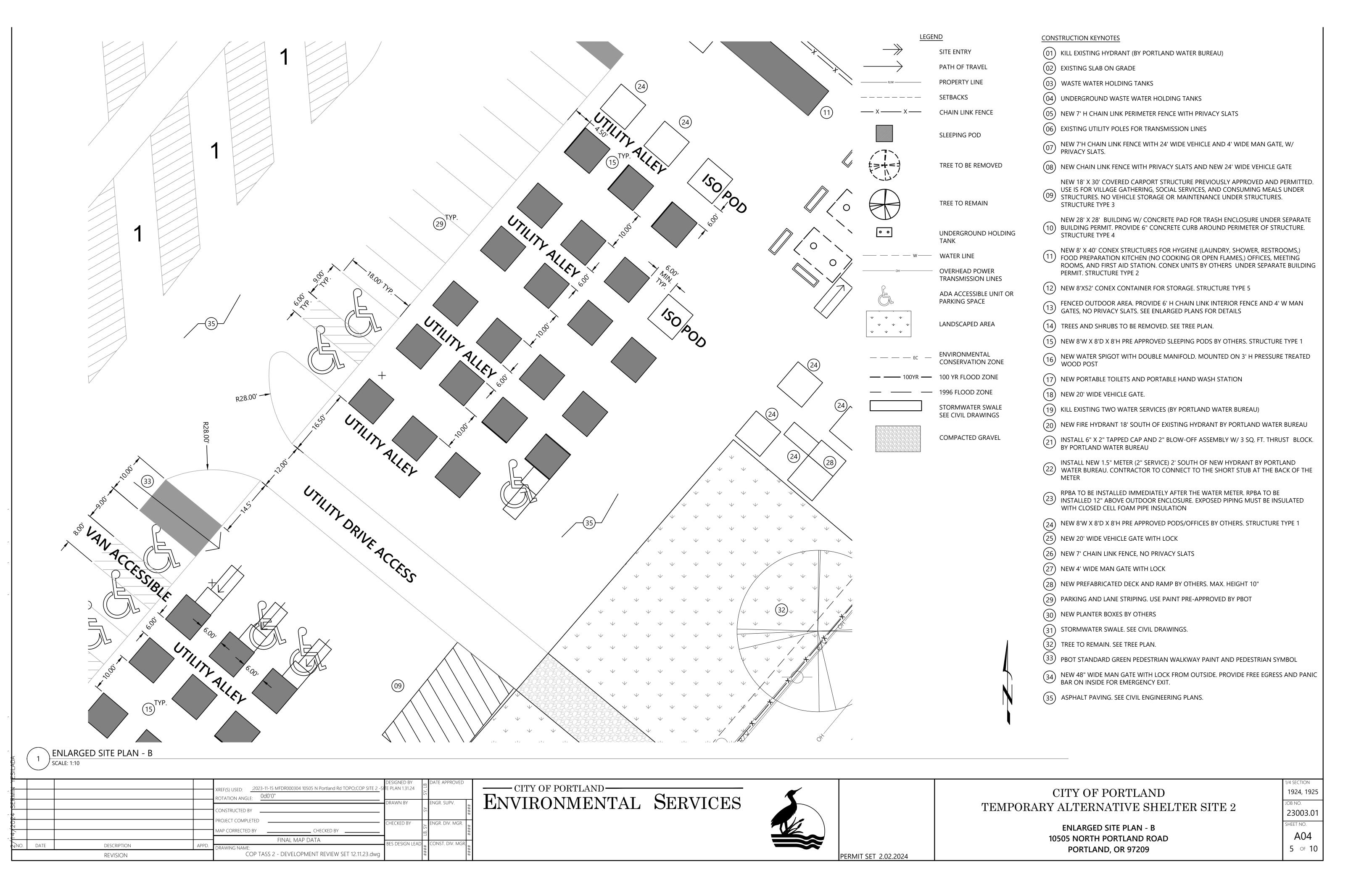
CHIEF ENGINEER

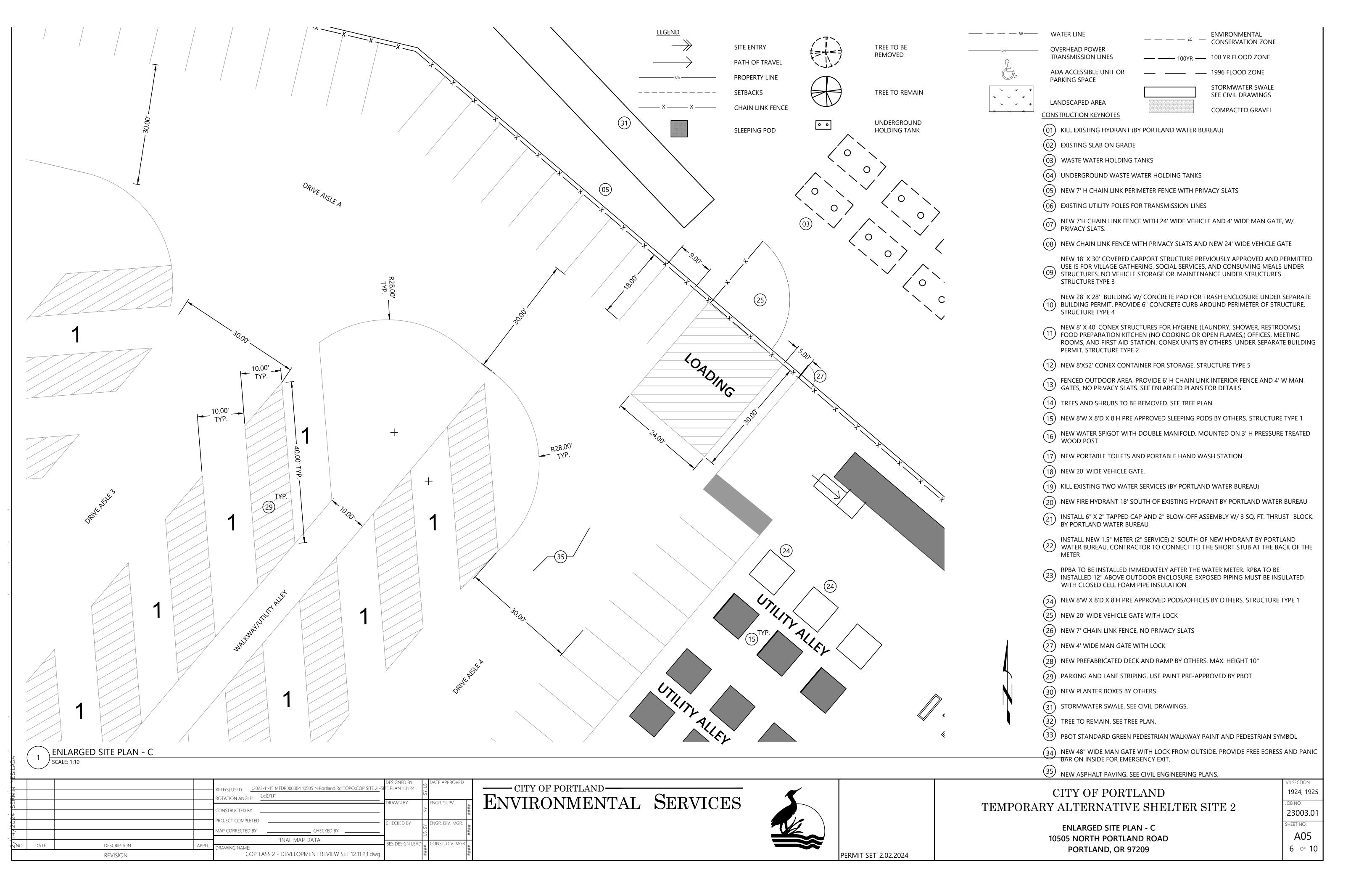
ENVIRONMENTAL SERVICES CHIEF ENGINEER

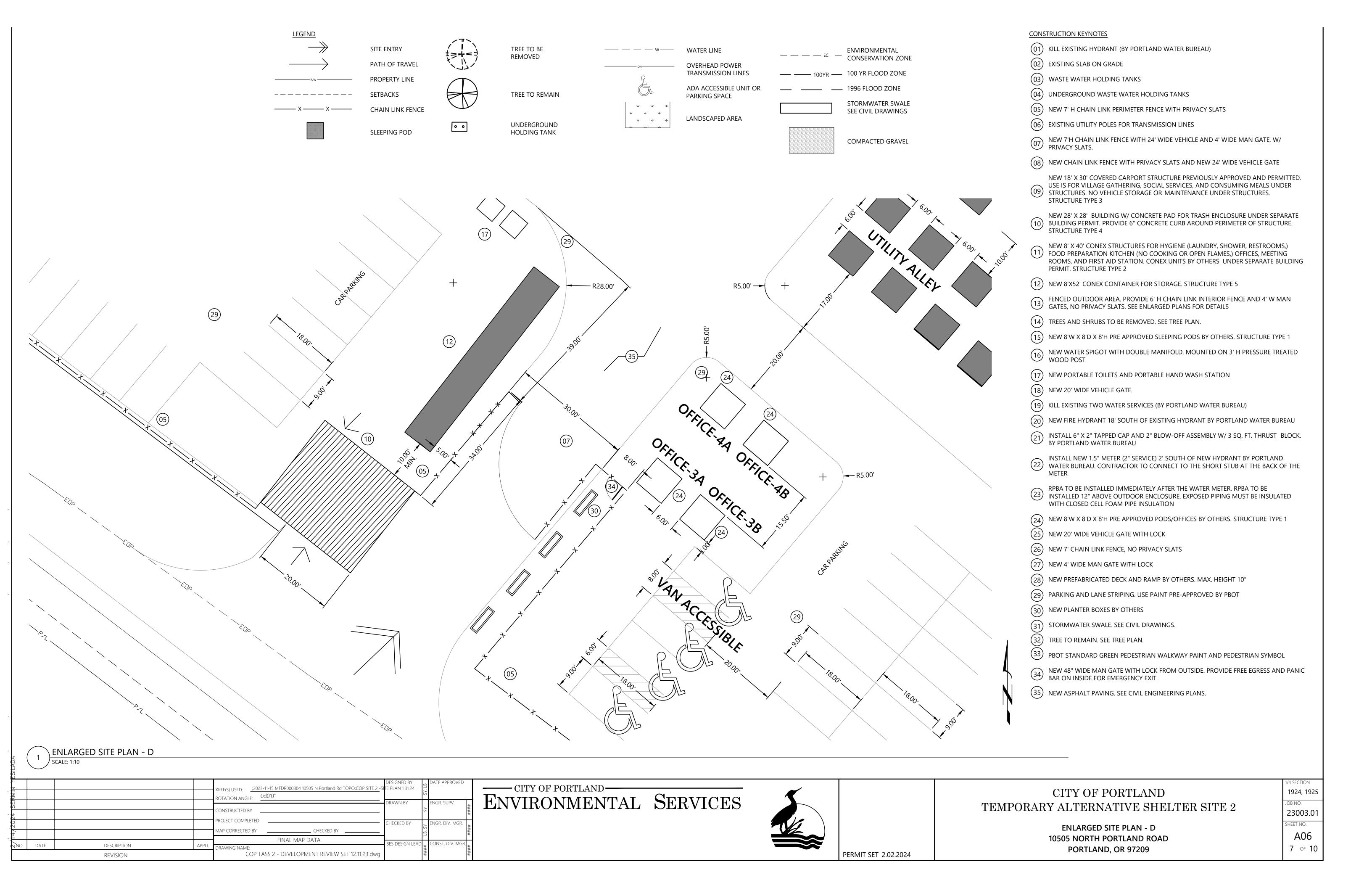


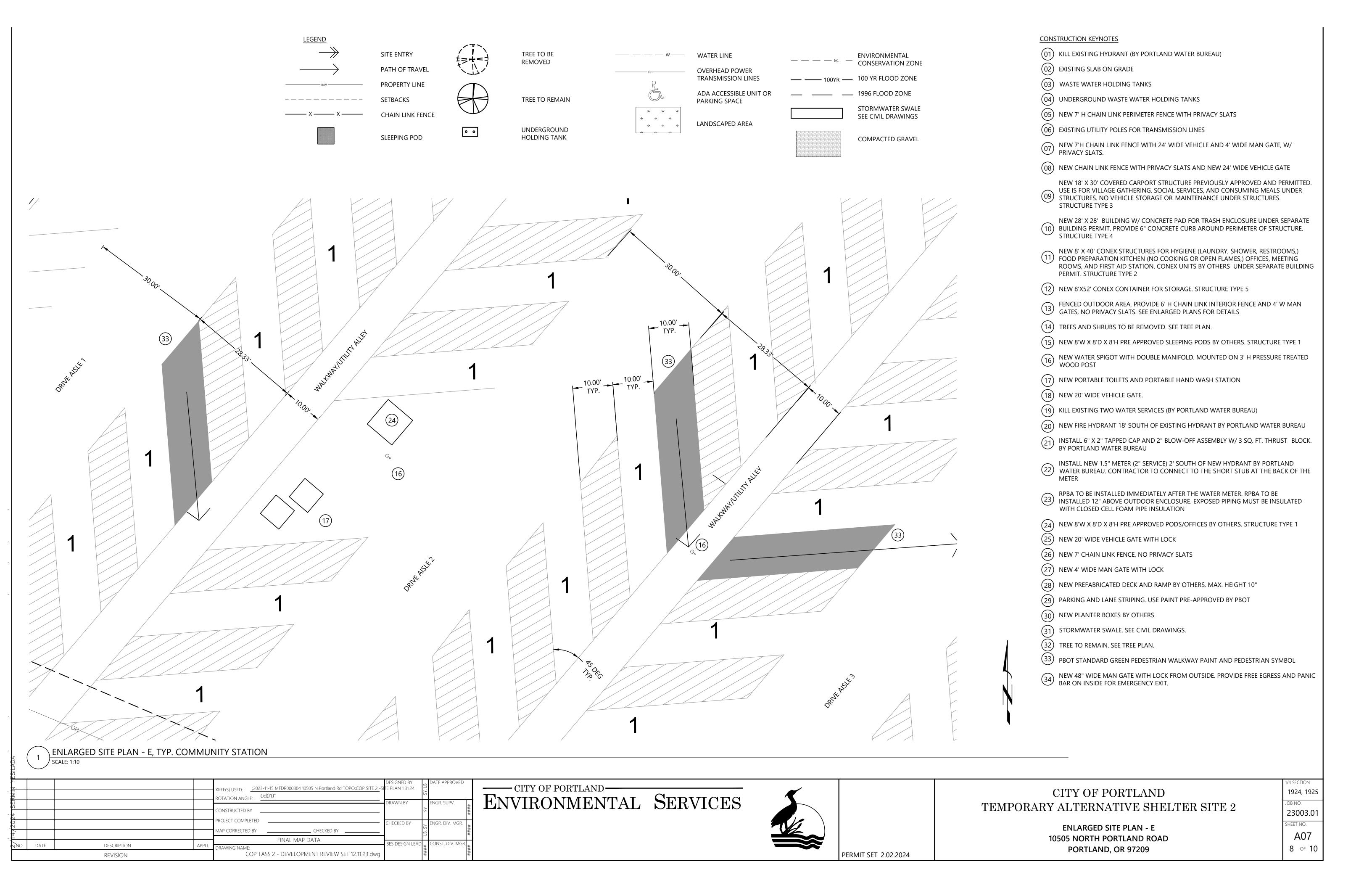


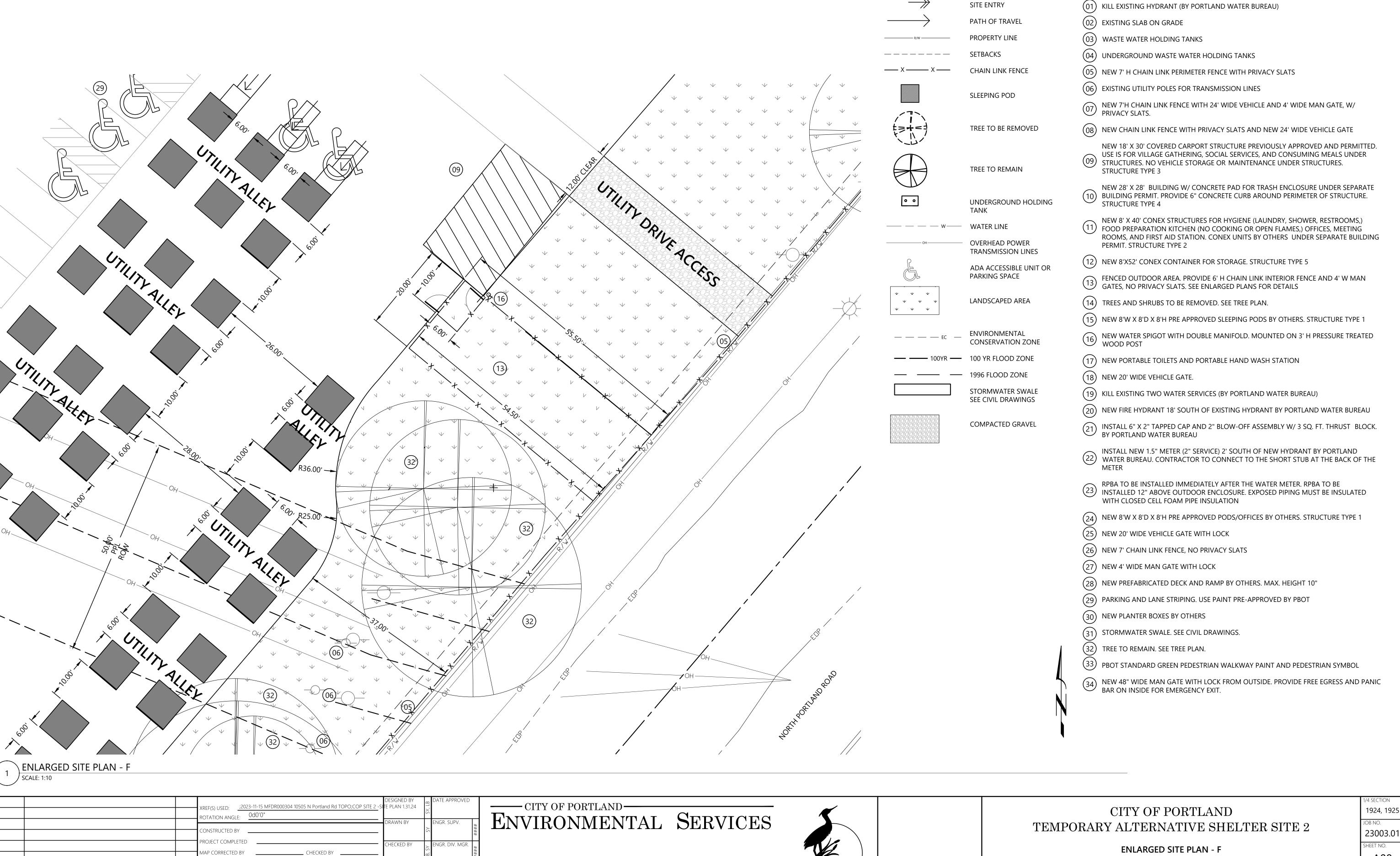












FINAL MAP DATA

COP TASS 2 - DEVELOPMENT REVIEW SET 12.11.23.dw

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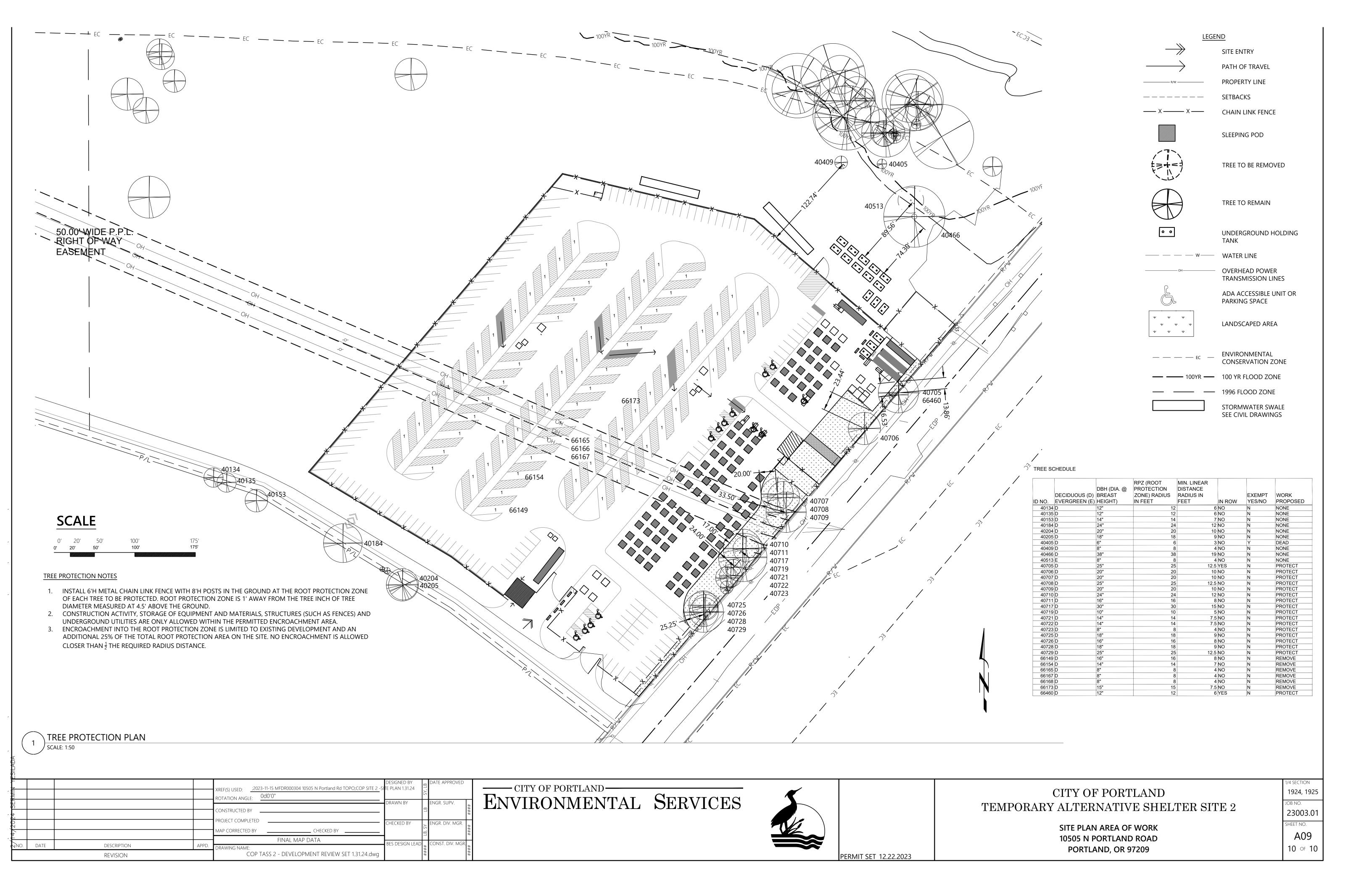
PERMIT SET 12.22.2023

<u>LEGEND</u>

CONSTRUCTION KEYNOTES

ENLARGED SITE PLAN - F 10505 NORTH PORTLAND ROAD

PORTLAND, OR 97209



THIS PROJECT PERMITTED UNDER THE AUTHORITY OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ)

Western Region Salem Office 4026 Fairview Industrial Dr. SE

Salem, OR 97302 503-378-8240

TASS 2

T:1N, R:1E, SEC:05, TL:1000

10505 N Portland Rd, Portland, OR 97203, USA

Table of Contents

Cover Sheet	Page 7	Holding Tanks (A1-5 & B1-5)
Construction Specifications	Page 8	Equalization Tank (E1)
System Schematic	Page 9	Recirculation Tanks (R1 & R2)
Site Plan Overall	Page 10	Trash Tank Section
Site Plan Tank Area	Page 11	Holding Tank Section
Trash Tanks (T1-T3)	Page 12	Section C-C and Pump Out Basin
	Construction Specifications System Schematic Site Plan Overall Site Plan Tank Area	Construction Specifications Page 8 System Schematic Page 9 Site Plan Overall Page 10 Site Plan Tank Area Page 11



Project Description

A Temporary Housing and Shelter Site is proposed for 71 RV spaces, 90 living pods, and 143 cars serving an estimated 418 guests and 30 staff. The estimated peak daily flow is 15,000 gallons per day.

All wastewater will be generated by guests and staff using the First Aid office and the 2 community restroom/showers and laundry facilities. There is a kitchen to serve food prepared off-site. There are no RV hookups. There are also 6 portable toilets with hand washing stations.

Residential strength sewage will flow from each of the restrooms (designated H1-2) and the First Aid Office (O-5) into 1500 gallon tanks (designated T1-3). Effluent from these tanks will flow by gravity and comingle in a 3000 gallon dosing tank (Tank E1). This effluent will be dosed to a splitter basin equally dividing the flow into two parallel series of 1500 gallon tanks (A1-5 and B1-5). Effluent from each row of tanks will flow separately into one of two 3000 gallon tanks (R1 and R2) for storage. Tank R1 is fitted with an audible and visual alarm activated at 75% capacity, to indicate the need for pumping out the holding tank system.

Pump out will be via a remote pipe connection, with effluent pumped from tanks E1, R1 and R2 through a 3" pipe fitted with a quick disconnect for direct connection to the pumper truck's vacuum hose. Pumps in each tank will be manually operated until the tank is emptied. These controls will be located in a shed near the pump out basin.

This temporary holding tank system is designed to accommodate the future phase of onsite treatment and disposal, or as pretreatment before being released to a municipal sewer system.

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).

PERMITS TO NOTIFY EXCAVATOR OF REQUIREMENTS OF LAW

952-001-0030 Any entity authorized to issue permits for construction which requires excavation shall include on such permits the language set out in OAR 952-001-0020.

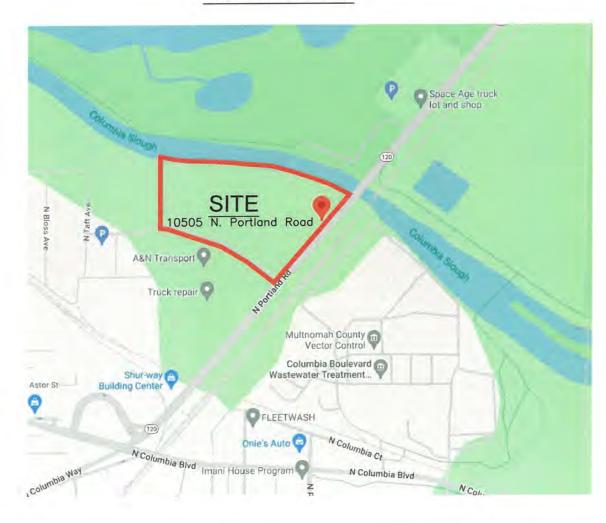
Site and Soils

Domestic water supply by: Portland Water Bureau

INSTALLER: Superior Underground, LLC

LICENSE #: 39230

VICINITY MAP





4080 SE International Way Suite B112 Milwaukie, OR 97222

//	AED ENVIRO	
REG/S/	OREGON	200
HER	Robert F. Sweeney/ EH-S-202513 Expires 30 SEP 24	5/
	OFLE	

CHECK OFF		ELECTRICAL COMPONENTS
UFF	GENERAL STANDARDS	Wiring of pumps and controls shall be performed by a licensed of under the auspices of an electrical permit secured from the local controls.
	ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010	For details of electrical system, pump controls, floats, and the lessettings see the
	through OAR 952-001-0090. You may obtain copies of the rules by calling the center, (Note: the telephone nu	Splicing of w ires at the splice box inside the tank risers shall be heat shrink connectors provided by the manufacturer or with an w atertight electrical connector nut.
	All work and material shall conform with OAR 340 Div. 71 & 73 approved design permit, and appropriate laws. Permits relating (but not limited) to plumbing, electrical, and grading must be coordinated with the on-site system	Wiring from the splice box to the source or the control panel sha
	installer and designer. Minor modifications to accommodate stumps, boulders or other unforeseen	in UL approved PVC conduit, constructed w atertight. Pump line have w ater proof insulation such as THW, THWN, or HHW. Wir
	obstacles may be needed. Major modification cannot be performed without redesign and regulatory approval.	"Seal offs" shall be 14 gaug "Seal offs" shall be installed between the splice box and the pool
	If the installation contractor (installer) notes any conflicts with applicable State and/or local laws, rules or requirements, he shall request a clarification before ordering or installing affected materials or work. This may include and is not	control panel, either in the horizontal just outside the riser or in the below the control panel or per connection. "Seal offs" shall be impanufacture
	limited t Installer is to obtain copies of all necessary permits, authorizations, licenses	Wiring shall be color coded or numbered and the schedule written control panel or on the wiring diagram.
	etc. prior to initiating construction, including that specialty design work designated to a subcontractor which is directly or indirectly related to the system construction,d	Upon completion, the apparatus shall be tested for operation and Available voltage, pump run voltage and pump run amperage shand recorded inside the control panel.
	Installer shall request and obtain utility locates by a qualified service for all potential underground utilities before excavation work commences.	The wiring diagram shall be retained on site (preferably in control enclosure) and any as-built notes or comments entered, initialed
	Installer shall maintain any and all survey monuments, which are affected by work and activities, related to the projects. Monuments, if damaged by the	CONTROL PANEL (S)
	installer, shall be reset by a licensed surveyor at the installer's expense. All materials and equipment shall be of the type, model and brand listed for the	The electrician shall label the control panel or electrical panel winame and the permit number and date of installation.
	manufacturers specified, unless otherwise authorized by the system designer. Substitution of materials and equipment shall receive pre-authorization and the	Control panel shall be installed per manufacturers w ritten instructurers shall be audible from the living/w orking space. Pump and alarm separate circuits.
	Installer shall prepare, maintain and provide, at completion of the project,	Panel shall be in accordance with NEWA 4X rating. Panel enclose NEWA 4X requirements.
	draw ings detailing the construction "as-built" and shall provide the owner & designer with the manufacturer's current specification and operating data on	Panel shall be installed within 50' of tank and preferably within s
	TANK (S)	OTHER
_	Seal all joints and seams with manufacturer-approved sealants. Provide	Setbacks: Maintain required setbacks
	material submittal, and all means and methods for tank and accessory testing.	COLLECTION SYSTEM
	Odor proof: Seal riser lid to contact with closed cell plastic foamsheet, or	Contractor to obtain plumbing permit.
	single-side adhesive neoprene foam tape. Riser: Tank must be equipped with a watertight riser, with minimum 18" inside	Do not use the plumbing system for disposal of non-biodeegrada toxic materials such as paints, thinners, gasoline, motor oil, drain
	diameter, with tank access brought to or above finish grade. Riser must be fiberglass bonded to tank adapter w / adhesive. Knockouts: Perforations and unused knockouts must be grouted or otherwise	other harsh chemicals. Do not use the plumbing system for disposal of cooking grease, sanitary napkins, rags, cigarette butts, rubber or plastic product
	sealed. Watertight: After installation, Tank must be subject to 24 hour test for	Water softener backwash, storm or ground water sources, floo be connected to the septic system.
	w atertightness. Fill to a maximum 2" into riser. Mark w ater level, time and date.	DISTRIBUTION AND TRANSPORT
	There may be no more than 1 gallon leakage over 24 hour period. THE ABOVE SPECIFICATIONS ARE IN ADDITION TO AND DO NOT REPLACE.	Road crossing: Sleeve transport pipe in Sch. 40 PVC, installed a 18" below grade, and bedded in ¾ minus to the surface.
	THE MANUFACTURERS WRITTEN INSTALLATION AND TESTING PROCEDURE REQUIREMENTS.	Road/Drivew ay crossing: Use Sch. 40 or Sch. 80 PVC, installed 24" below grade, and bedded in ¾ minus to the surface. Trace w ire: Provide an electrically continuous 18 gauge, green-jcopper w ire in trench, above the pipe, for the full length of all provided in the surface.
		gravity transport lines, accessible at the source end. DESIGNER INSPECTIONS
		DESIGNER INSPECTIONS

electrician cal jurisdiction. level of the float

be done using the an approved

hall be protected ne voltage shall Vire for all

ow er source or the vertical just e installed per

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and correctness. shall be measured

trol panel ed, and dated.

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ructions; alarm m must be on

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sight of the tank.

dable and/or ain cleaners, or

e, diapers, oor drains not to

LINES

a minimum of

ed a minimum of

n-jacketed pressure or

During system construction, the designer, Environmental Management Systems (EMS) shall inspect all components of the installation. These inspections are to be coordinated with the installer and the Oregon Department of Environmental Quality.

2/6/2024 Page SNOIL TL:1000 < CIFIC/ Portland-TASS SEC:05, SPI MOIL R:1E, of RE T:1N, City ONS

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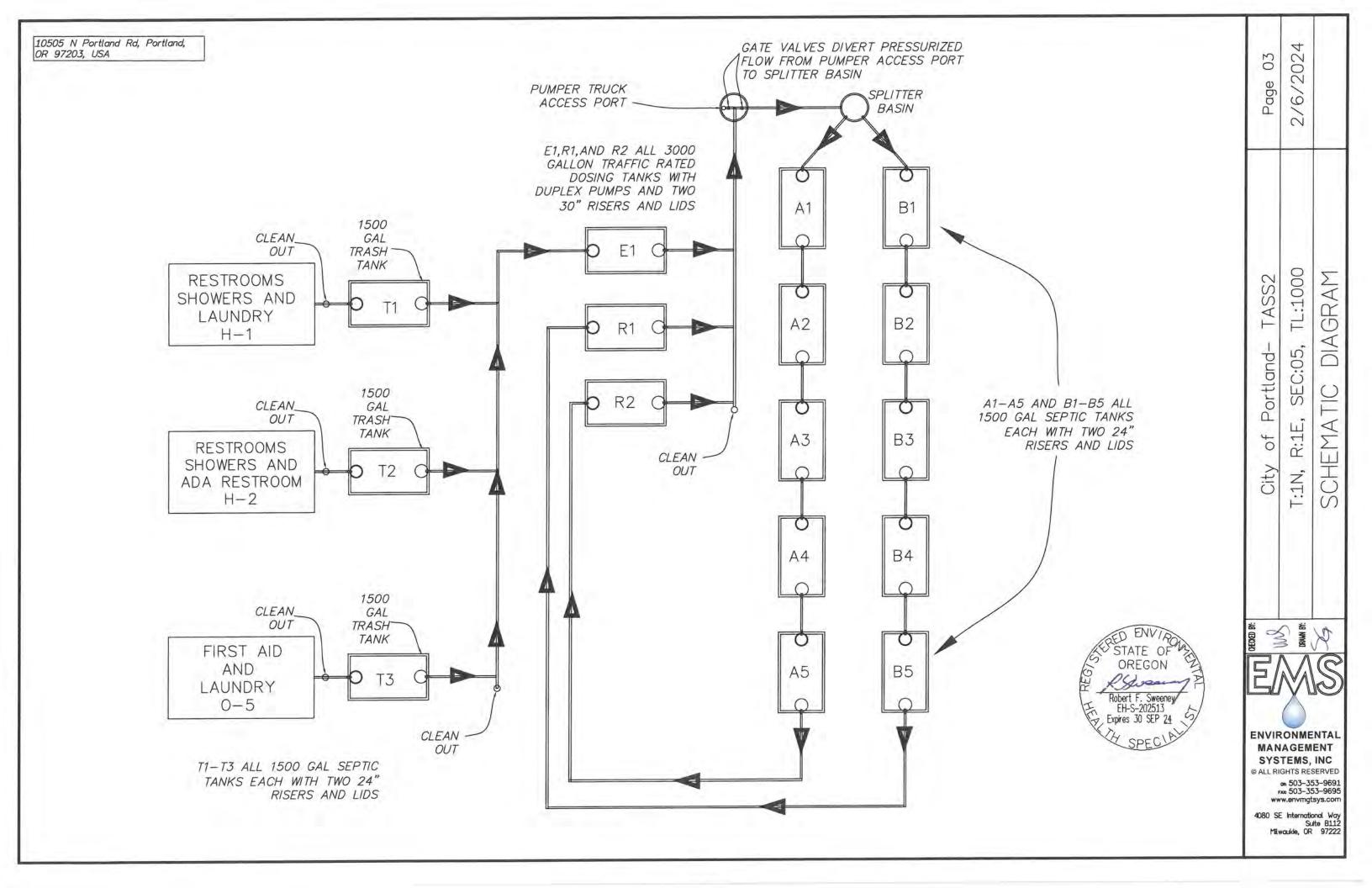


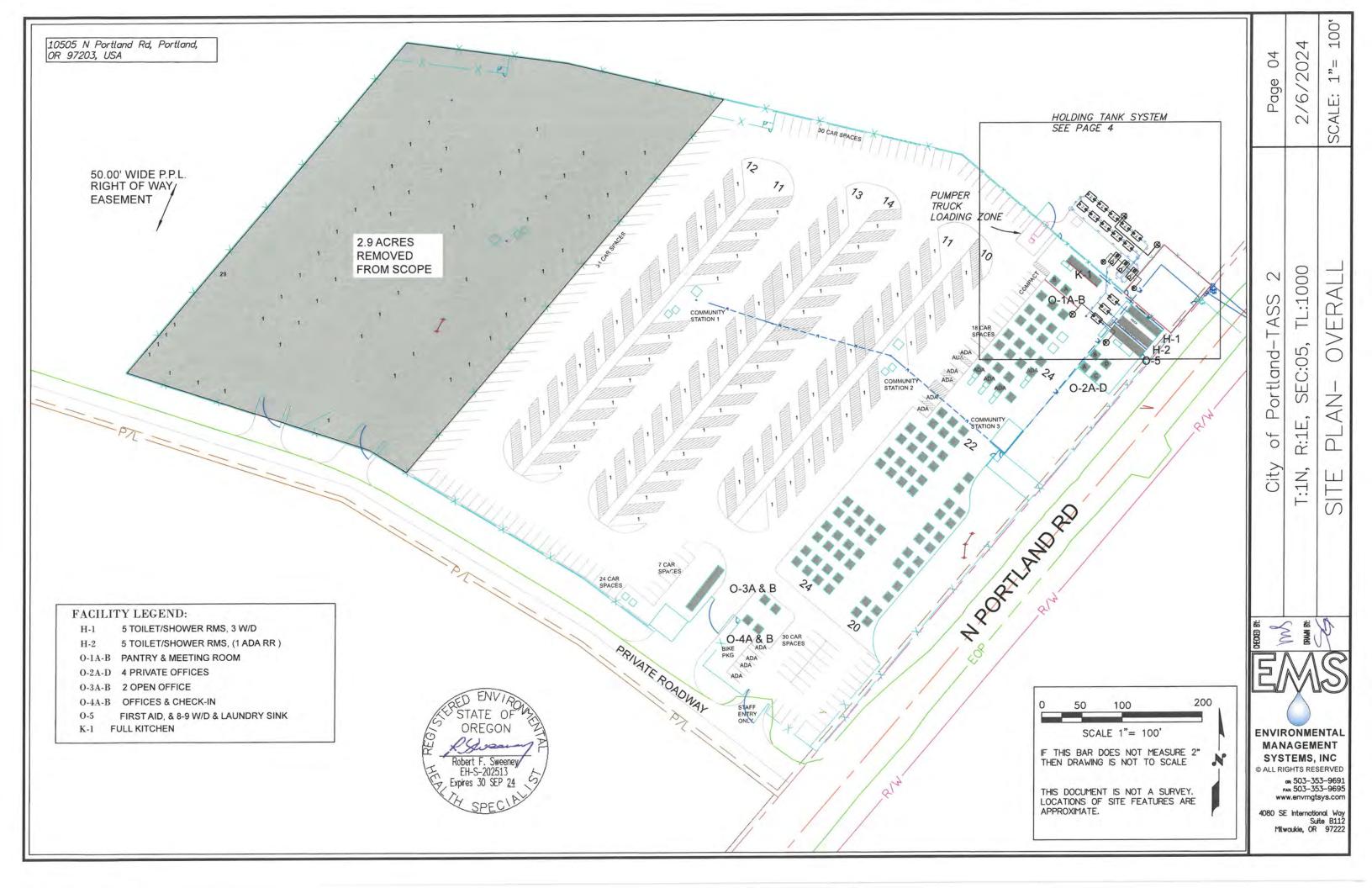


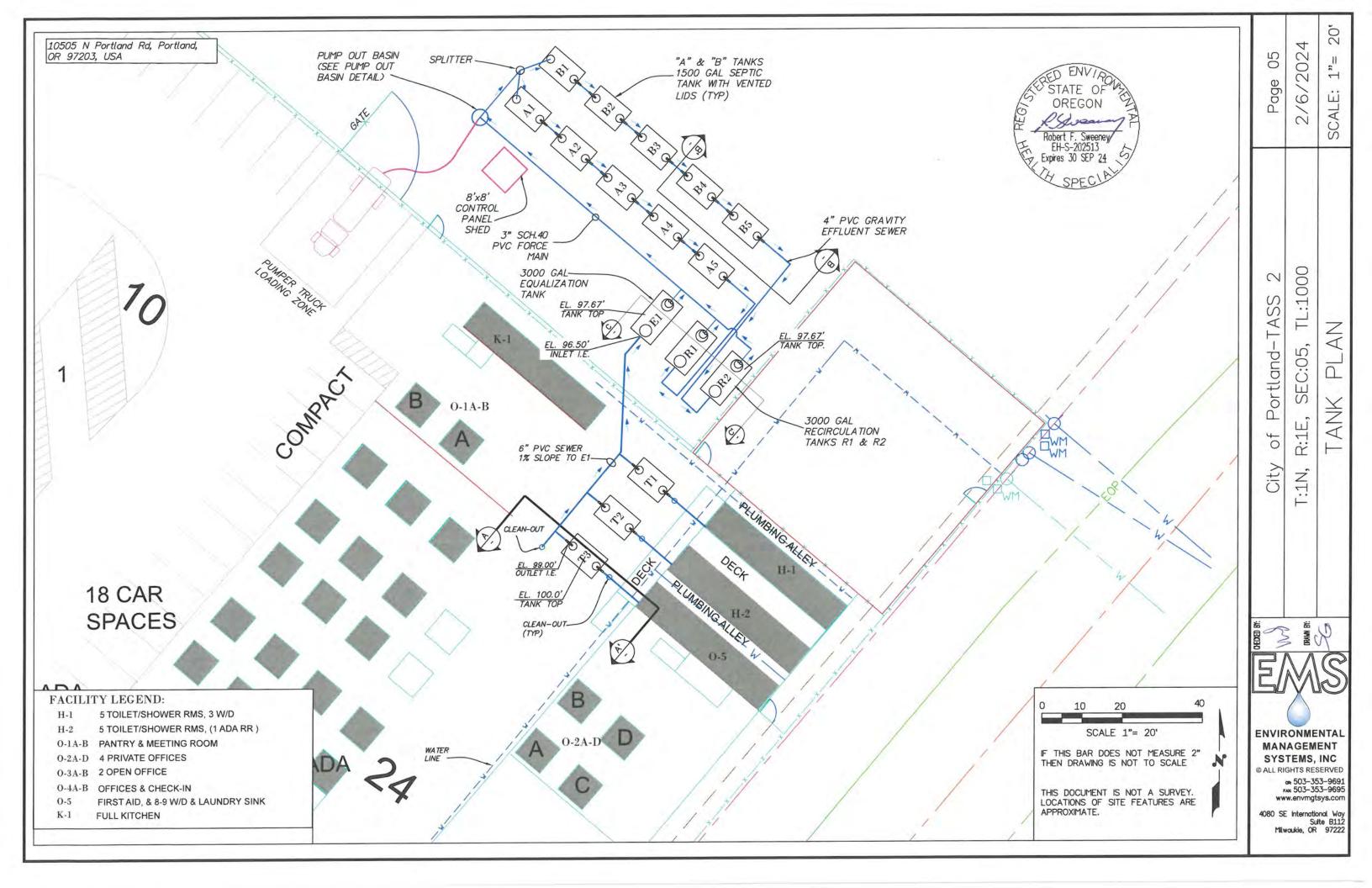
ENVIRONMENTAL MANAGEMENT SYSTEMS, INC

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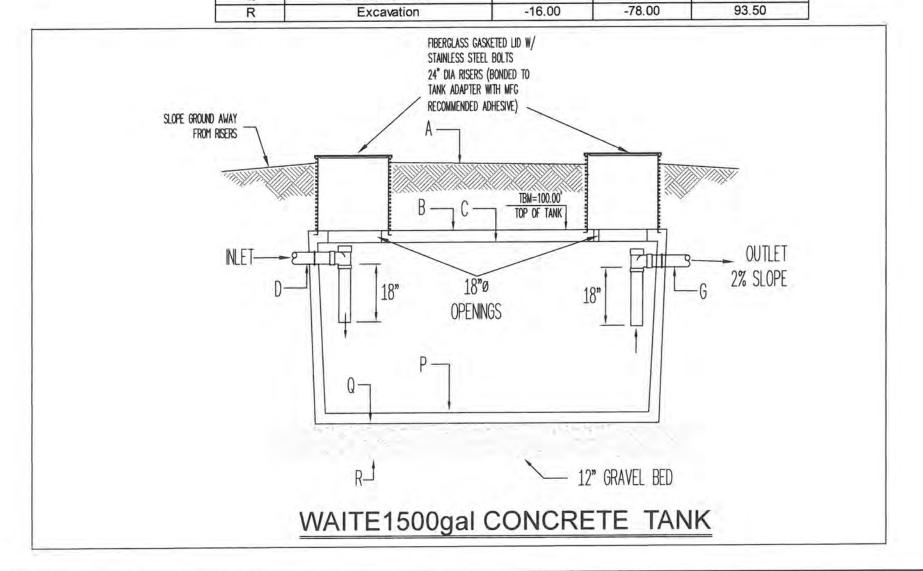




		(Inches)	Tank Top (Inches)	Elevation from TBM (feet)
A	Ground Surface	84.00	22.00	101.83
В	Top of Tank	62.00	0.00	100.00
С	Ceiling of Tank	57.00	-5.00	99.58
D	Inlet Invert	50.00	-12.00	99.00
E	RSV Manifold	na	na	na
F	RSV Stinger Seat	na	na	na
G	Outlet Invert	48.00	-14.00	98.83
н	Outlet Opening	na	na	na
1	Alarm (HWA)	na	na	na
J	Pump On	na	na	na
K	Pump Off	na	na	na
L	na	na	na	na
M	Redundant Off	na	na	na
N	Vault Inlet Holes	na	na	na
0	Pump Intake	na	na	na
Р	Floor of Tank	0.00	-62.00	94.83
Q	Bottom of Tank	-4.00	-66.00	94.50

TBM= 100.00' USING TOP OF TRASH TANKS





3) TL:1000 TASS SEC:05, Portland-A R:1E, of T:1N, ANK ENVIRONMENTAL MANAGEMENT SYSTEMS, INC m 503-353-9691 m 503-353-9695

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2/6/2024

05

Page



Holding Tanks A1 and B1 **Elevation from** Elevation from Estimated Tank Top Elevation from Tank Floor Letter Component TBM (feet) (Inches) (Inches) 22.00 101.83 Ground Surface 83.00 A 100.00 61.00 0.00 Top of Tank В 99.58 Ceiling of Tank 56.00 -5.00 C 99.16 -10.00 51.00 D Inlet Invert E **RSV Manifold** na na na na **RSV Stinger Seat** na F na na na G Outlet Invert na **Outlet Opening** na na na Н Alarm (HWA) na na na Pump On na na na J na Pump Off na K na na na na M Redundant Off na na na N Vault Inlet Holes na na na na 0 Pump Intake na na

0.00

-3.50

Floor of Tank

Bottom of Tank

P

Q

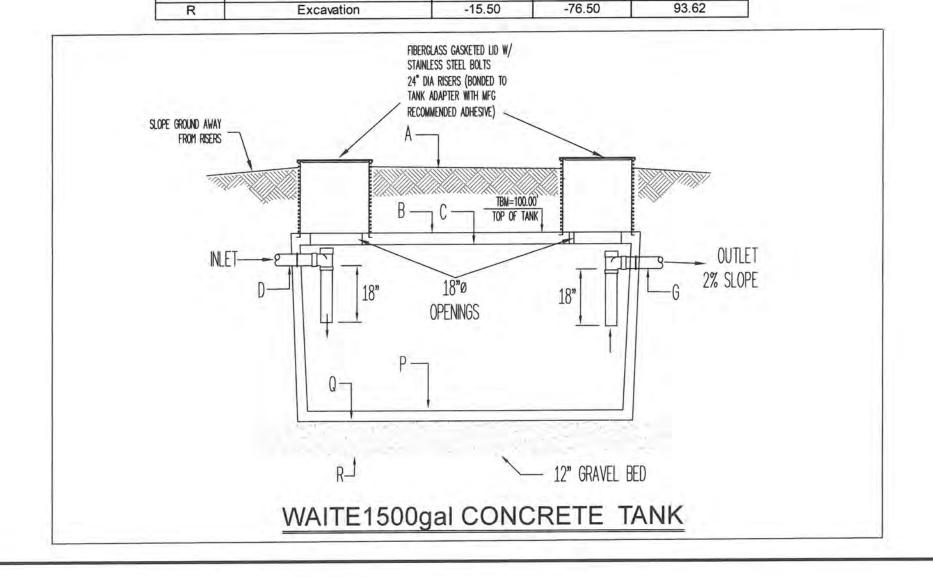
-61.00

-64.50

94.91

94.62

EACH SUBSEQUENT TANK (NUMBERS 2-5) IS SET 2" DEEPER THAN THE ONE PRECEDING IT. SEE PAGE 10.



2/6/2024 Page 06 TL:1000 \exists Portland-TASS SEC:05, ANK بُنا of R:1 City T:1N,

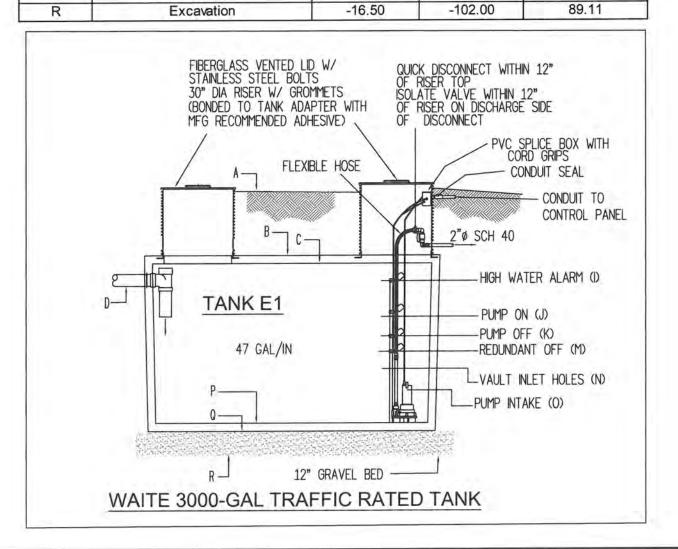


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Letter	Component	Elevation from Tank Floor (Inches)	Elevation from Tank Top (Inches)	Estimated Elevation from TBM (feet)
A	Ground Surface	136.18	50.68	101.83
В	Top of Tank	85.50	0.00	97.61
C	Ceiling of Tank	77.50	-8.00	96.94
D	Inlet Invert	71.50	-14.00	96.44
E	RSV Manifold	na	na	na
F	RSV Stinger Seat	na	na	na
G	Outlet Invert	na	na	na
Н	Outlet Opening	na	na	na
1	Alarm (HWA)	na	na	na
J	Pump On / 75% Alarm	55.00	-30.50	95.07
K	Pump Off	na	na	na
L	na	na	na	na
M	Redundant Off	na	na	na
N	Vault Inlet Holes	na	na	na
0	Pump Intake	na	na	na
Р	Floor of Tank	0.00	-85.50	90.48
Q	Bottom of Tank	-4.50	-90.00	90.11



TBM=100.00' AT TOP OF TRASH TANKS





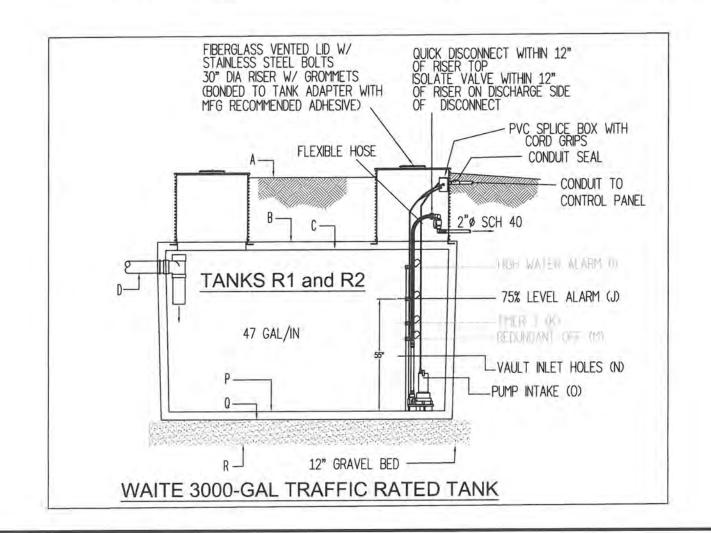
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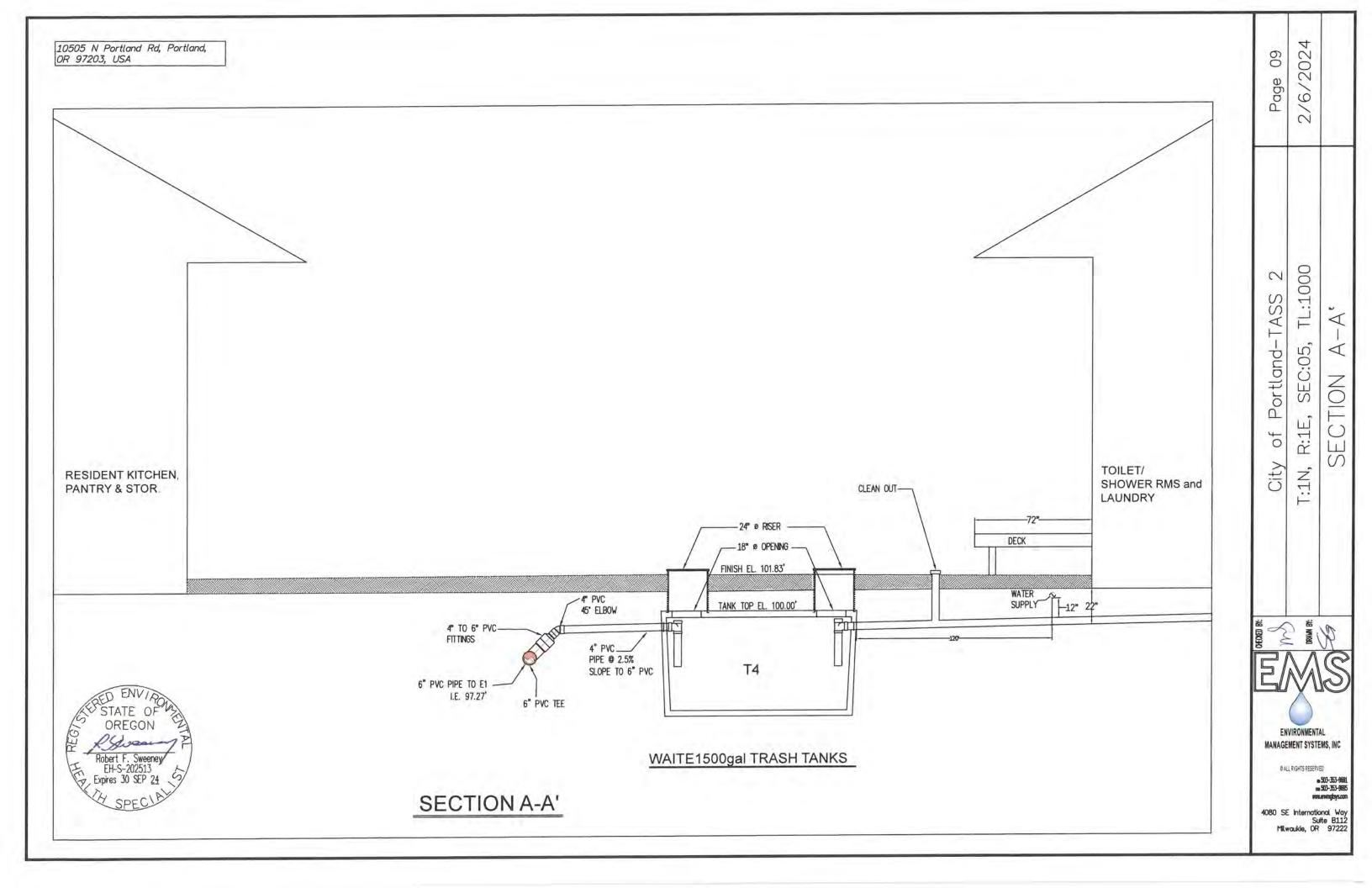
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Recirculation Tanks (R1 and R2)				
Letter	Component	Elevation from Tank Floor (Inches)	Elevation from Tank Top (Inches)	Estimated Elevation from TBM (feet)
A	Ground Surface	136.18	50.68	101.83
В	Top of Tank	85.50	0.00	97.61
С	Ceiling of Tank	77.50	-8.00	96.94
D	Inlet Invert	71.50	-14.00	96.44
E	RSV Manifold	na	na	na
F	RSV Stinger Seat	na	na	na
G	Outlet Invert	na	na	na
Н	Outlet Opening	na	na	na
1	Alarm (HWA)	43.22	-42.28	94.08
J	Pump On	na	na	na
K	Pump Off	na	na	na
L	na	na	na	na
М	Redundant Off	na	na	na
N	Vault Inlet Holes	na	na	na
0	Pump Intake	na	na	na
Р	Floor of Tank	0.00	-85.50	90.48
Q	Bottom of Tank	-4.50	-90.00	90.11
R	Excavation	-16.50	-102.00	89.11





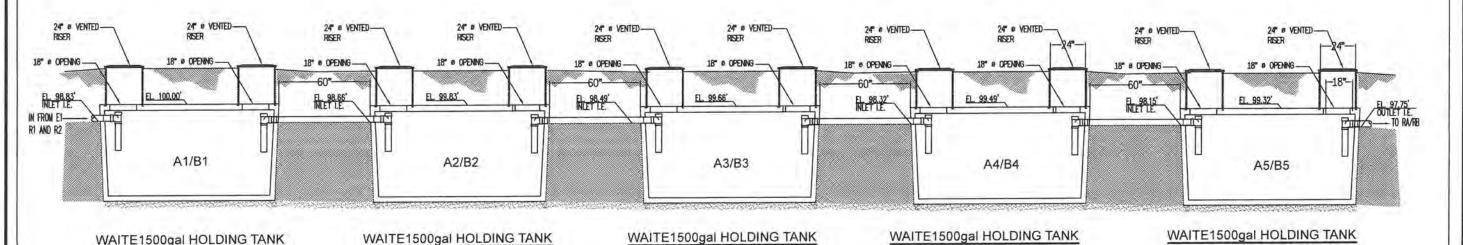


NOTES

WAITE1500gal HOLDING TANK

- USE WAITE CONCRETE 1500 GALLON TANKS
- . TANK MINIMUM BURIAL DEPTH 24"
- . TANKS TO SET ON 12" BED OF 3/4 MINUS GRAVEL
- . TANKS TO BE BACKFILLED WITH 3/4 MINUS GRAVEL TO FINISH GRADE
- . EACH TANK IN THE SERIES IS SET 2" LOWER THAN THE PRECEDING UPSTREAM TANK





SECTION B-B'

TL:1000 N TASS m SEC:05, Ω Portland R:1E, of City 11N, ENVIRONMENTAL MANAGEMENT SYSTEMS, INC S ALL RIGHTS RESERVED m 503-353-9695

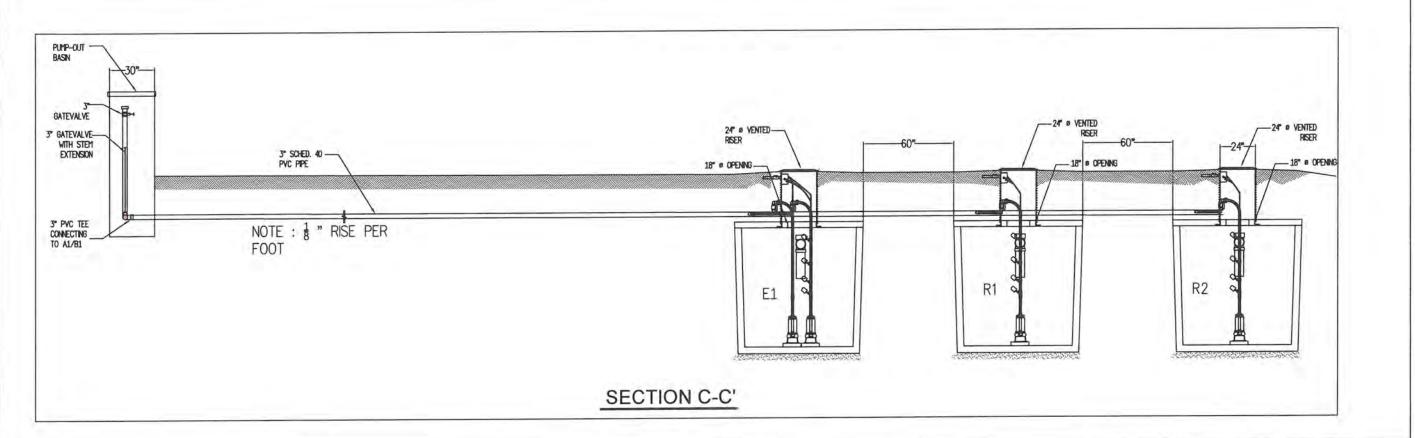
4080 SE International Way Sulte B112 Milwaukle, OR 97222

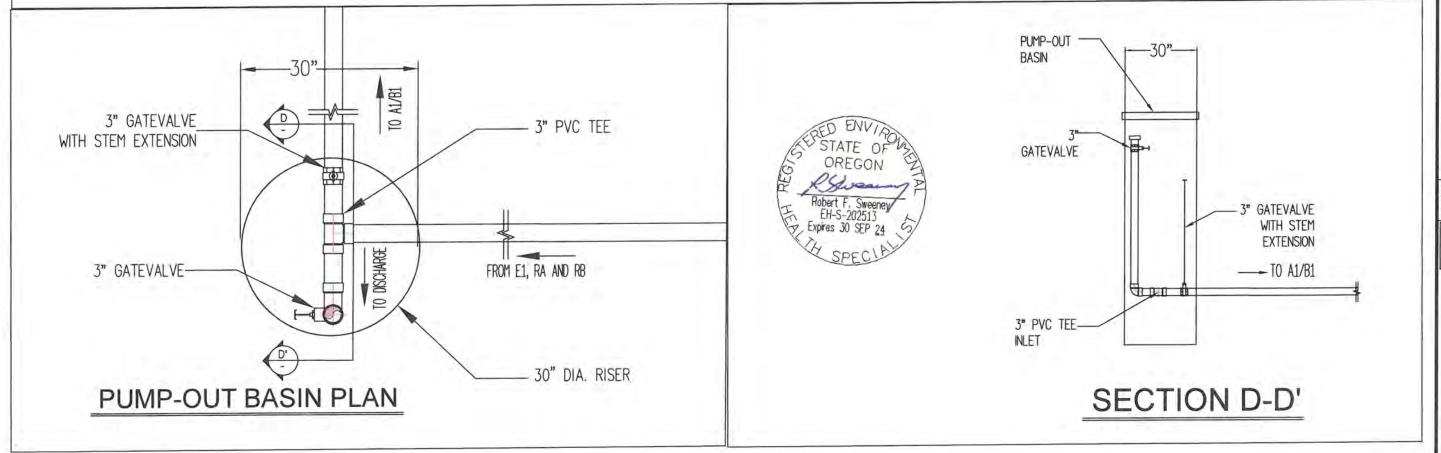
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Page





2/6/202 Page S DETAIL BASIN TL:1000 Portland-TASS OUT SEC:05, PUMP R:1E, AND of City T:1N, 5 O SECTION ENVIRONMENTAL MANAGEMENT SYSTEMS, INC @ ALL RIGHTS RESERVED a 503-353-9691 m 503-353-9685 4080 SE International Way Suite B112 Milwaukie, OR 97222

APPENDIX C

Oregon Department of Environmental Quality No Longer Contained-In Determination and ECSI No. 3337 Certificate of Completion



Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

August 16, 2011

Gerald Breunig North Portland Road LLC 609 NE Repass Road Vancouver, Washington 98655

Re:

Certification of Completion

North Portland Road, LLC (former South Larsen)

ECSI No. 3337

Dear Mr. Breunig:

Enclosed is an original copy of the DEQ Certification of Completion documenting the satisfactory completion of the scope of work at the North Portland Road, LLC (NPR) site located at 10145 North Portland Road in Portland, Oregon (specified in the Consent Judgment between DEQ and NPR, Multnomah County Case Number 0512-13315). As noted in the Certification, DEQ has concluded based on the information presented to date, that the NPR site is protective of public health and the environment and requires no further action provided the land and water use restrictions outlined in the Certificate of Completion are observed.

The NPR site was placed on DEQ's Inventory of sites that have a confirmed release and need additional investigation on December 17, 2002 as required by ORS 465.225. The facility will remain on the list because of potential future risk related to development in the vicinity of the residual chlorinated solvent plume and related to potential future use of the on-site groundwater supply well. DEQ will update the Environmental Cleanup Site Information System (ECSI) database to reflect the Certificate of Completion and the future use restrictions.

The Site Management Plan was submitted to DEQ on May 4, 2011 and was revised in August. A revised report was received August 15, 2011. The final Site Management Plan will be received after completion of the Soil Placement Cell and will include the As-Built drawings. The final Closeout Memorandum was received May 13, 2011.

Please note that NPR is still required to reimburse DEQ for its response costs associated with issuance of the Certification of Completion and project close out administrative tasks including: the ECSI database updates, the project filing, and receipt of the final Site Management Plan containing the As-Built diagrams. DEQ will invoice NPR for its response costs incurred through completion of these tasks.

NPR South Larsen Certification of Completion Page 2 of 2

In closing, DEQ would like to thank NPR for their cooperation with DEQ in the performance of investigation and cleanup actions at the site under the Consent Judgment. Should you have any questions or comments concerning administrative close out activities or your final invoice, please contact me at (503) 229-5213.

Sincerely;

Anna Coates, R.G.

Hydrogeologist/Project Manager

Cleanup and Emergency Response Section

Enclosure: Certification of Completion

cc: Bruce Gilles, DEQ

Dawn Ismero, DEQ Charlie Landman, DEQ

Lynne M. Paretchan, Attorney at Law

John Foxwell, Ash Creek

Project File



STATE OF OREGON

DEPARTMENT OF ENVIRONMENTAL QUALITY

In the Matter of:) Consent Judgment, Multnomah County) Oregon, Case Number 0512-13315
North Portland Road, LLC) CERTIFICATION OF COMPLETION
)

1. Findings

A. On December 23, 2005, the Oregon Department of Environmental Quality (DEQ) entered into a *Prospective Purchaser Agreement (PPA)* in the form of a *Stipulation and Consent Judgment (Consent Judgment)* with North Portland Road, LLC (NPR), concerning the property at 10145 North Portland Road in Portland, Oregon (the Site). The Site is also known as the "South Larsen Site" and is separated from the Columbia Slough by the parcel known as "North Larsen," currently owned by the City of Portland. Under the terms of the Consent Judgment, NPR agreed to: 1) Pay \$60,000 to *Oregon Department of Environmental Quality, Hazardous Substances Remedial Action Fund* for investigation, removal, and remedial actions in the Columbia Slough; 2) Perform all actions described in the *Consent Judgment Scope of Work (SOW)*; and 3) abide by DEQ's determination of whether institutional or engineering controls are required at the property to protect human health and the environment, and agree to an Easement and Equitable Servitude if necessary.

- B. The Consent Judgment SOW designated the following work items:
- Remove or cap surface soils to a depth of two feet that exceed the risk-based concentrations (RBC) for occupational worker direct contact exposure pathways

- as defined in the current DEQ Risk-Based Decision Making for Remediation of Petroleum Contaminated Sites (RBDM guidance.
- Decommission stormwater catch basins along the western property boundary by removal or by filling with concrete if located during property development.
- Install a stormwater drainage swale or berm along northern property boundary to minimize discharge of suspended sediments in storm water from northern property line ditch to the Columbia Slough.
- 4. Sample the on-Site water supply well, reassess future use of the well for irrigation in accordance with applicable DEQ requirements, and decommission the well in accordance with Oregon Water Resources requirements if continued use is not protective of human health and the environment.
- Complete a focused beneficial water use determination to identify (current and
 potential future) groundwater uses both on-Site (if water supply well used for
 irrigation) and down gradient of the Site within the locality of the facility.
- 6. Treat the chlorinated solvent plume source area (groundwater) on the South Larsen Site, and perform groundwater monitoring within and downgradient of the source zone on the South Larsen Site to assess remediation effectiveness and residual risks to human health and the environment. Successful remediation would be determined based on the results of the beneficial water use determination, and a groundwater to surface water pathway evaluation that documents that groundwater dissolved phase solvent concentrations would not exceed applicable ambient water quality criteria adjacent to the Columbia Slough. Compliance concentrations are 3.3 ug/L for tetrachloroethene (PCE); 30 ug/L

trichloroethene (TCE); and 2.4 ug/L vinyl chloride (VC) in groundwater. Maximum detected groundwater concentrations in the source zone are 1,110 ug/L PCE; 17,200 ug/L TCE; and 3,870 ug/L VC. Groundwater fate and transport modeling using off-the-shelf programs (e.g. Biochlor) may be utilized to verify that residual solvent concentrations in groundwater are not predicted to exceed remediation goals adjacent to the Slough.

- 7. Evaluate risk to occupational workers from volatilization of chlorinated solvents to outdoor air in the event TCE concentrations in groundwater following remediation continue to exceed the DEQ generic occupational RBCs for volatilization to outdoor air exposure pathway specified in the DEQ RBDM guidance.
- 8. Evaluate solvent vapor intrusion into buildings if facility development includes placement of buildings within 20 feet of the source zone and concentrations of TCE and vinyl chloride in groundwater following remediation continue to exceed DEQ occupational vapor intrusion RBC as specified in the DEQ RBDM guidance. In lieu of evaluation, the applicant will install engineering controls, such as a liner or horizontal venting, for Site buildings in the vicinity of the solvent plume.
- C. Work completed by NPR to fulfill the Consent Judgment work items is documented in the plans and reports in the Administrative Record included as Attachment A to this Certification of Completion and summarized below:
 - NPR's contractor, Ash Creek Associates, prepared a work plan to characterize concentrations of hazardous substances in surface soil, which was subsequently

approved by DEQ. The surface soil sampling was completed in 2010 as described in the DEQ approved work plan. Concentrations of polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs) and some metals (primarily lead) were detected in surface soils. The data were evaluated consistent with Oregon risk assessment guidance, and human health risks were found to be acceptable. Consequently, no excavation or capping was required.

- 2. Ash Creek prepared a work plan describing the stormwater system upgrades to remove the stormwater pathway to the Columbia Slough, which was subsequently approved by DEQ. The stormwater system upgrades were completed in 2009 and 2010. This included changing the City's grated top manhole covers to solid top, removing the west side catch-basins to prevent flow into the City storm sewer system, constructing an infiltration swale on the north side, and removing the four north side catch-basins and plugging the north stormwater line to prevent flow to the City storm sewer system. Approximately 2,400 cubic yards of soil were excavated to construct the infiltration swale. The soil contained petroleum hydrocarbons and lead at concentrations below applicable human health risk concentrations. Ash Creek's Site Management Plan provides that the soil will be placed in an on-Site cell and covered with 12 inches of gravel pursuant to the cell design prepared by reviewed and approved by DEQ. The location and grade of the soil placement cell will be surveyed after construction.
- Ash Creek completed a beneficial water use determination for the facility and did
 not identify any current beneficial groundwater water uses within the locality of

facility. As part of the beneficial use determination, the on-Site supply well was sampled and tested for volatile organic compounds, metals, pesticides, herbicides and PAHs. No VOCs were detected above Method Detection Limits. Groundwater use, through operation of the on-Site water well for industrial or agricultural water supply, is a potential future beneficial use. The evaluation of groundwater-surface water interactions did not identify a connection between the chlorinated solvent source and the Columbia Slough.

Ash Creek completed a pilot test for the enhanced reductive dechlorination treatment of the solvent source zone, and prepared a report documenting the results of the pilot test. In addition, the report described a full scale design for injecting an emulsified oil substrate for treatment of the source area. Using EPA's Biochlor Model, the pilot test included baseline modeling of source area migration to develop conservative treatment goals that were protective of the Columbia Slough. Following full scale implementation, Ash Creek prepared a report describing the implementation of the enhanced bioremediation treatment injections, remedial effectiveness modeling, and performance evaluation. In all, a total of 73,000 gallons of emulsified oil and water mixture were injected at 29 injection locations within the source area. Two on-Site down gradient compliance monitoring wells were installed by NPR. The City of Portland also installed five wells on the adjacent off-Site North Larsen Site, three of which were between the South Larsen Site and the Columbia Slough. The enhanced bioremediation program resulted in a significant decrease in the concentrations of the chlorinated The new wells provided water level data to determine the solvent source.

hydraulic gradient, and chemical data to better estimate biotransformation factors. The baseline Biochlor model was subsequently updated using this information. The results of the updated model indicated that contamination from the Site would migrate no more than 300 feet from the source area, and would not intersect the Columbia Slough. Based on the treatment results and the findings that chlorinated solvents from the Site would not migrate to the Columbia Slough, DEQ has determined that treatment goals for the source zone have been satisfied.

- 5. Ash Creek completed an evaluation of the potential risk to occupational workers with respect to occupational vapor intrusion and volatilization to outdoor air. Concentrations of residual TCE and vinyl chloride do not pose a significant outdoor air exposure risk. TCE and vinyl chloride concentrations in one shallow well in the source area, MW-6s, remain above occupational vapor intrusion RBCs indicating a potential risk to workers through vapor intrusion and inhalation of indoor air. Since there are currently no buildings constructed over the source area this is a potential future human health risk. This potential exposure pathway is addressed in the Site Management Plan as outlined below.
- Ash Creek prepared a closeout memorandum to summarize the activities completed under the Consent Judgment, which was approved by DEQ.
- 7. Ash Creek prepared a Site Management Plan to document the procedures by which the Property's owners will continue to exercise due care with respect to the Property. The Site Management Plan describes procedures for visual inspection of the swale and soil placement cell, considerations for construction in the vicinity of the chlorinated solvent source area, and provisions for evaluating future use of

the on-Site supply well to avoid impact to the residual VOC plume. Performance of Site controls is a condition of this *Certification of Completion* and will be recorded on the DEQ ECSI database.

- D. On June 1, 2011, DEQ provided public notice and opportunity to comment on a proposed "No Further Action" determination for the NPR facility and, in accordance with ORS 465.320 and 465.325(10)(b), a proposed Certification of Completion. Copies of work plans and reports completed for the project, and a public review draft of the DEQ Certification of Completion, dated May 13, 2011, were available to review at DEQ's Northwest Region offices. The public notice was published on June 1, 2011, in the Oregon Secretary of State's Bulletin, and in The Oregonian newspaper. The comment period was June 1, 2011 through June 30, 2011. Written comments were received from the City of Portland Bureau of Environmental Services on July 25, 2011. DEQ's responses were dated August 4, 2011.
- E. Based on the reports and other information submitted by NPR and based on DEQ's inspection and oversight of activities, DEQ finds that NPR has satisfactorily completed the Consent Judgment scope of work.

2. Conclusions

- A. NPR has satisfactorily completed the investigation and cleanup of soil and groundwater at the NPR facility located at 10145 North Portland Road, Portland, Oregon, required under the Consent Judgment, Multnomah County Oregon Case No. 0512-13315.
- B. No further remedial actions are required at the Site to protect public health, safety, and welfare or the environment, except as provided under Subsection 3.B. of this Certification.

3. Conditions

- A. This Certification of Completion applies only to the satisfactory completion of the work conducted by NPR pursuant to the Consent Judgment.
- B. Conditions include: 1) A prohibition on development within the vicinity of the source area (see Figure 4 of the Site Management Plan) where residual TCE and vinyl chloride concentrations exceed DEQ occupational RBCs for vapor intrusion, unless (a) DEQ-approved engineering controls are integrated into the construction, or (b) reevaluation of VOCs within the Building Exclusion Zone demonstrates to DEQ's satisfaction that concentrations of VOCs are below DEQ occupational RBCs for vapor intrusion; 2) A prohibition on use of the on-Site water supply well unless a capture zone analysis demonstrates to DEQ's satisfaction that future well use would not mobilize residual contamination; and 3) Maintenance of the soil cell constructed to hold soil excavated for the stormwater swale.
- C. DEQ's determination that no further action is required at the Site may be withdrawn upon discovery that Site controls have not been maintained, or discovery of new information showing that public health, safety, and welfare or the environment are not being protected.
- D. DEQ does not, by this Certification, assume liability for any claim arising from acts or omissions of NPR or its officers, employees, agents, successors, subsidiaries, or assigns relating to actions pursuant to the Consent Judgment.

4. Notice

This order constitutes Certification of Completion under ORS 465.325(10), and may be appealed by any aggrieved person in accordance with ORS 465.325(10)(c).

Issued By:
State of Oregon
Department of Environmental Quality
By: Mean Later Nina DeConcini Administrator, Northwest Region 8
CERTIFICATE OF SERVICE
I certify that I served a true copy of the above Certification of Completion by
depositing it in the United States mail, postage prepaid, and addressed to the following
persons:
Gerald Breunig North Portland Road LLC 609 NE Repass Road Vancouver, Washington 98655
Lynne Paretchan, Attorney at Law PO Box 309, Lake Oswego, Oregon 97034 Tel: 503.957.3341 Email: Lynne@Paretchan.com

(Name)

(Date)

Appendix A - Administrative Record Index

- 1. Proposed Surface Soil Sampling, Ash Creek Associates, 2009
- 2. Results of Surface Soil Sampling, Ash Creek Associates, 2010.
- 3. Work Plan for Stormwater System Upgrades, Ash Creek Associates, 2009.
- 4. Stormwater System Upgrades, Ash Creek Associates, 2010
- 5. Beneficial Use Determination, Ash Creek, 2008; Revised Beneficial Water Use Determination, Ash Creek, 2011.
- 6. Pilot Testing and Design Report, Ash Creek, 2008.
- 7. Enhanced Bioremediation Report and Updated Hydrogeologic Model, Ash Creek, 2011.
- 8. Occupational Air Evaluation Report, Ash Creek Associates, 2011.
- 9. Closeout Memorandum, Ash Creek Associates 2011
- 10. Site Management Plan, Ash Creek Associates, 2011.

Site Management Plan North Portland Road, LLC 10145 North Portland Road Portland, Oregon

Prepared for: North Portland Road, LLC

> May 4, 2011 1392-00





Site Management Plan North Portland Road, LLC 10145 North Portland Road Portland, Oregon

Prepared for: North Portland Road, LLC

> May 4, 2011 1392-00



John Foxwell, R.G. Senior Associate Hydrogeologist, Ash Creek Associates

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- B As-built Figure Showing Soil Placement Cell

1.0 Introduction

This Site Management Plan (SMP) has been prepared for the North Portland Road, LLC for its property located at 10145 North Portland Road, in Portland, Oregon (the Property). From 2005 to 2011, North Portland Road, LLC conducted a range of environmental remediation and management activities as part of a Consent Judgment and Prospective Purchaser Agreement (PPA) with the Oregon Department of Environmental Quality (DEQ). The work items required by the Consent Judgment were completed in early 2011. The owner of the Property will be responsible for the implementation the SMP.

1.1 Limitations

The SMP is not intended to provide health and safety recommendations for the protection of site workers or construction personnel. Persons involved in construction activities or site operations that could result in exposure to site soil should be familiar with the content of this SMP and have a Health and Safety Plan (HASP) prepared specific to their work.

2.0 Property Description

The Property is an approximately 15-acre parcel located approximately 600 feet south of the Columbia Slough (Figures 1 and 2). It is also known as the "South Larsen" property and is separated from the Columbia Slough by the parcel known as "North Larsen," currently owned by the City of Portland. The topography of the Property is relatively flat, with an elevation of approximately 20 feet above mean sea level (MSL). The ground surface of the Property is mainly unpaved, with interspersed paved areas.

3.0 Management Plan

The SMP addresses the following areas:

- Monitoring of constructed infiltration swale;
- Performance monitoring of soil placement cell;
- Construction limitations near chlorinated solvent source area; and
- Production well capture zone analysis.

Two environmental management items that are not specific requirements of the Consent Judgment Scope of Work, but are applicable to the Property, are discussed in Section 4. These items are soil management and protection of monitoring wells.

3.1 Stormwater Infiltration Swale

One stormwater infiltration swale was constructed in the northeast portion of the Property in 2010 (Figure 2). A second swale was pre-existing in the southwest corner of the Property. These swales do not have a discharge connection to the City system, nor do they discharge or overflow to a surface water body. The design report for the constructed swale includes an operations and maintenance plan (O&M plan) that describes the frequency and scope of the reporting requirements, which is included in Appendix A.

Actions Required:

- 1. Inspect the constructed swale according to the O&M plan and as follows:
 - Quarterly through 2012;
 - · Twice a year thereafter; and
 - Within 48 hours of major rainfall events (1 inch of rain over a 24-hour period).
- Maintain the O&M plan logbook on site and make it available in the event of future inspections by City of Portland.
- 3. Provide swale maintenance according to the O&M plan.

3.2 Soil Placement Cell Management and Inspection

Approximately 2,400 cubic yards of mildly contaminated soil were generated during construction of the infiltration swale (Ash Creek, 2010b). These soils will be placed in a new soil placement cell constructed by summer 2011 (Figure 2). Thereafter, the surface of the placement cell area will be used for truck and equipment parking and staging. Figure 3 shows a schematic of the soil placement cell construction and a grading plan. As-constructed figures will be included in Appendix B after construction.

Actions Required:

- The property owner shall maintain a soil placement cell inspection logbook that documents
 quarterly inspections and any maintenance or repairs completed on the soil placement cell, and
 includes pictures documenting the current condition of the soil placement cell. The soil cell
 inspection log will be maintained on site and made available to DEQ as requested.
- 2. Quarterly inspections of the soil placement cell shall document in the logbook whether:
 - The gravel cover is in place and washouts or other erosion is not apparent;
 - The demarcation layer is not exposed;
 - Surface water does not collect over an area larger than 25 square feet; and
 - Any repairs are made to soil placement cell, including its surface.



3. Additional clean gravel will be added and graded as needed to repair surface of soil cell.

3.3 Limits on Construction Near Chlorinated Solvent Source Area

A chlorinated solvent source area is present as a result of prior operations at the Property (Figure 4). In 2009, an enhanced bioremediation project was completed to treat the source area. The project resulted in a significant decrease of the chlorinated solvent source (Ash Creek, 2011a). The current soil and groundwater data set indicate that the remaining concentrations of VOCs do not result in unacceptable occupational risks from volatilization to outdoor air (Ash Creek 2011b). Risks to site workers from volatilization to outdoor air are acceptable, so no additional actions are required due to any volatilization to outdoor air pathway.

With respect to the indoor air pathway, concentrations of residual trichloroethene (TCE) and vinyl chloride currently remain above occupational vapor intrusion risk-based concentrations (RBCs) at one location in the source area (at shallow well MW-6s). Figure 4 shows the former chlorinated solvent source area, highlighting both the extent of VOCs in groundwater, as well as the estimated extent of VOCs that exceed DEQ's vapor intrusion RBC (DEQ, 2007a). The vapor intrusion management area will be defined by the limits of the contour on Figure 4.

Actions Required:

- The property owner shall ensure that no buildings or other inhabitable structures (temporary or permanent) are built within the vapor intrusion management area, unless engineering controls (vapor barriers and/or a venting system) are incorporated into construction;
- If construction is planned, the property owner shall provide the building plans, including the design
 for engineering controls, to DEQ prior to permitting and construction. Design for engineering
 controls will include a startup and performance monitoring plan; or
- 3. If a reevaluation of TCE and vinyl chloride concentrations determines that the concentrations of volatile organic compounds (VOCs) in shallow groundwater no longer result in vapor intrusion risks, then the property owner shall submit documentation to DEQ prior to permitting and construction. No engineering controls (vapor barriers and/or a venting system) would then be required for construction of structures in the current vapor intrusion management area.

3.4 Production Well Capture Zone Analysis

An on-site production well is present at the location shown on Figure 2 and its well construction log is included in Appendix C. The well was sampled in 2008 for a comprehensive list of hazardous substances and the results were either "non-detect" or below DEQ risk-based concentrations for drinking water (Ash Creek, 2011c). There are no current plans for use and the well is reserved for future use. Prior to bringing the well back into use, the property owner shall determine the capture zone (radius of influence of the well

during pumping). Capture zones are dependent on pumping rates and site geology. The following procedures will be used to evaluate whether future well use would mobilize residual contamination in the former chlorinated solvent source area.

Action Required:

If property owner proposes to use existing well, a capture zone analysis will be completed by either
an Oregon Registered Geologist or Professional Engineer and provided to DEQ for review prior to
initiating use of the well. The capture zone analysis shall be completed using a 2-dimensional
analytical model, or a similar hydrogeologic evaluation tool. An aquifer test will not be required

4.0 Additional Management Items

This section describes additional environmental management considerations for current and future operations at the property. These items are not a specific requirement of the Consent Judgment; however, since the condition of the property may implicate regulatory requirements that current and future property managers and operators will be required to follow, including soil management procedures and protection of monitoring wells, those particular items are discussed here.

4.1 Soil Management

No surface soil sources were identified that require excavation or capping (Ash Creek, 2010a). The only area on the site where with soil concentrations are known to exceed DEQ occupational RBCs is the area within the soil placement cell and soils located at depth at the former chlorinated solvent source area (Figure 2). Soil management procedures will be put in place to ensure that waste soils that are generated during future construction or maintenance activities are characterized in accordance with state and federal regulations.

Actions Required:

- If excavated soils are re-used on-site: Unless there are field indications of contamination (e.g., odors or staining), soils that are excavated for utility or other construction that will be replaced in their original excavation or used elsewhere on the site can be completed without characterization by North Portland Road, LLC.
- 2. If excavated soils are removed from the site: Soils excavated and stockpiled for off-site transport will be characterized prior to off-site transport to document that the concentrations of any hazardous substances do not exceed DEQ's unrestricted soil re-use criteria (commonly referred to as clean fill criteria; DEQ, 2007b).
- If soil concentrations are less than unrestricted use criteria, then this plan places no restrictions on the use of the soil.



- If soil concentrations exceed the unrestricted use criteria, then the soil may be re-used at the Property or disposed of at a licensed disposal facility.
- If at least one concentration exceeds occupational screening levels, then the soil shall be properly
 designated and disposed of at a licensed disposal facility.

4.2 Maintenance of Monitoring Wells

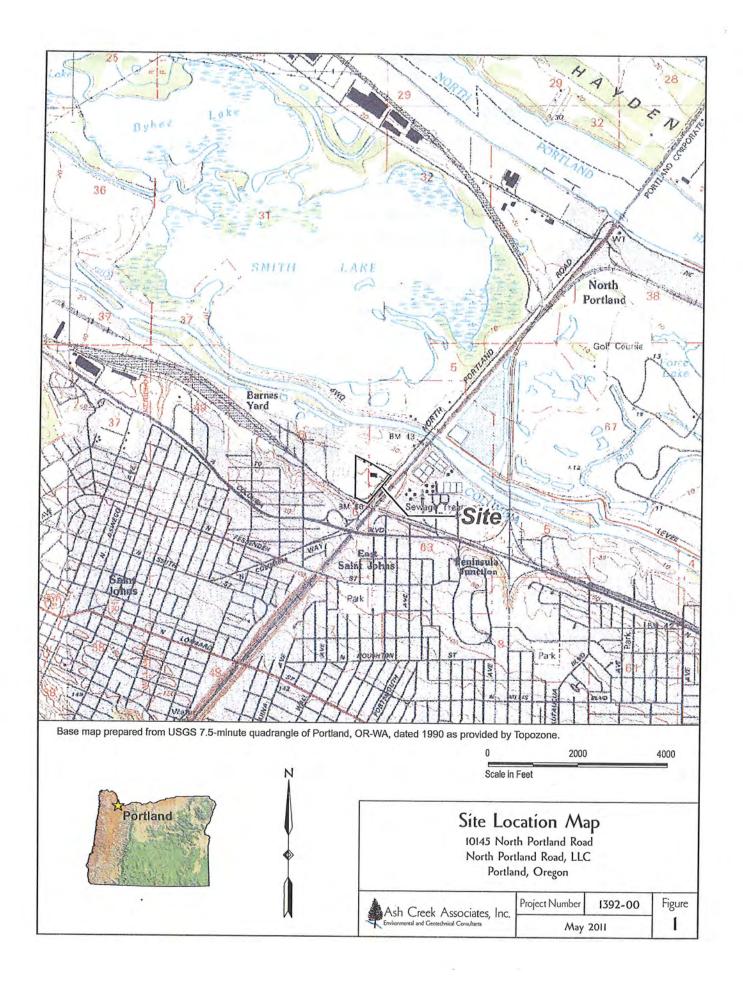
The site contains a network of monitoring wells (Figure 2). These wells will be left in place to support any future monitoring activities. The property owner will take steps to protect the monitoring wells in order to prevent surface water from entering the wells.

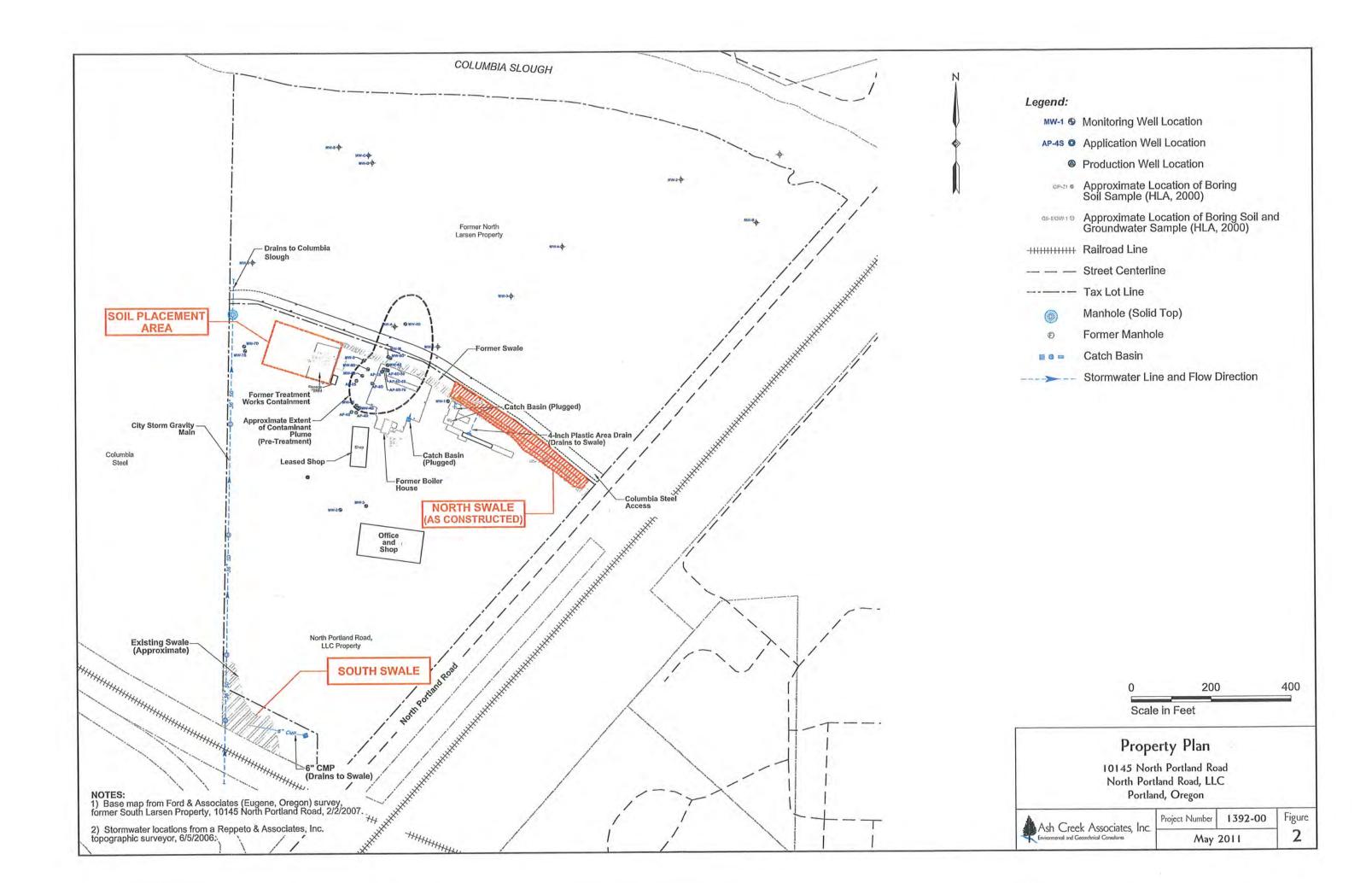
Actions Required:

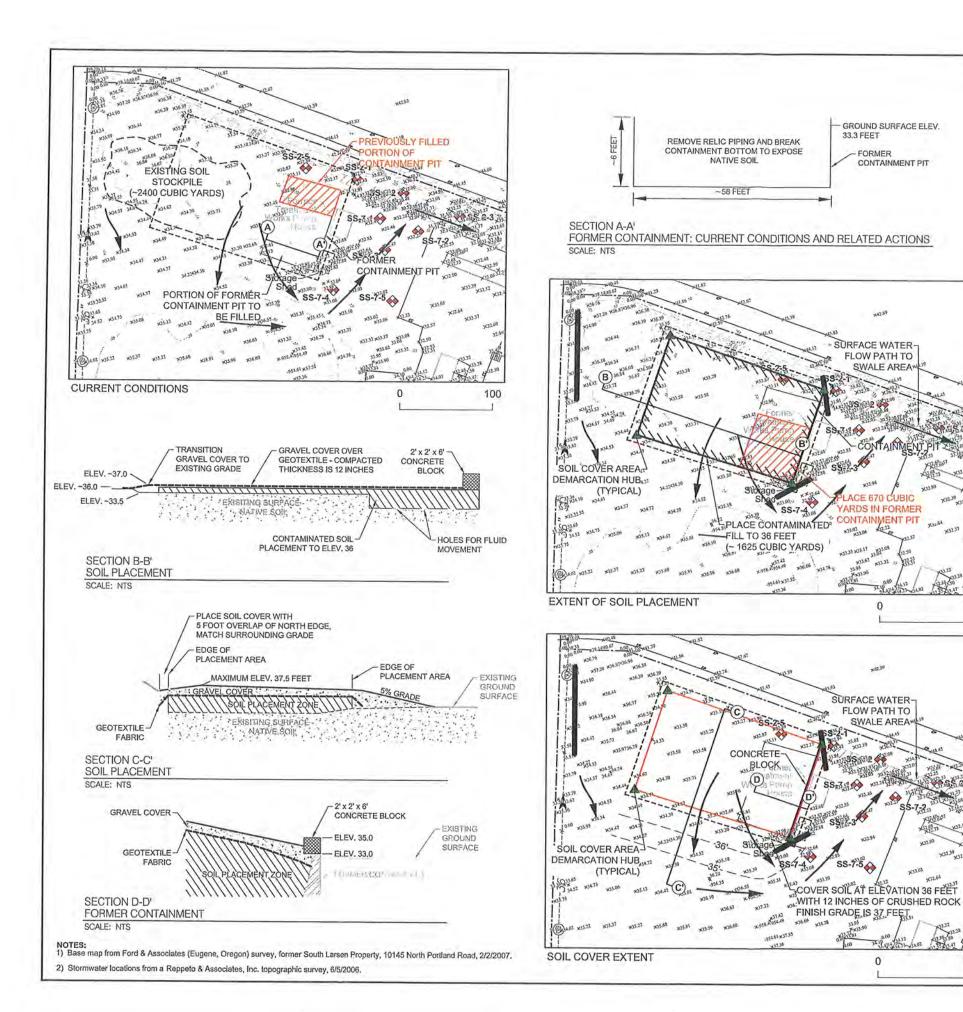
- 1. Repairs of site monitoring wells will be completed by an Oregon-licensed well driller.
- Operations, maintenance, and construction activities conducted on the Property shall be done so as not to damage the monitoring wells.
- 3. If wells are inadvertently damaged, they shall be repaired as soon as practicable, but in no case shall the repair require more than two months to complete. Damaged wells will be appropriately secured so that surface water cannot enter the subsurface through the well casing or annulus while the well is awaiting repair. If the damage is too extensive to repair, the well will be decommissioned in accordance with applicable state regulations.

5.0 References

- Ash Creek Associates, Inc. (Ash Creek), 2009. Work Plan for Stormwater System Upgrades, North Portland Road, LLC, 10145 North Portland Road. October 5, 2009.
- Ash Creek, 2010a. Results of Surface Soil Sampling, Ash Creek Associates, North Portland Road, LLC, 10145 North Portland Road. December 16, 2010.
- Ash Creek, 2010b. Stormwater System Upgrades, North Portland Road, LLC, 10145 North Portland Road. December 27, 2010.
- Ash Creek, 2011a. Enhanced Bioremediation Report and Updated Hydrogeologic Model; North Portland Road, LLC, 10145 North Portland Road. January 13, 2001.
- Ash Creek, 2011b. Occupational Air Quality Evaluation, North Portland Road, LLC, 10145 North Portland Road, April 1, 2011.
- Ash Creek, 2011c. Revised Beneficial Water Use Determination, North Portland Road, LLC, 10145 North Portland Road. April 8, 2011.
- DEQ, 2007a. Risk-based Decision Making for the Remediation of Petroleum-Contaminated Sites. Oregon Department of Environmental Quality, Land Quality Division, Environmental Cleanup and Tanks Program. Updated March 2007.
- DEQ, 2007b. Guidelines for Soil Management Determinations (DRAFT). July 3, 2007.







LEGEND:

CONTAINMENT PIT

SWALE AREA

PROPERTY LINE

CONTOUR LINE AND NUMBER

MANHOLE (SOLID TOP)

CATCH BASIN

CITY STORMWATER LINE AND FLOW DIRECTION

DEMARCATION HUB

STORMWATER FLOW DIRECTION

BIOFILTER BAGS

EXCAVATION AND BACKFILL NOTES:

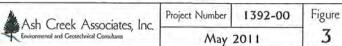
- 1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES.
- 2. STOCKPILED SOIL IS CONTAMINATED SOIL.
- 3. REMOVE ALL PLASTIC LINERS UNDER STOCKPILE BEFORE PLACING SOIL.
- 4. PRIOR TO FILLING, PERFORATE PIT FLOOR TOALLOW FOR DRAINAGE, PERFORATION SHOULD BE COMPLETED USING A HYDRO-HAMMER OR THROUGH CORING.
- 5. PLACE CONTAMINATED SOIL IN 12-INCH LIFTS, COMPACT AND/OR TRACK SOIL UNTIL A DENSE, NON-YIELDING CONDITION IS ACHIEVED.
- 6. PLACE GEOTEXTILE FABRIC ACROSS SOIL COVER AREA FOR DEMARCATION OF CONTAMINATED
- 7. PLACE IRON RODS OR OTHER SURVEY HUB AT CORNERS OF SOIL PLACEMENT AREA.
- 8. SURVEY ELEVATIONS OF COMPACTED SOIL PLACEMENT AREA.
- 9. PLACE 12 INCHES (MINIMUM) OF CRUSHED ROCK OVER SOIL COVER AREA. COMPACT AND ADD ADDITIONAL CRUSHED ROCK AS NEEDED TO MAINTAIN FINISHED, COMPACTED THICKNESS OF 12
- 10. SLOPE AS SHOWN FOR SURFACE DRAINAGE AND SMOOTH TRANSITION TO EXISTING SURFACES.
- 11. SURVEY FINISH GRADE.

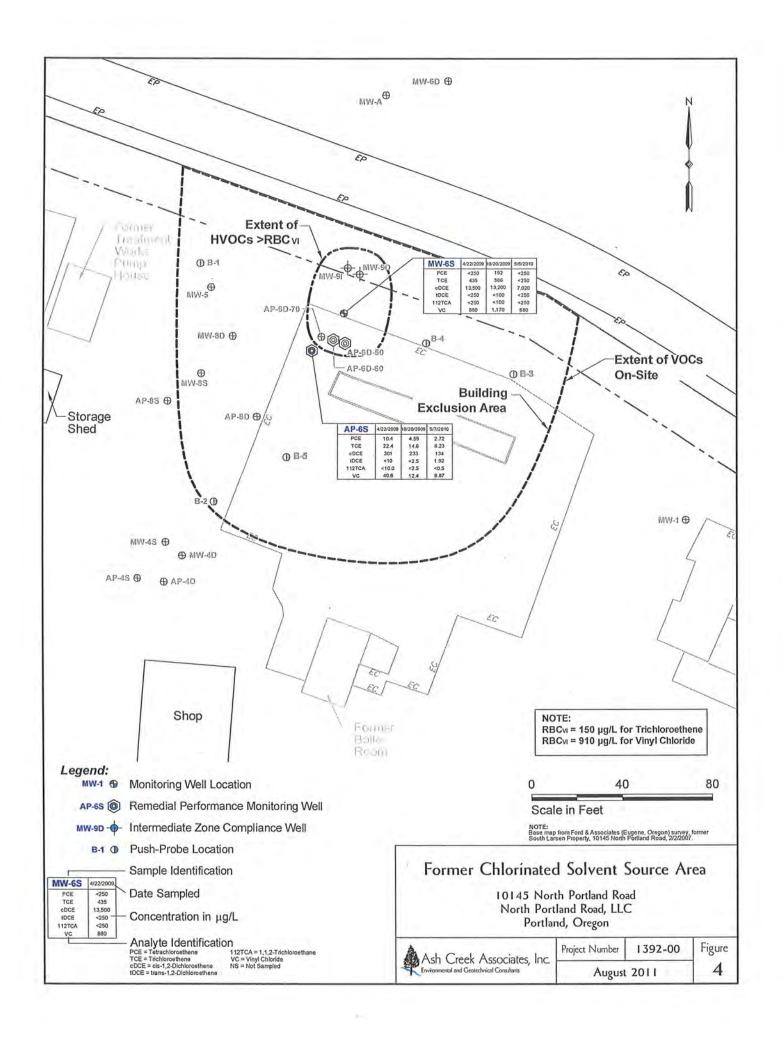
NOTE: THERE ARE NO CONNECTIONS TO OFFSITE DRAINAGES OR WATER BODIES. NO OFFSITE STORMWATER TRANSPORT IS POSSIBLE. EROSION AND TURBIDITY CONTROLS WILL BE ESTABLISHED TO PROTECT STORMWATER SWALE.

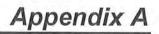
- 1. IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF ALL EROSION CONTROL MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED. EROSION CONTROL MEASURES TO BE REMOVED BY CONTRACTOR AT END OF CONTRACT
- 2. THE EROSION CONTROL FACILITIES ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL GRADING ACTIVITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE WORK AREA OR ENTER THE SITE INFILTRATION SWALE.
- 3. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL UPGRADE AND MAINTAIN ALL EROSION CONTROL FACILITIES AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER SWALE
- 4. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR.
- 5. DURING INACTIVE PERIODS ON THE SITE, THE CONTRACTOR MUST INSPECT AND MAINTAIN EROSION CONTROL FACILITIES ONCE EVERY 14 DAYS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT (GREATER THAN 0.5 INCH).
- 6. MEASURES MUST BE TAKEN BY THE CONTRACTOR WHEN NECESSARY TO ENSURE THAT ALL EXISTING PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- CONTROL MEASURES ARE NECESSARY. THESE ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- 8. A SPILL KIT IS REQUIRED TO BE MAINTAINED ON SITE TO PREVENT SPILLS OF HAZARDOUS OR HARMFUL SUBSTANCES FROM ENTERING THE STORMWATER MANAGEMENT SYSTEM. CREWS MUST BE TRAINED ON THE LOCATION AND USE OF THE KIT,

Grading and Erosion Control Details

10145 North Portland Road North Portland Road, LLC Portland, Oregon







Vegetated Infiltration Swale O&M Plan

STORMWATER MANAGEMENT FACILITIES OPERATIONS & MAINTENANCE PLAN

FOR

WCT YARD DEVELOPMENT STORMWATER QUALITY INFILTRATION SWALE

10145 N. Portland Road Portland, Oregon Multnomah County

September 15, 2009

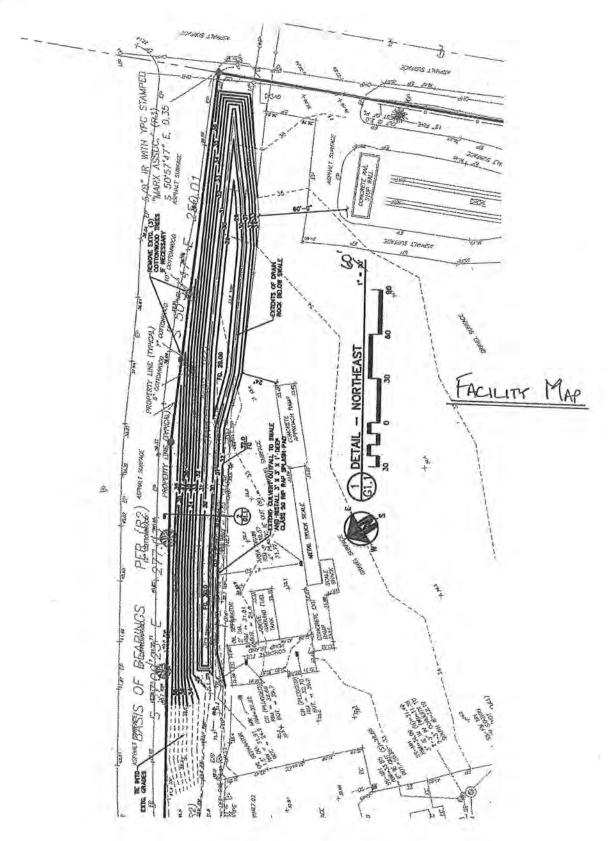
I DESCRIPTION

This Stormwater Management Plan describes the operations and maintenance procedures necessary for the stormwater facilities to function properly. Vegetated Infiltration facilities are planted with low maintenance, native vegetation. However, as an infiltration facility, it needs some maintenance in order to continually infiltrate runoff into the ground.

The vegetated infiltration swale receives stormwater runoff that carries sediment and other pollutants from the site. The topsoil in the facility traps sediments and pollutants, filtering the stormwater before it infiltrates to the native soil beneath the site. As the topsoil traps sediments, the void spaces near the surface fill up and become clogged, slowing down and eventually preventing runoff from infiltrating underground. Vigorous and healthy grassy vegetation helps to break up sediment layers and promote infiltration. If not properly maintained as outlined in this plan, clogged soils will lead to significant ponding in the facility.

This facility is designed to infiltrate all runoff up to a 10-year storm event (3.4" over 24-hours) with 12" freeboard. A 25-year storm event will infiltrate all runoff (3.9" over 24-hours) with 2" freeboard.

One facility will be built, at the northeast property line, near N. Portland Road. See map, next page. The facility will be maintained by the property owner.



II SCHEDULE

Facility must be inspected at least:

- · Quarterly for the first 2 years
- · Twice a year thereafter
- Within 48 hours of major rainfall events (more than 1 inch of rain over a 24-hour period)

For at least the first 2 years, inspections should be conducted with the facility drawings and the O&M Plan in hand to help the inspector understand how the facility is supposed to function. The O&M Plan will help the inspector recognize signs that indicate diminished performance (for example, sediment accumulation, vegetation die-off, or ponding water for more than 24 hours after a storm).

III PROCEDURES

The vegetated infiltration swale will require periodic maintenance during the first two years (establishment period) to ensure proper functioning and plant survival. The swale shall be inspected and maintained as stated:

Source Control measures prevent pollutants from mixing with stormwater. Typical non-structural control measures include raking and removing leaves, removing grass clippings, street sweeping, vacuum sweeping, and limited and controlled application of pesticides, herbicides, and fertilizers.

Impervious (paved) surface areas are significant sources of stormwater pollution. Parking lots, because of their large impervious surfaces, are one such source. During dry weather, parking lots accumulate pollutants associated with exhaust emissions, brake pad wear, fluid leaks from vehicles, atmospheric dryfall, and lack of maintenance. During wet weather, these and other pollutants (e.g., pesticides and fertilizers from landscaped areas) may be mobilized and transported into the storm drain system via rainwater. Thus, runoff from parking lots can contain metals, hydrocarbons, organic pollutants, and many other constituents. Pollution prevention (source control) is one of the most cost-effective long-term solutions to stormwater management.

Vegetated Infiltration Swale

- Vegetation or roots from large shrubs and trees that limit access or interfere with swale operations shall be prevented.
- Water shall be provided to ensure plant establishment and survival during the establishment period.
 Beyond the establishment period, established native vegetation should survive on precipitation (except during extreme conditions).
- Nuisance and prohibited vegetation of all species shall be removed biannually. Invasive vegetation shall be removed and replaced with native vegetation per the plans.
- Vegetation that dies shall be replaced within 3 months or immediately if the season is appropriate, in order to maintain cover density and control erosion where soils are exposed.
- Any trash, plant debris, or sediment that collects in the planter may inhibit swale function, and shall be removed.
- Vegetated infiltration swales remove heavy sediment by letting it settle out of the stormwater. Many pollutants attach to sediment and are removed from stormwater in this way.
- The infiltration swale is designed to infiltrate within 48 hours of a storm event. If water continues to pond after that time, it is likely that sediment has settled over most of the swale. Remove collected sediment. Till and amend with compost the top 3"± of topsoil; if this is not sufficient, remove and replace the top 3"± with new freely draining growing medium. Replant vegetation & water to ensure establishment.
- Sediment can fill a swale over time. Healthy vegetation may keep stormwater infiltrating as normal. If the swale depth decreases by 1' or more, sediment and vegetation needs to be removed. Grades and vegetation shall be replaced per the original construction documents.
- Vacuum sweeping of paved vehicle traffic areas will reduce the amount of sediment that enters the swale.

Repair any areas of erosion damage more than 2" deep.

Spill Prevention measures shall be exercised when handling substances that can contaminate stormwater. Virtually all sites, including residential and commercial, present dangers from spills. It is important to exercise caution when handling substances that can contaminate stormwater and migrate into the groundwater. Activities that pose the chance of hazardous material spills shall not take place near stormwater collection facilities.

- . The proper authority and the property owner shall be contacted immediately if a spill is observed.
- · A spill kit shall be kept near spill-prone operations and refreshed annually.
- · Employees shall be trained on spill control measures.
- Releases of pollutants shall be corrected within 12 hours.

Insects and Rodents shall not be harbored in any part of the stormwater system.

- Pest control measures shall be taken when insects/rodents are found to be present. Food sources shall be prevented.
- · Holes in the ground located in and around the storm system shall be filled.

IV WHO SHARES FINANCIAL RESPONSIBILITY

The facilities will be maintained by the property owner.

V INSPECTION AND MAINTENANCE LOGS

Keep inspection and maintenance records to track the development of the systems over time. The inspection records shall include:

- General condition of the systems, inflow pipes and vegetation.
- Sediment condition and depth. Installing a sediment gauge is recommended.
- Water elevation and observations (sheen, smell, etc.).
- Unscheduled maintenance needs.
- General observations and aesthetic conditions.

See next page for an example maintenance log.

Date:	Initials:	
Work performed:		
	Initials:	
Work performed:		
Details:		
Date:	Initials:	
Work performed:		
Details:		
Date:	Initials:	
Work performed by:		
Work performed:		i and the second
Details:		
Date:	Initials:	
Work performed:		
Details:		

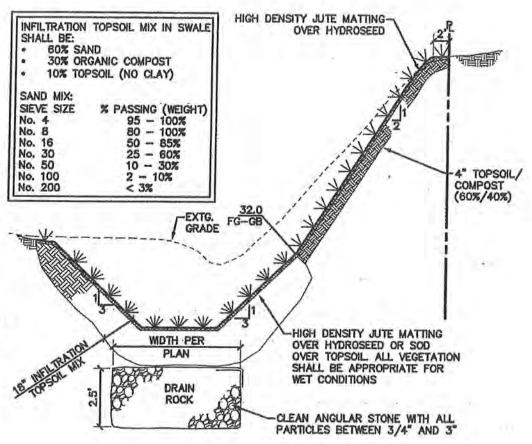
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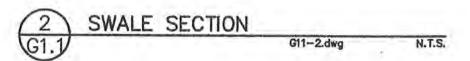
SEED MIX ABOVE SWALE ON THE NORTH SLOPE SHALL BE APPROXIMATELY 60% PERENNIAL RYEGRASS, 15% EUREKA HARD FESCUE, AND 20% HERBACEOUS PLANTS AND CLOVER (HOBBS AND HOPKINS PRO—TIME 705 PDX). SOW AT 2 LBS. PER 1,000 SQ. FT.

SEED MIX WITHIN SWALE SHALL BE APPROXIMATELY 40% DWARF TALL FESCUE, 30% DWARF PERENNIAL RYE "BARCLAY", 25% FESCUE AND 5% COLONIAL BENTGRASS. SOW AT 5 LBS. PER 1,000 SQ. FT.

ALL SWALE SIDE SLOPES SHALL BE 3H:1V (MAXIMUM) BELOW ELEVATION 32.0.

ALL SIDE SLOPES ABOVE ELEVATION 32.0 SHALL, BE 2H:1V.







As-Built Figure Showing Soil Placement Cell

To be included at later date

Appendix C

Well Log for On-Site Water Well

STATE ENGINEER Salem, Oregon MULT Well OWNER: Louis F. Larsen LOCATION OF WELL: Owner's No.	MAILING ADDRESS: CITY AND STATE:	COUNTY	PION NO. G-2988 amette Blvd.
NE 1/4 SE 1/4 Sec. 6 T. 1 XS, R. 1 W			
Bearing and distance from section or subdivision corner 180' S. & 389' W. of E4 cor. of sec.			0
Altitude at well	***********		J(1)
TYPE OF WELL: Drilled Date Constructed 19			
Depth drilled 65 Depth cased 65		Section	6
AQUIFERS: Gravel			
WATER LEVEL: 26 feet			
PUMPING EQUIPMENT: TypeTurbine Capacity G.P.M.	4-1-2-2-2-4	***************************************	н.р. 10
WELL TESTS: Drawdown ft. after	houre		G D As
Drawdown ft. after	nours		GPM
USE OF WATER Irrigation & Commercial , SOURCE OF INFORMATION G- 2779 DRILLER or DIGGER ADDITIONAL DATA: Log X Water Level Measurements	l'empºF	1	, 19
REMARKS:	Circument Attal	y 213 A	quier rest
Sandy loam 0 to 42 Sand 42 to 55 Sand & gravel 55 to 61 Gravel, WB 61 to 65			

LARENDON

AREA OF GROUND: 100,148 sq.ft. (2.3A)

RECEIVED

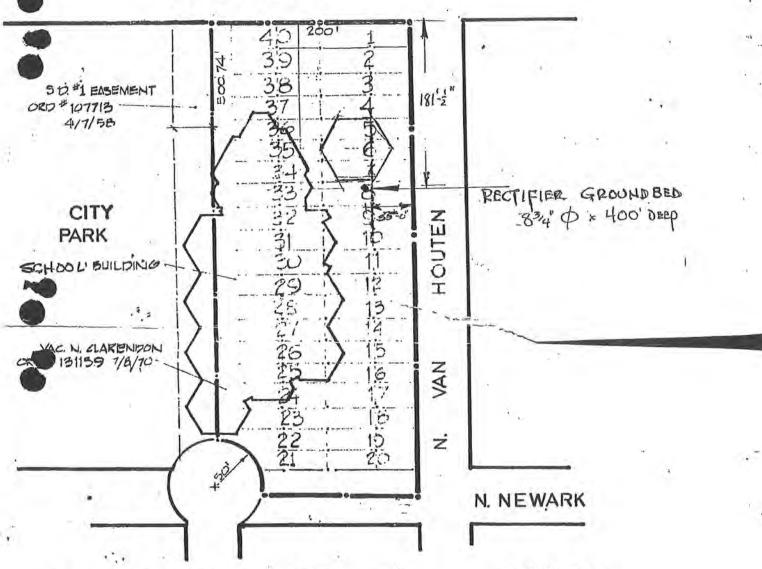
STATE ENGINEER

RECEIVE D

STATE ENGINEER SALEM. OREGON

1"= 1001

N. FESSENDEN ST.



MULTHOMAH COUNTY SECT. 7 TIM-RIE 1 MAR 22 1971

1/4 SECT. Nº 2125

Oregon DEQ Contained-In Determination Approval Signoff Sheet

Site Name: Larsen North – City of Portland (ECSI No. 186) Location: 10505 North Portland Road, Portland, Oregon 97203 Media: Soil	
Approved Disposal Location: Hillsboro Landfill	
DEQ Project Manager: (Sarah Greenfield)	Date: 12/7/2023
DEQ HW Staff: (Zeb Bates)	Date: 12/7/2023
DEQ HSW Program Manager: Audrey O'Brien (Audrey O'Brien)	Date: 12/07/2023

Date: December 6, 2023

To: Project File, Larsen North – City of Portland, ECSI 186
From: Sarah Greenfield, Project Manager, NWR Cleanup Program

Through: Zeb Bates, Hazardous Waste Inspector

And: Audrey O'Brien, DEQ HW/SW Program Manager

Kevin Parrett, NWR Cleanup Program Manager

Subject: No Longer Contained-In Determination

Larsen North – City of Portland (ECSI 186)

10505 North Portland Road Portland, Oregon 97203

The DEQ's Northwest Region Environmental Cleanup and Hazardous Waste programs have prepared this *No Longer Contained-In Determination* for soil and investigation derived waste (IDW) generated during well abandonment and subsurface investigations at the North Larsen voluntary cleanup site at 10505 North Portland Road, Portland Oregon (the Site). This determination was prepared in response to a request entitled *Request for No Longer Contained-In Determination for North Larsen Property* dated October 2, 2023, prepared by Parametrix on behalf of the City of Portland, Bureau of Environmental Services (BES). The request is included in this determination as Attachment 1.

The Site has been an industrial property since at least the 1940s. The Site has been used as a shingle mill, used for boat manufacture and repair, materials storage, diesel engine repair and rebuilding, and tank-truck washing companies. More recently it has been vacant, acquired by the City of Portland for potential expansion of the nearby Columbia Boulevard Wastewater Treatment Plan. Columbia Slough is located along the Site's northern property line.

The contaminants of concern (COCs) in environmental media at the Site include volatile organic compounds (VOCs), specifically 1,1-Dichloroethylene (1,1-DCE), tetrachloroethylene (PCE), Trichloroethylene (TCE), and Vinyl Chloride (VC), petroleum hydrocarbons, and metals associated with historical use. DEQ considers PCE and TCE contamination in environmental media from this Site to potentially contain listed hazardous waste with waste code of F002.

Foundry waste from the adjacent Columbia Steel property to the west was previously stored in the westernmost portion of the Site, with City of Portland approval. This waste was subsequently removed. The foundry waste stored on Site and later removed has been the subject of numerous sampling efforts, reviewed by both Cleanup and Materials Management Program personnel at DEQ. Sampling has not identified the stored foundry material to exceed characteristic waste standards.

Drums containing cuttings from the over-drilling and decommissioning of a single Site monitoring well (MW-A, located near MW-6D) were previously found to contain concentrations of PCE which designated it as a hazardous waste (> 5 ppm). These drums were disposed of in 2020 at a Subtitle C landfill and no material from this well decommissioning remains on site.



Northwest Region Cleanup Program,

Address 700 NE Multnomah Street, Suite 600 Portland, OR 97232 Phone: 503-229-5245

Fax: 503-229-5696 Contact: Sarah Greenfield Email: Sarah.Greenfield@deq.oreg on.gov

www.oregon.gov/DEQ

This No Longer Contained-In Determination is for the following types of waste stored on Site:

- Thirty-one 55-gallon steel drums of investigative-derived waste (IDW) soil were generated in 2016 by overdrilling and decommissioning several monitoring wells that remain on Site. The IDW drums are currently stored on Site in sealed drums labeled as non-hazardous waste.
- A pile of soil (assumed to be less than 90 tons) that was generated in 2020 by over-excavating the foundry waste that was previously stored on Site. Overexcavation of the foundry waste resulted in a soil pile and excavation pit that remain on Site. The soil pile is covered with plastic sheeting secured with sandbags.

All of the soil and IDW drums have been stored in the area of contamination (AOC) on the Site.

On behalf of the City of Portland, Parametrix collected the following samples representative of the materials subject to this determination:

- Six soil samples were collected on March 15, 2016, from drums containing cuttings from over-drilling and decommissioning monitoring wells MW-1, MW-2, MW-C, MW-6, MW-6D, MW3, MW-4, and MW-B, MW-D, and MW-5 (CUTTINGS_MWBD5, CUTTINGS_MW34, CUTTINGS_MW6D, CUTTINGS_MW2C, CUTTINGS_MW1, CUTTINGS_MW6). The six IDW drum samples were collected as composite samples generated by collecting and compositing subsamples from 3 to 4 drums representative of one or more of the abandoned wells. Soil samples collected from the IDW drums were analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method 8260D. Select IDW drum samples were also tested for a variety of metals via EPA Method 6020 as follows:
 - o CUTTINGS MWBD5 Total Lead;
 - o CUTTINGS MW34 Total Chromium and Total Lead; and
 - o CUTTINGS_MW2C Total RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver).
- One soil sample was collected on May 28, 2020, using an excavator to scrape the bottom and sides of the pit (CS-15-Pit) created by over-excavating the foundry waste. The pit sample was tested for the following analyses:
 - VOCs EPA Method 8260D;
 - Total metals EPA Method 6020;
 - Toxic Characteristic Leaching Procedure (TCLP) lead EPA Method 6020;
 - o Total petroleum hydrocarbons, gasoline range NWTPH-Gx;
 - o Total petroleum hydrocarbons, diesel range NWTPH-Dx;
 - o Polycyclic aromatic hydrocarbons (PAHs) EPA Method 8270-SIM; and
 - o Polychlorinated biphyenyls (PCBs) as Aroclors EPA Method 8082.
- One composite soil sample was collected on June 23, 2020, from the resultant soil pile (CS-17 Pile). The soil pile sample was analyzed for the following metals via EPA Method 6020:



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- Total Priority Pollutant 13 metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc) EPA Method 6020; and
- Total manganese EPA Method 6020.

All samples were collected in laboratory-provided containers and submitted to the City of Portland Water Pollution Control Laboratory in Portland Oregon under proper chain-of-custody procedures. DEQ reviewed the laboratory results for the hazardous constituents from listed waste per DEQ guidance *Conducting Contained-In Determinations for Environmental Media* dated January 9, 2020. Low levels of PCE and TCE were detected in select IDW drums. The results of the chemical analysis for PCE and TCE are tabulated below. The complete soil analytical results are presented in Tables 1 and 2 of Attachment 1.

Table 1. Media Pollutant and Applicable Risk-Based Concentrations

Sample ID	PCE Concentration (ug/Kg)	TCE Concentration (ug/Kg)
CUTTINGS_MW6D	975	111
CUTTINGS_MW2C	124	ND
CUTTINGS_MW1	57.2	ND
CS-17-Pile	NA	NA
CS-15-PIT	ND	ND
Soil Direct Contact Occupational RBC	1,000, 000	51,000
20 x TCLP Limit for Soil	14,000	10,000

A No Longer Contained-In Determination is needed to show that the soils planned for disposal are not characteristic hazardous waste; and that concentrations of PCE and TCE are below protective levels, and if applicable, Land Disposal Requirements (LDRs).

To demonstrate that the soil no longer "contains" hazardous waste, the following conditions need to be met:

1. The soil (a solid) must not exhibit a characteristic of hazardous waste (must not be reactive or toxic). The potential for soil containing a waste to exhibit the toxicity characteristic is evaluated through comparison of constituent concentrations in leachate, extracted from the waste, using the Toxicity Characteristic Leaching Procedure (TCLP), with the limits specified at Title 40, Part 261.24 of the Code of Federal Regulations (40 CFR 261.24). Only the pit soil sample (CS-15-PIT) was submitted for TCLP analysis for lead. The TCLP lead concentration was 0.029 mg/L which is well below the TCLP limit for lead (5 mg/L). TCLP Representative (total) chemical concentrations for the soil samples were compared to a value of 20 times the TCLP limit (to account for the 20 to 1



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dilution inherent in the TCLP analysis method) to determine if the limits could potentially be exceeded. If the 20 times TCLP limit for any chemical is exceeded, then the waste may be a characteristic waste. The 20 times TCLP limit for PCE is 14 part per million (ppm) or 14,000 part per billion (ppb). The 20 times TCLP limit for TCE is 10 ppm or 10,000 ppb. The soil would not exceed the toxicity characteristic for PCE or TCE applying this assessment method. The soil is therefore not a characteristic hazardous waste.

- 2. Concentrations of hazardous constituents from listed waste must be below health-based levels. Currently, it is DEQ policy that if soil is to be taken to a lined Subtitle D facility then concentrations of hazardous constituents should be below DEQ's "Occupational" Risk-Based Concentration (RBC) for direct contact. Currently, the occupational RBCs for PCE and TCE are 1,000 ppm and 51 ppm, respectively. The concentrations of PCE and TCE detected in the pit soil and the IDW soil are well below the occupational direct contact RBC indicating the soil is a good candidate for disposal at a Subtitle C or a Subtitle D equivalent landfill.
- 3. RCRA Land Disposal Restrictions do not apply because the waste was not removed from the Area of Contamination before this determination.

The table above illustrates the sample results compared to the applicable DEQ RBCs and TCLP.

Underlying constituents of PCE and TCE might be present in the soil at concentrations below the minimum reporting levels (MRLs) shown in the laboratory data. Using the MRL concentrations and our knowledge of process, we can assume the following about the soil:

- It would not be ignitable, corrosive nor reactive;
- Concentrations of underlying constituents would be below Toxicity Characteristic levels;
- Concentrations of underlying constituents would be below DEQ protective levels (Occupational RBCs).

Based on the review of the data and the above findings, DEQ has determined that the pit soil and the IDW soil generated during drilling and sampling activities at the Site do not exhibit characteristics of hazardous waste. The concentrations of detected solvents in the soil samples are below the DEQ's occupational risk-based levels. The soil does not pose an unacceptable risk to industrial worker exposure under the waste management scenario proposed. Thus, the pit soil and IDW soil meet the criteria for no longer containing listed waste. The pit soil and IDW soil may be disposed of at a permitted Subtitle C or Subtitle D landfill. Parametrix or BES should contact the applicable landfill facility(ies) to verify that they are willing to accept the soil and IDW waste. If the soil or IDW waste is not managed and disposed of following these conditions of approval, this NLCI Determination does not apply, the waste remains hazardous waste and must be managed and disposed of in compliance with applicable hazardous waste laws.



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APPENDIX D City of Portland Bureau of Environmental Services Soil Sample Data Tables 1 through 6

Table 1 - Summary of Soil Analytical Results- Total Petroleum Hydrocarbons (TPH)

					Laboratory	Analytical	Testing Resu	ılts (mg/kg)	
Sample ID	Sample Date	Sampled By	Sample Depth	NWTPH- HCID	NWTPH-Gx	NWTF	PH-Dx	EPA 8260	EPA 8270
					Gasoline	Diesel	Lube Oil	VOCs	SVOCs/PAHs
Kleinfelder & PN	IG Test Pits		(ft. bgs)						
TP3-13	5/18/99	PNG	13		4.77	ND	1,000	Table 2⁴	ND
TP-1-7	5/17/00	Kleinfelder	7					ND ⁴	ND
TP-1-19 TP-2-5	5/17/00 5/17/00	Kleinfelder Kleinfelder	19 5					ND ⁴	ND Table 3
TP-2-19	5/17/00	Kleinfelder	19					ND⁴ Table 2⁴	ND
BES Test Pits	0/11/00	1.10111101001	(ft. bgs)					Table 2	
T-Pit-1 0-18"	10/5/23	BES	0-1.5	Oil		28	520		Table 3
T-Pit-2 0-5'	10/5/23	BES	0-5	Oil		30	480		Table 3
T-Pit-3 0-18"	10/5/23	BES	0-1.5	Oil		ND	280		Table 3
T-Pit-4 0-5'	10/5/23	BES	0-5	Diesel, Gasoline, Oil	ND	190	2,100		Table 3
T-Pit-5 0-18"	10/5/23	BES	0-1.5	Diesel, Oil		64	1,700		Table 3
T-Pit-6 0-18"	10/5/23	BES	0-1.5	Oil		ND	390		Table 3
T-Pit-6 0-5'	10/5/23	BES	0-5	Oil		43	600		Table 3
T-Pit-7 0-5'	10/5/23	BES	0-5	Oil		ND	390		Table 3
T-Pit-8 0-18"	10/5/23	BES	0-1.5	Oil		ND	1,400		Table 3
T-Pit-9 0-5'	10/5/23	BES	0-5	Oil		27	550		Table 3
T-Pit-10 0-18"	10/5/23	BES	0-1.5	Oil		ND	450		Table 3
T-Pit-11 0-5'	10/5/23	BES	0-5	Oil		ND	200		Table 3
T-Pit-12 0-18"	10/5/23	BES	0-1.5	Oil		ND	410		Table 3
BES Geoprobe			(ft. bgs)				1	T	
WP-1 0-5	11/21/23	BES	0-5						Table 3
WP-1 5-10	11/21/23	BES	5-10	Oil		ND	190		Table 3
WP-2 0-5	11/21/23	BES	0-5	Oil	-	ND	340		Table 3
WP-2 5-10	11/21/23	BES	5-10						Table 3
WP-3 0-5	11/21/23	BES	0-5						Table 3
WP-3 5-10	11/21/23	BES	5-10	Oil		ND 02	260		Table 3
WP-4 0-5 WP-4 5-10	11/21/23 11/21/23	BES BES	0-5 5-10	Diesel, Oil		93	740		Table 3 Table 3
WP-4 5-10 WP-5 0-5	11/21/23	BES	0-5						Table 3
WP-5 5-10	11/21/23	BES	5-10	ND					Table 3
WP-6 0-5	11/21/23	BES	0-5	Oil		ND	96		Table 3
WP-6 5-10	11/21/23	BES	5-10						Table 3
WP-7 0-5	11/21/23	BES	0-5	Oil		26	490		Table 3
WP-7 5-10	11/21/23	BES	5-10	Oil		ND	220		Table 3
WP-9 0-5	11/21/23	BES	0-5	Oil		100	910		Table 3
WP-9 5-10	11/21/23	BES	5-10						Table 3
WP-10 0-5	11/21/23	BES	0-5	Oil		ND	180		Table 3
WP-10 5-10	11/21/23	BES	5-10						Table 3
WP-11 0-1	11/21/23	BES	0-1		ND			Table 2	
WP11 0-5	11/21/23	BES	0-5	ND					
WP-11 5-10	11/21/23	BES	5-10						Table 3
WP-11 10-15	11/21/23	BES	10-15	ND					
WP-12 0-5	11/21/23	BES	0-5	Oil		ND	1,000		Table 3
WP-12 5-10	11/21/23	BES	5-10						Table 3
WP-13 0-5	11/21/23	BES	0-5	Diesel, Oil		150	1,000		Table 3
WP-13 5-10	11/21/23	BES	5-10						Table 3
WP-13 10-15	11/21/23	BES	10-15	Oil		ND	180		Table 3
ODEQ Cleanfill									
Clean Fill Screen									
	ed Concentrations		<u> </u>		ı		ı	ı	
Construction Wo					9,700	4,600			
Excavation Work					>Max	>Max			
	ermal Contact, an	d Inhalation RB0) -		20,000	14,000			
	ermal Contact, an	d Inhalation RB0) -		1,200	1,100			
	l Risk Based Con	centrations					1		
	5011			II.					

Notes

DEQ - Department of Enviornmental Quality EPA - Enviornmental Protection Agency RBCs - Risk-Based Concentrations

NWTPH-HCID - Total petroleum hydrocarbon identification

NWTPH-Dx - Diesel-range hydrocarbon quantification NWTPH-Dx - Diesel-range hydrocarbon quantification NWTPH-Gx - Gasoline-range hydrocarbon quantification VOCs- Volatile organic compounds PAHs - Polycyclic aromatic hydrocarbons PCBs- Polychlroinated biphenyls

bgs - Below ground surface mg/kg - Milligrams per kilogram ND - Analyte not deteced in the sample

-- - Analyte not analyzed, or no screening value for this analyte in this scenario

>Max - Substance is deemed not to pose risks in this scenario

Bolded - Analyte detected in the sample
- Analyte detected at a concentration at or above ODEQ Clean Fill Screening Lev
- Analyte detected at a concentration at or above ODEQ Risk-Based Concentration

4 - 2-Butatnone detection attributed to laboratory contamination

Table 2 - Summary of Soil Analytical Results: Volatile Organic Compounds (VOCs)

					Joinpourius (,				Ana	lytical Testing	Results (ug	kg)						
										Volatile	Organic Compo	unds by EP	A 8260						
Sample ID	Sample Date	Sampled By	Sample Depth	1,1,2- Trichloroethane	1,2,4- Trimethylbenzene	1,2- Dichlorobenzene	1,4- Dichlorobenzene	Acetone	Benzene	Chlorobenzene	iso-Propylbenzene	p-IsopropyItoluene	m,p-Xylene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Total Xylenes
Kleinfelder & PN			(ft. bgs)									1	1				•		ı
TP3-13	5/18/99	PNG	13		ND	ND	ND	ND	956	ND	ND								
TP-2-5	5/17/00	Kleinfelder	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP-2-19	5/17/00	Kleinfelder	19	ND	ND	ND	ND	ND	ND	ND	ND	126	ND	408	ND	ND	ND	ND	ND
WP-11 0-1	11/21/23	BES	(ft. bgs) 0-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44	ND	ND	ND	ND	ND
ODEQ Cleanfill	11/21/23	DES	0-1	IND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44	ND	ND	ND	ND	ND
Clean Fill Screeni	ing Value			1	200	920	57	1.200	23	2,400			11,000	77	190,000	72,000	1.000	350,000	1,400
ODEQ Risk Base		ons		-	200	920	31	1,200	23	2,400			11,000	- ''	130,000	12,000	1,000	330,000	1,400
Soil Ingestion, De Construction Wor	ermal Contact,		RBC -	54,000	2,900,000	20,000	1,300,000		380,000	4,700,000	27,000,000		20,000,000	580,000			20,000,000		20,000,000
Soil Ingestion, De Excavation Worke	er			1,500,000	81,000,000	560,000,000	36,000,000	-	11,000,000	130,000,000	750,000,000		560,000,000	16,000,000	1		560,000,000	-	560,000,000
Soil Ingestion, De Occupational				26,000	6,900,000	36,000,000	64,000	1	37,000	8,700,000	57,000,000		25,000,000	23,000	1		25,000,000	1	25,000,000
Soil Ingestion, De Residential		and Inhalation	RBC -	3,200	430,000	2,200,000	14,000	1	8,200	530,000	3,500,000			5,300	1			1	1,400,000
Freshwater Sedin																			
Oregon DEQ Eco	logical Sedim	ent SLVs				-				-	-			176					

DEQ - Departement of Enviornmental Quality EPA - Environmental Protection Agency

RBCs - Risk-Based Concentrations bgs - Below ground surface ug/kg - Micrograms per kilogram ND - Analyte not detected in the sample

ND - Analyte not celected in the sample

- Csat - Substance RBC exceeds the limit of the three-phase equilibrium partitioning

- - Analyte not analyzed, or no screening value for this analyte in this scenario

Bolded - Analyte detected in the sample

- Analyte detected at a concentration at or above ODEQ Clean Fill Screening Levels

- Analyte detected at a concentration at or above ODEQ RBCs

Table 3 - Summar	y of Soil Anal	ytical Results: Polyo	cyclic Aromatic H	ydrocarbons (PAHs)
------------------	----------------	-----------------------	-------------------	---------------	-------

				Cyclic Aromatic Hydrocarbons (PAHs) Laboratory Analytical Testing Results (ug/kg) Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270-SIM But a graph of																
Sample ID	Sample Date	Sampled By	Sample Depth	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Butyl benzyl phthalate	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
leinfelder & PNC	F Test Pits		(ft. bgs)																	
TP-3-13	5/18/99	PNG	13		4.77	ND	1,000	Table 24	ND											
TP-2-5 TP-2-19	5/17/00 5/17/00	Kleinfelder Kleinfelder	5 19	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	3,830 ND	ND ND	ND ND	ND ND	ND ND	3,980 ND
ES Test Pits	3/1//00	Kleiilleidei	(ft. bgs)	IND	IND	IND	IND	IND	IND	IND	IND	IND	NB	NU	IVE	IND	IND	ND	IND	IND
T-Pit-1 0-18"	10/5/23	BES	0-1.5	ND	ND	ND	35	72	93	100	23	-	52	ND	69	ND	79	ND	ND	91
T-Pit-2 0-5' T-Pit-3 0-18"	10/5/23 10/5/23	BES BES	0-5 0-1.5	50 ND	430 80	250 83	490 95	1,400 220	1,100 260	1,400 300	390 100		700 160	160 49	580 140	ND ND	1,300 270	ND ND	130 ND	960 180
T-Pit-4 0-5'	10/5/23	BES	0-1.5	ND ND	ND ND	ND	43	66	77	69	29		77	ND	57	ND	58	ND	85	88
T-Pit-5 0-18"	10/5/23	BES	0-1.5	ND	ND	ND	ND	120	170	210	ND	-	65	ND	78	ND	150	ND	ND	150
T-Pit-6 0-18"	10/5/23	BES	0-1.5	ND	48	65	180	190	210	170	79	-	190	42	290	ND	160	ND	150	400
T-Pit-6 0-5' T-Pit-7 0-5'	10/5/23 10/5/23	BES BES	0-5 0-5	ND ND	88 ND	110 66	150 62	220 91	230 110	320 140	68 36		170 89	48 22	250 160	ND ND	240 120	ND ND	100 110	370 180
T-Pit-8 0-18"	10/5/23	BES	0-1.5	ND	ND	ND	ND	52	80	130	ND		ND	ND	52	ND	60	ND	ND	80
T-Pit-9 0-5' T-Pit-10 0-18"	10/5/23 10/5/23	BES BES	0-5 0-1.5	ND ND	100 ND	110 ND	110 ND	260 40	300 58	370 95	100 ND		200 19	69 ND	230 42	ND ND	360 52	ND ND	110 ND	290 62
T-Pit-11 0-5'	10/5/23	BES	0-1.5	ND ND	49	52	31	110	100	160	27		36	35	63	ND	150	ND	ND	92
T-Pit-12 0-18"	10/5/23	BES	0-1.5	ND	ND	ND	ND	46	48	76	ND		22	ND	28	ND	50	ND	ND	43
ES Geoprobe Sa		DEC	(ft. bgs)	ND	ND	ND	ND	00	20	25	ND		ND	ND	42	ND	20	ND	ND	C4
WP-1 0-5 WP-1 5-10	11/21/23 11/21/23	BES BES	0-5 5-10	ND ND	ND ND	ND ND	ND 66	26 100	28 120	35 80	ND 40		ND 89	ND ND	120	ND ND	28 78	ND ND	ND 68	61 140
WP-2 0-5	11/21/23	BES	0-5	ND ND	ND	ND	ND	35	39	53	ND	-	24	ND	51	ND	33	ND	ND	71
WP-2 5-10	11/21/23	BES	5-10	50	190	140	180	430	350	390	100		240	31	490	80	360	ND	390	660
WP-3 0-5 WP-3 5-10	11/21/23 11/21/23	BES BES	0-5 5-10	ND ND	ND ND	ND ND	ND 130	29 170	29 180	42 130	ND 66	-	ND 150	ND 26	ND 240	ND ND	ND 130	ND ND	ND 120	38 260
WP-4 0-5	11/21/23	BES	0-5	ND ND	ND	ND ND	24	ND	34	29	ND		28	ND	85	ND	23	ND	ND	100
WP-4 5-10	11/21/23	BES	5-10	570	42	450	730	950	1,000	660	310	-	800	110	1,700	480	730	270	1,400	1,600
WP-5 0-5	11/21/23	BES	0-5	ND	ND	53	39*	57	80	73	28		110	ND	56	ND	62	ND	ND	75
WP-6 0-5 WP-6 5-10	11/21/23 11/21/23	BES BES	0-5 5-10	ND ND	ND ND	ND ND	ND 61	13 69	17 79	ND 58	ND 25	-	14 78	ND ND	25 110	ND ND	ND 48	ND ND	ND 79	27 140
WP-7 0-5	11/21/23	BES	0-5	ND ND	ND	ND	54	110	110	120	28		57	24	100	ND	96	ND	54	150
WP-7 5-10	11/21/23	BES	5-10	54	1,200	620	2,700	2,800	2,500	1,600	830	-	2,700	340	5,000	180	1,800	190	2,300	6,500
WP-9 0-5	11/21/23	BES	0-5	370	4,300	1,900	5,000	8,400	6,500	6,400	2,100		5,800	780	18,000	290	5,900	ND	10,000	24,000
WP-9 5-10 WP-10 0-5	11/21/23 11/21/23	BES BES	5-10 0-5	1,900 ND	110 ND	1,100 ND	530 360	480 680	550 880	300 540	180 270		630 600	74 150	2,100 350	1,400 ND	330 600	3,800 ND	3,800 83	2,100 470
WP-10 5-10	11/21/23	BES	5-10	ND ND	ND	ND	ND	14	14	15	ND ND		11	ND	16	ND	13	ND	ND	22
WP-11 5-10	11/21/23	BES	5-10	ND	ND	ND	ND	16	16	18	ND		13	ND	20	ND	17	ND	ND	26
WP-12 0-5 WP-12 5-10	11/21/23 11/21/23	BES BES	0-5 5-10	ND ND	47 ND	23 ND	94 16	230 34	240 33	850 66	89 11		210 24	100 ND	130 30	ND ND	730 56	ND ND	57 ND	210 45
WP-13 0-5	11/21/23	BES	0-5	3,408	2,600	1,200	3,100	5,300	4,800	5,300	1,500	-	4,400	670	8,800	820	4,900	1,100	7,300	12,000
WP-13 5-10	11/21/23	BES	5-10	ND	ND	ND	80	78	110	72	ND	-	150	ND	170	ND	ND	ND	320	280
WP-13 10-15 DEQ Cleanfill	11/21/23	BES	10-15	120	700	560	1,200	1,700	1,400	1,300	450		1,500	190	3,900	420	1,300	400	4,300	4,500
lean Fill Screenin	na Value			250	120,000	6,800	730	110	1,100	25,000	11,000	14,000	3,100	110	10,000	3,700	1,100	77	5,500	10,000
DEQ Risk Based				200	120,000	0,000	700	110	1,100	20,000	11,000	14,000	0,100	110	10,000	0,700	1,100	- ''	0,000	10,000
oil Ingestion, Der onstruction Work	mal Contact, an		C -	21,000,000	-	110,000,000	170,000	17,000	4,900,000		49,000,000	-	490,000,000	490,000	280,000,000	390,000,000	4,900,000	16,000,000	-	210,000,00
oil Ingestion, Der xcavation Worker	•			590,000,000		>Max	4,900,000	490,000	170,000		1,700,000	-	17,000,000	17,000	10,000,000	14,000,000	170,000	580,000		7,500,000
oil Ingestion, Der ccupational				70,000,000	-	350,000,000	21,000	2,100	21,000		210,000	-	2,100,000	2,100	30,000,000	47,000,000	21,000	23,000		23,000,00
esidential			C -	4,700,000		23,000,000	1,100	110	1,100		11,000	-	110,000	110	2,400,000	3,100,000	1,100	5,300		1,800,000
		certiations		290	160	57	32	32		300	27		57	33	111	77	17	176	42	53
Soil Ingestion, Dermal Contact, and Inhalation RBC - 4,700,000 - 23,000,000 1,100 110 1,100 - 110,000 - 110,000 110 2,400,000 3,100,000 1,100 5,300 - 1,800,000 Residential ODEQ Ecological Risk Based Concentrations Freshwater Sediment 290 160 57 32 32 - 300 27 - 57 33 111 77 17 17 176 42 53 Notes DEC - Department of Environmental Quality EPA - Environmental Protection Agency RBGs - Risk-Based Concentrations By Bead Sediment Surface Upting - Mitrograms per kilogram No - Analyte not detected in the sample Analyte not detected in the sample Analyte not pose risks in this scenario Marks - Substance RBC exceeds the limit of the three-phase equilibrium partitioning NV - Substance RBC exceeds the limit of the three-phase equilibrium partitioning NV - Substance RBC exceeds the limit of the three-phase equilibrium partitioning NV - Substance RBC exceeds the limit of the three-phase equilibrium partitioning NV - Substance Into volatile																				

Table 4 -Summa						L	aboratory A	nalytical Te	sting Re	sults (mg/k	g)		
Sample ID	Sample Date	Sampled By	Sample Depth				Т	otal Metals	EPA 6020				
·	· ·	. ,		Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc
Kleinfelder & PNO	Test Pits		(ft. bgs)										
TP-1-7	5/17/00	Kleinfelder	7	2.62	120	0.078	24		7.8	0.0075	ND	ND	
TP-1-19	5/17/00	Kleinfelder	19	7.19	220	0.26	24		74	0.030	ND	ND	
TP-2-5	5/17/00	Kleinfelder	5	6.93	110	0.40	22		24	0.030	ND	ND	
TP-2-19	5/17/00	Kleinfelder	19	6.45	120	0.19	14		76	4.88	ND	ND	
BES Test Pits			(ft. bgs)										
T-Pit-1 0-18"	10/5/23	BES	0-1.5	4.44		0.449	113	34.4	84.1	0.0670			142
T-Pit-2 0-5'	10/5/23	BES	0-5	5.00		0.352	51.8	30.6	59.2	0.1610			127
T-Pit-3 0-18"	10/5/23	BES	0-1.5	9.27		0.893	169	82.4	123	0.0719			232
T-Pit-4 0-5'	10/5/23	BES	0-5	3.63		0.252	21.3	21.6	69.9	0.0484			112
T-Pit-5 0-18"	10/5/23	BES	0-1.5	2.62		0.166	20.4	24.5	27.7	0.0226			84.1
T-Pit-6 0-18"	10/5/23	BES	0-1.5	5.15		0.193	29.0	25.4	30.9	0.0391			90.4
T-Pit-6 0-5'	10/5/23	BES	0-5	6.44		0.270	27.5	34.0	74.7	0.101			138
T-Pit-7 0-5'	10/5/23	BES	0-5	5.09		0.291	23.3	28.2	51.8	0.0639			145
T-Pit-8 0-18"	10/5/23	BES	0-1.5	2.72		0.165	18.9	30.9	16.0	0.0213			81.2
T-Pit-9 0-5'	10/5/23	BES	0-5	3.70		0.168	24.3	26.2	29.0	0.0252			93.9
T-Pit-10 0-18"	10/5/23	BES	0-1.5	2.22		0.138	447	28.7	25.1	0.0180			70.8
T-Pit-11 0-5'	10/5/23	BES	0-5	4.27		0.171	330	29.8	32.6	0.0246			104
T-Pit-12 0-18"	10/5/23	BES	0-1.5	3.12		0.153	19.7	19.9	16.1	0.0273			78.1
BES Geoprobe Sa			(ft. bgs)										
WP-1 0-5	11/21/23	BES	0-5	6.57		0.174	26.8	24.9	89.6	0.0246	1		79.2
WP-1 5-10	11/21/23	BES	5-10	6.46		0.261	27.1	26.6	62.3	0.0579			114
WP-2 0-5	11/21/23	BES	0-5	11.0		0.165	32.2	25.0	28.8	0.0249			84.9
WP-2 5-10	11/21/23	BES	5-10	11.8		0.167	27.4	18.0	19.6	0.0224			75.5
WP-3 0-5	11/21/23	BES	0-5	4.69		0.102	27.4	22.7	15.8	0.0224			62.1
WP-3 5-10	11/21/23	BES	5-10	9.59		0.239	34.0	46.4	46.2	0.0431			98.3
WP-4 0-5	11/21/23	BES	0-5	2.91		0.141	24.9	16.8	14.5	0.0251			55.3
WP-4 5-10	11/21/23	BES	5-10	14.3		0.141	33.4	115	84.0	0.0231			121
WP-5 0-5	11/21/23	BES	0-5	8.22		0.167	118	26.6	18.2	0.0410			72.1
WP-5 5-10	11/21/23	BES	5-10	3.65		0.107	25.3	20.2	21.7	0.0323			69.4
WP-6 0-5	11/21/23	BES	0-5	7.59		0.125	27.7	19.7					81.2
WP-6 5-10	11/21/23	BES	5-10	5.93		0.149	30.5	31.6	20.1 28.1	0.0347 0.0780			84.0
WP-7 0-5	11/21/23	BES	0-5	8.32		0.170	26.5	24.4	23.8	0.0305		-	76.1
WP-7 5-10	11/21/23	BES	5-10	6.17		0.157	25.5	35.9	39.4	0.0884			82.3
WP-9 0-5	11/21/23	BES	0-5	4.56		0.110	25.4	19.6	18.5	0.0243			63.6
WP-9 5-10	11/21/23	BES	5-10	4.75		0.204	24.9	28.5	27.1	0.0420			88.9
WP-10 0-5	11/21/23	BES	0-5	4.51		0.249	28.1	28.7	30.7	0.0340		-	95.3
WP-10 5-10	11/21/23	BES	5-10	5.48		0.241	26.6	22.4	51.5	0.0574			117
WP11 0-5	11/21/23	BES	0-5	6.74		0.268	27.0	29.8	34.1	0.0289			120
WP-11 5-10	11/21/23	BES	5-10	10.4		0.230	27.5	19.2	32.7	0.2790			111
WP-11 10-15	11/21/23	BES	10-15	7.29		0.333	31.8	40.6	137	0.0296			170
WP-12 0-5	11/21/23	BES	0-5	5.19		0.255	23.7	27.0	101	0.0389			127
WP-12 5-10	11/21/23	BES	5-10	3.18		0.182	18.1	27.3	31.6	0.0272			91.2
WP-13 0-5	11/21/23	BES	0-5	3.19		0.307	23.3	38.5	71.0	0.0295			118
WP-13 5-10	11/21/23	BES	5-10	4.18		0.284	23.3	19.7	45.0	0.112			137
WP-13 10-15	11/21/23	BES	10-15	5.94		0.310	26.8	21.4	141	0.0379			173
ODEQ Cleanfill													
Clean Fill Screenin	g Value			8.8	790	0.63	76	34	28	0.23	0.71	0.82	180
ODEQ Risk Based	Concentraions												
Soil Ingestion, Der		Inhalation PE	RC - Construction		I	1	<u> </u>	1		<u> </u>	1		
Worker	mai Contact, and	a minaration RE	o - Construction	15	69,000	350	530,000	14,000	800	110		1,800	
Soil Ingestion, Der	mal Contact, and	d Inhalation RE	BC - Excavation	420	>Max	9,700	>Max	390,000	800	2,900		49,000	
Worker				420	~iviaX	9,700	~iviax	390,000	000	2,900		+8,000	
Soil Ingestion, Den	1.9*	220,000	1,100	>Max	47,000	800	350		5,800				
Soil Ingestion, Der	mal Contact, and	d Inhalation RE	BC - Residential	0.43*	15,000	78	120,000	3,100	400	23		390	
ODEQ Ecological I	Risk Based Cond	centrations			1	1	1						
Freshwater Sedime	ont			6*		0.6	37	36	35	0.2		4.5	123

Notes

DEQ - Department of Environmental Quality EPA - Environmental Protection Agency

RBCs - Risk-Based Concentrations

NBUS - NISK-Based Contentiations
bgs - Below ground surface
mg/kg - Milligrams per kilogram
ND - Analyte not detected in the sample
-- Analyte not analyzed, or no screening value was found for this analyte in this scenario
>Max - Substance is deemed not to pose risks in this scenario
NV - Substance is not volatile

Bolded - Analyte detected in the sample

Analyte detected at a concentration at or above ODEQ Clean Fill Screening Levels
 Analyte detected at a concentrations at or above ODEQ RBCs
 Analyte detected at a concentrations at or above ODEQ RBCs
 Analyte detected at a concentration at or above ODEQ RBCs
 Analyte detected at a concentration at or above ODEQ RBCs

Table 5 - Summary of Soil Analytical Results: Polychlorinated Biphenyls (PCBs)

	,		ound: 1 diyonic	Laboratory Analytical Testing Results (ug/kg)												
Sample ID	Sample Date	Sampled	Cample Death		Polychorina				, , ,							
Sample ID	Sample Date	Ву	Sample Depth	Aroclor 1016/1242	Aroclor 1221	Aroclor 1232	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs						
BES Test Pits			(ft. bgs)													
T-Pit-6 0-5'	10/5/23	BES	0-5	ND	ND	ND	ND	ND	ND	ND						
BES Geoprobe	Samples		(ft. bgs)													
WP-3 0-5	11/21/23	BES	0-5	ND	ND	ND	ND	19.3	ND	19						
WP-10 5-10	11/21/23	5-10	ND	ND	ND	ND	ND	ND	ND							
ODEQ Cleanfill																
Clean Fill Scree	ning Value			41	4.8	4.8	7.3	41	240	230						
ODEQ Risk Bas	sed Concnetration	S														
Soil Ingestion, D	Dermal Contact, a orker	nd Inhalation	RBC -							4,900						
Soil Ingestion, DExcavation Wor	Dermal Contact, a ker	nd Inhalation	RBC -							140,000						
Soil Ingestion, D Occupational	Permal Contact, a	nd Inhalation	RBC -		-					590						
Soil Ingestion, D Residential	Dermal Contact, a	nd Inhalation	RBC -							230						
ODEQ Ecologic	al Risk Based Co	ncentrations					•		•							
Freshwater Sed	iment						21	7		34						

Notes

DEQ - Department of Environmental Quality

EPA - Environmental Protection Agency

RBCs - Risk-Based Concentrations

bgs - Below ground surface

ug/kg - Mircograms per kilogram

ND - Analyte not detected in the sample

--- Analyte not analyzed, or no screening value was found for this analyte in this scenario

>Max - Substance is deemed not to pose risks in this scenario

>Csat - Substance RBC exceeds the limit of the three-phase equilibrium partitioning

NV - Substance is not volatile

Bolded - Analyte detected in the sample

- Analyte detected at a concentration at or above ODEQ Clean Fill Screening Levels
- Analyte detected at a concentrations at or above ODEQ RBCs

Table 6 - Summary of Soil Analytical Results: Pesticides

Tubic C Cuii	,		Nesulis. Festi																						
													Labor	atory Analy	tical Resi	ults (ug/kg)									
														Pesticio	des 8081B	}									
Sample ID	Sample Date	Sampled By	Sample Depth	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Chlordane	cis-Chlordane	trans- Chlordane	4-4'-DDD	4-4'-DDE	4-4-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxyclor	Toxaphene
BES Test Pits			(ft. bgs)																						
T-Pit-7 0-5'	10/5/23	BES	0-5	ND	ND	ND	0.35	ND	ND	3.90	4.80	120	91	150	ND	1.40	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODEQ Clean Fi	II																								
Clean Fill Scree	ning Value			23	63	9		95	910	270	2,200	63	10	10	45	640	640		14			17	42	5,100	360
ODEQ Risk Bas	sed Concentrat	ions																							
Soil Ingestion, E Construction We		t, and Inhala	tion RBC -	1,100	3,000	-		17,000	61,000	-	-	9,700	66,000	66,000	1,200	1,600,000	1,600,000	-	80,000			4,000	2,000	-	17,000
Soil Ingestion, E Excavation Wor		t, and Inhala	tion RBC -	30,000	83,000	-		470,000	1,700,000			270,000	1,800,000	1,800,000	33,000	45,000,000	45,000,000		2,200,000			110,000	56,000		470,000
Soil Ingestion, C	Contact, and In	halation RB0	C - Occupational	130	360			2,100	7,400		-	12,000	8,200	8,500	140	4,900,000	4,900,000	-	250,000			450	240		2,100
Soil Ingestion, C	Soil Ingestion, Contact, and Inhalation RBC - Residential			31	86	-	-	490	1,700		-	2,200	1,800	1,900	34	380	,000	-	19,000		-	110	55	1	490
ODEQ Ecologic	al Risk Based	Concentration	ons		,	,					,				,			,		,		,		,	
Freshwater Sed	liment			40	-	-	-	-	5	-	-	4	2	4	3	-	-	-	3		-	10	1	-	-

Notes
DEQ - Department of Environmental Quality
EPA - Environmental Protection Agency

RBCs - Risk-Based Concentrations bgs - Below ground surface

ug/kg - Mircograms per kilogram ND - Analyte not detected in the sample

--- Analyte not analyzed, or no screening value was found for this analyte in this scenario

>Max - Substance is deemed not to pose risks in this scenario

>Csat - Substance RBC exceeds the limit of the three-phase equilibrium partitioning

NV - Substance is not volatile

Bolded - Analyte detected in the sample

- Analyte detected at a concentration at or above ODEQ Clean Fill Screening Levels

- Analyte detected at a concentrations at or above ODEQ RBCs

APPENDIX E

Kleinfelder, Inc. and PNG Environmental, Inc. - Phase II Environmental Site Assessments



PHASE II ENVIRONMENTAL INVESTIGATION

Larsen Property 10505 North Portland Road Portland, Oregon

> DEQ File 26-97-0558 DEQ ECSIS 186

> > Prepared for:

CITY OF PORTLAND

Bureau of Environmental Services 1120 Southwest Fifth Avenue, Room 400 Portland, Oregon 97204-1972

Prepared by:

PNG ENVIRONMENTAL, INC.

850-02 November 12, 1999

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1 INTRODUCTION

This report presents the results of the Phase II Environmental Investigation performed by PNG Environmental, Inc. (PNG) at the Larsen Property at 10505 North Portland Road in Portland, Oregon. This Phase II Environmental Investigation was conducted for the City of Portland Bureau of Environmental Services (BES) under a standard Work Order for CSA Services. The City of Portland is in the process of negotiating the purchase of the subject site. The proposed use of the subject site is for the expansion of the adjacent Columbia Boulevard Wastewater Treatment Plant.

The purpose of this investigation is to assess soil and groundwater quality at selected areas at the subject site to assess if the site is in compliance with applicable Oregon Department of Environmental Quality (DEQ) and US Environmental Protection Agency (EPA) regulations. The subject site is currently listed as File 26-97-0558 on the DEQ Underground Storage Tank (UST) Cleanup List and as Site 186 on the DEQ Confirmed Release List. The investigation included the excavation of five test pits, the installation of six monitoring wells, and the collection and analysis of groundwater samples from the monitoring wells during two separate sampling events.

The purpose of the Phase II Environmental Investigation is to assess only environmental concerns. The investigation does not present any engineering opinions concerning the site and presents no engineering opinions concerning the suitability of the site for development.

SCOPE OF WORK

The investigation consisted of the following tasks:

Task 1 - Review Existing Environmental Data

- Review the environmental reports available for the site.
- Meet with the current property owner's consultant to review underground storage tank (UST) decommissioning documents for the site.

Task 2 - Subsurface Investigation

- Prepare a Site Safety Plan.
- Excavate five test pits in identified areas of concern.
- Collect subsurface soil samples from test pits.
- Install six monitoring wells.
- Collect two rounds of water samples from the monitoring wells.
- Submit the soil and water samples to an analytical laboratory for selected chemical analyses.

Task 3 - Report Preparation

Prepare a report summarizing field activities and findings.

3 SITE DESCRIPTION

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The Larsen Property is located at 10505 North Portland Road in Portland, Oregon (Figure 1). The subject site consists of 24.02 acres in Tax Lots TL22 (13.36 acres) and TL107 (10.66 acres) in sections 5 and 6, Township 1 North, Range 1 East, Multnomah County, Oregon. The subject site is the northern portion of a 39.77-acre parcel owned by Louis and Karen Larsen of Portland, Oregon.

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The subject site is bounded on the north by the Columbia Slough, on the east by North Portland Road, the Burlington Northern Railroad and the BES Columbia Boulevard Waste Water Treatment Plant, on the west by Columbia Steel Casting Company, and on the south by the Matlack Inc./Bright-Sol facility (Figure 2).

The Matlack Inc./Bright-Sol facility is located on the southern portion of the parcel owned by the Larsens. The Matlack facility is the site of the former Arrow Trucking facility and former Widing Transportation facility. The former Widing Transportation facility disposed of tanker rinse water into ponds located on the subject site. The ponds were drained, and closed with DEQ approval in 1984. Widing Transportation, Arrow Trucking, and Matlack Inc. continued to use the tanker washing facility, but with discharge to the City of Portland sewer system.

4 BACKGROUND

PNG conducted a Limited Phase II Environmental Site Assessment (ESA) at the subject site in December 1998. The results of the Limited Phase II ESA identified the following areas of concern.

4.1 UST AT FORMER PENINSULA DIESEL FACILITY

Peninsula Diesel operated a diesel engine repair and rebuilding shop at 10505 North Portland Road on the northeast portion of the subject site from 1985 to 1998. In 1997, a prospective purchaser conducted a Phase I ESA for the subject site. A gasoline UST was identified at the site during the Phase I ESA. At that time, Enviro-Comp Services, Oregon City, Oregon, decommissioned the UST and conducted remedial activities. The release was reported to DEQ (UST File 26-97-0558). At the time of the PNG Limited Phase II ESA, very little information was in the DEQ files concerning this release. As part of the PNG Limited Phase II ESA, PNG installed a soil probe (B-1) in the area of the decommissioned UST. Water samples (B1-W) from the soil probe detected gasoline constituents, with a concentration of benzene exceeding the DEQ numeric cleanup standard.

The concern from the UST area is the status of the remedial activities and the concentration of gasoline constituents remaining in the soil and groundwater. During the present investigation, the Phase I ESA, which contained the UST decommissioning information, was reviewed. In addition, one test pit was excavated in the area downgradient of the remedial activities.

4.2 MATERIALS STORAGE AREA

The surface area west of the former Peninsula Diesel shop is used for storage of various used building materials. The subsurface in this area appears to have been filled with construction debris. During the PNG Limited Phase II ESA, an open excavation was noted in this area. The excavation contained concrete rubble and metal debris. A waste drum had been placed near the excavation for excavated materials. The contents of the drum are not known. During the PNG Limited Phase II ESA, two soil borings (B-2 and B-3) were completed in this area. Soil cuttings from Boring B-3 appeared to contain foundry sand. Elevated concentrations of leachable metals (TCLP) were not detected in soil or groundwater samples from the borings during the PNG Limited Phase II ESA. However, elevated hydrocarbon constituents and solvents were detected in groundwater samples from the borings.

The concerns for this area are the source and nature of the fill material and the extent of the petroleum product and solvent contamination in groundwater. During this investigation, two test pits (TP-1 and TP-2) and four monitoring wells (MW-1, MW-2, MW-3, and MW-4) were installed to assess this area.

4.3 FORMER POND AREA

The Former Pond Area (Figure 2) has been filled since at least 1984. The pond area was used for the disposal of rinsate from the truck cleaning operation from the previous operators of the adjacent Matlack facility. The Former Pond Area portion of the subject site and the adjacent former Arrow Trucking facility were assessed by EPA in 1984. After the ponds were closed, EPA determined that "No Further Action" was required

under the Federal Superfund Program. However, DEQ conducted a Preliminary Assessment in 1993 and placed the Arrow Trucking site (Site 186) on the DEQ Confirmed Release List in 1997. DEQ recommended further assessment of the pond area.

During the PNG Limited Phase II ESA, three soil probes (B-4, B-5, and B-6) were installed in the Former Pond Area. All three probes encountered refusal and could not penetrate the fill material.

The concerns in the Former Pond Area are the type of material used as fill, the effect of the residual sludge material on groundwater quality, and the effect of the adjacent tanker washing operation on groundwater quality. Additional concerns for the Former Pond Area were the effects of the operations of the adjacent Columbia Steel facility on the soil and groundwater at the subject site. Columbia Steel stores used foundry sand on the area directly west of the Former Pond Area.

During this investigation three test pits (TP-2, TP-3, and TP-4) and three monitoring wells (MW-1, MW-5, and MW-6) were installed in the Former Pond Area.

FIELD INVESTIGATION

The field investigation task included a test pit exploration, the installation of monitoring wells, and two groundwater sampling events. The test pit exploration was conducted on May 18, 1999. Monitoring wells were installed on May 18, 1999 and May 24, 1999. Groundwater samples were collected on May 26, 1999 and July 28, 1999. The test pit and monitoring well locations installed during this investigation and the boring locations from the PNG Limited Phase II ESA are shown on Figure 3.

5.1 **FIELD METHODS**

The field methods used during the Phase II Environmental Investigation are described in the following sections.

TEST PIT EXPLORATION 5.2

Five test pits were installed with a track hoe on May 18, 1999 by Terra Hydr, Inc. Portland, Oregon. The purpose of the test pits was to expose a larger area of the subsurface fill materials to evaluate potential drilling conditions. The test pit excavations were observed by a PNG geologist. Soil samples were collected from the excavated material. Following sampling, the pits were filled with the excavated material.

5.3 SOIL SAMPLING

Soil samples were collected from four of the five test pits on May 18, 1999. All soils were field-screened for staining, odor, and the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). The samples were collected directly out of the track-hoe bucket, placed in laboratory-prepared glass jars, and sealed with Teflon-lined lids. Each sample was placed in an iced cooler and transported to the City of Portland Bureau of Environmental Services Water Pollution Control Laboratory under chain-of-custody protocol. A copy of the chain-of-custody is presented in the laboratory analytical report (Appendix A).

MONITORING WELL INSTALLATION 5.4

Track-mounted drilling equipment was initially scoped for the Phase II Environmental Investigation. The project was scheduled for early spring 1999. At that time, the Former Pond Area could not support rubber-tired drilling equipment. Monitoring Wells MW-1, MW-2, and MW-3 were completed with track-mounted, hollow-stem auger drilling equipment by GeoTech Explorations, Tualatin, Oregon on May 18, 1999. Because the monitoring wells were located near test pits or former soil-probe borings, soil samples were not collected. The cuttings were logged for lithologic contacts and field-screened for contamination. Cuttings are stored in drums on-site, pending disposal. Boring logs were prepared for each soil boring and are presented as Appendix B.

Due to the concrete debris in the subsurface, the completion of borings with hollow-stem auger drilling equipment was difficult. Well MW-3 encountered refusal at a depth of 18 feet. The results of the test pit exploration indicated abundant concrete rubble in the Former Pond Area. On May 24, 1999, Wells MW-4, MW-5, and MW-6 were installed with air-rotary drilling equipment using a 6-inch diameter, tri-cone bit with a casing hammer. The drill cuttings, collected in a cyclone, were logged for lithologic contacts

and field-screened for contaminants by a PNG geologist. No soil samples were collected from the borings. Cuttings are stored in drums on-site, pending disposal. Boring logs were prepared for each soil boring and are included in Appendix B.

The monitoring wells were constructed to Oregon standards with sand pack, seal, and above-ground monuments. The wells were constructed with 2-inch PVC schedule 40 casing and 0.010-inch machine-slot screen. Bullards were placed around the above-ground monuments to protect the wells. Details of well construction are provided in the boring logs presented in Appendix B and summarized in Table 1.

5.5 GROUNDWATER SAMPLING

The monitoring wells were developed by surging and pumping following drilling. On March 24 and 25, 1999, the wells were purged with a peristaltic pump. Purge water was placed in drums on-site pending disposal. On May 26, 1999 and July 28, 1999, PNG collected groundwater samples from the monitoring wells.

Prior to sampling, each well was measured with an oil-water interface probe to check for separate-phase hydrocarbons (SPH). No SPH were observed in any of the wells.

The volume of water in the wells was calculated and a minimum of three well volumes of water was purged with a peristaltic pump at a pumping rate of approximately one gallon per minute (gpm). Groundwater was purged from the top of the water column and the purge line was lowered in response to decreasing water levels. A new length of low-density polyethylene tubing was used in each well.

Groundwater samples from the wells were collected with new, disposable polyethylene bailers. Samples were carefully transferred into sample containers through a disposable VOA filler valve. Samples were placed in an iced cooler and delivered to the City of Portland Water Pollution Control Laboratory under chain-of-custody protocol. Groundwater collection forms documenting field activities are presented as Appendix C.

Groundwater samples were analyzed for selected chemical analysis, including:

- Total Petroleum Hydrocarbon as gasoline using the DEQ Method NWTPH-Gx.
- Total Petroleum Hydrocarbons as diesel and oil using the DEQ Method NWTPH-Dx.
- Volatile Organic Compounds using EPA Method 624.
- Semi-volatile Organic Compounds using EPA Method 625.

6 SUBSURFACE CONDITIONS

6.1 SOIL CONDITIONS

The soil encountered in the five test pits consisted of various fill materials including sand, silt, gravel, foundry sand, wood debris, concrete, and asphalt.

6.1.1 Test Pit TP-1

Test Pit TP-1 is located in the material storage area west of the former Peninsula Diesel building. The test pit encountered fill material to the total depth excavated of 17 feet. Groundwater entered the pit and stabilized at a depth of approximately eight feet below ground surface. The soil in the excavation was visibly stained and emitted a creosotetype odor. A petroleum product sheen was noted on the water in the pit. Fill material in the excavation consisted waste materials, including, tires, bottles, wood, concrete, and metal.

Soil sample TP-1-12 was collected from the excavation at a depth of 12 feet. The sample displayed a petroleum product sheen. The sample was analyzed for petroleum products by DEQ Methods NWTPH-Dx and NWTPH-Gx, semi-volatile organic compounds (SVOC) by EPA Method 8270B, and VOCs by EPA Method 8240.

6.1.2 Test Pit TP-2

Test Pit TP-2 is located in the former pond area in the northwest portion of the site. Test Pit TP-2 encountered fill material to the total depth excavated of 17 feet. The fill material consisted of construction debris, primarily concrete rubble, with a brown silt/sand matrix. The fill material emitted a slight petroleum-like odor and displayed slight petroleum-product staining. Groundwater was not encountered in the excavation.

Soil sample TP-2-17 was collected from the base of the excavation at a depth of 17 feet. The sample was analyzed for petroleum products by DEQ Methods NWTPH-Dx and NWTPH-Gx, SVOCs by EPA Method 8270B, and VOCs by EPA Method 8240.

6.1.3 Test Pit TP-3

Test Pit TP-3 is located in the Former Pond Area north of the adjacent Matlack facility. Test Pit TP-3 encountered fill material to the total depth excavated of 13 feet. The fill material consisted of construction debris, primarily concrete rubble, with a dark brown The fill material emitted a petroleum-like odor and displayed a silt/sand matrix. petroleum-product staining. Groundwater was not encountered in the excavation.

Soil sample TP-3-13 was collected from the base of the excavation at a depth of 13 feet. The sample was analyzed for petroleum products by DEQ Methods NWTPH-Dx and NWTPH-Gx, SVOCs by EPA Method 8270B, and VOCs by EPA Method 8240.

6.1.4 Test Pit TP-4

Test Pit TP-4 is located in the Former Pond Area in the southwest portion of the site. Test Pit TP-4 encountered fill material to the total depth excavated of 12 feet. The fill material consisted of construction debris, primarily concrete rubble, with a brown silt/sand matrix. The fill material did not emit a petroleum-like odor and displayed no petroleum-product staining. Groundwater was not encountered in the excavation.

No soil sample from Test Pit TP-4 was submitted for analyses.

6.1.5 Test Pit TP-5

Test Pit TP-5 is located north of the UST remediation area in the northeast portion of the site. Test Pit TP-5 encountered sand fill material to the total depth excavated of eight feet. The fill material consisted of well-graded coarse to medium-grained sand with minor silt. The fill material did not emit a petroleum-like odor and did not display petroleum-product staining. Groundwater was not encountered in the excavation.

Soil sample TP-5-8 was collected from the base of the excavation at a depth of eight feet. The sample was analyzed for petroleum products by DEQ Methods NWTPH-Dx and NWTPH-Gx, SVOCs by EPA Method 8270B, and VOCs by EPA Method 8240.

6.2 GROUNDWATER FLOW CONDITIONS

PNG surveyed the elevation of the monitoring wells casings on May 25, 1999. The survey was referenced to an arbitrary datum of 100 feet. Groundwater levels were measured in the six monitoring wells on May 26, 1999, and July 28, 1999 (Table 2).

6.2.1 May 26, 1999

Groundwater levels at the site as measured on May 26, 1999 ranged from 9.26 to 17.78 feet below ground surface (bgs). The flow is to the north, toward the Columbia River, at a gradient of 0.018 foot per foot (ft/ft) (Figure 4).

The shallow water level in Well MW-3 appears to indicate that a perched water zone is present in the area of the well. Data from Well MW-3 were not used in the calculation of a groundwater flow gradient. A comparison of the groundwater levels in Test Pit TP-1 and the adjacent Well MW-2 indicates that the water observed in the test pit excavation was also a perched water zone.

6.2.2 July 28, 1999

Groundwater levels at the site as measured on July 28, 1999, ranged from 10.25 to 22.92 feet bgs. Groundwater flow is to the north at a gradient of 0.017 ft/ft (Figure 5).

The water levels in Well MW-3 appeared to indicate a perched water zone.

7 ANALYTICAL RESULTS

A summary of the soil and groundwater analytical results is provided in Tables 3 through 8. Laboratory analytical reports are presented as Appendix A.

7.1 DATA REVIEW

A review of the analytical reports resulted in the following modifications to the reports.

- Sample ID LAP990109 The Sample Point Code is TP-1-12, not TP-1-17.
- Sample ID LAB990111 The Sample Point Code is TP-3-13, not TP-2-13 as reported.
- 3. Sample ID LAB 990113 The result for Method NWTPH-Gx is 244 ug/L, not 244 mg/L as reported. This correction has been confirmed by the laboratory.
- Sample ID LAB 990114 The result for Method NWTPH-Gx is 109 ug/L, not 109 mg/L as reported. This correction has been confirmed by the laboratory.
- 5. Sample ID LAB 990115 The result for Method NWTPH-Gx is 90.9 ug/L, not 90.9 mg/L as reported. This correction has been confirmed by the laboratory
- 6. Sample ID LAB 990116 The result for Method NWTPH-Gx is <80 ug/L, not <80 mg/L as reported. This correction has been confirmed by the laboratory.
- 7. Sample ID LAB 990117 The result for Method NWTPH-Gx is 310 ug/L, not 310 mg/L as reported. This correction has been confirmed by the laboratory.
- 8. Sample ID LAB 990118 The result for Method NWTPH-Gx is <80 ug/L, not <80 mg/L as reported. This correction has been confirmed by the laboratory.

Sample W7 from the July 28, 1999 sampling event is a duplicate sample collected from Well MW-5.

7.2 SOIL ANALYTICAL RESULTS

Petroleum hydrocarbons were detected in all four test pit soil samples submitted (Table 3). Total petroleum hydrocarbons as gasoline (TPH-G) were detected in three soil samples (TP-1-12, TP-2-17, and TP-3-13). Concentrations of TPH-G ranged from 3.63 mg/Kg to 1,470 mg/Kg. The highest concentration of TPH-G was from the soil sample from Test Pit TP-1 located in the material storage area.

Total petroleum hydrocarbons in the heavy oil range were detected in all four test pit soil samples submitted at concentrations ranging from 116 mg/Kg to 1,440 mg/Kg. The highest concentrations of TPH in the heavy oil range were from Test Pit TP-3 (1,000 mg/Kg) and Test Pit TP-5 (1,440 mg/Kg).

Concentrations of TPH as diesel were not detected at laboratory detection limits in any of the four soil samples submitted.

Semi-volatile organic hydrocarbons were not detected at the laboratory detection limits in any of the four soil samples submitted (Table 4).

Benzene in sample TP-3-13 was the only VOC detected at concentrations exceeding the laboratory detection limits in the four soil samples submitted (Table 5).

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7.3 GROUNDWATER ANALYTICAL RESULTS

The results of the May 26, 1999 and July 28, 1999 groundwater sampling events are described in the following sections.

7.3.1 May 26, 1999 Sampling Event

Petroleum hydrocarbons were detected in water samples from Wells MW-1, MW-2, MW-3, and MW-5 during the May 26, 1999 sampling event (Table 6). Total petroleum hydrocarbon as gasoline was detected in samples collected from Wells MW-1, MW-2, MW-3, and MW-5 at concentrations ranging from 0.091 mg/L to 0.310 mg/L.

Total petroleum hydrocarbon as diesel was not detected at laboratory detection limits in any of the six water soil samples submitted.

Total petroleum hydrocarbon in the heavy oil range was detected in the water sample from MW-2 at a concentration of 2.13 mg/L.

Semi-volatile organic compounds were detected in water samples from Wells MW-1, MW-2, and MW-3. Only 2,4 dimethylphenol (50 ug/L in MW-1 and 110 ug/L in MW-3) and Bis(2-ethylhexyl) Phthalate (50 ug/L in MW-3) were detected at concentrations that exceeded five times the laboratory detection limits (Table 7).

Volatile organic compounds were detected in water samples from Wells MW-1, and MW-3 (Table 8). Benzene (1 ug/L), chlorobenzene (19 ug/L), chlorobenzene (9 ug/L) and ethylbenzene (5 ug/L) were detected in the sample from Well MW-1. Chlorobenzene, (3 ug/L) and 1,2 dichlorobenzene (12 ug/L) were detected in the sample from Well MW-3.

7.3.2 July 28, 1999 Sampling Event

Petroleum hydrocarbons were detected in water samples from Wells MW-1, MW-2, MW-3, MW-4, and MW-5 during the July 28, 1999 sampling event (Table 6). Total petroleum hydrocarbons as gasoline were detected in samples from Wells MW-1, MW-2, and MW-3 at concentrations ranging from 0.123 mg/L to 0.234 mg/L.

Total petroleum hydrocarbons as diesel were detected in samples from Wells MW-1, MW-2, MW-3, MW-4, and MW-5 at concentrations ranging from 0.580 mg/L to 1.84 mg/L.

Total petroleum hydrocarbons in the heavy oil range were detected in the water sample from Wells MW-1, MW-3, MW-4, and MW-5 at a concentration ranging from 0.528 mg/L to 1.02 ug/L.

Semi-volatile organic compounds were detected in water samples from Wells MW-1, MW-2, and MW-3. None of the compounds were detected at concentrations that exceeded five times the laboratory detection limits (Table 7).

Volatile organic compounds were detected in water samples from Wells MW-1 and MW-3 (Table 8). Chlorobenzene (9 ug/L) and chloroethane (12 ug/L) were detected in the sample from Well MW-1. Only 1,2 dichlorobenzene (3 ug/L) was detected in the sample from Well MW-3.

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8 SUMMARY OF FINDINGS

PNG conducted a Phase II Investigation at the subject site. The investigation included the excavation of five test pits, the installation of six monitoring wells, collection and analysis of selected soil samples, and collection and analysis of groundwater samples from two sampling events.

8.1 UST AT FORMER PENINSULA DIESEL FACILITY

The areas of concern with the UST were the effect of the release from the UST and the former activities of the facility on the soil and groundwater. Assessment of the UST at the former Peninsula Diesel facility included the review of the following:

- Available documents concerning the UST decommissioning in 1997.
- The results of soil and groundwater sampling during the installation of Boring B-1 during the PNG Phase II ESA in December 1998.
- The results of the soil sampling during the installation of Test Pit TP-5.

A gasoline UST was identified at the former Peninsula Diesel facility in July 1997 during a Phase I ESA by a prospective purchaser of the site. A wash pad with a dry well and various containers of hazardous materials were also identified. The location of the UST and the wash pad are shown on Figure 2.

A Phase I ESA Report by Northwest Consultants of Oregon dated September 11, 1997, provides some information concerning the UST decommissioning and other remedial activities at the former Peninsula Diesel facility. In August and September 1997, Enviro-Comp Services, Inc. (Enviro-Comp) decommissioned the UST by excavation and removal. Enviro-Comp also excavated the dry well and a large volume of petroleum contaminated soil (PCS).

Soil samples collected by Enviro-Comp indicate that residual PCS were left in place. An undefined groundwater remediation system was also installed prior to filling the former UST cavity.

The UST release was reported to DEQ and the site was assigned file 26-97-0558.

A document in the DEQ file indicated that a groundwater sample detected benzene at a concentration of 9 ug/L. During the PNG Limited Phase II ESA, Boring B-1 was installed in the area of the decommissioned UST. A water sample from the boring (B1-W) detected gasoline constituents with the concentration of benzene at 28 mg/D.

During the present Phase II Investigation, Test Pit TP-5 was excavated approximately 40 feet downgradient of the UST excavation. The soil consisted of sand, with no field evidence (visual or olfactory) of impact by petroleum products. Petroleum hydrocarbons in the heavy oil range were detected in the soil sample (TP-5-8) at a concentration of 1,440 mg/Kg.

The following assessment of the UST and activities at the former Peninsula Diesel facility are based on the review of the above information.

The information concerning the UST presented in the Northwest Consultants of Oregon Phase I ESA report is not sufficient to completely characterize the effects of the release from the UST or the operation of the dry well on soil or groundwater quality.

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- The UST, dry well, and a large volume of PCS have been removed. The analytical data presented in the Phase I ESA, the PNG Limited Phase II ESA and the PNG Phase II Investigation indicate that the residual impacted soil and groundwater could potentially extend from the UST excavation to the area of Test Pit TP-5.
- The Phase I ESA indicated that containers of hazardous material had been removed from the site. No disposal documentation was presented in the report. A reconnaissance of the area noted that most of the hazardous materials had been removed from the site. Several barrels of waste are stored north of the former Peninsula Diesel building. Based on a conversation with a worker at the current facility operating in the building, these barrels were from a previous tenant. These barrels should be disposed by the present property owner.

In addition, soil cuttings and purge water from the PNG Limited Phase II ESA and Phase II Environmental Investigation remain at the site pending disposal.

8.2 MATERIAL STORAGE AREA

The area of concern in the Material Storage Area was the elevated concentration of chlorinated solvents in water samples from Boring B-3 collected during the PNG Limited Phase II ESA. The assessment of the Material Storage Area included the review of the following:

- The Northwest Consultants of Oregon Phase I ESA.
- The results of soil and groundwater samples collected during the installation of Borings B-2 and B-3 during the PNG Limited Phase II ESA in December 1998.
- The results of the soil samples collected during the installation of Test Pit TP-1 and groundwater samples collected from Wells MW-1, MW-2, MW-3, and MW-4.

During the PNG Limited Phase II ESA, a water sample from Boring B-2 detected petroleum constituents. A water sample from Boring B-3 detected chlorinated solvents, including vinyl chloride at a concentration of 35 ug/L. Elevated concentrations of chlorinated solvents were also detected in water samples from borings installed by others on the adjacent former Arrow Trucking property.

During this investigation, Test Pit TP-1 encountered waste materials including metal, tires, wood, and glass. Water entered the test pit to a depth of approximately eight feet, apparently as perched groundwater. The water displayed a petroleum product sheen. Soil sample TP-1-12, from the test pit, only detected the presence of petroleum hydrocarbons in the gasoline and heavy oil ranges; VOCs were not detected.

Groundwater samples from Wells MW-1, MW-2, MW-3, and MW-4 detected very low levels of petroleum hydrocarbons and petroleum constituents. No chlorinated solvents were detected. The negative results from the groundwater samples, indicate that the previous positive chlorinated solvent detection might have been due to turbid water samples collected from the borings or from contamination introduced during sampling.

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8.3 FORMER POND AREA

The concerns in the Former Pond Area were the potential effect of the residual sludge layer at the base of the Former Pond and the effect of the operations of the adjacent Columbia Steel facility. The assessment of the Former Pond Area included the review of the following:

- Results of soil and groundwater sampling during the installation of Borings B-4,
 B-5, and B-6 during the PNG Limited Phase II ESA in December 1998.
- Results of the soil sampling during the installation of Test Pits TP-2, TP-3 and TP-4 and groundwater samples collected from Wells MW-1, MW-5, and MW-6.

The Former Pond Area was used for the discharge of waste water from washing tanker trucks at the adjacent Matlack facility. Both EPA and DEQ approved the closure of the pond area in 1980, with the dried, residual sludge layer left in place. The pond area has been filled with construction debris.

In addition, treated PCS from UST decommissioning at the adjacent Matlack facility was disposed with DEQ approval in the Former Pond Area. The exact area of the soil disposal has not been identified.

Test Pits TP-2, TP-3, and TP-4 were excavated to assess the fill material and the residual sludge layer.

The fill material encountered in Test Pit TP-2 was primarily concrete construction debris in a silt/sand matrix. The sludge layer was not encountered. Minor staining was noted. The results of the soil sample (TP-2-17) indicated low levels of petroleum products but no petroleum constituents.

The fill material encountered in Test Pit TP-4 included large pieces of concrete construction debris in a silt/sand matrix. The sludge layer was not encountered. No evidence of staining was noted.

The fill material encountered in Test Pit TP-3 included concrete construction debris and wood in a silt/sand matrix. The sludge layer was not encountered. Petroleum product staining and odor was noted. Soil sample TP-3-13 detected the presence of petroleum hydrocarbons and low concentrations of benzene (0.956 mg/Kg).

Evidence of the residual sludge layer was not identified in the excavation of the test pits or in the cuttings from the installations of monitoring wells. The thickness and lateral extent of the residual sludge layer is not known. The residual sludge layer may be located at a depth below the extent of the test pit excavations or may have been removed or re-graded prior to placement of fill material. The impact of the residual sludge layer on subsurface soils and groundwater quality has not been quantified.

A groundwater sample from Well MW-1 detected a low concentration of petroleum constituent and phenolic compounds during both sampling events. Groundwater samples from Wells MW-5 and MW-6 did not detect VOCs or SVOCs at concentrations above the laboratory detection limits.

9 RECOMMENDATIONS

This section presents recommendations to bring the subject site into compliance with DEQ regulations. The proposed actions are based on the following assumptions:

- 1. The site will be developed as an extension of the Columbia Boulevard Waste Water Treatment Plant.
- 2. The depth of excavations will be approximately 25 feet.

9.1 FORMER PENINSULA DIESEL FACILITY

9.1.1 Former UST and Dry Well

The subject site is currently listed as an active site on the DEQ UST Cleanup list. The investigations and remedial activity to date do not appear to be sufficient to acquire DEQ "No Further Action" status.

The gasoline UST, the dry well, and a large volume of soil have been removed. Residual PCS remains in the vicinity of the excavation and petroleum constituents have been detected in groundwater. The characterization of the UST release by Enviro-Comp did not include the following information:

- A map of the excavation area.
- Volume of soil removed.
- Documentation of soil disposal.
- Location of confirmation samples.
- No petroleum constituent analyses were conducted.
- No groundwater data was presented.

Data from the dry well area is also very limited. If petroleum products and constituents are the only contaminants, the dry well area might be included by DEQ with the UST site closure procedure. During the PNG Limited Phase II ESA, Boring B-1 was located in the wash pad area. The results of the water sample (B1-W) did not detect chlorinated solvents.

Based on the limited data available and the proposed use for the area of the site, the UST file could be closed by developing Risk-Based Concentrations as a remedial alternative or the file could be closed as a low impact site. The risk-based or the low impact method would require the collection of additional soil and groundwater data and the analysis of potential receptors.

The work tasks to close the site would include:

- A Geoprobe investigation to properly characterize the area.
- The installation of three monitoring wells and one year of monitoring.
- Preparation of a Corrective Action Plan or Low Impact Site Report.

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9.1.2 Hazardous Material

The Phase I ESA and PNG's site reconnaissance identified waste materials that require special disposal. The Phase I ESA indicated that a drum of hazardous material located by the site building. The PNG Phase II Environmental Investigation also identified several waste drums. If the contents of these drums can not be determined, a characterization of the contents would have to be conducted.

9.2 MATERIALS STORAGE AREA

The Materials Storage Area is not specifically included in the DEQ UST File 26-97-0558 or the DEQ Cleanup Site 186.

The primary concern in the Materials Storage Area is the potential hazardous material and special waste that is stored in this area and the solid waste and contaminated debris that potentially could be excavated during construction activities as described below.

9.2.1 Stored Materials

The materials stored in this area include paint, roofing shingles, an old boiler, an air-conditioning unit, and treated lumber. These materials should be removed by the present owner prior to purchase.

9.2.2 Fill Materials

Test Pit TP-1 contained fill material with numerous tires and PCS. If excavated this material would have to be treated as a special waste. The extent of this impacted fill does not appear to be continuous across the entire Materials Storage Area, but hot spots would probably be encountered during excavation activities.

9.2.3 Groundwater

The results of the groundwater sampling from the monitoring wells in the Materials Storage Area did not confirm the elevated vinyl chloride concentrations detected in groundwater samples from the PNG Limited Phase II ESA. Vinyl chloride was not detected above laboratory detection limits in any of the in any of the six monitoring wells in either sampling event during the Phase II Investigation. The previous elevated vinyl chloride concentrations may have been due to the analysis of sediment in the turbid samples collected from the borings or from contamination introduced during the sampling procedure.

Low level concentrations of petroleum product constituents and phenolic substances were present in Wells MW-1 and MW-3. These concentrations do not exceed the EPA Drinking Water Maximum Concentration Limits (MCL). The results of the groundwater sampling during the Phase II Investigation did not identify evidence of a extensive groundwater contaminant plume on the subject site.

9.3 FORMER POND AREA

The Former Pond Area is part of the DEQ Cleanup Site 186. The Former Ponds had been used for the disposal of rinse water generated at the adjacent tanker washing

facility. The ponds were drained in 1984 and the residual sludge left in place. Both EPA and DEQ approved the pond closure. The ponds have been filled with construction In 1993, DEQ conducted a Preliminary Assessment of the site and recommended further assessment of the pond area. DEQ placed the Arrow Trucking site on the Confirmed Release List in 1997.

9.3.1 Soil and Fill

The soil and fill material in the Former Pond Area was assessed with the installation of Test Pits TP-2, TP-3, and TP-4 and inspection of drill cuttings from Wells MW-1, MW-5, and MW-6. The residual sludge layer was not encountered at the depths excavated in the test pits and was not identified in the drill cuttings.

Soil samples from Test Pits TP-2 and TP-3 detected petroleum products. concentrations detected are consistent with low level PCS. Compounds related to residual sludge layer, i.e. phenols and pentachlorophenol, were not detected in soil samples.

Based on the limited explorations, the fill material appears to be consistent with construction debris and would not require environmental remediation. The sludge layer was not identified in the explorations. If the sludge layer is encountered during construction activities, the material would have to be sampled to determine the status as a hazardous waste and disposed of properly.

9.3.2 Groundwater

The groundwater in the Former Pond Area was assessed with the water samples from Wells MW-1, MW-5, and MW-6. Well MW-1 is located adjacent to the water treatment process area on the adjacent Matlack facility. Wells MW-5 and MW-6 are located in the are of the former ponds.

petroleum product constituents and phenolic compounds (2,4 dimethylphenol and phenol) might indicate low level impact from the adjacent water treatment process area or might be affected by the fill material in the vicinity of the well. The data from the groundwater sampling events do not indicate extensive groundwater impact.

The results from the groundwater sampling events for Wells MW-5 and MW-6 did not detect groundwater impact, other than very low concentrations of petroleum products.

9.4 SUMMARY

The following tasks are required to bring the subject site into compliance with US EPA and DEQ regulations.

Further characterization of the extent of impact from the UST release to complete the closure process.

The disposal of excavated materials as special waste would be based on the volume of special waste generated.

The existing materials stored at the site should be removed by the owner, prior to purchase.

Additional assessment of the Former Pond Area should be completed by the owner or other responsible party.

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10 LIMITATIONS

PNG Environmental, Inc. has prepared this report for use by the City of Portland Bureau of Environmental Services. This report may be made available to future property owners and to regulatory agencies, but this report is not intended for use by others and the information contained herein is not applicable to other sites. Our interpretation of subsurface soil conditions is based on limited, widely-spaced field observations and chemical analytical data. Areas with contamination may exist in portions of the site that were not explored or analyzed.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices and laws, rules, and regulations at the time that the report was prepared. No other conditions, express or implied, should be understood.

PNG ENVRIONMENTAL, INC.

Craig Hultgren
Project Geologist

Gerard Koschal, R.G. Senior Geologist

Table 1 Well Construction Details

Larsen Property Portland, Oregon

							Well Inf	ormation		
VA (- 1)	Carlo Na War		Darahala	D-III	Well Dia.	Well	Screen	Well	Well	Comme
Well Number	Installation Date	Installer	Borehole Depth (ft)	Drill Type	(in)	Materials	Slot (in)	Casing Elevation ¹	Casing Length (ft)	Screen Length (ft)
MW-1	05/18/99	Geotech	25	10 in HSA	2	PVC	0.020	96.62	16.1	10
MW-2	05/18/99	Geotech	22	10 in HSA	2	PVC	0.020	88.08	18.4	10
MW-3	05/18/99	Geotech	18	10 in HSA	2	PVC	0.020	94.47	8.7	10
MW-4	05/24/99	Geotech	22	6-in Air Rotary	2	PVC	0.020	94.01	8.5	10
MW-5	05/24/99	Geotech	30	6-in Air Rotary	2	PVC	0.020	94.18	17.2	15
MW-6	05/24/99	Geotech	25	6-in Air Rotary	2	PVC	0.020	98.38	17.5	10

Notes:

ft = Feet

in = Inches

Table 2 Groundwater Elevation Data

Larson Property Portland, Oregon

Well Identification (toc)	Date Gauged	Depth to Water (ft)	Groundwater Elevation (ft)
MW-1	05/26/99	18.03	78.59
(96.62)	07/28/99	17.98	78.64
MW-2	05/26/99	20.15	67.93
(88.88)	07/28/99	20.81	67.27
MW-3	05/26/99	10.43	84.04
(94.47)	07/28/99	11.42	83.05
MW-4	05/26/99	19.65	74.36
(94.01)	07/28/99	20.83	73.18
MW-5	05/26/99	20.23	73.95
(94.18)	07/28/99	22.92	71.26
MW-6	05/26/99	17.54	80.84
(98.38)	07/28/99	17.05	81.33

Notes:

toc = Top of casing

ft = Feet

Elevations referenced to an arbitrary datum assumed to be 100 ft.

Table 3 Soil Analytical Results

Total Petroleum Hydrocarbons

Larsen Property Portland, Oregon

Sample	Depth	Date	NWTPH-Gx	NWT	PH-DX	
Identification	(Feet)	Sampled	(mg/Kg)	Diesel (mg/Kg)	Heavy Oi (mg/Kg)	
TP-1-12	12	05/18/99	1,470	0.25 U	116	
TP-3-13	13	05/18/99	4.77	250 U	1,000	
TP-2-17	17	05/18/99	3.63	125 U	423	
TP-5-8	8	05/18/99	2.50 U	125 U	1,440	

Notes:

 - = Not analyzed for this parameter mg/Kg = Milligrams per kilograms
 U = Not detected at method reporting limit NWTPH-Gx by Sub NWTPH-Gx
 Heavy Oil by Sub NWTPH-Gx
 NWTPH-Dx by Sub NWTPH-Dx

Table 4 Soil Analytical Results Semi-Volatile Organic Compounds

Larsen Property Portland, Oregon

Parameters	Phase II ESA	Phase II Investigation					
	B2-12	TP-1-12	TP-2-17	TP-5-8	TP-3-13		
	(12 ft)	(12 ft)	(17 ft)	(8 ft)	(13 ft)		
	12/17/99	05/18/99	05/18/99	05/18/99	05/18/99		
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)		
	EPA 3550A/8270C	EPA 8270B	EPA 8270B	EPA 8270B	EPA 8270B		
1,2-Dichlorobenzene	0.3 U	2 U	10 U	10 U	20 U		
1,2,4-Trichlorobenzene	0.3 U	1 U	5 U	5 U	10 U		
1,3-Dichlorobenzene	0.3 U	2 U	10 U	10 U	20 U		
1,4-Dichlorobenzene	0.3 U	2 U	10 U	10 U	20 U		
2,4,5-Trichlorophenol	0.3 U	2 U	10 U	10 U	20 U		
2,4,6-Trichlorophenol	0.3 U	1 U	5 U	5 U	10 U		
2,4-Dichlorophenol	0.3 U	1 U	5 U	5 U	10 U		
2,4-Dimethylphenol	0.3 U	1 U	5 U	5 U	10 U		
2,4-Dinitrophenol	2 U	2 U	10 U	10 U	20 U		
2,4-Dinitrotoluene	0.3 U	4 U	20 U	20 U	40 U		
2,6-Dinitrotoluene	0.3 U	1 U	5 U	5 U	10 U		
2-Chloronaphthalene	0.3 U	1 U	5 U	5 U	10 U		
2-Chlorophenol	0.3 U	1 U	5 U	5 U	10 U		
2-Methyl-4,6-dinitrophenol	2 U	1 U	5 U	5 U	10 U		
2-Methylnaphthalene	0.3 U	1 U	5 U	5 U	10 U		
2-Methylphenol	0.3 U	1 U	5 U	5 U	10 U		
2-Nitroaniline	2 U		-	-	10.0		
2-Nitrophenol	0.3 U	1 U	5 U	5 U	10 U		
3- and 4-Methylphenol Coelution	0.3 U	2 U					
3,3'-Dichlorobenzidine	2 U	2 U	10 U	10 U	20 U		
3-Nitroaniline	2 U	20	10 0	10.0	20 0		
4,6-Dinitro-2-2methylphenol		2 U	10 U	10 U	20 U		
4-Bromophenyl Phenyl Ether	0.3 U	1 U	5 U	5 U	10 U		
4-Chloro-3-methylphenol	0.3 U	1 U	5 U	5 U	10 U		
4-Chloroaniline	0.3 U	4 U	20 U	20 U	40 U		
4-Chlorophenyl Phenyl Ether	0.3 U	1 U	5 U	5 U	10 U		
4-Nitroaniline	2 U	2 U	10 U	10 U	20 U		
4-Nitrophenol	2 U	2 U	10 U	10 U	20 U		
Acenaphthene	0.3 U	1 U	5 U	5 U	10 U		
Acenaphthylene	0.3 U	1 U	5 U	5 U	10 U		
Aniline	1 U	1.0	3.0	30	10.0		
Anthracene	0.3 U	10 U	50 U	50 U	100 U		
Benzidine	0.5 0	2 U	10 U	10 U	20 U		
Benz(a)anthracene	0.3 U	-1U -	5 U	5 U	10 U		
Benzo(a)pyrene	0.3 U	1 U	5 U	5 U	10 U		
Benzo(b)fluoranthene	0.3 U	10	5 U	5 U	10 U		
Benzo(g,h,i)perylene	0.3 U	1 U		5 U			
Benzo(g,n,i)peryiene Benzo(k)fluoranthene	0.3 U	1 U	5 U	5 U	10 U		
			5 U		10 U 10 U		
Butyl Benzyl Phthalate Benzoic Acid	0.3 U	1 U	5 U	5 U			
	2 U	1 U	5 U	5 U	10 U		
Benzyl Alcohol Bis(2-chloroethoxy)methane	0.3 U	1 U	5 U	5 U	10 U		
Dia(Z-Chiloroethoxy)methane	0.3 U	1 U	5 U	5 U	10 U		

Table 4 Soil Analytical Results Semi-Volatile Organic Compounds

Larsen Property Portland, Oregon

Parameters	Phase II ESA	Phase II Investigation				
	B2-12	TP-1-12	TP-2-17	TP-5-8	TP-3-13	
	(12 ft)	(12 ft)	(17 ft)	(8 ft)	(13 ft)	
	12/17/99	05/18/99	05/18/99	05/18/99	05/18/99	
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
	EPA 3550A/8270C	EPA 8270B	EPA 8270B	EPA 8270B	EPA 8270B	
Bis(2-chloroethyl) Ether	0.3 U	1 U	5 U	5 U	10 U	
Bis(2-chloroisopropyl) Ether	0.3 U	1 U	5 U	5 U	10 U	
Bis(2-ethylhexyl) Phthalate	0.3 U	1 U	5 U	5 U	10 U	
Chrysene	0.3 U	1 U	5 U	5 U	10 U	
Di-n-butyl Phthalate	0.3 U	2 U	10 U	10 U	20 U	
Di-n-octyl Phthalate	0.3 U	1 U	5 U	5 U	10 U	
Dibenz(a,h)anthracene	0.3 U	1 U	5 U	5 U	10 U	
Dibenzofuran	0.3 U	1 U	5 U	5 U	10 U	
Diethyl Phthalate	0.3 U	1 U	5 U	5 U	10 U	
Dimethyl Phthalate	0.3 U	1 U	5 U	5 U	10 U	
Fluoranthene	0.6	1 U	5 U	5 U	10 U	
Fluorene	0.3 U	1 U	5 U	5 U	10 U	
Hexachlorobenzene	0.3 U	1 U	5 U	5 U	10 U	
Hexachlorobutadiene	0.3 U	2 U	10 U	10 U	20 U	
Hexachlorocyclopentadiene	0.3 U	2 U	10 U	10 U	20 U	
Hexachloroethane	0.3 U	2 U	10 U	10 U	20 U	
Indeno(1,2,3-cd)pyrene	0.3 U	1 U	5 U	5 U	10 U	
Isophorone	0.3 U	1 U	5 U	5 U	10 U	
N-Nitrosodimethylamine	2 U	1 U	5 U	5 U	10 U	
N-Nitrosodi-n-propylamine	0.3 U	1 U	5 U	5 U	10 U	
N-Nitrosodiphenylamine	0.3 U	1 U	5 U	5 U	10 U	
Naphthalene	0.3 U	1 U	5 U	5 U	10 U	
Nitrobenzene	0.3 U	1.0	5 U	5 U	10 U	
Pentachlorophenol (PCP)	2 U	2 U	10 U	10 U	20 U	
Phenanthrene	0.3 U	1 U	5 U	5 U	10 U	
Phenol	0.3 U	1 U	5 U	5 U	10 U	
Pyrene	0.4	1 U	5 U	5 U	10 U	

Notes:

- = Not analyzed for this parameter
 U = not detected at method reporting limit shown
 mg/Kg = Micrograms per liter

Table 5 Soil Analytical Results Volatile Organic Compounds

Larsen Property Portland, Oregon

Parameters	Phase	II ESA	Phase II Investigation			
	B1-17	B-2-12	TP-1-12	TP-2-17	TP-5-8	TP-2-13
	(17 ft)	(12 ft)	(12 ft)	(17 ft)	(8 ft)	(13 ft)
	12/17/98	12/17/98	05/18/99	05/18/99	05/18/99	05/18/99
	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
	EPA 8260	EPA 8260	EPA 8240	EPA 8240	EPA 8240	EPA 8240
1,1,1-Trichloroethane (TCA)	5 U	5 U	200 U	200 U	200 U	200 U
1,1,2,2-Tetrachloroethane	5 U	5 U	200 U	200 U	200 U	200 U
1,1,2-Trichloroethane	5 U	5 U	200 U	200 U	200 U	200 U
1,1-Dichloroethane	5 U	5 U	200 U	200 U	200 U	200 U
1,1-Dichloroethene	5 U	5 U	200 U	200 U	200 U	200 U
1,1-Dichloropropene	5 U	5 U	200 U	200 U	200 U	200 U
1,2,3-Trichlorobenzene	20 U	20 U	200 U	200 U	200 U	200 U
1,2,3-Trichloropropane	5 U	5 U	200 U	200 U	200 U	200 U
1,2,4-Trichlorobenzene	20 U	20 U	200 U	200 U	200 U	200 U
1,2,4-Trimethylbenzene	20 U	20 U	200 U	200 U	200 U	200 U
1,2-Dibromo-3-chloropropane (DBCP)	20 U	20 U	200 U	200 U	200 U	200 U
1,2-Dibromoethane (EDB)	20 U	20 U	200 U	200 U	200 U	200 U
1,2-Dichlorobenzene	5 U	5 U	200 U	200 U	200 U	200 U
1,2-Dichloroethane	5 U	5 U	200 U	200 U	200 U	200 U
1,2-Dichloropropane	5 U	5 U	200 U	200 U	200 U	200 U
1,3,5-Trimethylbenzene	20 U	20 U	200 U	200 U	200 U	200 U
1,3-Dichlorobenzene	5 U	5 U	200 U	200 U	200 U	200 U
1,3-Dichloropropene total	-		200 U	200 U	200 U	200 U
1,3-Dichloropropane	5 U	5 U	200 U	200 U	200 U	200 U
1,4-Dichlorobenzene	5 U	5 U	200 U	200 U	200 U	200 U
2,2-Dichloropropane	5 U	5 U	200 U	200 U	200 U	200 U
2-Butanone (MEK)	20 U	20 U	200 U	200 U	200 U	200 U
2-Chlorotoluene	20 U	20 U	200 U	200 U	200 U	200 U
2-Hexanone	20 U	20 U	200 U	200 U	200 U	200 U
4-Chlorotoluene	20 U	20 U	200 U	200 U	200 U	200 U
4-Isopropyltoluene	20 U	20 U	200 U	200 U	200 U	200 U
4-Methyl-2-pentanone (MIBK)	20 U	20 U	200 U	200 U	200 U	200 U
Acetone	160	50U	200 U	200 U	200 U	200 U
Acrolein	-	2	200 U	200 U	200 U	200 U
Acrylonitrile	2.7	-	200 U	200 U	200 U	200 U
Benzene	5 U	5 U	5000 U	5000 U	5000 U	956
Bromobenzene	5 U	5 U	200 U	200 U	200 U	200 U
Bromochloromethane	5 U	5 U	200 U	200 U	200 U	200 U
Bromodichloromethane	5 U	5 U	200 U	200 U	200 U	200 U
Bromoform	5 U	5 U	5000 U	5000 U	5000 U	5000 U
Bromomethane	5 U	5 U	500 U	500 U	500 U	500 U
Carbon Disulfide	5 U	5 U		140		
Carbon Tetrachloride	5 U	5 U	200 U	200 U	200 U	200 U
Chlorobenzene	5 U	5 U	200 U	200 U	200 U	200 U
Chloroethane	5 U	5 U	1000 U	1000 U	1000 U	1000 U

Table 5 Soil Analytical Results Volatile Organic Compounds

Larsen Property Portland, Oregon

Parameters	Phase	II ESA		Phase II In	vestigation		
	B1-17	B-2-12	TP-1-12	TP-2-17	TP-5-8	TP-2-13	
	(17 ft)	(12 ft)	(12 ft)	(17 ft)	(8 ft)	(13 ft)	
	12/17/98	12/17/98	05/18/99	05/18/99	05/18/99	05/18/99	
	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	
	EPA 8260	EPA 8260	EPA 8240	EPA 8240	EPA 8240	EPA 8240	
Chloroform	5 U	5 U	200 U	200 U	200 U	200 U	
Chloromethane	5 U	5 U	200 U	200 U	200 U	200 U	
cis-1,2-Dichloroethene	5 U	5 U	2.		-		
cis-1,3-Dichloropropene	5 U	5 U	(-	-	4		
Dibromochloromethane	5 U	5 U	400 U	400 U	400 U	400 U	
Dichlorobromomethane	1 1 2		200 U	200 U	200 U	200 U	
Dibromomethane	5 U	5 U	500 U	500 U	500 U	500 U	
Dichlorodifluoromethane	5 U	5 U	200 U	200 U	200 U	200 U	
Ethylbenzene	5 U	5 U	200 U	200 U	200 U	200 U	
Hexachlorobutadiene	20 U	20 U	-				
Isopropylbenzene	20 U	20 U	bed.	-	200		
m.p-Xylenes	5 U	5 U	-		-		
Methylene Chloride	10 U	10 U	120	-	Đ.	4.	
Naphthalene	20 U	68		-	2	-	
n-Butylbenzene	20 U	20 U	5-1		-		
n-Propylbenzene	20 U	20 U		-	£		
-Xylene	5 U	5 U	140		-	-	
sec-Butylbenzene	20 U	20 U	2		1	2	
Styrene	5 U	5 U	5-0	-		-	
tert-Butylbenzene	20 U	20 U			-		
Tetrachloroethene (PCE)	5 U	5 U	500 U	500 U	500 U	500 U	
Toluene	5 U	5 U	200 U	200 U	200 U	200 U	
trans-1,2-Dichloroethene	5 U	5 U	200 U	200 U	200 U	200 U	
trans-1,3-Dichloropropene	5 U	5 U		2.2		100	
Trichloroethene (TCE)	5 U	5 U	200 U	200 U	200 U	200 U	
Trichlorofluoromethane	5 U	5 U	200 U	200 U	200 U	200 U	
Vinyl Chloride	5 U	5 U	200 U	200 U	200 U	200 U	

Notes:

U = not detected at method reporting limit shown

November 12, 1999

^{- =} Not analyzed for this parameter

Table 6 Groundwater Analytical Results Total Petroleum Hydrocarbons

Larsen Property Portland, Oregon

Sample	Date	NWTPH-Gx	NWTF	PH-DX
Identification	Sampled	(mg/L)	Diesel (mg/L)	Heavy Oil (mg/L)
MW-1	05/26/99	0.244	0.600 U	1.20 U
	07/28/99	0.125	1.84	1.02
MW-2	05/26/99	0.109	0.600 U	2.13
	07/28/99	0.123	0.599	0.500 U
MW-3	05/26/99	0.091	0.600 U	1.20 U
	07/28/99	0.234	0.656	0.538
MW-4	05/26/99	0.080 U	0.600 U	1.20 U
	07/28/99	0.080 U	0.693	0.651
MW-5	05/26/99	0.310	0.650 U	1.30 U
	07/28/99	0.080 U	0.764	0.656
W-7 (MW-5 Dup)	07/28/99	0.080 U	0.580	0.528
MW-6	05/26/99	0.080 U	0.700 U	1.40 U

Notes:

- = Not analyzed for this parameter mg/L = Milligrams per liter U = Not detected at method reporting limit NWTPH-Gx by Sub NWTPH-Gx Heavy Oil by Sub NWTPH-Gx NWTPH-Dx by Sub NWTPH-Dx

Larsen Property Portland, Oregon

Parameters	Phase II ESA					
	B1-W 12/17/1998 EPA 8520B/8270C	B2-W 12/17/1998 EPA 8520B/8270C	B3-W 12/17/1998 EPA 8520B/82700			
	(ug/L)	(ug/L)	(ug/L)			
1,2,4-Trichlorobenzene	10 U	10 U	10 U			
1,2-Dichlorobenzene	10 U	10 U	10 U			
1,3-Dichlorobenzene	10 U	10 U	10 U			
1,4-Dichlorobenzene	10 U	10 U	10 U			
2,4,5-Trichlorophenol	10 U	10 U	10 U			
2,4,6-Trichlorophenol	10 U	10 U	10 U			
2,4-Dichlorophenol	10 U	10 U	10 U			
2,4-Dimethylphenol	10 U	10 U	10 U			
2,4-Dinitrophenol	25 U	25 U	25 U			
2,4-Dinitrotoluene	10 U	10 U	10 U			
2,6-Dinitrotoluene	10 U	10 U	10 U			
2-Chloronaphthalene	10 U	10 U	10 U			
2-Chlorophenol	10 U	10 U	10 U			
2-Methyl-4,6-dinitrophenol	25 U	25 U	25 U			
2-Methylnaphthalene	10 U	24	10 U			
2-Methylphenol	10 U	10 U	10 U			
2-Nitroaniline	25 U	25 U	25 U			
2-Nitrophenol	10 U	10 U	10 U			
3- and 4-Methylphenol Coelution	10 U	10 U	10 U			
3,3'-Dichlorobenzidine	25 U	25 U	25 U			
3-Nitroaniline	25 U	25 U	25 U			
4-Bromophenyl Phenyl Ether	10 U	10 U	10 U			
4-Chloro-3-methylphenol	10 U	10 U	10 U			
4-Chloroaniline	10 U	10 U	10 U			
4-Chlorophenyl Phenyl Ether	10 U	10 U	10 U			
4-Nitroaniline	25 U	25 U	25 U			
4-Nitrophenol	25 U	25 U	25 U			
Acenaphthene	10 U	37	10 U			
Acenaphthylene	10 U	10 U	10 U			
Aniline	25 U	25 U	25 U			
Anthracene	10 U	21	10 U			
Azobenzene	10 0		10.5			
Benzidine		2	1.2			
Benz(a)anthracene	10 U	23	10 U			
Benzo(a)pyrene	10 U	26	10 U			
Benzo(b)fluoranthene	10 U	21	10 U			
Benzo(g,h,i)perylene	10 U	15	10 U			
Benzo(k)fluoranthene	10 U	19	10 U			
Butyl Benzyl Phthalate	10 U	10 U	10 U			
Benzoic Acid	25 U	25 U	25 U			
	10 U	10 U	10 U			
Benzyl Alcohol	10 U	10 U	10 U			
Bis(2-chloroethoxy)methane	10 U	10 U	10 U			
Bis(2-chloroethyl) Ether Bis(2-chloroisopropyl) Ether	10 U	10 U	10 U			

Larsen Property Portland, Oregon

Parameters		Phase II ESA	
	B1-W 12/17/1998 EPA 8520B/8270C	B2-W 12/17/1998 EPA 8520B/8270C	B3-W 12/17/1998 EPA 8520B/8270C
	(ug/L)	(ug/L)	(ug/L)
Bis(2-ethylhexyl) Phthalate	10 U	10 U	10 U
Chrysene	10 U	26	10 U
Di-n-butyl Phthalate	10 U	10 U	10 U
Di-n-octyl Phthalate	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U
Dibenzofuran	10 U	18	25 U
Diethyl Phthalate	10 U	10 U	10 U
Dimethyl Phthalate	10 U	10 U	10 U
Fluoranthene	10 U	59	10 U
Fluorene	10 U	30	10 U
Hexachlorobenzene	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U -
Hexachloroethane	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	16	10 U
Isophorone	10 U	10 U	10 U
N-Nitrosodimethylamine	25 U	25 U	25 U
N-Nitrosodi-n-propylamine	10 U	10 U	10 U
N-Nitrosodiphenylamine	10 U	10 U	10 U
Naphthalene	10 U	85	10 U
Nitrobenzene	10 U	10 U	10 U
Pentachlorophenol (PCP)	25 U	25 U	25 U
Phenanthrene	10 U	64	10 U
Phenol	10 U	10 U	10 U
Pyrene	10 U	41	10 U

Notes:

U = Not detected at method reporting limit shown

ug/L = Micrograms per liter

^{- =} Not analyzed for this parameter

Larsen Property Portland, Oregon

Parameters	Phase II Investigation						
	MW-1 05/26/99 EPA 625 (ug/L)	MW-1 07/28/99 EPA 625 (ug/L)	MW-2 05/26/99 EPA 625 (ug/L)	MW-2 07/28/99 EPA 625 (ug/L)	MW-3 05/26/99 EPA 625 (ug/L)	MW-3 07/28/99 EPA 625 (ug/L)	
4.0.4.T.:							
1,2,4-Trichlorobenzene	5 U	5 U	5 U	5 U		5 U	
1,2-Dichlorobenzene	5 U	5 U	5 U	5 U	20 14		
1,3-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	
2,4,5-Trichlorophenol	40.11	40.11	40.11	40.11	40.11		
2,4,6-Trichlorophenol	10 U						
2,4-Dichlorophenol	10 U						
2,4-Dimethylphenol) SLV SW FIG	50 47	20	10 U	10 U	110	10 U	
2,4-Dinitrophenol	20 U						
2,4-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	
2,6-Dinitrotoluene	5 U	5 U	5 U	5 U	5 U	5 U	
2-Chloronaphthalene	5 U	5 U	5 U	5 U	5 U	5 U	
2-Chlorophenol	10 U						
2-Methyl-4,6-dinitrophenol	10 U						
2-Methylnaphthalene	•						
2-Methylphenol	•		•	-	-		
2-Nitroaniline	20.15	20.12		40.11	48.51	46.11	
2-Nitrophenol	10 U						
3- and 4-Methylphenol Coelution			- 11	-11	-11	- 11	
3,3'-Dichlorobenzidine	5 U	5 U	5 U	5 U	5 U	5 U	
3-Nitroaniline		- 11	-11	£.,		844	
4-Bromophenyl Phenyl Ether	5 U	5 U	5 U	5 U	5 U	5 U	
4-Chloro-3-methylphenol	10 U						
4-Chloroaniline		511	6.00	200	640	6.0	
4-Chlorophenyl Phenyl Ether	5 U	5 U	5 U	5 U	5 U	5 U	
4-Nitroaniline	00.11	00.11	20.11	20.11	20.11	20.11	
4-Nitrophenol	20 U						
Acenaphthene	5 U	5 U	10	10	5 U	5 U	
Acenaphthylene	5 U	5 U	5 U	5 U	5 U	5 U	
Aniline	F11	F11	611	£11	40	5 U	
Anthracene	5 U	5 U	5 U	5 U	10	5 U	
Azobenzene	5 U	5 U 10 U	5 U	5 U 10 U	5 U 10 U	10 U	
Benzidine	10 U 5 U	5 U	10 U	5 U	5 U	5 U	
Benz(a)anthracene			5 U			5 U	
Benzo(a)pyrene	5 U 5 U	5 U -		5 U 5 U	5 U	5 U	
Benzo(b)fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	
Benzo(g,h,i)perylene		5 U			5 U	5 U	
Benzo(k)fluoranthene	5 U	5 U	5 U	5 U			
Butyl Benzyl Phthalate	20 U						
Benzoic Acid			•	-		2	
Benzyl Alcohol		-	511		F.11		
Bis(2-chloroethoxy)methane	5 U	5 U	5 U	5 U	5 U	5 U	
Bis(2-chloroethyl) Ether	5 U	5 U	5 U	5 U	5 U 5 U	5 U 5 U	
Bis(2-chloroisopropyl) Ether	5 U	5 U	5 U	5.0	5.0	3.0	

Larsen Property Portland, Oregon

Parameters	Phase II Investigation						
	MW-1 05/26/99 EPA 625 (ug/L)	MW-1 07/28/99 EPA 625 (ug/L)	MW-2 05/26/99 EPA 625 (ug/L)	MW-2 07/28/99 EPA 625 (ug/L)	MW-3 05/26/99 EPA 625 (ug/L)	MW-3 07/28/99 EPA 625 (ug/L)	
Bis(2-ethylhexyl) Phthalate	10 U	10 U	10 U	10 U	50	10 U	
Chrysene	5 U	5 U	5 U	5 U	5 U	5 U	
Di-n-butyl Phthalate	20 U	20 U	20 U	20 U	10	20 U	
Di-n-octyl Phthalate	10 U						
Dibenz(a,h)anthracene	5 U	5 U	5 U	5 U	5 U	5 U	
Dibenzofuran	4	-			-	-	
Diethyl Phthalate	5 U	5 U	5 U	5 U	5 U	5 U	
Dimethyl Phthalate	-	-	-	10-11	3		
Fluoranthene	5 U	5 U	5 U	5 U	5 U	5 U	
Fluorene	5 U	5 U	5 U	10	5 U	5 U	
Hexachlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	
Hexachlorobutadiene	5 U	5 U	5 U	5 U	5 U	5 U	
Hexachlorocyclopentadiene	5 U	5 U	5 U	5 U	5 U	5 U	
Hexachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	
Indeno(1,2,3-cd)pyrene	5 U	5 U	5 U	5 U	5 U	5 U	
Isophorone	5 U	5 U	5 U	5 U	5 U	5 U	
N-Nitrosodimethylamine	5 U	5 U	5 U	5 U	5 U	5 U	
N-Nitrosodi-n-propylamine	5 U	5 U	5 U	5 U	5 U	5 U	
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U	5 U	5 U	
Naphthalene	5 U	5 U	5 U	5 U	5 U	5 U	
Nitrobenzene	5 U	5 U	5 U	5 U	5 U	5 U	
Pentachlorophenol (PCP)	10 U						
Phenanthrene	5 U	5 U	5 U	5 U	10	5 U	
Phenol SW NO	30	10 U					
Pyrene	5 U	5 U	5 U	5 U	5 U	5 U	

Notes:

U = Not detected at method report

- = Not analyzed for this paramete

ug/L = Micrograms per liter

Larsen Property Portland, Oregon

Parameters	Phase II Investigation						
	MW-4 05/26/99 EPA 625 (ug/L)	MW-4 07/28/99 EPA 625 (ug/L)	MW-5 05/26/99 EPA 625 (ug/L)	MW-5 07/28/99 EPA 625 (ug/L)	MW-6 05/26/99 EPA 625 (ug/L)	MW-6 07/28/99 EPA 625 (ug/L)	
1,2,4-Trichlorobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
1,2-Dichlorobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
1,3-Dichlorobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
1,4-Dichlorobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
2,4,5-Trichlorophenol	÷.	-	-	2			
2,4,6-Trichlorophenol	20 U	10 U	36 U	10 U	20 U	20 U	
2,4-Dichlorophenol	20 U	10 U	36 U	10 U	20 U	20 U	
2,4-Dimethylphenol	20 U	10 U	36 U	10 U	20 U	20 U	
2,4-Dinitrophenol	40 U	20 U	73 U	20 U	40 U	40 U	
2,4-Dinitrotoluene	10 U	5 U	18 U	5 U	10 U	10 U	
2,6-Dinitrotoluene	10 U	5 U	18 U	5 U	10 U	10 U	
2-Chloronaphthalene	10 U	5 U	18 U	5 U	10 U	10 U	
2-Chlorophenol	20 U	10 U	36 U	10 U	20 U	20 U	
2-Methyl-4,6-dinitrophenol	20 U	10 U	36 U	10 U	20 U	20 U	
2-Methylnaphthalene	-	-		-	9-1		
2-Methylphenol	-1	1-0	-	4		101	
2-Nitroaniline	-	C-	7,5		1.9	4-	
2-Nitrophenol	20 U	10 U	36 U	10 U	20 U	20 U	
3- and 4-Methylphenol Coelution	E 5.76		•	28.	-	14.0	
3,3'-Dichlorobenzidine	10 U	5 U	18 U	5 U	10 U	10 U	
3-Nitroaniline	4	<u> </u>	-	-	P	6.0	
4-Bromophenyl Phenyl Ether	10 U	5 U	18 U	5 U	10 U	10 U	
4-Chloro-3-methylphenol	20 U	10 U	36 U	10 U	20 U	20 U	
4-Chloroaniline	2.5	-	4	4	-	-	
4-Chlorophenyl Phenyl Ether	10 U	5 U	18 U	5 U	10 U	10 U	
4-Nitroaniline	-	4.80	V. 65***		2	-	
4-Nitrophenol	40 U	20 U	73 U	20 U	40 U	40 U	
Acenaphthene	10 U	5 U	18 U	5 U	10 U	10 U	
Acenaphthylene	10 U	5 U	18 U	5 U	10 U	10 U	
Aniline	10 U	•	4		10 U	10 U	
Anthracene	10 U	5 U	18 U	5 U	10 U	10 U	
Azobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
Benzidine	20 U	10 U	36 U	10 U	20 U	20 U	
Benz(a)anthracene	10 U	5 U	18 U	5 U	10 U	10 U	
Benzo(a)pyrene	10 U	5 U -	18 ⊍	5 U	10 U	10 U	
Benzo(b)fluoranthene	10 U	5 U	18 U	5 U	10 U	10 U	
Benzo(g,h,i)perylene	10 U	5 U -	18 U	5 U	10 U	10 U	
Benzo(k)fluoranthene	10 U	5 U	18 U	5 U	10 U	10 U	
Butyl Benzyl Phthalate	40 U	20 U	73 U	20 U	40 U	40 U	
Benzoic Acid			-			-	
Benzyl Alcohol		2	7.		100	0.5	
Bis(2-chloroethoxy)methane	10 U	5 U	18 U	5 U	10 U	10 U	
Bis(2-chloroethyl) Ether	10 U	5 U	18 U	5 U	10 U	10 U	
Bis(2-chloroisopropyl) Ether	10 U	5 U	18 U	5 U	10 U	10 U	

Larsen Property Portland, Oregon

Parameters	Phase II Investigation						
	MW-4 05/26/99 EPA 625 (ug/L)	MW-4 07/28/99 EPA 625 (ug/L)	MW-5 05/26/99	MW-5	MW-6 05/26/99 EPA 625 (ug/L)	MW-6 07/28/99 EPA 625 (ug/L)	
				07/28/99			
				EPA 625			
				(ug/L)			
Bis(2-ethylhexyl) Phthalate	20 U	10 U	36 U	10 U	20 U	20 U	
Chrysene	10 U	5 U	18 U	5 U	10 U	10 U	
Di-n-butyl Phthalate	40 U	20 U	73 U	20 U	40 U	40 U	
Di-n-octyl Phthalate	20 U	10 U	36 U	10 U	20 U	20 U	
Dibenz(a,h)anthracene	10 U	5 U	18 U	5 U	10 U	10 U	
Dibenzofuran	72	-	-	144	-	-	
Diethyl Phthalate	10 U	5 U	18 U	5 U	10 U	10 U	
Dimethyl Phthalate			-	-	-		
Fluoranthene	10 U	5 U	18 U	5 U	10 U	10 U	
Fluorene	10 U	5 U	18 U	5 U	10 U	10 U	
Hexachlorobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
Hexachlorobutadiene	10 U	5 U	18 U	5 U	10 U	10 U	
Hexachlorocyclopentadiene	10 U	5 U	18 U	5 U	10 U	10 U	
Hexachloroethane	10 U	5 U	18 U	5 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene	10 U	5 U	18 U	5 U	10 U	10 U	
Isophorone	10 U	5 U	18 U	5 U	10 U	10 U	
N-Nitrosodimethylamine	10 U	5 U	18 U	5 U	10 U	10 U	
N-Nitrosodi-n-propylamine	10 U	5 U	18 U	5 U	10 U	10 U	
N-Nitrosodiphenylamine	10 U	5 U	18 U	5 U	10 U	10 U	
Naphthalene	10 U	5 U	18 U < L	5 U	10 U	10 U	
Nitrobenzene	10 U	5 U	18 U	5 U	10 U	10 U	
Pentachlorophenol (PCP)	20 U	10 U	36 U 5	10 U	20 U	20 U	
Phenanthrene	10 U	5 U	18 U	5 U	10 U	10 U	
Phenol	20 U	10 U	36 U	10 U	20 U	20 U	
Pyrene	10 U	5 U	18 U	5 U	10 U	10 U	

Notes:

U = Not detected at method report
- = Not analyzed for this paramete
ug/L = Micrograms per liter

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Table 7 Groundwater Analytical Results Semi-Volatile Organic Compounds Larsen Property Portland, Oregon

Parameters	Phase II Investigation			
	W-7 (MW-5 Dup) 07/28/99 EPA 625 (ug/L)	Trip Blank 07/28/99 EPA 625 (ug/L)		
1 2 4 Trichlorohanzana	10 U	5 U		
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	10 U	5 U		
1,3-Dichlorobenzene	10 U	5 U		
1,4-Dichlorobenzene	10 U	5 U		
2,4,5-Trichlorophenol	100	-		
2,4,6-Trichlorophenol	20 U	10 U		
2,4-Dichlorophenol	20 U	10 U		
and the contract of the contra	20 U	10 U		
2,4-Dimethylphenol	40 U	20 U		
2,4-Dinitrophenol	10 U	5 U		
2,4-Dinitrotoluene 2,6-Dinitrotoluene	10 U	5 U		
2,6-Dinitrotoluene 2-Chloronaphthalene	10 U	5 U		
	20 U	10 U		
2-Chlorophenol 2-Methyl-4,6-dinitrophenol	20 U	10 U		
2-Methylnaphthalene	20 0	10 0		
		100		
2-Methylphenol 2-Nitroaniline	-			
	20 U	10 U		
2-Nitrophenol	200	100		
3- and 4-Methylphenol Coelution	10 U	5 U		
3,3'-Dichlorobenzidine	10 0	30		
3-Nitroaniline	10 U	5 U		
4-Bromophenyl Phenyl Ether	20 U	10 U		
4-Chloro-3-methylphenol 4-Chloroaniline	20 0	10.0		
	10 U	5 U		
4-Chlorophenyl Phenyl Ether	100	3.0		
4-Nitroaniline	40 U	20 U		
4-Nitrophenol	10 U	5 U		
Acenaphthene	10 U	5 U		
Acenaphthylene	10 U	3.0		
Aniline	10 U	5 U		
Anthracene	10 U	5 U		
Azobenzene Benzidine	20 U	10 U		
	10 U	5 U		
Benz(a)anthracene	- 10 U-	5 U		
Benzo(a)pyrene	10 U	5 U		
Benzo(b)fluoranthene	10 U	5 U		
Benzo(g,h,i)perylene	10 U	5 U		
Benzo(k)fluoranthene		20 U		
Butyl Benzyl Phthalate	40 U	20 0		
Benzoic Acid				
Benzyl Alcohol	10 U	5 U		
Bis(2-chloroethoxy)methane	10 U	5 U		
Bis(2-chloroethyl) Ether	10 U	5 U		

Larsen Property Portland, Oregon

Parameters	Phase II Investigation			
	W-7 (MW-5 Dup) 07/28/99 EPA 625 (ug/L)	Trip Blank 07/28/99 EPA 625 (ug/L)		
Bis(2-ethylhexyl) Phthalate	20 U	10 U		
Chrysene	10 U	5 U		
Di-n-butyl Phthalate	40 U	20 U		
Di-n-octyl Phthalate	20 U	10 U		
Dibenz(a,h)anthracene	10 U	5 U		
Dibenzofuran	2	4		
Diethyl Phthalate	10 U	5 U		
Dimethyl Phthalate				
Fluoranthene	10 U	5 U		
Fluorene	10 U	5 U		
Hexachlorobenzene	10 U	5 U		
Hexachlorobutadiene	10 U	5 U		
Hexachlorocyclopentadiene	10 U	5 U		
Hexachloroethane	10 U	5 U		
Indeno(1,2,3-cd)pyrene	10 U	5 U		
Isophorone	10 U	5 U		
N-Nitrosodimethylamine	10 U	5 U		
N-Nitrosodi-n-propylamine	10 U	5 U		
N-Nitrosodiphenylamine	10 U	5 U		
Naphthalene	10 U	5 U		
Nitrobenzene	10 U	5 U		
Pentachlorophenol (PCP)	20 U	10 U		
Phenanthrene	10 U	5 U		
Phenol	20 U	10 U		
Pyrene	10 U	5 U		

Notes:

U = Not detected at method report

- = Not analyzed for this paramete

ug/L = Micrograms per liter

Larsen Property Portland, Oregon

Parameters		Phase II ESA		Phase II Investigation	
	B1-W	B2-W	B3-W	MW-1	MW-1
	12/17/1998	12/17/1998	12/17/1998	05/26/99	07/28/99
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	EPA 8230B	EPA 8230B	EPA 8230B	EPA 624	EPA 624
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	5 U	5 U
1,1,1-Trichloroethane (TCA)	0.5 U	0.5 U	0.5 U	3 U	3 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	3 U	3 U
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	3 U	3 U
1,1-Dichloroethane	0.5 U	0.9	0.5 U	2 U	2 U
1,1-Dichloroethene	0.5 U	0.5 U	0.9	3 U	3 U
1,1-Dichloropropene	0.5 U	0.5 U	0.5 U	3 U	3 U
,2-Dibromo-3-chloropropane (DBCP)	2 U	2 U	2 U	-	100
1,2-Dibromoethane (EDB)	2 U	2 U	2 U	1.5	-
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	5 U	5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	3 U	3 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	3 U	3 U
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	2 U	2 U
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	2 U	2 U
1,2,3-Trichlorobenzene	2 U	2 U	2 U	1000	1
,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	-	X.11
,2,4-Trichlorobenzene	2 U	2 U	2 U	G.	4.0
,2,4-Trimethylbenzene	2 U	2 U	2 U	4	-
1,3,5-Trimethylbenzene	2 U	2 U	2 U	1.4	-
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	2 U	2 U
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	-	-
2-Butanone (MEK)	20 U	20 U	20 U	102	2
2-Chlorotoluene	2 U	2 U	2 U		2.1
2-Hexanone	20 U	20 U	20 U	-	
4-Chlorotoluene	2 U	2 U	2 U		2.0
4-Isopropyltoluene	2 U	2 U	2 U	4	1
4-Methyl-2-pentanone (MIBK)	20 U	20 U	20 U	-	_
Acetone	20 U	20 U	20 U	100	
2-Chloroethylvinyl ether			4	50 U	50 U
Acrolein	-	20	.21	100 U	100 U
Acrylonitrile	1=0	-		50 U	50 U
Benzene	28	0.5 U	0.9	-1	1 U
Bromobenzene	0.5 U	0.5 U	0.5 U	-	-7
Bromochloromethane	0.5 U	0.5 U	0.5 U	-	-
Bromodichloromethane	0.5 U	0.5 U	0.5 U	3 U	3 U
Bromoform	0.5 U	0.5 U	0.5 U	3 U	3 U
Bromomethane	0.5 U	0.5 U	0.5 U	10 U	10 U
Carbon Disulfide	1.7	0.8	0.5 U		5/2
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	3 U	3 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	19	9
Chloroethane	0.5 U	0.5 U	0.5 U	9	12
Chloroform	0.5 U	0.5 U	0.5 U	1 U	1 U
Chloromethane	0.5 U	0.5 U	0.5 U	10 U	10 U

Larsen Property Portland, Oregon

Parameters		Phase II ESA		Phase II I	nvestigation
	B1-W 12/17/1998 (ug/L) EPA 8230B	B2-W 12/17/1998 (ug/L) EPA 8230B	B3-W 12/17/1998 (ug/L) EPA 8230B	MW-1 05/26/99 (ug/L) EPA 624	MW-1 07/28/99 (ug/L) EPA 624
cis-1,2-Dichloroethene	0.5 U	1.0	58		
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	4 U	4 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	5 U	5 U
Dibromomethane	0.5 U	0.5 U	0.5 U	11.0	-
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	(a)	
Ethylbenzene	6.7	0.5 U	0.5 U	5	3 U
Methylene Chloride	1 U	1 U	1 U	4 U	4 U
Tetrachloroethene (PCE)	0.5 U	0.5 U	0.5 U	2 U	2 U
Toluene	2.4	0.5 U	0.5 U	1 U	1 U
trans-1,2-Dichloroethene	0.5 U	0.5 U	1.8	2 U	2 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	3 U	3 U
Trichloroethene (TCE)	0.5 U	0.5 U	5.5	4 U	4 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	4 U	4 U
Vinyl Chloride	0.5 U	0.5 U	35	50 U	50 U
Hexachlorobutadiene	2 U	2 U	2 U	2.0	-
Isopropylbenzene	2 U	2 U	2 U		-
m,p-Xylenes	1.0	0.5	0.5 U		-
Naphthalene	2 U	100	2 U	4	2
n-Butylbenzene	2 U	2 U	2 U		(2)
n-Propylbenzene	2 U	2 U	2 U	-	-
o-Xylene	0.9	0.5 U	0.5 U	-	-
sec-Butylbenzene	2 U	2 U	2 U	7	
Styrene	0.5 U	0.5 U	0.5 U	-	
tert-Butylbenzene	2 U	2 U	2 U	5	~

Notes:

^{- =} Not analyzed for this parameter

U = Not detected at method reporting limit shown

ug/L = Micrograms per liter

Larsen Property Portland, Oregon

Parameters	Phase II Investigation						
	MW-2 05/26/99 (ug/L) EPA 624	MW-2 07/28/99 (ug/L) EPA 624	MW-3 05/26/99 (ug/L) EPA 624	MW-3 07/28/99 (ug/L) EPA 624	MW-4 05/26/99 (ug/L) EPA 624	MW-4 07/28/99 (ug/L) EPA 624	
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	
1,1,1-Trichloroethane (TCA)	3 U	3 U	3 U	3 U	3 U	3 U	
1,1,2,2-Tetrachloroethane	3 U	3 U	3 U	3 U	3 U	3 U	
1,1,2-Trichloroethane	3 U	3 U	3 U	3 U	3 U	3 U	
1,1-Dichloroethane	2 U	2 U	2 U	2 U	2 U	2 U	
1,1-Dichloroethene	3 U	3 U	3 U	3 U	3 U	3 U	
1,1-Dichloropropene	3 U	3 U	3 U	3 U	3 U	3 U	
1,2-Dibromo-3-chloropropane (DBCP)	141	74	-			14	
1,2-Dibromoethane (EDB)		4.	-		100	9	
1,2-Dichlorobenzene	5 U	5 U	12	3	5 U	5 U	
1,2-Dichloroethane	3 U	3 U	3 U	3 U	3 U	3 U	
1,2-Dichloropropane	3 U	3 U	3 U	3 U	3 U	3 U	
1,3-Dichlorobenzene	2 U	2 U	2 U	2 U	2 U	2 U	
1,3-Dichloropropane	2 U	2 U	2 U	2 U	2 U	2 U	
1,2,3-Trichlorobenzene	_		-		4.0	-	
1,2,3-Trichloropropane	0.		2	2		-	
1,2,4-Trichlorobenzene			1.		-2.		
1,2,4-Trimethylbenzene	0.1		2.0	140			
1,3,5-Trimethylbenzene	(2)				2		
1,4-Dichlorobenzene	2 U	2 U	2 U	2 U	2 U	2 U	
2,2-Dichloropropane	20	20	20	20	-	-	
2-Butanone (MEK)	20		3	2		1	
2-Chlorotoluene	2				2.0		
2-Hexanone	3		£.	0.0	2	2	
4-Chlorotoluene	20	1	34				
	5/	- 57	5.		1		
4-Isopropyltoluene	-	-	5				
4-Methyl-2-pentanone (MIBK)	34					- 1	
Acetone	50 U						
2-Chloroethylvinyl ether	100 U						
Acrolein	50 U						
Acrylonitrile					1 U	1 U	
Benzene	1 U	1 U	1 U	1 U	10	10	
Bromobenzene	3	7	5	97	•	-	
Bromochloromethane	211	0.11	0.11	2.11	211	2.11	
Bromodichloromethane	3 U	3 U -	3 U	3 U	3 U	3 U	
Bromoform	3 U	3 U	3 U	3 U	3 U	3 U	
Bromomethane	10 U						
Carbon Disulfide	33.	150		~	a	0.11	
Carbon Tetrachloride	3 U	3 U	3 U	3 U	3 U	3 U	
Chlorobenzene	1 U	1 U	3	1 U	1 U	1 U	
Chloroethane	50 U						
Chloroform	1 U	1 U	1 U	1 U	1 U	1 U	
Chloromethane	10 U						

Larsen Property Portland, Oregon

Parameters		Phase II Investigation						
	MW-2 05/26/99 (ug/L) EPA 624	MW-2 07/28/99 (ug/L) EPA 624	MW-3 05/26/99 (ug/L) EPA 624	MW-3 07/28/99 (ug/L) EPA 624	MW-4 05/26/99 (ug/L) EPA 624	MW-4 07/28/99 (ug/L) EPA 624		
cis-1,2-Dichloroethene	1.2	+5	-			W.		
cis-1,3-Dichloropropene	4 U	4 U	4 U	4 U	4 U	4 U		
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U		
Dibromomethane		4	-	64	-	17.		
Dichlorodifluoromethane	- A	-	-		-	2,		
Ethylbenzene	3 U	3 U	3 U	3 U	3 U	3 U		
Methylene Chloride	4 U	4 U	4 U	4 U	4 U	4 U		
Tetrachloroethene (PCE)	2 U	2 U	2 U	2 U	2 U	2 U		
Toluene	1 U	1 U	1 U	1 U	1 U	1 U		
trans-1,2-Dichloroethene	2 U	2 U	2 U	2 U	2 U	2 U		
trans-1,3-Dichloropropene	3 U	3 U	3 U	3 U	3 U	3 U		
Trichloroethene (TCE)	4 U	4 U	4 U	4 U	4 U	4 U		
Trichlorofluoromethane	4 U	4 U	4 U	4 U	4 U	4 U		
Vinyl Chloride	50 U							
Hexachlorobutadiene	-	-	-		-	-		
Isopropylbenzene	Ψ.	4.9	*	-	9	8		
m,p-Xylenes		œ.	•		-			
Naphthalene	(·	40	20	-	÷0.1			
n-Butylbenzene	4	140	4.1	(-	- 271	~		
n-Propylbenzene	4	÷	÷	145	-	+		
o-Xylene	-		1.0	1.0	65			
sec-Butylbenzene		-		1=1	-	1		
Styrene tert-Butylbenzene		2	Ť	-	2	8		

Notes:

- = Not analyzed for this parameter

U = Not detected at method reporting li

ug/L = Micrograms per liter

Larsen Property Portland, Oregon

13	1	100	0
10	18.00	(C.)	10
-01	P		-
0.7	WA		

Parameters	Phase If Investigation						
	MW-5 05/26/99 (ug/L)	MW-5 07/28/99 (ug/L)	MW-6 05/26/99 (ug/L)	MW-6 07/28/99 (ug/L)	W-7 (MW5 Dup 07/28/99 (ug/L)		
	EPA 624						
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U		
1,1,1-Trichloroethane (TCA)	3 U	3 U	3 U	3 U	3 U		
1,1,2,2-Tetrachloroethane	3 U	3 U	3 U	3 U	3 U		
1,1,2-Trichloroethane	3 U	3 U	3 U	3 U	3 U		
1,1-Dichloroethane	2 U	2 U	2 U	2 U	2 U		
1,1-Dichloroethene	3 U	3 U	3 U	3 U	3 U		
1,1-Dichloropropene	3 U	3 U	3 U	3 U	3 U		
1,2-Dibromo-3-chloropropane (DBCP)		3.5		-			
1,2-Dibromoethane (EDB)	-	2					
1,2-Discondentane (EDB)	5 U	5 U	5 U	5 U	5 U		
1,2-Dichlorobenzene 1,2-Dichloroethane	3 U	3 U	3 U	3 U	3 U		
	3 U	3 U	3 U	3 U	3 U		
1,2-Dichloropropane	2 U	2 U	2 U	2 U	2 U		
1,3-Dichlorobenzene					2 U		
1,3-Dichloropropane	2 U	2 U	2 U	2 U	20		
1,2,3-Trichlorobenzene	-		10	-			
1,2,3-Trichloropropane	7		-	5.0	100		
1,2,4-Trichlorobenzene		•	1000	7			
1,2,4-Trimethylbenzene		•	•				
1,3,5-Trimethylbenzene	2.1	23.			2		
1,4-Dichlorobenzene	2 U	2 U	2 U	2 U	2 U		
2,2-Dichloropropane	-		-	4.5	-		
2-Butanone (MEK)	7	11,20	~		7		
2-Chlorotoluene	-		-	-	~		
2-Hexanone			1.00	-	7		
4-Chlorotoluene	•	-	•	< - ≥	-		
4-Isopropyltoluene	-	2	17-20	-4-			
4-Methyl-2-pentanone (MIBK)	-	-			•		
Acetone		1.00			*		
2-Chloroethylvinyl ether	50 U						
2-Chloroethylvinyl ether Acrolein	100 U						
Acrylonitrile	50 U						
Benzene 30 ug/4	1 U	10	1 U	1 U	1 U		
Bromobenzene	25.0	1	2021	44	-		
Bromochloromethane	-	- /	U91-	2	-		
Bromodichloromethane	3 U	3 U	- 3U	3 U	3 U		
Bromoform	3 U	3 U	3 U	3 U	3 U		
Bromomethane	10 U						
Carbon Disulfide		75.7	-		0.723		
Carbon Tetrachloride	3 U	3 U	3 U	3 U	3 U		
Chlorobenzene	1 U	1 U	1 U	1 U	1 U		
Chloroethane	50 U						
	1 U		1 U	1 U	1 U		
Chloroform Chloromethane	1 U 10 U						

- wethor

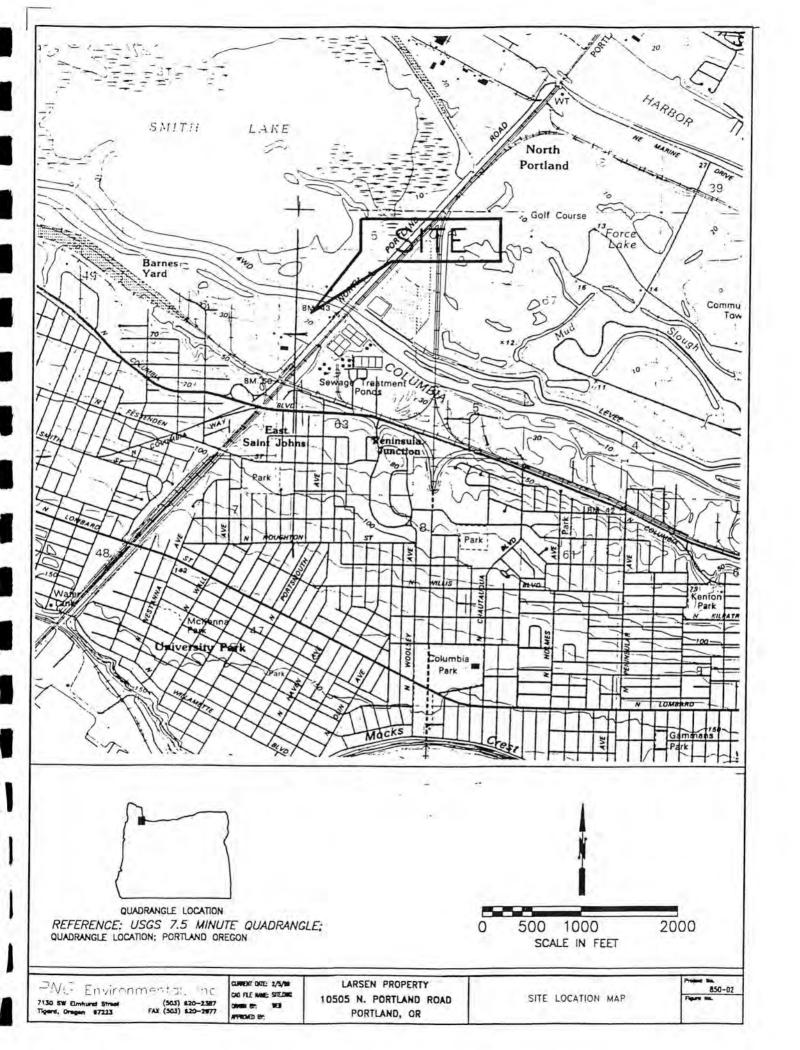
Larsen Property Portland, Oregon

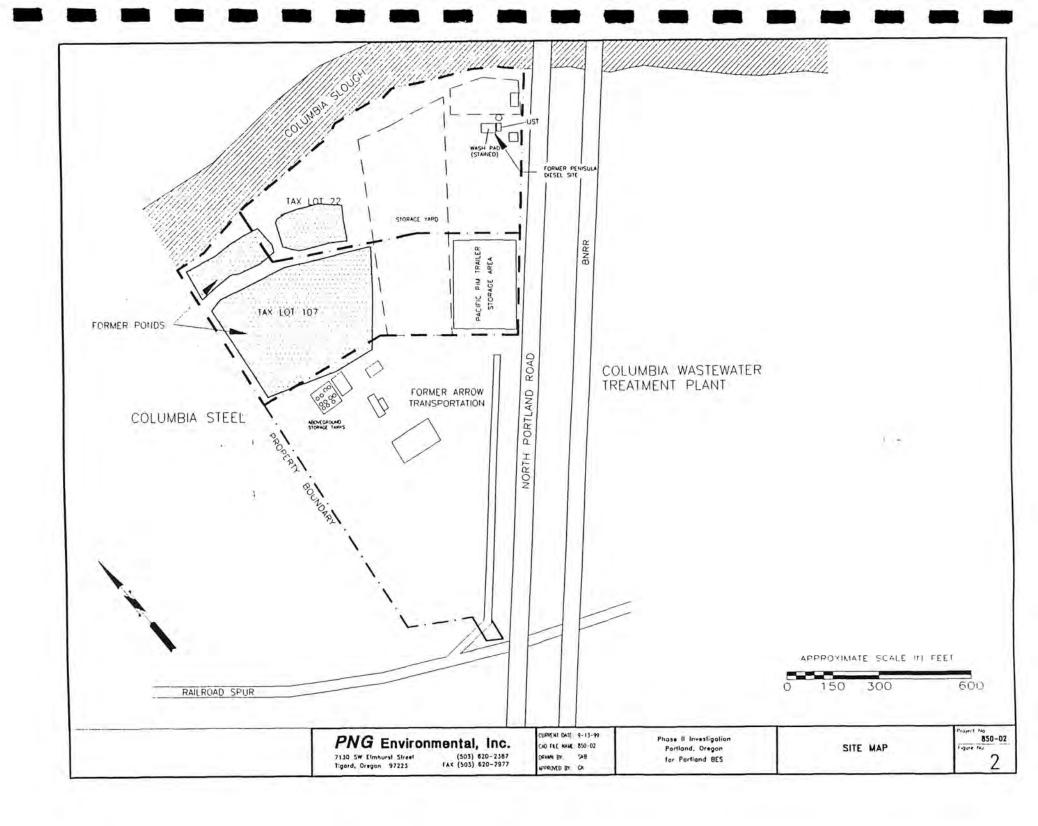
Parameters		Pl	hase II Invest	igation	
	MW-5	MW-5	MW-6	MW-6	W-7 (MW5 Dup)
	05/26/99	07/28/99	05/26/99	07/28/99	07/28/99
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	EPA 624	EPA 624	EPA 624	EPA 624	EPA 624
cis-1,2-Dichloroethene	- 2	120	4	-	1,4
cis-1,3-Dichloropropene	4 U	4 U	4 U	4 U	4 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U
Dibromomethane	-	49	-	-	9
Dichlorodifluoromethane	1. 2	-	1.747	-	1.3
Ethylbenzene	3 U	3 U	3 U	3 U	3 U
Methylene Chloride	4 U	4 U	4 U	4 U	4 U
Tetrachloroethene (PCE)	2 U	2 U	2 U	2 U	2 U
Toluene	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	2 U	2 U	2 U	2 U	2 U
trans-1,3-Dichloropropene	3 U	3 U	3 U	3 U	3 U
Trichloroethene (TCE)	4 U	4 U	4 U	4 U	4 U
Trichlorofluoromethane	4 U	4 U	4 U	4 U	4 U
Vinyl Chloride	50 U	50 U	50 U	50 U	50 U
Hexachlorobutadiene	100		1 taker	- 1	~
Isopropylbenzene	-	16.00	ring -	-	1/2/1
m,p-Xylenes	-	T. Now	1 7-	-	1.040.1
Naphthalene	-	- Avr		-	~
n-Butylbenzene	-	- 2	.0 -	3.1	
n-Propylbenzene	÷ T	- 0		1 (-	
o-Xylene	-	-	-		
sec-Butylbenzene	-	-	4	20	
Styrene	1=0	1 -	1.5	-	10
tert-Butylbenzene		~	- 4	A.	

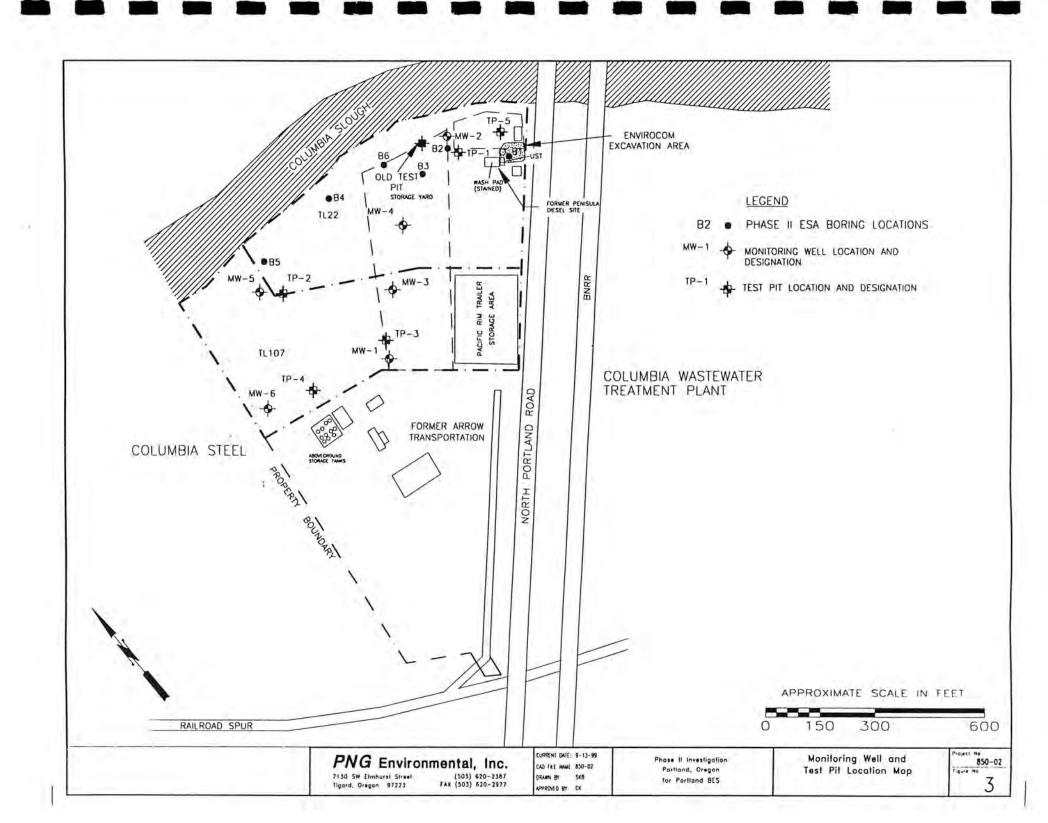
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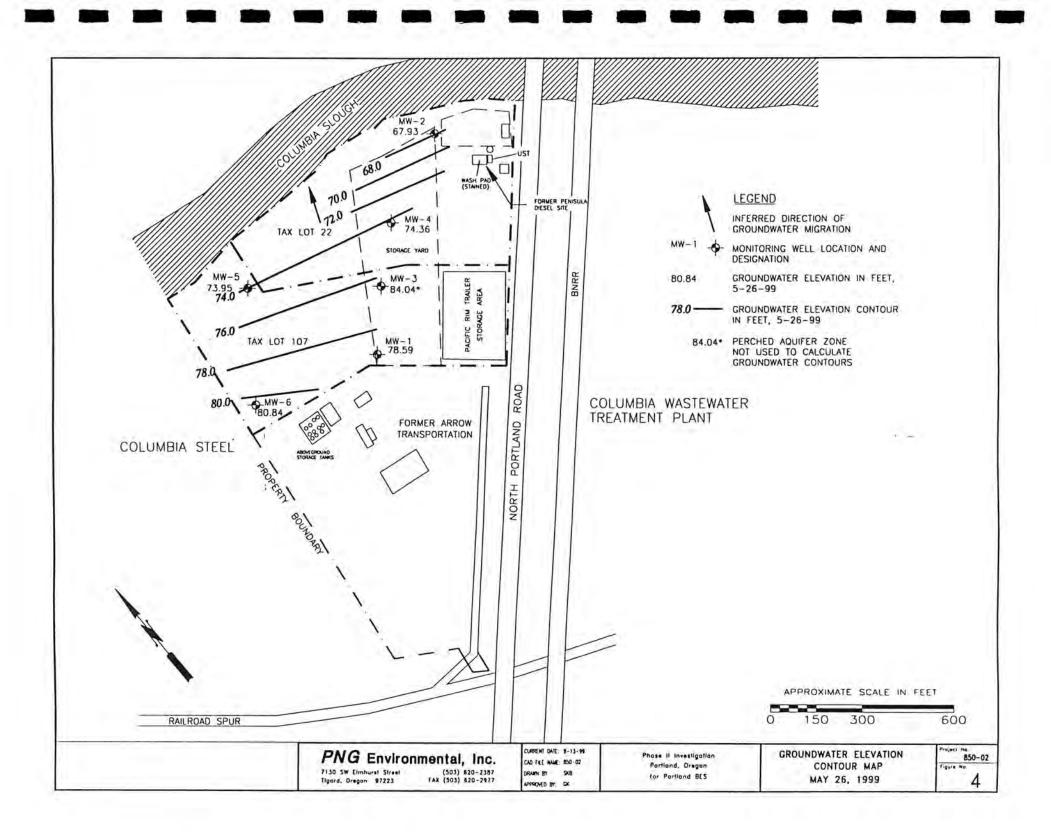
- = Not analyzed for this parameter
 U = Not detected at method reporting li
 ug/L = Micrograms per liter

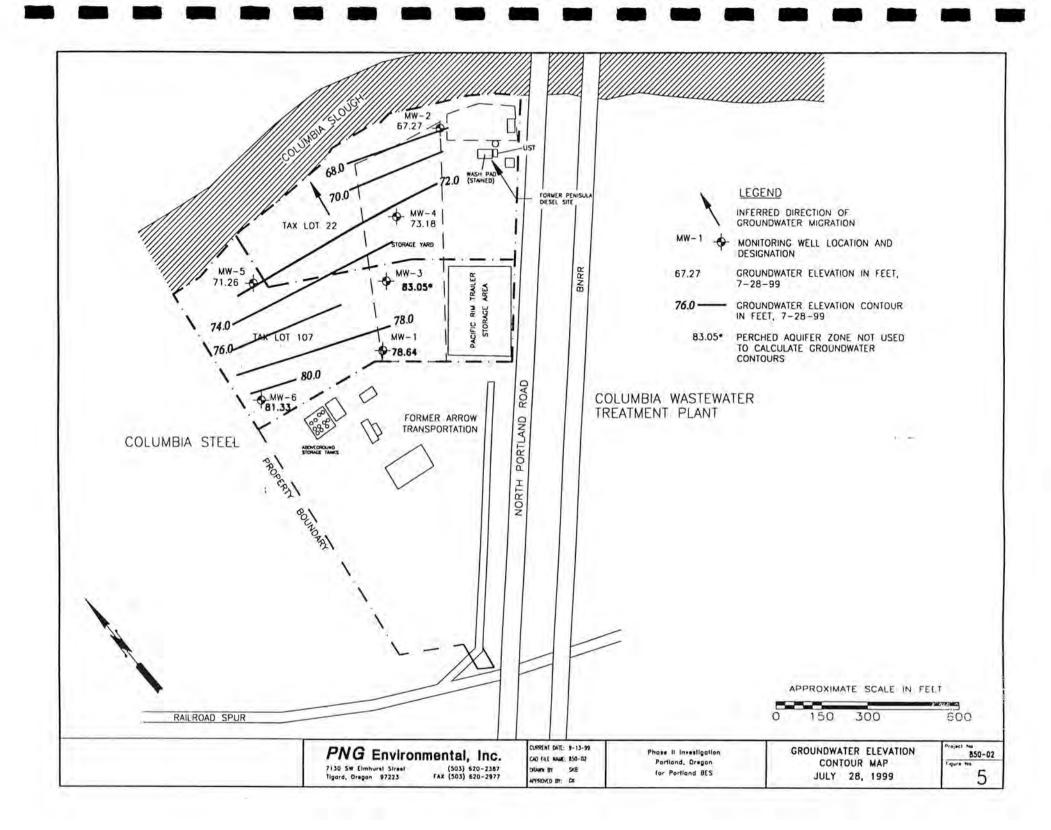
MILLS











APPENDIX A LABORATORY ANALYTICAL REPORTS





Collected By:

Sample ID LAB990109 System ID AD04025 Sample Date/Time 5/18/99 9:10 Page: 5/21/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN/TEST PIT 1 Address/Location: Sample Type: GRAB SPECIAL WASTE Proj Subcategory: SOIL. Sample Matrix: Sample Point Code: TP-1-17 CH/GK/PNG

Comments:

IMS File/Invoice #:

3030,000

Test Parameter	Result	Units	MRL ,	Method
		**		
NWTPH-Dx	<25.0	mg/Kg	25.0	NWTPH-Dx
DIESEL RANGE HYDROCARBONS		mg/Kg	50.0	NWTPH-Dx
HEAVY OIL RANGE HYDROCARBONS	1.3.10	: :: -: inavisa:	90,0	· Sept eligential of the
NWTPH-Gx GASOLINE RANGE HYDROCARBONS	1470	mg/Kg	125	NWTPH-Gx
	1470	mgreg	120	***************************************
SEMI-VOLATILE ORGANICS	<2.00	mg/Kg	2.00	EPA 8270B
1.2 Diphenylhydrazine	<1.00	mg/Kg	1.00	EPA 8270B
1,2,4-Trichlorobenzene	<2.00	mg/Kg	2,00	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	- <2.00	mg/Kg	2.00	EPA 8270B
1.4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	<1.00	mg/Kg	==1.00	EPA-8270B
2,4,6-trichlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dichlorophenol	4.00		2.00	EPA 8270B
2,4-Dimethylphenol	< 4.00	mg/Kg mg/Kg	4.00	EPA 8270B
2,4-Dinitrophenol		mg/Kg	1.00	EPA 8270B
2,4 Dinitrotoluene	<1.00	rmg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2-Chloronaphthalene	<1.00	mg/Kg	1.00	EF'A 8270B
2-Chlorophenol	<1.00 <1.00	mg/Kg	1.00	 — G1 1.0122232
2-Methylnaphthalene		mg/Kg	1.00	EF'A 8270B
2-Nitrophenol	<1.00	mg/Kg	2.00	EF A 8270B
3,3 Dichlorobenzidine	<2.00	mg/Kg	2.00	EF'A 8270B
4,6-Dinitro-2-methylphenol	<2.00	1 h 1 h 1 h 1 h 1 h 1 h 1 h 1 h 1 h 1 h	1.00	EF A 8270B
4-Bromophenylphenyl ether	<1.00	mg/Kg	1.00	EF'A 8270B
4-Chloro-3-methylphenol	<1.00	mg/Kg	4.00	EF'A 8270B
4-Chloroaniline	<4.00	mg/Kg	1.00	EF'A 8270B
4-Chlorophenylphenyl ether	<1.00	mg/Kg	2.00	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	1.00	EF'A 8270B
Acenaphthene	<1.00	mg/Kg	1.00	
Аселарhthylene	<1.00	mg/Kg	1.00	EPA 8270B

0543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5556





City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/99 9:10 System ID AD04025	Sample ID	LAB990109
	in a many companies and the property of the second of the	Page:	2
Proi /Company Name:	SPECIAL WASTE MISC SAMP	Date Received:	5/21/99
Address/Location:	LARSEN/TEST PIT 1	Sample Status:	REPORT QUEUE
Proj Subcategory:	SPECIAL WASTE	Sample Type:	GRAB
Sample Point Code:	TP-1-17	Sample Matrix:	SOIL
IMS File/Invoice #:	3030,000	Collected By:	CH/C;K/PNG

Test Parameter	Result	Units	MRL	Method
Anthracene	<10.0	mg/Kg	10.0	EPA 8270B
Benzidine	<2.00	mg/Kg	2.00	EPA 8270B
Benzo(a)anthracene	<1.00	mg/Kg	1.00	EPA 8270B
Benzo(a)pyrene	·-<1.00	mg/Kg	1.00	EPA 8270B
Benzo(b)fluoranthene	<1.00	mg/Kg	1.00	EPA 8270B
Benzo(g.h.i)perylene	<1.00	mg/Kg	1.00	EPA 8270B
Benzo(k)fluoranthene	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Bis(2-chloroethoxy) methane	<1.00	mg/Kg	1.00	EPA 8270B
Bis(2-chloroethyl) ether	<1.00	mg/Kg	1:00	EPA 8270B -
Bis(2-chloroisopropyl) ether	<1.00	mg/Kg	1.00	EPA 8270B .
Bis(2-ethylhexyl) phthalate	<4:00	mg/Kg	4.00	EPA 8270B
Chrysene	<1.00	mg/Kg	1.00	EPA 8270B
Den-butyl phthalafe	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Dibenzo(a,h)anthracene	<1.00	mg/Kg	1.00	EPA 8270B
Dibenzofuran	<1.00	mg/Kg	1.00	EPA 8270B
Diethyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Dimethyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
- Fluoranthene	<1.00	mg/Kg	1.00	EPA 8270B
Fluorene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA-8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EF'A 8270B
Indeno(1,2,3,cd)pyrene	<1.00	mg/Kg	1.00	EPA 8270B
Isophorone	<1.00	mg/Kg	1.00	EFA 8270B
N-Nitrosodi-n-propylamine	<1.00	mg/Kg	1:00	EF A 827.0B
N-Nitrosodimethylamine	<1.00	mg/Kg	1.00	EPA 8270B
N-Nitrosodimenylamine	<1:00	mg/Kg	1.00	EPA 8270B
Naphthalene	<1.00	mg/Kg	1.00	EF'A 8270B
Nitrobenzene	<1.00	mg/Kg	1.00	EPA 8270B
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6543 N. Burlington Ave. / Portland O.: 97203 (503) 823-5600 fax (503) 823-5656

Report Date: 6/28/99

(20) 4 24 44





CH/GK/PNG

Sample Date/Time	5/18/99 9:10 System ID AD0402	5 Sample ID	LAB990109
Letting more recorded and account to the second	منظ هراه ها است المستركية وها إن محمد الحمد (1 م 10 م 10 م 10 أم الم 10 م مستقد مها المستقد المهام المستقد الم	Page:	3
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: LARSEN/TEST PIT 1		Date Received: Sample Status:	5/21/99 REPORT QUEUE
Proj Subcategory: Sample Point Code:	SPECIAL WASTE TP-1-17	Sample Type: Sample Matrix:	GRAB SOIL

Collected By:

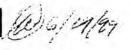
Comments:

IMS File/Invoice #:

3030.000

Test Parameter	Result	Units	MRL	Method
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	<1.00	mg/Kg	1.00	EPA 8270B
Phenol	<1.00	mg/Kg	1.00	EPA 8270B
Pyrene Estato Estato Estato	<1.00	mg/Kg	1.00	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1-Trichloroethane	<200	µg/Kg	200	EPA 8240
1,1,2,2-Tetrachloroethane	<200	µg/Kg	200	EPA 8240
1,1,2-Trichloroethane	<200	μg/Kg	200	EPA 8240
1,1-Dichloroethanes	200	ug/Kg	200	EPA 8240
1,1-Dichloroethene	<200	µg/Kg	200	EPA 8240
1,2-Dichloroethane	<200	µg/Kg	200	EPA 8240
1,2-Dichloropropane	<200	µд/Кд	200	EPA 8240
1;3-Dichloropropene, total	<200	μg/Kg -	200	EPA-8240
2-Chloroethylvinyl ether	<5000	µg/Kg	5000	EPA 8240
Acrolein-	<5000	µg/Кg	5000	EPA 8240
Acrylonitrile	<500	μg/Kg	500	EPA 8240
Benzene	<200	µg/Kg	200	EPA 8240
Bromoform	<200	µg/Kg	200	EFA 8240
Bromomethane:	<1000	'µg/Kg	1000	EPA 8240
Carbon tetrachloride	<200	µg/Kg	200	EPA 8240
Chlorobenzene	<200	µg/Kg	200	EPA 8240:
Chloroethane	<400 _	µg/Kg	400	EF'A 8240
Chloroform	<200	µg/Kg	200	EFA 8240
Chloromethane	<500	µg/Kg	500	EFA 8240
Dibromochloromethane:	<200	μg/Kg	200	EPA 8240
Dichlorobromomethane	<200	μg/Kg	200	EPA 8240
Ethylbenzene	<200	μg/Kg	200	EPA-8240
Methylene chloride	<500	µg/Kg	500	EF'A 8240
Tetrachloroethene	<200:	µg/Kg	200	EF'A 8240
Toluene	<200	μg/Kg	200	Ef'A 8240
trans-1;2-Dichloroethene	<200	µg/Kg	200	EPA 8240
Trichloroethene	<200	µg/Kg	200	EF'A 8240

5543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-556





City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/99 9:10	System ID	AD04025	Sample ID	LAB990109
والماسية بالمنطق والمرابعة والمرابعة والمنطقة وا			ر همه (مدينه من	Page:	4
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: LARSEN/TEST PIT 1		Date Received: Sample Status:	5/21/99 REPORT QUEUE		
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WAS TP-1-17 3030.000	STE		Sample Type: Sample Matrix: Collected By:	GRAB SOIL CH/GK/PNG

Test Parameter	Result	Units	MRL	Method
Viny) chloride	<200	µд/Кд	<u> </u>	EPA 8240

End of Report for Sample ID: LAB990109

(20) 4/21/97



City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/99 10:30 System ID AD04026	Sample ID	LAB990110
processors and branching becomes a section of	والمواقعة في المواقعة في المواقعة والمواقعة وا	Page:	1
Proj./Company Name: SPECIAL WASTE MISC SAMP		Date Received:	5/21/99
Address/Location: LARSEN TEST PIT 2		Sample Status:	REPORT QUEUE
Proj Subcategory:	SPECIAL WASTE	Sample Type:	GRAB
Sample Point Code:	TP-2-17	Sample Matrix:	SOII.
IMS File/Invoice #:	3030.000	Collected By:	CH/GK/PNG

Test Parameter	Result	Units	MRL	Method
1 4 20 - 24 2040 21 8				
NWTPH-Dx		15.85	5.02	ANA COLL DAY
DIESEL RANGE HYDROCARBONS	<125	mg/Kg	125	NWTPH-Dx
HEAVY OIL RANGE HYDROCARBONS	423:	mg/Kg	250	NWTPH-Dx
NWTPH-Gx	3.63	mg/Kg	2.50	NWTPH-Gx
GASOLINE RANGE HYDROCARBONS	3.03	mgrivg	2.00	
SEMI-VOLATILE ORGANICS		mg/Kg	10.0	EPA 8270B
1.2 Diphenylhydrazine	<10.0		5.00	EPA 8270B
1,2,4-Trichlorobenzene	<5.00	mg/Kg	10.0	EPA 8270B
1.2-Dichlorobenzene	≤10.0	mg/Kg		EPA 8270B
1,3-Dichlorobenzene	<10.0	mg/Kg	10.0 10.0	EPA 8270B
-1.4-Dichlorobenzene	≤10.0	mg/Kg	4	EPA 8270B
2,4,5-Trichlorophenol	<5.00	mg/Kg	5.00	EPA-8270B
2.4.6-Trichlorophenol	<5.00	mg/Kg	5:00	
2,4-Dichlorophenol	<5.00	mg/Kg	5.00	EPA 8270B
2.4-Dimethylphenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrophenol	<20.0	mg/Kg	20.0	EPA 8270B
2.4-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2.6-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chloronaphthalene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chlorophenol	<5.00	mg/Kg	5.00	EPA 8270B
2-Methylnaphthalene	<5.00	mg/Kg	5.00	EPA:8270B
2-Nitrophenol	<5.00	mg/Kg	5.00	EF A 8270B
3.3 Dichlorobenzidine	<10.0	mg/Kg	10.0.1	EPA 8270B
4,6-Dinitro-2-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Bromophenylphenylether	<5.00	mg/Kg	5.00	EFA-8270B
4-Chloro-3-methylphenol	<5.00	mg/Kg	5.00	EPA 8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EFA 8270B
4-Chlorophenylphenyl ether	<5.00	mg/Kg	5.00	EPA 8270B
4-Nitrophenol	<10.0	mg/Kg	10:0	EPA 8270B
	<5.00	mg/Kg	5.00	EF'A 8270B
Acenaphthene	< 5.00	mg/Kg	5:00	EPA 8270B
Acenaphthylene	43.00			

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Caport Date: 6/28/99

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City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/99 10:30 System ID AD04026	Sample ID	LAB990110
		Page:	2
Proj./Company Name: SPECIAL WASTE MISC SAMP		Date Received:	5/21/99
Address/Location: LARSEN TEST PIT 2		Sample Status:	REPORT QUEUE
Proj Subcategory:	SPECIAL WASTE	Sample Type:	GRAB
Sample Point Gode:	TP-2-17	Sample Matrix:	SOIL
IMS File/Invoice #:	3030.000	Collected By:	CH/GK/PNG

Test Parameter	Result	Units	MRL	Method
Anthrocopa	<50.0	mg/Kg	50.0	EPA 8270B
Anthracene Benzidine	<10.0	mg/Kg	10.0	EPA-8270B.
	<5.00	mg/Kg	5.00	EPA 8270B
Benzo(a)anthracene	. <5:00	mg/Kg	5.00	EPA 8270B
Benzo(a)pyrene	<5.00	mg/Kg	5.00	EPA 8270B
Benzo(b)fluoranthene	<5.00	mg/Kg	5.00	EPA 8270B
Benzo(g.h.i)perylene	<5.00	mg/Kg	5.00	EPA 8270B
Benzo(k)fluoranthene	<5.00	mg/Kg	5.00	EPA 8270B
Benzyl butyl phthalate	<5.00	mg/Kg	5.00	EPA 8270B
Bis(2-chloroethoxy) methane	<5.00	mg/Kg	5.00	EPA 8270B
Bis(2-chloroethyl) ether	<5.00	mg/Kg	5.00	EPA 8270B
Bis(2-chloroisopropyl) ether	<20.0	mg/Kg	20.0	EPA 8270B
Bis(2-ethylhexyl) phthalate	<5.00	mg/Kg	5.00	EPA 8270B
Chrysene	- <10.0	mg/Kg	10.0	EPA-8270B
Di-n-butyl phthalate		mg/Kg	5.00	EPA 8270B
Di-n-octyl phthalate	<5.00 <5.00	mg/Kg	5.00	EPA 8270B
Dibenzo(a,h)anthracene		mg/Kg	5.00	EPA 8270B
Dibenzofuran	<5.00	mg/Kg	5.00	EPA 8270B
Diethyl phthalate	<5.00	mg/Kg	5.00	EPA 8270B
Dimethyl phthalate	<5.00		5.00	EPA 8270B
Fluoranthene	<5.00	mg/Kg	5.00	EF'A 8270B
Fluorene	<5.00	mg/Kg	5.00	EFA 8270B
Hexachlorobenzene	<5:00	mg/Kg	10.0	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EFA 8270B
Hexachlorocyclopentadiene	<10.0:	mg/Kg	10.0	EF'A 8270B
Hexachloroethane	<10.0	mg/Kg		EPA 8270B
Indeno(1;2,3-cd)pyrene	<5.00	mg/Kg	5:00	EPA 8270B
Isophorone	<5.00	mg/Kg	5.00	EPA 8270B
N-Nitrosodi-n-propylamine	<5.00	mg/Kg	5.00	EPA 8270B
N-Nitrosodimethylamine	<5.00	mg/Kg	5.00	EPA 8270B
N-Nitrosodiphenylamine	<5.00	mg/Kg	5.00	EF A 8270B
Naphthalene	<5.00	mg/Kg	5.00	EPA-8270B
Nitropenzene	< 5.00	mg/Kg	5.00	Er'A 021:00
000000000000000000000000000000000000000				NIN-SIZE(III)

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Report Date: 6/28/99

(2)44/21





Sample Date/Time 5/18/99 10:30 System ID AD04026 Sample ID LAB990110

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: LARSEN TEST PIT 2 Date Received: 5/21/99

REPORT QUEUE Sample Status:

Proj Subcategory: Sample Point Code: SPECIAL WASTE

Sample Type: Sample Matrix:

GRAB SOIL.

IMS File/Involce #:

TP-2-17 3030.000

CH/GK/PNG Collected By:

Comments:

Test Parameter	Result	Units	MRL	Method
Pentachiorophenol	<10.0	mg/Kg	10.0	EPA 8270B
Phenanthrene	<5.00	mg/Kg	5.00	EPA 8270B
Phenol	<5.00	mg/Kg	5.00	EPA 8270B
Pyrene	<5.00	mg/Kg	5.00	EPA 8270B
VOLATILE ORGANIC COMPOUNT	All and a second a	310 300 300 300 300		
1,1,1-Trichloroethane	<200	µg/Kg	200	EPA 8240
1,1,2,2-Tetrachloroethane	<200	ug/Kg	200	EPA 8240
1,1,2-Trichloroethane	<200	µg/Kg	200	EF A 8240
1,1-Dichloroethane	<200	μg/Kg	200	EPA 8240
1,1-Dichloroethene	<200	µg/Kg	200	EPA 8240
1,2-Dichloroethane	<200	ug/Kg	200	EPA 8240
1,2-Dichloropropane	<200	μg/Kg	200	EF A 8240
1,3-Dichloropropene total	<200	µg/Kg	200	EPA-8240
2-Chloroethylvinyl ether	<5000	µg/Kg	5000	EF'A 8240
Acrolein	<5000	ug/Kg	5000	EF'A 8240
Acrylonitrile	<500	μg/Kg	500	EPA 8240
Benzene	<200	μg/Kg	200	EPA-8240
Bromoform	<200	µg/Kg	200	EF'A 8240
Bromomethane	<1000	⊢µg/Kg	1000	EFA 8240
Carbon tetrachloride	<200	μg/Kg	200	EF'A 8240
Chlorobenzene	<200	ug/Kg	200	EPA 8240
Chloroethane	<400	_µg/Kg	400	EF'A 8240
Chloroform	<200	ug/Kg_	200	EPA 8240
Chloromethane	<500	µg/Kg	500	EPA 8240
Dibromochloromethane	<200	μg/Kg	200	EPA 8240
Dichlorobromomethane	<200	µg/Kg	200	EF'A 8240
Ethylbenzene	<200	µg/Kg	200	EPA-8240
Methylene chloride	<500	µg/Kg	500	EPA 8240
Tetrachloroethene	<200	µg/Kg	200	EPA 8240
Toluene	<200	μg/Kg	200	EPA 8240
	<200	µg/Kg	200	El'A 8240
trans-1,2-Dichloroethene Trichloroethene	<200	µg/Kg	200	EPA 8240
Hichiordemene	7200	P3.1.3	700	04 \$ (20)
		***************************************	111 (4.8)	The state of the s

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Sample Date/Time	5/18/99 10:30 Sy	stem ID AD04026	Sample ID	LAB990110
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Proj./Company Name: Address/Location:	: SPECIAL WASTE LARSEN TEST PI	MISC SAMP T 2	Date Received: Sample Status:	5/21/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE TP-2-17 3030.000	1	Sample Type: Sample Matrix: Collected By:	GRAB SOIL CH/GK/PNG
Comments:				

Test Parameter	Result	Units	MRL	Method
Vinyl chloride	<200	μg/Kg	200	EPA 8240

End of Report for Sample ID: LAB990110

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IMS File/Invoice #:

Comments:

3030.000



City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/99 12:00 System ID AD04028	Sample ID L	_AB990112	
	and the second s	Page:	1	
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: LARSEN/TEST PIT 5		Date Received: Sample Status:	5/21/99 REPORT QUEUE	
Proj Subcategory: Sample Point Code:	SPECIAL WASTE TP-5-8 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB SOIL CH/GK/PNG	

Test Parameter	Result	Units	MRL	Method
NWTPH-Dx				
DIESEL RANGE HYDROCARBONS	<125	mg/Kg	125	NWTPH-Dx
HEAVY OIL RANGE HYDROCARBONS NWTPH-Gx	The state of the s	mg/Kg	250	NWTPH-Dx
GASOLINE RANGE HYDROCARBONS	<2.50	mg/Kg	2.50	NWTPH-Gx
SEMI-VOLATILE ORGANICS	1. 1. 2924. Ave.			EPA 8270B
1,2 Diphenylhydrazine	<10.0	mg/Kg	10.0	EF'A 8270B
1,2,4-Trichlorobenzene	<5.00	mg/Kg	5.00	EF A 8270B
1,2-Dichlorobenzene	<10.0	mg/Kg		EPA 8270B
1,3-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1.4-Dichloropenzene	<10.0	mg/Kg	10.0	EPA 8270B
2,4,5-Trichlorophenol	<5.00	mg/Kg	5.00	EPA 8270B
2:4:6-Trichlorophenol	<5.00	mg/Kg	5.00	EPA 8270B
2,4-Dichlorophenol	<5.00	mg/Kg	5.00	
2.4-Dimethylphenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrophenol	<20.0	mg/Kg	20.0	EIPA 8270B
2.4-Dinitrotoluene	<5:00	mg/Kg	5.00	EI A 8270B
2,6-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chloronaphthalene	<5:00	mg/Kg	5.00	EPA 8270B
2-Chlorophenol	<5.00	mg/Kg	5.00	El'A 8270B
2-Methylnaphthalene	<5.00	-mg/Kg	5.00	EPA 8270B
2-Nitrophenol	<5.00	mg/Kg	5.00	EPA 8270B
3,3 Dichlorobenzidine	<10.0	mg/Kg	10.0	EPA 8270B
4,6-Dinitro-2-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Bromophenylphenyl ether	<5:00	mg/Kg	5.00	EPA 8270B
4-Chloro-3-methylphenol	<5.00	mg/Kg	5.00	EPA 8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EPA-8270B
4-Chlorophenylphenyl ether	<5.00	mg/Kg	5.00	EPA 8270B
- 4-Nitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
Acenaphthene	<5.00	mg/Kg	5.00	EPA 8270B
Acenaphthylene	<5.00	mg/Kg	5.00	EPA 8270B
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Report Date: 6/28/99

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Sample Date/Time 5/18/99 12:00 System ID AD04028 Sample ID LAB990112 Page: Date Received: 5/21/99 Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: REPORT QUEUE Address/Location: LARSEN/TEST PIT 5 GRAB Sample Type: SPECIAL WASTE Proj Subcategory: Sample Matrix: SOII. Sample Point Code: TP-5-8 CH/GK/PNG Collected By: IMS File/Invoice #: 3030.000

Comments:

Test Parameter	Result	Units	MRL	Method
Anthracene	<50.0	mg/Kg	50.0	EPA 8270B
Benzidine	-<10.0	mg/Kg	-10.0	EPA 8270B
Benzo(a)anthracene	<5.00	mg/Kg	5.00	EPA 8270B
Benzo(a)pyrene	< 5.00	mg/Kg	5.00	EFA 8270B.
Benzo(b)fluoranthene	<5.00	mg/Kg	5.00	EPA 8270B
Benzo(g.h.i)perylene	<5:00	mg/Kg	5.00	EFA 8270B
Benzo(k)fluoranthene	<5.00	mg/Kg	5.00	EFA 8270B
Benzyl butyl phthalate	< 5,00	mg/Kg	5.00	EPA 8270B
Bis(2-chloroethoxy) methane	<5.00	mg/Kg	5.00	EF'A 8270B
Bis(2-chloroethyl) ether	<5.00	mg/Kg	5.00	EFA 8270B
Bis(2-chloroisopropyl) ether	<5.00	mg/Kg	5.00	EPA 8270B
Bis(2-ethylhexyl) phthalate	<20.0	mg/Kg	20.0	EFA 8270B
Chrysene	<5.00	mg/Kg	5.00	EF'A 8270B
Di-n-butyl phthalate	<10.0	mg/Kg	10.0	EF'A 8270B
Di-n-octyl phthalate	<5.00	mg/Kg	5.00	EF'A 8270B
Dibenzo(a h)anthracene	<5.00	mg/Kg	5:00	EFA 8270B
Dibenzofuran	<5.00	mg/Kg	5.00	EF'A 8270B
Diethyl phthalate	₹5.00	mg/Kg	5.00	EPA 8270B
Dimethyl phthalate	<5.00	√ mg/Kg	5.00	EPA 8270B
Fluoranthene	<5.00	mg/Kg	5.00	EPA 8270B
Fluorene	<5.00	mg/Kg	5.00	EPA 8270B
Hexachlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EPA 8270B
A A CONTROL OF THE CO	<10.0	mg/Kg	10.0	EI'A 8270B
Hexachlorocyclopentadiene	<10.0	mg/Kg	10.0	EPA 8270B
Hexachloroethane	<5.00	mg/Kg	5.00	EPA 82708
Indeno(1,2,3-cd)pyrene	<5.00	mg/Kg	5.00	El'A 8270B
Isophorone		mg/Kg	5.00	EPA 8270B
N-Nitrosodi-n-propylamine	<5.00	mg/Kg	5.00	EPA 8270B
N-Nitrosodimethylamine	<5.00		5.00	EPA 8270B
N-Nitrosodiphenylamine	<5.00	mg/Kg.	5.00	EPA 8270B
Naphthalene	<5.00	mg/Kg	5.00	EPA 8270B
Nitrobenzene	<5.00	mg/Kg	-5.00	EL MOEROD

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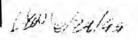
City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/99 12:00 System ID AD04028 Sample ID LAB990112 Page: Date Received: 5/21/99 Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: Address/Location: LARSEN/TEST PIT 5 Sample Type: GRAB SPECIAL WASTE Proj Subcategory: Sample Matrix: SOIL. Sample Point Code: TP-5-8 CH/GK/PNG Collected By: IMS File/Invoice #: 3030.000

Test Parameter	Result	Units	MRL	Method
Pentachlorophenol	<10.0	mg/Kg	10.0	EF'A 8270B
Phenantbrene	< 5.00	mg/Kg	5.00	EFA 8270B
Phenol	<5.00	mg/Kg	5.00	EF'A 8270B
Pyrene	<5.00	mg/Kg	5.00	EF A 8270B
VOLATILE ORGANIC COMPOUNDS			5 5 5	
1,1,1-Trichloroethane	<200	µg/Kg	200	EF'A 8240
1.1,2,2-Tetrachloroethane	<200	μg/Kg	200	EPA 8240
1,1,2-Trichloroethane	<200	μg/Kg	200	EF'A 8240
1.1-Dichloroethane	<200	µg/Kg	200	EPA 8240
1,1-Dichloroethene	<200	µg/Kg	200	EPA 8240
1.2-Dichloroethane	<200 :-	μg/Kg	200	EF A 8240
1,2-Dichloropropane	<200	µg/Kg	200	EPA 8240
1,3-Dichloropropene, total	<200:	μg/Kg	200	EPA 8240
2-Chloroethylvinyl ether	<5000	μg/Kg	5000	El'A 8240
Acrolein	<5000	μg/Kg	5000:	EPA 8240
Acrylonitrile	<500	µg/Kg	500	EPA 8240
Benzene	<200	μg/Kg	200	El'A 8240
Bromoform	<200	µg/Kg	200	EPA 8240
Bromomethane.	<1000	ug/Kg	1000	EPA 8240
Carbon tetrachloride	<200	µg/Kg	200	ElºA 8240
Chlorobenzene	<200	ид/Кд	200	EPA 8240
Chloroethane	<400 -	µg/Kg	400	EPA 8240
Chloroform	<200	μg/Kg	200	EPA 8240
Chloromethane	<500	µg/Kg	500	EPA 8240
Dibromochloromethane	<200	µg/Kg	200	EPA 8240
Dichlorobromomethane	<200	µg/Kg	200	EPA 8240
-Ethylbenzene-	<200	µg/Kg:	200	EPA 8240
Methylene chloride	<500	µg/Kg	500	EPA 8240
Tetrachloroethene	<200	μg/Kg	200	EPA 8240
Toluene	<200	µg/Kg	200	EPA 8240
trans-1;2-Dichloroethene	<200	μg/Kg	200	EPA 8240
Trichloroethene	<200	µg/Kg	200	EPA 8240

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City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample ID LAB990112 Sample Date/Time 5/18/99 12:00 System ID AD04028 Page: 5/21/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: REPORT QUEUE LARSEN/TEST PIT 5 Address/Location: GRAB Sample Type: SPECIAL WASTE Proj Subcategory: SOIL. Sample Matrix: Sample Point Code: TP-5-8 CH/GK/PNG Collected By: IMS File/Invoice #: 3030.000

Test Parameter	Result	Units	MRL	Method	
Vinyl-chloride	<200	µg/Kg.	200	EPA 8240	121100

End of Report for Sample ID: LAB990112

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Sample ID LAB990111 Sample Date/Time 5/18/99 10:50 System ID AD04027

Page:

Date Received:

5/21/99

Sample Status:

REPORT QUEUE

Proj Subcategory: Sample Point Code:

Address/Location:

SPECIAL WASTE

LARSEN TEST PIT 3

IMS File/Invoice #:

TP-2-13 3030.000

Proj./Company Name: SPECIAL WASTE MISC SAMP

Sample Type: GRAB Sample Matrix:

SOIL

Collected By: CH/GK/PNG

Comments:

Test Parameter	Result	Units	MRL	Method
NWTPH-Dx				
DIESEL RANGE HYDROCARBONS	<250	mg/Kg	250	NWTPH-Dx
HEAVY OIL RANGE HYDROCARBONS NWTPH-Gx	1000	mg/Kg	250.0	NWTPH-Dx
GASOLINE RANGE HYDROCARBONS	4.77	mg/Kg	2.50	NWTPH-Gx
SEMI-VOLATILE ORGANICS		3.444	W- 12	at well to the door
1,2 Diphenylhydrazine	<20.0	mg/Kg	20.0	EPA-8270B
1,2,4-Trichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,2-Dichlorobenzene	<20.0	mg/Kg	20.0	EPA 8270B
1,3-Dichlorobenzene	<20.0	mg/Kg	20.0	EPA 8270B
1,4-Dichlorobenzene	<20.0	mg/Kg	20.0	EPA-8270B
2,4,5-Trichlorophenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4,6-Trichlorophenol	-<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dichlorophenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dimethylphenol	<20.0	mg/Kg	20.0	EPA 8270B
2,4-Dinitrophenol	<40.0	mg/Kg	40.0	EPA 8270B
2.4-Dinitrotoluene	<10.0	mg/Kg	10.0	EPA 8270B
2,6-Dinitrotoluene	<10.0	e mg/Kg	10.0	EFA 8270B
2-Chloronaphthalene	<10.0	mg/Kg	10.0	EPA 8270B
2-Chlorophenol	<10.0	mg/Kg	10.0	EFA 8270B
2-Methylnaphthalene	<10.0	mg/Kg	10.0	EF'A 8270B
2-Nitrophenol	<10.0	mg/Kg	10.0	EF'A 8270B
3,3 Dichlorobenzidine	<20.0	mg/Kg	20.0,	EF'A-8270B
4,6-Dinitro-2-methylphenol	<20.0	mg/Kg	20.0	EF'A 8270B
4-Bromophenylphenyl ether	<10.0	mg/Kg	10.0	EPA 8270B
4-Chloro-3-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Chloroaniline	<40.0	mg/Kg	40.0	EPA 8270B
4-Chlorophenylphenyl ether	<10.0	mg/Kg	10.0	EP'A 8270B
4-Nitrophenol	<20.0	mg/Kg	20.0	EPA 8270B
Acenaphthene	<10.0	mg/Kg	10.0	EPA 8270B
Acenaphthylene	<10.0	mg/Kg	10.0	EPA 8270B

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Report Date: 6/28/99

101-1260





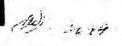
Sample Date/Time 5/18/99 10:50 System ID AD04027 Sample ID LAB990111 Page: Date Received: 5/21/99 Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN TEST PIT 3 Address/Location: Sample Type: GRAB SPECIAL WASTE Proj Subcategory: SOIL. Sample Matrix: Sample Point Code: TP-2-13 Collected By: CH/GK/PNG IMS File/Invoice #: 3030.000

Comments:

Test Parameter	Result	Units	MRL	Method
Anthracene	<100	mg/Kg	100	EPA 8270B
Benzidine	- <20.0	mg/Kg	20.0	EPA 8270B
Benzo(a)anthracene	<10.0	mg/Kg	10.0	EPA 8270B
Benzo(a)pyrene	<10.0	mg/Kg	10.0	EPA 8270B
Benzo(b)fluoranthene	<10.0	mg/Kg	10.0	EPA 8270B
Benzo(g,h,)perylene	<10.0	mg/Kg	10.0	EPA 8270B
Benzo(k)fluoranthene	<10.0	mg/Kg	10.0	EPA 8270B
Benzyl butyl onthalate	<10.0	mg/Kg	10.0	EPA 8270B
Bis(2-chloroethoxy) methane	<10.0	mg/Kg	10.0	EPA 8270B
Bis(2-chloroethyl) ether	<10.0	mg/Kg	10.0	EPA 8270B
Bis(2-chloroisopropyl) ether	<10.0	mg/Kg	10.0	EPA 8270B
Bis(2-ethylhexyl) phthalate	<10:0	mg/Kg	10.0	EPA 8270B
Chrysene	<10.0	mg/Kg	10.0	EPA 8270B
Di-n-butyl pothalate	<20.0	mg/Kg	20.0	EPA 8270B
Di-n-octyl phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Date - Fred Colored Colored	<10.0	mg/Kg	10.0	EPA 8270B
Dibenzofuran	<10.0	mg/Kg	10.0	EPA 8270B
Diethyl phthalate	<10.0	mg/Kg	10.0	EFA 8270B
Dimethyl phthalate	<10.0	mg/Kg	10.0	EF'A 8270B
Fluoranthene	<10.0	mg/Kg	10.0	EPA 8270B
Fluorene	<10.0	mg/Kg	10.0	EPA 8270B
Do Particle C. College Co. St.	<10.0	_mg/Kg	10.0	EPA 8270B
Hexachlorobenzene Hexachlorobutadiene	<20.0	mg/Kg	20.0	EF'A 8270B
	<20.0	mg/Kg	20:0	EFA 8270B
Hexachlorocyclopentadiene Hexachloroethane	<20.0	mg/Kg	20.0	EF'A 8270B
THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PE	<10.0	mg/Kg	10:0	EPA-8270B
Indeno(1,2,3-ed)pyrene	<10.0	mg/Kg	10.0	EF'A 8270B
Isophorone		mg/Kg	10.0	EPA-8270B
N-Nitrosodi-n-propylamine	<10.0	mg/Kg	10.0	El'A 8270B
N-Nitrosodimethylamine	<10.0	mg/Kg	10.0	EPA 8270B
N-Nitrosodiphenylamine	<10.0		10.0	El'A 8270B
Naphthalene	<10.0	mg/Kg	10.0	EI A 8270B
Nitrobenzene	<10.0	mg/Kg	10.0	LI 79 02 100
Ames 1		Access V	(60)	+/9++)

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Report Data: 5/28/99





City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5	5/18/99 10:50 System ID AD04027	Sample ID [AB990111
		Page:	3
Proj./Company Name: SPECIAL WASTE MISC SAMP		Date Received:	5/21/99
Address/Location: LARSEN TEST PIT 3		Sample Status:	REPORT QUEUE
Proj Subcategory:	SPECIAL WASTE	Sample Type:	GRAB
Sample Point Code:	TP-2-13	Sample Matrix:	SOIL.
IMS File/Involce #:	3030.000	Collected By:	CH/GK/PNG

Test Parameter	Result	Units	MRL	Method
Pentachlorophenol	<20.0	mg/Kg	20.0	EPA 8270B
Phenanthrene	<10.0	mg/Kg	10.0	EPA 8270B
Phenol	<10.0	mg/Kg	10.0	EPA 8270B
Pyrene	<10.0	mg/Kg	10.0	EPA 82708
VOLATILE ORGANIC COMPOUNDS				ATTURNO NO
1,1,1-Trichloroethane	<200	µg/Kg	200	EPA 8240
1,12,2-Tetrachloroethane	<200	µg/Kg	200	EPA 8240
1,1,2-Trichloroethane	<200	µg/Kg	200	EF A 8240
1 1-Dichloroethane	<200	µg/Kg	200	EPA 8240
1,1-Dichloroethene	<200	µg/Kg	200	EPA 8240
1,2-Dichloroethane	<200	μg/Kg	200	EPA 8240
1,2-Dichloropropane	<200	µg/Kg	200	EPA 8240
1,3-Dichloropropene, total	<200	ug/Kg	200 :::	EFA 8240
2-Chloroethylvinyl ether	<5000	μg/Kg	5000	EF'A 8240
Acrolein:	<5000	µg/Kg	5000:	EPA 8240
Acrylonitrile	<500	µg/Kg	500	EF'A 8240
Benzene	956	μg/Kg	200	EF A 8240
Bromoform	<200	µg/Kg	200	EF'A 8240
Bromomethane	<1000	ug/Kg	1000-	EF!A 8240
Carbon tetrachloride	<200	µg/Kg	200	EF'A 8240
Chlorobenzene	<200	µg/Kg	200	EPA 8240
Chloroethane	<400 -	- µg/Kg	400	EPA 8240
: Chloroform:	<200	µg/Kg	200	EPA 8240
Chloromethane	<500	µg/Кg	500	El'A 8240
Dibromochloromethane	:<200	μg/Kg	200	EPA 8240
Dichlorobromomethane	<200	µg/Kg	200	EPA 8240
Ethylbenzene	<200	μġ/Kg	200	EPA 8240
Methylene chloride	<500	µg/Kg	500	El'A 8240
Tetrachloroethene	<200	µg/Kg	200	EPA 8240
Toluene	<200	µg/Kg	200	El'A 8240
trans-1:2-Dichloroethene	<200	µg/Kg	200	EPA 8240
Trichloroethene	<200	µg/Kg	200	El3A 8240

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City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/99 10:50 System ID AD04027	Sample ID	LAB990111	
	and the second of the second o	Page:	4	
Proj./Company Name: SPECIAL WASTE MISC SAMP		Date Received:	5/21/99	
Address/Location: LARSEN TEST PIT 3		Sample Status:	REPORT QUEUE	
Proj Subcategory:	SPECIAL WASTE	Sample Type:	GRAB	
Sample Point Code:	TP-2-13	Sample Matrix:	SOIL.	
IMS File/Involce #:	3030.000	Collected By:	CH/GK/PNG	

Test Parameter	Result	Units	MRL		Method
Vinyl chloride	<200:	µg/Kg	200	149.8E	EPA:8240

End of Report for Sample ID: LAB990111

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Sample Date/Time	5/26/99 8:30 System ID AD0	04150 Sample ID	LAB990113
L.		Page:	1
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: LARSEN PROPERTY W-1		Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code:	SPECIAL WASTE W-1 3030 000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/IPNG

Comments: LAB: THE RESULT FOR 2,4-DIMETHYLPHENOL (SEMI-VOLATILE ORGANICS) MAY BE A LOW ESTIMATE DUE TO MATRIX INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.005	mg/L	0.005	EF'A 625
1 2-Dichlorobenzene	< 0.005	mg/L	0.005	EF'A 625
1,3-Dichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	<0.005	mg/L	0.005	EPA 625
2,4,6-Trichlorophenol	<0.01	mg/L	0.010	EF'A 625
2.4-Dichlorophenol	<0.01	mg/L	0.010	EFIA 625
2,4-Dimethylphenol	0.05	mg/L	0.010	EPA 625
2.4-Dinitrophenol	<0.02	mg/L	0.020	EF'A 625
2,4-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2.6-Dinkrotoluene	< 0.005	mg/L	0.005	EPA 625
2-Chloronaphthalene	< 0.005	mg/L	0.005	EPA 625
2-Chlorophenol	<0.01	-mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.01	mg/L	0.010	EPA 625
2-Nitrophenol	<0.01	mg/L	0.010	EPA 625
3,3'-Dichlorobenzidine	<0.005	mg/L	0.005	El'A 625
4-Bromophenylphenyl ether	<0.005	mg/L	0.005	EPA 626
4-Chloro-3-methylphenol	< 0.01	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Nitrophenol	<0.02	mg/L	0.020	EPA 625
Acenaphthene	<0.005	mg/L	0.005	EPA 625
Acenaphthylene	< 0.005	mg/L	0.005	EPA 625
Anthracene	<0.005	mg/L	0:005	EPA 625
Azobenzene	< 0.005	mg/L	0.005	EPA 625
Benzidine	< 0.01	mg/L	0.010	EPA 625
Benzo(a)anthracene	< 0.005	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0:005	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	< 0.005	mg/L	0.005	EPA 625
Benzo(g.h.l)perylene	< 0.005	mg/L	0.005	EPA 625
Benzo(k)fluoranthene	< 0.005	mg/L	0.005	EPA 625
Benzyl bulyl phthalate	<0.02	mg/L	0.020	EPA 625
Linea a		11990	VV same	

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Report Date: 6/29/99

W) 6/29/49





Sample Date/Time	5/26/99 8:30 System ID AD04150	Sample ID L	AB990113
		Page:	2
Proj./Company Name Address/Location:	: SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-1	Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Involce #:	SPECIAL WASTE W-1 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

Comments: LAB: THE RESULT FOR 2,4-DIMETHYLPHENOL (SEMI-VOLATILE ORGANICS) MAY BE A LOW ESTIMATE DUE TO MATRIX INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.005	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	<0.005	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	- 0.01	mg/L	0.010	EPA 625
Chrysene	< 0.005	mg/L	0.005	EPA 625
Di-n-buty phthalate	< 0.02	mg/L	0.020	EPA 625
Di-n-octyl phthalate	<0.01	mg/L	0.010	EPA 625
Dibenzo(a h) anthracene	<0.005	mg/L	0.005	EPA 625
Diethyl phthalate	<0.005	mg/L	0.005	EF'A 625
Dimethyl phthalate	< 0.005	mg/L	0:005	EFA 625
Fluoranthene	< 0.005	rng/L	0.005	EF'A 625
-Fluorene	<0.005	- mg/L	0.005	EPA 625
Hexachlorobenzene	<0.005	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0:008	EPA 625
Hexachlorocyclopentadiene	<0.005	mg/L	0.005	EF'A 625
Hexachloroethane	<0.005	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	<0.005	mg/L	0.005	EPA 625
Isophorone!	<0.005	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	<0.005	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	<0.005	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	<0.005	mg/L	0.005	EPA 625
Naphthalene	<0.005	mg/E	0.005	EPA 625
Nitrobenzene	<0.005	mg/L	0.005	EPA 625
Rentachiorophenol	<0.01 ¹	mg/L	0.010	EPA 625
Phenanthrene	<0.005	mg/L	0.005	EPA 625
Phenof	0.03	mg/L	0.010	EPA 625
	<0.005	mg/L	0.005	EPA 625
Pyrene VOLATILE ORGANIC COMPOUND		11.3	977.52	
Acces to the	<0:005	mg/L	0.005	EPA 624
1:1-1;2-Tetrachloroethane	<0.003	mg/L	0.003	EPA 624
1,1,1-Trichloroethane	<0.003	mg/L	0.003	EPA:624
1,1,2,2-Tetrachloroethane	<0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	~0.003	nigre.	13/232	0.460
20 4 50 TEST (200 7)	(inst)	1 - 4 **	2 2 2 2	2/20/00

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Report Date: 6/29/99

(ad) 6/29/99





Sample Date/Time	5/26/99 8:30 System ID AD04150	Sample ID L	AB990113
and a service of the		Page:	3
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-1	Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-1 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/IPNG
IMS File/Invoice #:	3030.000	Collected by.	

Comments: LAB: THE RESULT FOR 2,4-DIMETHYLPHENOL (SEMI-VOLATILE ORGANICS) MAY BE A LOW ESTIMATE DUE TO MATRIX INTERFERENCE.

1.1-Dichloroethane 1.1-Dichloroethene 1.2-Dichlorobenzene 1.2-Dichloroethane 1.2-Dichloropropane	<0.002 <0.003 <0.003 <0.005 <0.003	mg/L mg/L mg/L mg/L mg/L	0.002 0.003 0.003 0.005	EPA 624 EPA 624 EPA 624
1,1-Dichloroethene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane	<0.003 <0.003 <0.005 <0.003	mg/L mg/L mg/L	0.003	EPA 624
1.2-Dichlorobenzene 1.2-Dichloroethane 1.2-Dichloropropane	<0.003 <0.005 <0.003	mg/L		. 2 . 2
1,2-Dichloroethane	<0.005 <0.003	mg/L	0.005	
1,2-Dichloropropane	<0.003			EF'A 624
	and dedicate.	TINGAL T	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EF'A 624
-1.4-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	<0.05	mg/L	0.050	EPA 624
Acrolein	<0.1	mg/L	0.100	EPA 624
Acrylonitrile	<0.05	mg/L	0.050	EPA 624
Benzene	0.001	mg/L	0.001	EPA 624
Bromodichloromethane	<0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L	0.003	EPA 624
Bromomethane	<0.01	mg/L	0.010	El'A 624
Carbon fefrachloride	<0.003	.mg/L	0:003	EPA 624
Chlorobenzene	0.019	mg/L	0.001	ElºA 624
Chloroethane	0.009	mg/L	0.010	EPA 624
Chloroform	<0.001	mg/L	0.001	EPA 624
Chloromethane	<0:01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	<0.004	mg/L	0.004	EPA 624
Dibromochloromethane	<0.005	mg/L	0.005	EPA 624
Ethylbenzene	0.005	mg/L	0.003	EPA 624
Methylene chloride	<0.004	mg/L	0.004	EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002	EPA 624
Tolûene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	<0.002	mg/L	0.002	EPA 624
trans-1,3-Dichlorogropene	< 0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	<0.004	mg/L	0.004	EPA 624
Vinyl chloride	<0.05	mg/L	0.050	EPA 624
NWTPH-Dx	8.200	- 16:	0.600	NWTPH-Dx
DIESEL RANGE HYDROCARBONS	<0.600	mg/L	0,000	The state of the s

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Report Date: 6/29/99

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Sample Date/Time 5.	/26/99 8:30 System ID AD04150	Sample ID L	AB990113
		Page:	4
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-1	Date Received: Sample Status:	5/26/99 REPORT QUEUI
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-1 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/I'NG

TO MATRIX INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	<1.20	mg/L	1.20	NWTPH-Dx
NWTPH-GX GASOLINE RANGE HYDROCARBONS		mg/E	· - : : : : : : : : : : : : : : : : : :	NWTPH-Gx

End of Report for Sample ID: LAB990113



ANTHRACENE, FLUORANTHENE AT LEVELS BELOW THE MRL.

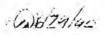


Sample Date/Time 5	/26/99 10:15 System ID AD04151	Sample ID	LAB990114
		Page:	1
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-2	Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-2 3030.000 ITION TO THE REPORTED SEMI-VOLATILE ORGA	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

Test Parameter	Result	Units	MRL	Method
SEMI-VOLATILE ORGANICS			11.72	501.005
1,2,4-Trichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	<0.005	mg/L	0:005	EPA 625
1,3-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1.4-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
2,4,6-Trichlorophenol	< 0.01	mg/L	0.010	EPA 625
2.4-Dichlerophenol	<0.01	mg/L	0.010	EPA 625
2,4-Dimethylphenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dinitrophenol	<0.02	mg/L	0.020	EPA 625
2,4-Dinitrotoluene	< 0.005	rng/L	0.005	EPA 625
2.6-Dinitrotoluene	<0.005	.mg/L	0,005	EPA 625
2-Chloronaphthalene	< 0.005	mg/L	0.005	EPA 625
2-Chlorophenol	<0.01	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	< 0.01	mg/L	0.010	EPA 625
2-Nitrophenol	<0.01	mg/L	0.010	EPA 625
3,3'-Dichlorobenzidine	<0.005	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	< 0.01	* mg/L	0,010	EPA 625
4-Chlorophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Nitrophenol	< 0.02	mg/L	0.020	EPA 625
Acenaphthene	0.01	mg/L	0.005	EPA 625
Acenaphthylene	< 0.005	mg/L	0.005	EPA 625
Anthracene	< 0.005	mg/L	0.005	EPA 625
Azobenzene	< 0.005	mg/L	0.005	EF'A 625
Benzidine	<0.01	mg/L	0.010	EFA 625
Benzo(a)anthracene	<0.005	mg/L	0.005	EFA 625
Benzo(a)pyrene	<0.005	mg/L_	0.005	EPA 625
Benzo(b)fluoranthene	<0.005	mg/L	0.005	EPA 625
Benzo(g.h.i)perylene	<0.005	mg/L	0.005	EPA 625
Benzo(k)fluoranthene	<0.005	mg/L	0.005	EPA 625
Benzyl butyl phthalate	<0.02	mg/L	0.020	EPA 625

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Report Date: 6/73/99







Sample Date/Time 5	/26/99 10:15 System ID AD04151	Sample ID L	AB990114
CANADA COMPANIES		Page:	2
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-2	Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: MS File/Invoice #:	SPECIAL WASTE W-2 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.005	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L		EPA 625
Bis(2-chloroisopropyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	0.02	mg/E		EPA 625
Chrysene	<0.005	mg/L	0.005	EPA 625
Di-n-butyl phthalate	<0.02	mg/L	E0.020	EPA 625
Di-n-octyl phthalate	< 0.01	mg/L	0.010	EPA 625
Dibenzo(a.h)anthracene	<0.005	mg/L	0.005	EPA 625
Diethyl phthalate	<0.005	mg/L	0.005	EPA 625
Dimethy) phthalate	< 0.005	mg/L	0.005	EPA 625
Fluoranthene	<0.005	mg/L	0.005	EPA 625
Fluorene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobenzene	<0.005	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	<0.005	mg/L	0.005	EPA 625
Hexachloroethane	< 0.005	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	<0.005	mg/L	0.005	EPA 625
(Isophorone	<0.005=	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	<0.005	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	<0.005	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	<0.005	mg/L	0.005	EPA 625
	<0.005	mg/L	0:005	EPA 625
Naphthalene	<0.005	mg/L	0.005	EPA 625
Nitrobenzene	<0.01	mg/L	0.010	EPA 625
Pentachlorophenol	<0.005	mg/L	0.005	EPA 625
Phenanthrene	<0.003	mg/L	0.010	EPA 625
Phenol	<0.005	mg/L	0.005	EPA 625
Pyrene		mg/L		
VOLATILE ORGANIC COMPOUND	< 0.005	mg/L	0.005	EPA 624
1,1,1,2 Tetrachloroethane	<0.003	mg/L	0.003	EF'A 624
1,1,1-Trichloroethane		mg/L	0.003	EF A 624
1,1,2,2-Tetrachloroethane	<0.003		0.003	EF'A 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	-1,,,,,,,

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503, 823-5656

Report Date: 6/29/99

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Sample Date/Time 5/26/99 10:15 System ID AD04151		Sample ID LAB990114		
March 1997		Page:	3	
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: LARSEN PROPERTY W-2		Date Received: Sample Status:	5/26/99 REPORT QUEUE	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-2 3030 000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG	

Comments: LAB; IN ADDITION TO THE REPORTED SEMI-VOLATILE ORGANICS, THIS SAMPLE CONTAINED FLUORENE, ANTHRACENE, FLUORANTHENE AT LEVELS BELOW THE MRL.

Test Parameter	Result	Units	MRL	Method
1,1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	<0.003	mg/L	0.003	EPA:624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	<0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
1.4-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	<0.05	mg/L	0.050	EPA 624
Actolein	<0.1	mg/L	0.100	EPA 624
Acrylonitrile	<0.05	mg/L	0,050	EPA 624
Benzene	<0.001	mg/L	0.001	EPA 624
Bromodichloromethane	<0.003	mg/L	0.003	EPA 624
Bromoform	<0.003	mg/L	0.003	EPA 624
Bromomethane	<0.01	mg/L	0.010	EPA 624
Carbon letrachloride	< 0.003	mg/L	0:003	EPA 624
Chlorobenzene	<0.001	mg/L	0.001	EPA 624
Chloroethane	<0.01	mg/L	0.010	EPA 624
Chloroform	<0.001	mg/L	0.001	EPA 624
The state of the s	<0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	<0.004	mg/L	0.004	EPA 624
Dibromochloromethane	<0.005	mg/L	0.005	EPA 624
	<0.003	mg/L	0.003	EPA 624
Ethylbenzene	<0.004	mg/L	0.004	EPA 624
:Methylene chloride	<0.002	mg/L	0.002	EPA 624
Tetrachloroethene	<0.001	mg/L	0.001	EF A 624
Toluene	<0.001	mg/L	0.002	EPA 624
trans-1,2-Dichloroethene	<0.002	mg/E	0.003	EFA 624
- trans-1,3-Dichloropropene	<0.004	mg/L	0.004	EF'A 624
Trichloroethene	<0.004	mg/L	0.004	EF'A 624
Trichlorofluoromethane	<0.05	mg/L	0.050	EF'A 624
Vinyl chloride	CU.U3	mg/L	3.555	
NWTPH-Dx	-0.000	mic (lm	0.600	NWTPH-Dx
DIESEL RANGE HYDROCARBONS	<0.600	mg/L	0.000	

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Report Date: 5/29/99

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Sample Date/Time 5	3/26/99 10:15 System ID AD04151	Sample ID	LAB990114
L (and the second s	Page:	4
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-2	Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS Flle/Invoice #:	SPECIAL WASTE W-2 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

Comments: LAB: IN ADDITION TO THE REPORTED SEMI-VOLATILE ORGANICS, THIS SAMPLE CONTAINED FLUORENE, ANTHRACENE, FLUORANTHENE AT LEVELS BELOW THE MRL.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	2.13	mg/L	1.20	NWTPH-Dx
NWTPH-GX GASQUNE RANGE HYDROCARBONS	109	UJ/gm=		NWTPH-Gx

End of Report for Sample ID: LAB990114

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Sample ID LAB990115 Sample Date/Time 5/26/99 9:15 System ID AD04152 Page: Date Received: 5/26/99 Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: REPORT QUEUE Address/Location: LARSEN PROPERTY W-3 Sample Type: GRAB SPECIAL WASTE Proj Subcategory: Sample Matrix: GRNDWTR Sample Point Code: W-3 Collected By: CH/PNG IMS File/Invoice #: 3030,000

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS. THE RESULTS FOR THE REPORTED SEMI-VOLATILE ORGANICS SHOULD BE CONSIDERED ESTIMATE: DUE TO MATRIX INTERFERENCE, ACENAPHTHENE, FLUORENE, HEXACHLOROBENZENE, AND FLUORANTHENE

WERE ALSO DETECTED, BUT AT LEVELS BELOW THE MRL.

Test Parameter	Result	Units	MRL	Method
SEMI-VOLATILE ORGANICS				A
1,2,4-Trichlorobenzene	< 0.01	mg/L	0.005	EPA 625
1,2*Dichlorobenzene	0.02	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	< 0.01	mg/L	0.005	EPA 625
1.4-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
2,4,6-Trichlorophenol	<0.02	mg/L	0.010	EPA 625
2.4-Dichlorophenol	<0.02	mg/L	0.010	EPA 625
2,4-Dimethylphenol	0.11	mg/L	0.010	EPA 625
2;4-Dinitrophenol	<0.04	mg/L	0.020	EPA 625
2,4-Dinitrotoluene	< 0.01	mg/L	0.005	EPA 625
2.6-Dinitrotoluene	< 0.01	mg/L	0:005	EPA 625
2-Chloronaphthalene	< 0.01	mg/L	0.005	EPA 625
2-Chlorophenol	<0.02	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	< 0.02	mg/L	0.010	EPA 625
2-Nitrophenol	<0.02	mg/L	0.010	
3,3'-Dichlorobenzidine	<0.01	mg/L	0.005	EPA 625
4-Bromophenylphenylether	< 0.01	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	< 0.02	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	< 0.01	mg/L	0.005	EPA 625
4-Nitrophenol	< 0.04	mg/L	0.020	EPA 625
- Acenaphthene	< 0.01	mg/L	0.005	EPA 625
Acenaphthylene	< 0.01	mg/L	0.005	EPA 625
Anthracene	0.01	mg/L	0.005	EPA 625
Azobenzene	< 0.01	mg/L	0.005	EPA 625
Benzidine	<0.02	mg/L	0.010	EPA 625
Benzo(a)anthracene	<0.01	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0.01	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	< 0.01	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	< 0.01	mg/L	0.005	EPA 625
Benzo(k)fluoranthene	< 0.01	mg/L	0.005	EPA 625
Benzyl butyl phthalate	< 0.04	mg/L	0.020	EPA 625
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Sample Date/Time	5/26/99 9:15 System ID AD04152	Sample ID	LAB990115
and the last to receive the property in many to proceed a last of the last of	Note: High the second of the s	Page:	2
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: LARSEN PROPERTY W-3		Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-3 3030.000	Sample Type: Sample Matrix: Collected By:	GRAI3 GRNIDWTR CH/PNG

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS. THE RESULTS FOR THE REPORTED SEMI-VOLATILE ORGANICS SHOULD BE CONSIDERED ESTIMATE:3 DUE TO MATRIX INTERFERENCE, ACENAPHTHENE, FLUORENE, HEXACHLOROBENZENE, AND FLUORANT HENE

WERE ALSO DETECTED, BUT AT LEVELS BELOW THE MRL

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.01	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	≤0.01	mg/L	0.005	EPA 625
→ Bis(2-chloroisopropyl) ether	<0.01	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	0.05	mg/E.	0.010_	EPA 625
Chrysene	<0.01	mg/L	0.005	EPA 625
-Di-n-butyl phthalate	0.10	mg/L	0.020	EPA 625
Di-n-octyl phthalate	<0.02	mg/L	0.010	EPA 625
Dibenzo(a;h)anthracene	< 0.01	mg/Li	0.005	EPA 625
Diethyl phthalate	<0.01	mg/L	0.005	EPA 625
Dimethyl phthalate	<0.01	mg/L	0.005	EPA 625
Fluoranthene	<0.01	mg/L	0.005	EPA 625
Fluorene	<0.01	mg/L	0.005	EPA 625
Hexachlorobenzene	<0.01	mg/L	0.005	EPA 625
Hexachlorobutadiene	<0.01	rng/L	0.005	EPA 625
Hexachlorocyclopentadiene	<0.01	mg/L	0.005	EPA 625
Hexachloroethane	<0.01	mg/L	-0.005-	EPA 625
	<0.01	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene		mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	<0.01	mg/L	0.005	EPA 625
	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	<0.01	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	< 0.01	mg/L	0.005	EPA 625
Naphthalene	<0.01	mg/L	0.005	EPA 625
Nitrobenzene	<0.01	The state of the s	0.010	EPA:625
Pentachlorophenol	0.01	mg/L	0.005	EPA 625
Phenanthrene	<0.02	mg/L	0:010	EPA 625
Phenol	<0.01	mg/L	0.005	EPA 625
Pyrene	~0.01	mg/L	0.000	
VOLATILE ORGANIC COMPOUNDS	<0.005	mg/L	0.005	EPA 624
1,1,1,2-Tetrachloroethane	<0.003	mg/L	0.003	EPA 624
1,1,1-Trichloroethane	The second secon	mg/L	0.003	EF A 624
1,1,2,2-Tetrachloroethane	<0.003		0.003	EPA 624
1,1,2-Trichloroethane	<0.003	mg/L	0,000	marrier!
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IMS File/Invoice #:



City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample ID LAB990115 System ID AD04152 Sample Date/Time 5/26/99 9:15 Page: 5/26/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-3 GRAB Sample Type: Proj Subcategory: SPECIAL WASTE Sample Matrix: GRNDWTR Sample Point Code: W-3 Collected By: CH/PNG

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS. THE RESULTS FOR THE REPORTED SEMI-VOLATILE ORGANICS SHOULD BE CONSIDERED ESTIMATES DUE TO MATRIX INTERFERENCE, ACENAPHTHENE, FLUORENE, HEXACHLOROBENZENE, AND FLUORANTHENE

WERE ALSO DETECTED, BUT AT LEVELS BELOW THE MRL.

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Test Parameter	Result	Units	MRL	Method
1,1-Dichloroethane	<0.002	mg/L==		EPA 624
1.1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	0.012	mg/L	7. 0,003	EPA 624
1,2-Dichloroethane	<0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	<0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
1;4-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050	EPA 624
Acrolein	<0.1	mg/L	0.100	EPA 624
Acrylonitrile	< 0.05	mg/L	0.050	EPA 624
Benzene	< 0.001	mg/L	.0.001	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L		EPA 624
Bromomethane	< 0.01	mg/L	0.010	EPA 624
Garbon tetrachlonde	<0.003	mg/L	0.003	EEPA 624
Chlorobenzene	0.003	mg/L	0.001	EPA 624
Chloroethane	≥ <0.01	mg/L	0,010	EPA 624
Chloroform	<0.001	mg/L	0.001	EPA 624
Chloromethane	<0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004	EPA 624
Dibromochloromethane	<0.005	mg/L	0.005	EPA 624
Ethylbenzene	< 0.003	mg/L	0.003	EPA 624
Methylene chloride	<0.004	mg/L:	0.004	EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002	EPA 624
Toluene	<0.001	mg/L	.0.001	EPA 624
trans-1,2-Dichloroethene	<0,002	mg/L	0.002	EPA 624
trans-1,3-Dichloropropene	< 0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EF A 624
Trichlorofluoromethane	<0:004	mg/L	0:004	EPA 624
Vinyl chloride	<0.05	mg/L	0.050	EPA 624
NWTPH-DX DIESEL RANGE HYDROCARBONS	<0.600	mg/L	0.600	NWTPH-Dx

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Report Date: 6/29/99

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Sample Date/Time	5/26/99 9:15 System ID AD04152	Sample ID	LAB990115
	The second secon	Page:	4
Proj./Company Name Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-3	Date Received: Sample Status:	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-3 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

Comments: LAB; THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS. THE RESULTS FOR THE REPORTED SEMI-VOLATILE ORGANICS SHOULD BE CONSIDERED ESTIMATES DUE TO MATRIX INTERFERENCE. ACENAPHTHENE, FLUORENE, HEXACHLOROBENZENE, AND FLUORANTHENE

WERE ALSO DETECTED, BUT AT LEVELS BELOW THE MRL.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	<1.20	mg/L	1.20	NWTPH-Dx
NWTPH-Gx GASOLINE RANGE HYDROGARBONS	30.9	mg/L::	80.0-1	NWTPH-Gx

End of Report for Sample ID: LAB990115





Sample Date/Time 5	/26/99 9:45 System ID AD04153	Sample ID	LAB990116
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Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-4	Date Received: Sample Status:	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-4 3030.000 AMPLEWAS DILUTED BY A FACTOR OF TWO F	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

Test Parameter	Result	Units	MRL	Method
SEMI-VOLATILE ORGANICS		134	1.112	ED 1 626
1,2,4-Trichlorobenzene	<0.01	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	. : <q:01< td=""><td>mg/E</td><td>0.005</td><td>EPA 625</td></q:01<>	mg/E	0.005	EPA 625
1,3-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
1:4-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
2,4,6-Trichlorophenol	< 0.02	mg/L	0.010	The state of the s
2,4-Dichlorophenol	<0.02	mg/L	0.010	EPA 625
2,4-Dimethylphenol	<0.02	mg/L	0.010	The second secon
2.4-Dinitrophenol	<0.04	mg/L:	0.020	
2,4-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2-Chloronaphthalene	< 0.01	mg/L	0.005	EPA 625
2-Chlorophenol	≥0.02	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.02	mg/L	0.010	EPA 625
2-Nitrophenol	<0.02	mg/L	0.010	
3,3'-Dichlorobenzidine	< 0.01	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	<0.01	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	< 0.02	√ mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	< 0.01	mg/L	0.005	EPA 625
4-Nitrophenol	< 0.04	mg/L	0.020	EPA 625
Acenaphthene	<0.01	mg/L	0.005	EPA 625
Acenaphthylene	< 0.01	mg/L	0.005	EPA 625
Anthracene	< 0.01	mg/L		EPA 625
Azobenzene	< 0.01	mg/L	0.005	EPA 625
Benzidine	<0:02	mg/L	0:010	EPA 625
Benzo(a)anthracene	< 0.01	mg/L	0.005	EF A 625
Benzo(a)pyrene	<0.03	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	<0.01	mg/L	0.005	Ef'A 625
Benzo(g,h,i)perylene	< 0.01	mg/L	0.005	EPA.625
Benzo(k)fluoranthene	<0.01	mg/L	0.005	EI'A 625
	<0:04	mg/L	0.020	EPA 625
Benzyl butyl phthalate	-0.04		Con account	
		116	1111 245777	

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Sample Date/Time 5/26/99 9:45 System ID AD04153 Sample ID LAB990116

Page: 2

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/26/99

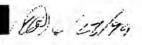
Address/Location: LARSEN PROPERTY Sample Status: REPORT QUEUE

Proj Subcategory:SPECIAL WASTESample Type:GRAI3Sample Point Code:W-4Sample Matrix:GRNDWTRIMS File/Invoice #:3030.000Collected By:CH/PNG

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.01	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	<0.01	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	<0.01	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.02	mg/L	0.010	EPA 625
Chrysene	< 0.01	mg/L	0.005	EPA 625
Di-n-butyl phthalate	< 0.04	mg/E	0.020	EPA 625
Di-n-octyl phthalate	< 0.02	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	<0.01	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.01	mg/L	0.005	EPA 625
Dimethyl phthalate	<0.01	mg/L	0.005	EPA 625
Fluoranthene	< 0.01	mg/L	0.005	EPA 625
Fluorene	<0.01	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.01	mg/L	0.005	EPA 625
Hexachlorobutadiene	<0.01	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	<0.01	mg/L	0.005	EPA 625
Hexachloroethane	<0.01	mg/L	:0:005	EPA 625
Indeno(1,2,3-cd)pyrene	<0.01	mg/L	0.005	EPA 625
Isophorone	-<0.01	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	<0.01	, mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.01	mg/E	0.005	EPA 625
N-Nitrosodiphenylamine	<0.01	mg/L	0.005	EPA 625
Naphthalene	<0.01	mg/L	0.005	EPA 625
Nitrobenzene	<0.01	mg/L	0.005	EPA 625
the property in a second second second second	<0.02	mg/L	0.010	EPA 625
Phenanthrene	<0.01	mg/L	0.005	EPA 625
Phenoi:	<0.02	mg/L	0.010	EPA 625
Pyrene	<0.01	mg/L	0.005	EPA 625
VOLATILE ORGANIC COMPOUNDS	0.01	. 3		
1.1.1.2-Tetrachloroethane	<0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	<0.003	mg/L	0.003	EPA 624
	<0.003	mg/L	0.003	EPA 624
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	< 0.003	mg/L	0.003	EPA 624

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Sample ID LAB990116 System ID AD04153 Sample Date/Time 5/26/99 9:45

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

LARSEN PROPERTY Address/Location:

W-4

SPECIAL WASTE Proj Subcategory:

Sample Point Code:

W-4

3030.000 IMS File/Invoice #:

Sample Type:

Date Received:

Sample Status:

GRAI3 Sample Matrix:

Collected By:

GRNDWTR CH/PNG

REPORT QUEUE

5/26/99

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
	<0.002	mg/C	0.002	EPA 624
1.1-Dichloroethane	<0.003	mg/L	0.003	EPA 624
1,1-Dichloroethene	<0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	<0.005	mg/L	0.005	EPA 624
1,2-Dichloroethane	<0.003	mg/L	-0.003	EPA 624
1,2-Dichloropropane	<0.002	mg/L	0.002	EPA 624
1,3-Dichlorobenzene	<0.002	mg/L:	0.002	EPA 624
1,4-Dichlorobenzene	<0.05	mg/L	0.050	EPA 624
2-Chloroethylvinyl ether	×0.1	mg/L	0.100	EPA 624
Acrolein	<0.05	mg/L	0.050	EPA 624
Acrylonitrile	<0.001	mg/L	0.001	EPA 624
Велдепе	<0.003	mg/L	0.003	EPA 624
Bromodichloromethane	<0.003	mg/L	0.003	EPA 624
Bromoform	<0.01	mg/L	0.010	EPA 624
Bromomethane	< 0.003	mg/L	0:003	EPA 624
Carbon tetrachloride	<0.001	mg/L	0.001	EPA 624
Chlorobenzene	<0.001	mg/L	0.010	EPA 624
Chloroethane	<0.001	mg/L	0.001	EPA 624
Chloroform		mg/E	0.010	EPA:624
Ghloromethane	<0.01	mg/L	0.004	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.005	EPA 624
Dibromochloromethane	<0.005		0.003	EPA 624
Ethylbenzene	<0.003	mg/L	0.004	EPA 624
Methylene chloride	< 0.004	mg/L	0.002	EFA 624
Tetrachloroethene	<0.002	mg/L	0.001	EFA:624
Toluene	<0.001	mg/L	0.002	EPA 624
trans-1,2-Dichloroethene	<0.002	mg/L	0.003	EFA 624
trans-1:3-Dichloropropene	<0.003	mg/L	0.004	EPA 624
Trichloroethene	<0.004	mg/L	0.004	EFA:624
Trichlorofluoromethane	< 0.004	mg/L-	0.050	EF'A 624
Vinyl chloride	<0.05	mg/L	0.030	=(1,1,55.0
NWTPH-Dx	224.5	- W	0.600	NWTPH-Dx
DIESEL RANGE HYDROCARBONS	<0.600	mg/L	0.000	CALLETT CALL
Action of the control		200		-14.4

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656







Sample ID LAB990116 System ID AD04153 Sample Date/Time 5/26/99 9:45 Page: 5/26/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-4 GRAB Sample Type: SPECIAL WASTE Proj Subcategory: GRNDWTR Sample Matrix: W-4 Sample Point Code: CH/F'NG Collected By: IMS File/Invoice #: 3030.000

Comments; LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	<1.20	mg/L	1.20	NWTPH-Dx
NWTPH-GX GASOLINE RANGE HYDROCARBONS	<80.0	mg/L:	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990116

10 6 19 49





Sample ID LAB990117 Sample Date/Time 5/26/99 12:30 System ID AD04154 Page: 5/26/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-5 GRAB Sample Type: SPECIAL WASTE Proj Subcategory: GRNDWTR Sample Matrix: Sample Point Code: W-5 CH/F'NG Collected By: IMS File/Invoice #: 3030.000

Comments: LAB: THE SAMPLE SUBMITTED FOR VOLATILE ORGANICS ANALYSIS WAS NOT PRESERVED. THIS SAMPLE WAS DILUTED BY A FACTOR OF 3.64 FOR SEMI-VOLATILE ORGANICS ANALYSIS. TO REDUCE MATRIX INTERFERENCE, THE SEDIMENT IN THE SAMPLE WAS EXCLUDED FROM THE ALIQUOT EXTRACTED FOR

SEMI-VOLATILE ORGANICS.

Test Parameter	Result	Units	MRL	Method
SEMI-VOLATILE ORGANICS				2012
1,2,4-Trichlorobenzene	< 0.018	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	< 0.018	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	< 0.018	mg/L	0.005	EPA 625
1.4-Dichlorobenzene	< 0.018	mg/L	0.005	EPA 625
2.4.6-Trichlorophenol	< 0.036	mg/L	0.010	EPA 625
2.4-Dichlorophenol	<0.036	mg/L	0.010	EPA 625
2.4-Dimethylphenol	< 0.036	mg/L	0.010	EPA 625
2.4-Dinitrophenol	< 0.073	mg/L	0.020	EPA 625
2.4-Dinitrotoluene	< 0.018	mg/L	0.005	EPA 625
2.6-Dinitrotoluene	< 0.018	mg/L	0.005	EPA 625
2-Chloronaphthalene	< 0.018	mg/L	0.005	EPA 625
2=Chlorophenol	< 0.036	mg/L	0.010	EF'A 625
2-Methyl-4,6-dinitrophenol	< 0.036	mg/L	0.010	EF'A 625
2-Nitrophenol	<0.036	mg/L:	0.010	EF'A 625
3.3'-Dichlorobenzidine	< 0.018	mg/L	0.005	EF'A 625
4 Bromophenylphenyl ether	<0.018	mg/L	0.005	EPA:625
4-Chloro-3-methylphenol	< 0.036	mg/L	0.010	EF'A 625
4-Chlorophenylphenyl ether	< 0.018	mg/L	0.005	EPA 625
4-Nitrophenol	< 0.073	mg/L	0.020	EF A 625
Acenaphthene	< 0.018	mg/L	0.005	EPA 625
Acenaphthylene	<0.018	mg/L	0.005	El'A 625
Anthracene	< 0.018	mg/L	0.005	EPA 625
Azobenzene	<0.018	mg/L	0.005	El'A 625
	<0.036	mg/L	0.010	EPA 625.
Benzidine	<0.018	mg/L	0.005	EPA 625
Benzo(a)anthracene	<0.018	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0.018	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	< 0.018	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	< 0.018	mg/L	0.005	EPA 625
Benzo(k)fluoranthene Benzyl butyl phthalate	< 0.073	mg/L	0.020	EPA 625

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Sample ID LAB990117 Sample Date/Time 5/26/99 12:30 System ID AD04154 Page: 5/26/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-5 GRAB Sample Type: SPECIAL WASTE Proj Subcategory: GRNDWTR Sample Matrix: W-5 Sample Point Code: CH/F'NG Collected By: 3030.000

IMS File/Invoice #: 3030.000

Comments: LAB: THE SAMPLE SUBMITTED FOR VOLATILE ORGANICS ANALYSIS WAS NOT PRESERVED. THIS SAMPLE WAS DILUTED BY A FACTOR OF 3.64 FOR SEMI-VOLATILE ORGANICS ANALYSIS. TO REDUCE MATRIX INTERFERENCE, THE SEDIMENT IN THE SAMPLE WAS EXCLUDED FROM THE ALIQUOT EXTRACTED FOR SEMI-VOLATILE ORGANICS.

Test Parameter	Result	Units	MRL	Method
Dis (2 ablamathayu) mathana	<0.018	mg/L	0.005	EPA 625
Bis(2-chloroethoxy) methane	<0.018	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	<0.018	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.036	mg/L	0:010	
Bis(2-ethylhexyl) phthalate	<0.018	mg/L	0.005	EPA 625
Chrysene Di-n-butyl phthalate	< 0.073	mg/L	0.020	
	< 0.036	mg/L	0.010	EPA 625
Di-n-octyl phthalate	<0.018	mg/L	0.005	EPA 625
Dibenzo(a,h)anthracene	<0.018	mg/L	0.005	EPA 625
Diethyl phthalate	<0.018	mg/L	0.005	EPA 625
Dimethyliphthalate	<0.018	mg/L	0.005	EF'A 625
Fluoranthene	<0.018	mg/L	0.005	EPA 625
- Fluorene	<0.018	mg/L	0.005	EF'A 625
Hexachlorobenzene	<0.018	mg/L	0.005	EPA 625
Hexachlorobutadiene	<0.018	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	<0.018	mg/L	0.005	EPA 625
Hexachloroethane	<0.018	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	<0.018	mg/L	0.005	EPA 625
(sophorone	<0.018	mg/L	0,005	EPA 625
N-Nitrosodi-n-propylamine		mg/L	0.005	EPA 625
N-Nitrosodimethylamine	<0.018	mg/L	0.005	El'A 625
N-Nitrosodiphenylamine	<0.018	_ mg/L	0.005	EPA 625
Naphthalene	< 0.018	mg/L	0.005	EPA 625
Nitrobenzene	<0.018	mg/L	0.040	EPA 625
Pentachlorophenol	<0.036	10 To	0.005	EPA 625
Phenanthrene	<0.018	mg/L	0.010	
Phenol	<0.036	mg/L	0.005	EPA 625
Pyrene	<0.018	mg/L	0.005	
VOLATILE ORGANIC COMPOUNI	os	0.3270	0.005	EPA 624
1.1.1.2-Tetrachloroethane	<0.005	mg/L	0.003	EPA 624
1,1,1-Trichloroethane	<0.003	mg/L	0.003	EPA 624
1.1,2,2-Tetrachloroethane	< 0.003	mg/L	F 0 Det ett - 1	EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	Livioni

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Report Date: 8/29/99

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IMS File/Invoice #:



City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample ID LAB990117 Sample Date/Time 5/26/99 12:30 System ID AD04154 Page: 5/26/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-5 GRAB Sample Type: SPECIAL WASTE Proj Subcategory: Sample Matrix: GRNDWTR W-5 Sample Point Code: CH/F'NG Collected By:

Comments: LAB; THE SAMPLE SUBMITTED FOR VOLATILE ORGANICS ANALYSIS WAS NOT PRESERVED. THIS SAMPLE WAS DILUTED BY A FACTOR OF 3.64 FOR SEMI-VOLATILE ORGANICS ANALYSIS. TO REDUCE MATRIX INTERFERENCE, THE SEDIMENT IN THE SAMPLE WAS EXCLUDED FROM THE ALIQUOT EXTRACTED FOR

SEMI-VOLATILE ORGANICS.

3030.000

Test Parameter	Result	Units	MRL	Method
1,1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
-1.2-Dichlorobenzene	< 0.003	mg/L	0.003	EF A 624
1,2-Dichloroethane	<0.005	mg/L	0.005	EPA 624
1-2-Dichloropropane	<0.003	mg/L	0.003	- EFA 624
1,3-Dichlorobenzene	<0.002	mg/L	0.002	EF'A 624
1.4 Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	<0.05	mg/L	0.050	EPA 624
Acrolein	<0.1	mg/E	0.100	EPA 624
Acrylonitrile	<0.05	mg/L	0.050	EF'A 624
Benzene	<0.001	-mg/L	0.001	EPA 624
· I	<0.003	rng/L	0.003	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	El?A.624
Bromoform	<0.01	mg/L	0.010	EPA 624
Bromomethane	<0.003	mg/L	0.003	EPA 624
Carbon tetrachloride	<0.001	mg/L	0.001	ElºA 624
Chlorobenzene	<0.01	mg/L	0.010	EPA 624
Chloroethane	<0.001	mg/L	0.001	EPA 624
Chloroform	<0.001	mg/L	0.010	EPA 624
Chloremethane	<0.004	mg/L	0.004	EPA 624
cis-1,3-Dichloropropene	<0.005	mg/L -	0:005	EPA 624
- Dibromochloromethane	<0.003	mg/L	0.003	EPA 624
Ethylbenzene	<0.003	mg/L	0.004	EPA 624
Methylene chloride	<0.002	mg/L	0.002	EPA 624
Tetrachloroethene	4 44 44 4	mg/L	0.001	EPA 624
Toluene	<0:001	mg/L	0.002	EPA 624
trans-1,2-Dichloroethene	< 0.002		0.003	EPA 624
trans-1,3-Dichloropropene	<0.003	mg/L mg/L	0.004	EPA 624
Trichloroethene	< 0.004		0.004	EPA 624
Trichlorofluoromethane	<0.004	mg/L	0.050	EPA 624
Vinyl chloride	<0.05	mg/L	0.030	
NWTPH-Dx	4 114		0.650	NWTPH-Dx
DIESEL RANGE HYDROCARBONS	< 0.650	mg/L	0.000	W- 244 2310 11-

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Report Date: 6/29/99

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City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5	/26/99 12:30 System ID AD04154	Sample ID	_AB990117
		Page:	4
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-5	Date Received: Sample Status:	5/26/99 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE W-5 3030,000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR CH/PNG

PORT. WATER POLLUTION LAB

Comments: LAB: THE SAMPLE SUBMITTED FOR VOLATILE ORGANICS ANALYSIS WAS NOT PRESERVED. THIS SAMPLE WAS DILUTED BY A FACTOR OF 3.64 FOR SEMI-VOLATILE ORGANICS ANALYSIS. TO REDUCE MATRIX INTERFERENCE, THE SEDIMENT IN THE SAMPLE WAS EXCLUDED FROM THE ALIQUOT EXTRACTED FOR SEMI-VOLATILE ORGANICS.

Test Parameter Result Units MRL Method

HEAVY OIL RANGE HYDROCARBONS <1.30 mg/L 1.30 NWTPH-Dx

NWTPH-Gx

-GASOLINE RANGE HYDROCARBONS 310 mg/L 80:0 NWTPH-Gx

End of Report for Sample ID: LAB990117





Sample ID LAB990118 Sample Date/Time 5/26/99 11:05 System ID AD04155 Page: Date Received: 5/26/99 Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-6 Sample Type: GRAB SPECIAL WASTE Proj Subcategory: Sample Matrix: GRNDWTR Sample Point Code: W-6 Collected By: CH/PNG IMS File/Invoice #: 3030.000

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
SEMI-VOLATILE ORGANICS				3.7.44
1,2,4-Trichlorobenzene	< 0.01	mg/L	0.005	EFA 625
1.2 Dichlorobenzene	< 0.01	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	< 0.01	mg/L	0.005	EPA 625
1.4-Dichlorobenzene	< 0.01	.mg/L	0.005	EF A 625
2,4,6-Trichlorophenol	< 0.02	mg/L mg/L	0.010	EF'A 625
2.4-Dichlorophenol	<0.02	- mg/L	0.010	EFA 625
2,4-Dimethylphenol	< 0.02	mg/L	0.010	EF'A 625
2.4-Dinitrophenol	<0.04	mg/L	0:020	EPA 625
2,4-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2.6-Dinitrotoluene	<0.01	mg/L	0:005	EPA 625
2-Chloronaphthalene	<0.01	mg/L	0.005	ElºA 625
2-Chlorophenol	<0.02	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.02	mg/L	0.010	EPA 625
2-Nitrophenol	<0:02	mg/L	0.010	EPA:625
3,3'-Dichlorobenzidine	<0.01	mg/L	0.005	ElºA 625
4-Bromophenylphenyl ether	< 0.01	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	<0.02	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	<0.01	mg/L	0.005	EPA 625
	<0.04	mg/L	0.020	EPA 625
4-Nitrophenol	< 0.01	TO A MIN	0.005	EPA 625
Acenaphthene	<0.01	mg/L	0.005	EPA 625
Acenaphthylene	<0.01		0.005	EPA 625
- Anthracene	<0.01	mg/L	0.005	EPA 625
Azobenzene	<0.02	mg/L	0.010	EPA 625
Benzidine	<0.01	mg/L	0.005	EPA 625
Benzo(a)anthracene	< 0.01	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0.01	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	<0.01	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	m 25 1 3	mg/L	0.005	EPA 625
Benzo(k)fluoranthene	<0.01	mg/L	0.020	EPA 625
Benzyl butyl phthalate	<0.04	High	0,020	
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Sample Date/Time 5/26/99 11:05 System ID AD04155 Sample ID LAB990118 Page: 5/26/99 Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-6 GRAB Sample Type: SPECIAL WASTE Proj Subcategory: GRNDWTR Sample Matrix: Sample Point Code: W-6 CH/F'NG Collected By: 3030.000

IMS File/Invoice #: 3030.000 Contected By.

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method	
Bis(2-chloroethoxy) methane	<0.01	rng/L	0.005	EPA 625	
Bis(2-chloroethyl) ether	<0.01	mg/L	0.005	EPA 625	-50
Bis(2-chloroisopropyl) ether	<0.01	mg/L	0.005	EPA 625	
Bis(2-ethylhexyl) phthalate	<0.02		0.010	EPA 625	100
	<0.01	mg/L	0.005	EFA 625	
Chrysene Di-n-butyl phthalate	<0.04	mg/L	0.020	EPA 625	-1.3
	<0.02	mg/L	0.010	EPA 625	
Di-n-octyl phthalate	<0.01	mg/L	0.005	EFA 625	427
Dibenzo(a.h)anthracene	<0.01	mg/L	0.005	- EF'A 625	
Diethyl phthalate	<0.01	mg/L	0.005	EPA 625	4.2
Dimethy) phthalate	<0.01	mg/L	0.005	EPA 625	6 - 2 -
Fluoranthene	<0.01	mg/L	0.005	EPA 625	1.3.
Fluorene	<0.01	mg/L	0.005	El'A 625	
Hexachlorobenzene	<0.01		0.005	EPA 625	1.4.
Hexachlorobutadiene	<0.01	mg/L	0.005	EPA 625	
Hexachlorocyclopentadiene	<0.01	mg/L	0.005	EPA 625	or begin
Hexachloroethane	<0.01	mg/L	0.005	EPA 625	
Indeno(1,2,3-cd)pyrene	<0.01	mg/L	0.005	EPA 625	T
Isophorone	<0.01	mg/L	0.005	EPA 625	
N-Nitrosodi-n-propylamine	< 0.01	4 33 But 5	0.005	EPA 625	143
N-Nitrosodimethylamine	<0.01	mg/L	0.005	EPA 625	
N-Nitrosodiphenylamine	<0.01	mg/L	0.005	EPA 625	52 .
Naphthalene	<0.01	mg/L	0.005	EPA 625	
Nitrobenzene	the second secon	mg/L	0.010	EPA 625	
Pentachlorophenol	<0.02	mg/L	0.005	EPA 625	
Phenanthrene	<0.01		0.010	EPA 625	
Phenol	<0.02	14.50	0.005	EPA 625	
Pyrene	< 0.01	mg/L	0.003	- 11 11 1 TO	
VOLATILE ORGANIC COMPOUNDS	0.000	Section .	0.005	EPA 624	
1,1,1,2-Tetrachloroethane	< 0.005	mg/L	0.003	EPA 624	
1,1,1-Trichloroethane	<0.003	mg/L	0.003	EPA 624	
1,1,2,2-Tetrachloroethane	< 0.003	mg/L		EPA 624	
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	217,024	
			y y	0 55	

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Sample ID LAB990118 Sample Date/Time 5/26/99 11:05 System ID AD04155 Page: Date Received: 5/26/99 Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Sample Status: LARSEN PROPERTY Address/Location: W-6 Sample Type: GRAB SPECIAL WASTE Proj Subcategory: GRNDWTR Sample Matrix: W-6 Sample Point Code: CH/FNG Collected By: IMS File/Invoice #: 3030,000 Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
	<0.002	mg/Li	0.002	EPA 624
1,1-Dichloroethane	<0.003	mg/L	0.003	EPA 624
1,1-Dichloroethene	<0.003	mg/L	0.003	EFA 624
1,2-Dichlorobenzene	<0.005	mg/L	0.005	EF'A 624
1,2-Dichloroethane	<0.003	mg/L	0.003	EPA 624
1,2-Dichloropropane	<0.002	mg/L	0.002	EF'A 624
1,3-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
1 4-Dichlorobenzene		mg/L	0.050	EF'A 624
2-Chloroethylvinyl ether	<0.05	mg/L	0.100	EPA 624
Acrolein	<0.1	mg/L	0.050	EPA 624
Acrylonitrile	<0.05		0.001	EPA 624
Benzene:-	<0.001	mg/L	0.003	El'A 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	<0.003	mg/L	0.010	EPA 624
Bromomethane	<0.01	mg/L	0.003	EPA 624
Carbon tetrachloride	<0.003:::-	mg/L	0.001	EPA 624
Chlorobenzene	<0.001	mg/L	0.010	EPA 624:
Chlorgethane	<0.01	mg/L	0.001	EPA 624
Chloroform	< 0.001	mg/L	0.010	EPA 624
Ghloromethane	<0.01	mg/L	0.004	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L		EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005	EPA 624
Ethylbenzene	<0.003	mg/L	0.003	EPA 624
Methylene chloride	< 0.004	mg/L	0.004	EPA 624
Tetrachloroethene	<0.002.	mg/L	0.002	EPA 624
Toluene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002	EPA 624
trans-1.3-Dichloropropene	< 0.003.	mg/L:	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	
Trichlorofluoromethane	< 0.004	mg/L	0.004	EPA 624
Vinyl chloride	< 0.05	mg/L	0.050	EPA 624
NWTPH-Dx			0.544	MACEDIA De
DIESEL RANGE HYDROCARBONS	< 0.700	mg/L	0.700	NWTPH-Dx
DIESEL-RANGE HTDROCARBONS	200,500	As and		\$4. 115.83
- V -10-10 -10-1		Cook has been	Report Date:	6/29/99

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656





Sample Date/Time 5	/26/99 11:05 System ID AD04155	Sample ID	LAB990118
	and the second s	Page:	4
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP LARSEN PROPERTY W-6	Date Received: Sample Status:	5/26/99 REPORT QUEUE
roj Subcategory: SPECIAL WASTE ample Point Code: W-6 AS File/Invoice #: 3030.000 comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FO		Sample Type: Sample Matrix: Collected By:	GRAI3 GRNDWTR CH/PNG

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	<1.40	mg/L	1.40	NWTPH-Dx
NWTPH-GX GASOLINE RANGE HYDROCARBONS		mg/£	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990118



City of Portland
Bureau of Environmental Services
Chain of Custody

CENTER CODE: 14522110	PROJECT 6064
Project Name: SPECIAL WASTE MISC SAMP	Date: 5/18/99
Project Subcat. SPECIAL WASTE	Page: / of /
File Number: 3030.000	Collected by: CH/GK
Matrix: GRNDWTR	PNG

Cilalii	of Custody				Matrix:	GRNDWTR			PNG
Samula ID No.	Location (Rep Address 1)	Sample Type	Point Code	Date	Time		Tests	Requested	8260
AB 990109		1 (500)	TP-	SILL		PCBs by 8082	VOCs by 824 8260	MMHCID,	Other QUANTIRY
1-11	LARSEN /TEST PIT 1	S	1-17	5/18/99	9:10		SVOCs by 825	Other:	Pesticides/PCBs by 8081
AB 990110 -			TP-	51.	16	PCBs by 8082	VOCs by 524 8260	MWHCID'	OTHEROMANTEY
AD 990110	LARSEN HEER P. T 2	S	2-17	1/8/99	10:30	RCRA Metals'	SVOCs by 625	X Other:	Pesticides/PCBs by 8081
AD 000111	7,000,177		TP-			PCBs by 8082	VOCs by 624 8260	MWHCID!	OTHERDANTEY
AB 990111	LARSON /TEST PIT 3	S	2-13	7/8/99	10:50		SVOCs by 625	Other:	Pesticides/PCBs by 8081
	LARSEN /TESTPIT LARSEN /TESTPIT Z LARSEN /TESTPIT 3 LARSEN /TESTPIT 3		TP- 5-8			PCBs by 8082	VOCs by 824 8260	NMHCID ₅	Other PLANTIFY
AB 990112	LARGEN/TESTPH 5	S	2-8	1/8/99	12:00		SVOCs by 625	X Other:	Pesticides/PCBs by 8081
5 0	1 1 1		100	1		PCBs by 8082	VOCs by 624	NWHCID*	Other:
						RCRA Metals'	SVOCs.by 625	Other:	Pasticides/PCBs by 8081
					1	PCBs by 8082	VOCs by 624	NWHCID'	Other:
						RCRA Metals	SVOCs by 625	Other:	Pesticides/PCBs by 8081
						PC8s by 8082	VOCs by 624	NWHCID*	Other:
						RCRA Metals'	SVOCs by 625	Other:	Pesticides/PCBs by 8081
						PCBs by 8082	VOCs by 624	NWHCID	Other:
		146				RCRA Metals	SVOCs by 625	Other:	Pesticides/PCBs by 8081
						PCBs by 8082	VOCs by 624	NWHCID'	Other:
						RCRA Metals'	SVOCs by 625	Other:	Pesticides/PCBs by 8081
			1			PCBs by 8082	VOCs by 624	NWHC.D*	Other:
						RCRA Metals	SVOCs by 625	Other;	Pesticides/PCBs by 8081
ı						' As, Ba, Cd, Cr, ' run NWTPHDX	Pb, Hg, Se, Ag and NWTPHGX if	detects on NWI	HCID
inquished By 1:	Received By 1:	100	ne:	Relinqu	shed By 2	Tume:	Received By		Time:
Sted Harne: OSCIFA	Dete: Proposed Name: W. M. A.	Di	1:45	Printed Name	i.	Date:	Printed Name:		Date:

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City of Dortland

City of Fortiana	
Bureau of Environmental	Services
Chain of Custody	

CENTER CODE: 14522110 Date: 5/26/99 Project Name: SPECIAL WASTE MISC SAMP Project Subcat. SPECIAL WASTE Page: Collected by: CRAIL HULTGES File Number: 3030,000 Matrix: GRNDWTR

PROTECT

05/17/99

10:25 LARSEN PROPERTY Sample Point **Tests Requested** Code Date Time Location (Rep Address 1) Type Sample ID No. NWHCID' Xother: QUANTIBY VOCs by 624 PCBs by 8082 ₩503 LAB 990113 w 10-8:30 SVOCs by 625 Pesticides/PCBs by 8081 RCRA Metals Other Other QU AND NEY NWHCID, PCBs by 8082 VOCs by 624 823 LAB 990114 W W.7 Pesticides/PCBs by 8081 RCRA Metals SVOCs by 625 Other: MUMHCID! PCBs by 8082 VOCs by 624 Other QUARTIET W W-3 LAB 990115 Tother: Pesticides/PCBs by 8081 RCRA Metals SVOCs by 625 40the QUANTIET NWHCID' VOCs by 624 PCBs by 8082 W 19:45 LAB 990116 W.4 Pesticides/PCBs by 8081 RCRA Metals SVOCs by 625 Other: D'NWHCID' AOther UNITRY PCBs by 8082 VOCs by 624 W LAB 990117 W.5 12:00 Pesticides/PCBs by 8081 RCRA Metals SVOCs by 625 Other: SEWERAGE NWHCID' Other OUNTIFT PCBs by 8082 VOCs by 624 LAB 990118 W 11:05 Pesticides/PCBs by 8081 SVOCs by 625 Other: **RCRA Metals** NWHCID? PCBs by 8082 VOCs by 624 Other SYSTEM Pesticides/PCBs by 8081 Other: RCRA Metals SVOCs by 625 NWHCID! VOCs by 624 Other: PCBs by 8082 Other: Pesticides/PCBs by 8081 RCRA Metals SVOCs by 625 NWHCID' PCBs by 8082 VOCs by 624 Other: RCRA Metals SVOCs by 625 Other: Pesticides/PCBs by 8081 NWHC.D' Other: PCBs by 8082 VOCs by 624 Pesticides/PCBs by 8081 Other: RCRA Metals SVOCs by 625 As, Ba, Cd, Cr, Pb, Hq, Se, Ag run NWTPHDX and NWTPHGX if detects on NWHCID Received By 2: Relinguished By 2: Relinguished By 1: Received By 1: Signature: Time: Z'.30 12:30 Printed Name: Date: rinted Name: Data 图002

PU6





Page:

Date Received: 7/28/99 Sample Status: INACTIVE

Report Date: 8/17/99

Sample ID: LAB990184 9:25 System ID: AD06104 Sample Date/Time: 7/28/99

Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location:

GRAB Sample Type: SPECIAL WASTE

Proj. Subcategory: Sample Matrix: GRNDWTR Sample Point Code: Collected By: 3030.000 IMS File/Invoice #:

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
ORG SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1.3-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1.4-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
2,4,6-Trichlorophenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dichlorophenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dimethylphenol	0.02	mg/L	0.010	EPA 625
2,4-Dinitrophenol	< 0.02	mg/L	0.020	EPA 625
2,4-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2-Chloronaphthalene	< 0.005	mg/L	0.005	EPA 625
2-Chlorophenol	< 0.01	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	< 0.01	mg/L	0.010	EPA 625
2-Nitrophenol	< 0.01	mg/L	0.010	EPA 625
3,3'-Dichlorobenzidine	< 0.005	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	< 0.01	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Nitrophenol	<0.02	mg/L	0.020	EPA 625
Acenaphthene	< 0.005 -	mg/L	0.005	EPA 625
Acenaphthylene	< 0.005	mg/L	0.005	EPA 625
Anthracene	<0.005	mg/L	0.005	EPA 625
Azobenzene	< 0.005	mg/L	0.005	EPA 625
Benzidine	<0.01	mg/L	0.010	EPA 625
Benziolne Benzo(a)anthracene	< 0.005	mg/L	0.005	EPA 625
	<0.005	mg/L	0.005	EPA 625
Benzo(a)pyrene	< 0.005	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	< 0.005	mg/L	0.005	- EPA 625
Benzo(g,h,i)perylene	<0.005	mg/L	0.005	EPA 625
Benzo(k)fluoranthene Benzyl butyl phthalate	<0.02	mg/L	0.020	EPA 625





Sample Date/Time: 7/28/99 9:25 System ID: AD06104 Sample ID: LAB990184

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location:

Date Received: 7/28/99

Sample Status: INACTIVE

Proj. Subcategory:

SPECIAL WASTE

Sample Type: GRAB

Sample Point Code:

Sample Matrix: GRNDWTR

Report Date: 8/17/99

IMS File/Invoice #: 3030.000 Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	< 0.005	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.01	mg/L	0.010	EPA 625
Chrysene	< 0.005	mg/L	0.005	EPA 625
Di-n-butyl phthalate	< 0.02	mg/L	0.020	EPA 625
Di-n-octyl phthalate	< 0.01	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	< 0.005	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Dimethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Fluoranthene	< 0.005	mg/L	0.005	EPA 625
Fluorene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	< 0.005	mg/L	0.005	EPA 625
Hexachloroethane	< 0.005	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	< 0.005	mg/L	0.005	EPA 625
Isophorone	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	< 0.005	mg/L	0.005	EPA 625
Naphthalene	< 0.005 -	mg/L	0.005	EPA 625
Nitrobenzene	< 0.005	mg/L	0.005	EPA 625
Pentachlorophenol	< 0.01	mg/L	0.010	EPA 625
Phenanthrene	< 0.005	mg/L	0.005	EPA 625
Phenol	< 0.01	mg/L	0.010	EPA 625
Pyrene	< 0.005	mg/L	0.005	EPA 625
ORG VOLATILE ORGANIC COMPOL	INDS	7.00		
1,1,1,2-Tetrachloroethane	< 0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	- EPA 624
1,1,2,2-Tetrachloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	EPA 624





Sample ID: LAB990184 Sample Date/Time: 7/28/99 9:25 System ID: AD06104

Page:

Date Received: 7/28/99

Sample Status: INACTIVE

Proj. Subcategory:

Address/Location:

SPECIAL WASTE

Sample Type:

GRAB Sample Matrix: GRNDWTR

Sample Point Code: IMS File/Invoice #:

3030.000

Proj./Company Name: SPECIAL WASTE MISC SAMP

Collected By:

CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
1,1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
1,4-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050	EPA 624
Acrolein	<0.1	mg/L	0.100	EPA 624
Acrylonitrile	< 0.05	mg/L	0.050	EPA 624
Benzene	0.001	mg/L	0.001	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L	0.003	EPA 624
Bromomethane	< 0.01	mg/L	0.010	EPA 624
Carbon tetrachloride	< 0.003	mg/L	0.003	EPA 624
Chlorobenzene	0.009	mg/L	0.001	EPA 624
Chloroethane	0.012	mg/L	0.010	EPA 624
Chloroform	< 0.001	mg/L	0.001	EPA 624
Chloromethane	< 0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004	EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005	EPA 624
Ethylbenzene	< 0.003 -	-mg/L	0.003	EPA 624
Methylene chloride	< 0.004	mg/L	0.004	EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002	EPA 624
Toluene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002	EPA 624
trans-1,3-Dichloropropene	< 0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	< 0.004	mg/L	0.004	EPA 624
Vinyl chloride	< 0.05	mg/L	0.050	- EPA 624
SUB NWTPH-Dx	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
DIESEL RANGE HYDROCARBONS	1.84	mg/L	0.250	NWTPH-Dx

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 Fax (503) 823-5656

Report Date: 8/17/99





Sample Date/Time: 7/28/99 9:25 System ID: AD06104 Sample ID: LAB990184

Page:

Date Received: 7/28/99

Sample Status: INACTIVE

Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: W1

Sample Type:

GRAB

Proj. Subcategory: Sample Point Code: SPECIAL WASTE

Sample Matrix: GRNDWTR

IMS File/Invoice #:

3030.000

CH

Collected By:

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS SUB NWTPH-Gx	1.02	mg/L	0.500	NWTPH-Dx
GASOLINE RANGE HYDROCARBONS	125	μg/L	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990184

Report Date: 8/17/99





Sample Date/Time: 7/28/99 11:25 System ID: AD06105 Sample ID: LAB990185

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

3030.000

Address/Location:

Date Received: 7/28/99 Sample Status: INACTIVE

Sample Type: GRAB SPECIAL WASTE Proj. Subcategory:

Sample Point Code:

IMS File/Invoice #:

Sample Matrix: GRNDWTR

Report Date: 8/17/99

Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
ORG SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
2,4,6-Trichlorophenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dichlorophenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dimethylphenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dinitrophenol	< 0.02	mg/L	0.020	EPA 625
2,4-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2-Chloronaphthalene	< 0.005	mg/L	0.005	EPA 625
2-Chlorophenol	< 0.01	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	< 0.01	mg/L	0.010	EPA 625
2-Nitrophenol	< 0.01	mg/L	0.010	EPA 625
3,3'-Dichlorobenzidine	< 0.005	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	< 0.01	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Nitrophenol	< 0.02	mg/L	0.020	EPA 625
Acenaphthene	0.01 -	mg/L	0.005	EPA 625
Acenaphthylene	< 0.005	mg/L	0.005	EPA 625
Anthracene	< 0.005	mg/L	0.005	EPA 625
Azobenzene	< 0.005	mg/L	0.005	EPA 625
Benzidine	< 0.01	mg/L	0.010	EPA 625
Benzo(a)anthracene	< 0.005	mg/L	0.005	EPA 625
Benzo(a)pyrene	< 0.005	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	< 0.005	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	< 0.005	mg/L	0.005	- EPA 625
Benzo(k)fluoranthene	< 0.005	mg/L	0.005	EPA 625
Benzyl butyl phthalate	< 0.02	mg/L	0.020	EPA 625





Sample Date/Time: 7/28/99 11:25 System ID: AD06105 Sample ID: LAB990185

Page:

Report Date: 8/17/99

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Sample Status: INACTIVE

Date Received: 7/28/99

W2

Sample Type:

GRAB

Proj. Subcategory: Sample Point Code: SPECIAL WASTE

Sample Matrix: GRNDWTR

IMS File/Invoice #:

3030.000

Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL		Method
Bis(2-chloroethoxy) methane	<0.005	mg/L	0.005		EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L	0.005		EPA 625
Bis(2-chloroisopropyl) ether	< 0.005	mg/L	0.005		EPA 625
Bis(2-ethylhexyl) phthalate	< 0.01	mg/L	0.010		EPA 625
Chrysene	< 0.005	mg/L	0.005		EPA 625
Di-n-butyl phthalate	< 0.02	mg/L	0.020		EPA 625
Di-n-octyl phthalate	< 0.01	mg/L	0.010		EPA 625
Dibenzo(a,h)anthracene	< 0.005	mg/L	0.005		EPA 625
Diethyl phthalate	< 0.005	mg/L	0.005	*	EPA 625
Dimethyl phthalate	< 0.005	mg/L	0.005		EPA 625
Fluoranthene	< 0.005	mg/L	0.005		EPA 625
Fluorene	0.01	mg/L	0.005		EPA 625
Hexachlorobenzene	< 0.005	mg/L	0.005		EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0.005		EPA 625
Hexachlorocyclopentadiene	< 0.005	mg/L	0.005		EPA 625
Hexachloroethane	< 0.005	mg/L	0.005		EPA 625
Indeno(1,2,3-cd)pyrene	< 0.005	mg/L	0.005		EPA 625
Isophorone	< 0.005	mg/L	0.005		EPA 625
N-Nitrosodi-n-propylamine	< 0.005	mg/L	0.005		EPA 625
N-Nitrosodimethylamine	< 0.005	mg/L	0.005		EPA 625
N-Nitrosodiphenylamine	< 0.005	mg/L	0.005		EPA 625
Naphthalene	< 0.005 -	·mg/L	0.005		EPA 625
Nitrobenzene	< 0.005	mg/L	0.005		EPA 625
Pentachlorophenol	<0.01	mg/L	0.010		EPA 625
Phenanthrene	< 0.005	mg/L	0.005		EPA 625
Phenol	< 0.01	mg/L	0.010		EPA 625
Pyrene	< 0.005	mg/L	0.005		EPA 625
ORG VOLATILE ORGANIC COMPOL					
1,1,1,2-Tetrachloroethane	<0.005	mg/L	0.005		EPA 624
1.1.1-Trichloroethane	< 0.003	mg/L	0.003		EPA 624
1,1,2,2-Tetrachloroethane	< 0.003	mg/L	0.003		EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003		EPA 624





Sample Date/Time: 7/28/99 11:25 System ID: AD06105 Sample ID: LAB990185

Page:

Date Received: 7/28/99

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

0

Sample Status: INACTIVE

Proj. Subcategory:

SPECIAL WASTE

Sample Type: Sample Matrix: GRNDWTR

GRAB

Sample Point Code:

3030.000

Collected By:

CH

IMS File/Invoice #:

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
1.1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
1,4-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050	EPA 624
Acrolein	< 0.1	mg/L	0.100	EPA 624
Acrylonitrile	< 0.05	mg/L	0.050	EPA 624
Benzene	< 0.001	mg/L	0.001	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L	0.003	EPA 624
Bromomethane	< 0.01	mg/L	0.010	EPA 624
Carbon tetrachloride	< 0.003	mg/L	0.003	EPA 624
Chlorobenzene	< 0.001	mg/L	0.001	EPA 624
Chloroethane	< 0.01	mg/L	0.010	EPA 624
Chloroform	< 0.001	mg/L	0.001	EPA 624
Chloromethane	< 0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004	EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005	EPA 624
Ethylbenzene	< 0.003	mg/L	0.003	EPA 624
Methylene chloride	< 0.004	mg/L	0.004	EPA 624
Tetrachloroethene	<0.002	mg/L	0.002	EPA 624
Toluene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002	EPA 624
trans-1,3-Dichloropropene	< 0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	< 0.004	mg/L	0.004	EPA 624
Vinyl chloride	<0.05	mg/L	0.050	- EPA 624
SUB NWTPH-Dx DIESEL RANGE HYDROCARBONS	0.599	mg/L	0.250	NWTPH-Dx

Report Date: 8/17/99





Sample Date/Time: 7/28/99 11:25 System ID: AD06105 Sample ID: LAB990185

Page:

Date Received: 7/28/99

Sample Status: INACTIVE

W2 SPECIAL WASTE

Sample Type: GRAB Sample Matrix: GRNDWTR

CH Collected By:

Proj. Subcategory: Sample Point Code: IMS File/Invoice #:

Address/Location:

3030.000

Proj./Company Name: SPECIAL WASTE MISC SAMP

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	<0.500	mg/L	0.500	NWTPH-Dx
SUB NWTPH-Gx GASOLINE RANGE HYDROCARBONS		μg/L	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990185

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Report Date: 8/17/99





Sample Date/Time: 7/28/99 10:00 System ID: AD06106 Sample ID: LAB990186

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Date Received: 7/28/99 Sample Status: INACTIVE

Proj. Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code:

Sample Matrix: GRNDWTR

IMS File/Invoice #:

3030.000

Collected By:

CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
ORG SEMI-VOLATILE ORGANICS	< 0.005	mg/L	0.005	EPA 625
1,2,4-Trichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	<0.003	mg/L	0.010	EPA 625
2,4,6-Trichlorophenol	<0.01	mg/L	0.010	EPA 625
2,4-Dichlorophenol	<0.01	mg/L	0.010	EPA 625
2,4-Dimethylphenol	<0.02	mg/L	0.020	EPA 625
2,4-Dinitrophenol	< 0.005	mg/L	0.005	EPA 625
2,4-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2-Chloronaphthalene	< 0.01	mg/L	0.010	EPA 625
2-Chlorophenol	<0.01	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.01	mg/L	0.010	EPA 625
2-Nitrophenol	< 0.005	mg/L	0.005	EPA 625
3,3'-Dichlorobenzidine	< 0.005	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	< 0.01	mg/L	0.010	EPA 625
4-Chloro-3-methylphenol	< 0.005	mg/L	0.005	EPA 625
4-Chlorophenylphenyl ether	<0.005	mg/L	0.020	EPA 625
4-Nitrophenol	<0.02	mg/L	0.005	EPA 625
Acenaphthene	<0.005	mg/L	0.005	EPA 625
Acenaphthylene	<0.005	mg/L	0.005	EPA 625
Anthracene	<0.005	mg/L	0.005	EPA 625
Azobenzene	<0.005	mg/L	0.010	EPA 625
Benzidine		mg/L	0.005	EPA 625
Benzo(a)anthracene	<0.005	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0.005		0.005	EPA 625
Benzo(b)fluoranthene	<0.005	mg/L mg/L	0.005	- EPA 625
Benzo(g,h,i)perylene	<0.005	mg/L	0.005	EPA 625
Benzo(k)fluoranthene	<0.005		0.020	EPA 625
Benzyl butyl phthalate	<0.02	mg/L	0.020	

Report Date: 8/17/99 6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 Fax (503) 823-5656





Sample Date/Time: 7/28/99 10:00 System ID: AD06106 Sample ID: LAB990186

Page: 2

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: W3

Date Received: 7/28/99 Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #: 3030.000

Sample Type: GRAB

Sample Matrix: GRNDWTR

Report Date: 8/17/99

Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

est Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.005	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.01	mg/L	0.010	EPA 625
Chrysene	< 0.005	mg/L	0.005	EPA 625
Di-n-butyl phthalate	< 0.02	mg/L	0.020	EPA 625
Di-n-octyl phthalate	< 0.01	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	< 0.005	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Dimethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Fluoranthene	< 0.005	mg/L	0.005	EPA 625
Fluorene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	< 0.005	mg/L	0.005	EPA 625
Hexachloroethane	< 0.005	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	< 0.005	mg/L	0.005	EPA 625
Isophorone	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	< 0.005	mg/L	0.005	EPA 625
Naphthalene	< 0.005 -	mg/L	0.005	EPA 625
Nitrobenzene	< 0.005	mg/L	0.005	EPA 625
Pentachlorophenol	< 0.01	mg/L	0.010	EPA 625
Phenanthrene	< 0.005	mg/L	0.005	EPA 625
Phenol	< 0.01	mg/L	0.010	EPA 625
Pyrene	< 0.005	mg/L	0.005	EPA 625
RG VOLATILE ORGANIC COMPOL				
1,1,1,2-Tetrachloroethane	< 0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	- EPA 624
1.1.2,2-Tetrachloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	EPA 624





Sample Date/Time: 7/28/99 10:00 System ID: AD06106 Sample ID: LAB990186

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: W3 Sample Status: INACTIVE

Date Received: 7/28/99

Proj. Subcategory:

Sample Point Code:

SPECIAL WASTE

Sample Type: GRAB

IMS File/Invoice #:

3030.000

Sample Matrix: GRNDWTR

Collected By:

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
1.1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1.1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	0.003	mg/L	0.003	EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
1,4-Dichlorobenzene	<0.002	mg/L	0.002	EPA 624
	< 0.05	mg/L	0.050	EPA 624
2-Chloroethylvinyl ether	<0.1	mg/L	0.100	EPA 624
Acrolein	<0.05	mg/L	0.050	EPA 624
Acrylonitrile	< 0.001	mg/L	0.001	EPA 624
Benzene	< 0.003	mg/L	0.003	EPA 624
Bromodichloromethane	<0.003	mg/L	0.003	EPA 624
Bromoform	<0.01	mg/L	0.010	EPA 624
Bromomethane	< 0.003	mg/L	0.003	EPA 624
Carbon tetrachloride	<0.001	mg/L	0.001	EPA 624
Chlorobenzene	<0.01	mg/L	0.010	EPA 624
Chloroethane	<0.001	mg/L	0.001	EPA 624
Chloroform	<0.01	mg/L	0.010	EPA 624
Chloromethane	<0.004	mg/L	0.004	EPA 624
cis-1,3-Dichloropropene	< 0.005	mg/L	0.005	EPA 624
Dibromochloromethane	<0.003	-mg/L	0.003	EPA 624
Ethylbenzene	<0.003	mg/L	0.004	EPA 624
Methylene chloride	<0.004	mg/L	0.002	EPA 624
Tetrachloroethene	<0.002	mg/L	0.001	EPA 624
Toluene	F F F C C C C C C C C C C C C C C C C C	mg/L	0.002	EPA 624
trans-1,2-Dichloroethene	<0.002	mg/L	0.003	EPA 624
trans-1,3-Dichloropropene	< 0.003		0.004	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	<0.004	mg/L	0.050	- EPA 624
Vinyl chloride	<0.05	mg/L	0.050	207132
SUB NWTPH-Dx DIESEL RANGE HYDROCARBONS	0.656	mg/L	0.250	NWTPH-Dx





Sample Date/Time: 7/28/99 10:00 System ID: AD06106 Sample ID: LAB990186

Page: 4

Proj./Company Name: SPECIAL WASTE MISC SAMP

3030.000

Address/Location: W3

Date Received: 7/28/99

Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE

Sample Point Code: IMS File/Invoice #:

0

Sample Type: GRAB

Sample Matrix: GRNDWTR

Report Date: 8/17/99

Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	0.538	mg/L	0.500	NWTPH-Dx
SUB NWTPH-Gx GASOLINE RANGE HYDROCARBONS	234	μg/L	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990186





Sample Date/Time: 7/28/99 10:50 System ID: AD06107 Sample ID: LAB990187

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Date Received: 7/28/99

Sample Status: INACTIVE

Report Date: 8/17/99

Proj. Subcategory:

SPECIAL WASTE

Sample Type: GRAB

Sample Matrix: GRNDWTR Sample Point Code: Collected By: IMS File/Invoice #: 3030.000

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
ORG SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	< 0.005	mg/L	0.005	EPA 625
2.4.6-Trichlorophenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dichlorophenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dimethylphenol	< 0.01	mg/L	0.010	EPA 625
2,4-Dinitrophenol	< 0.02	mg/L	0.020	EPA 625
2.4-Dinitrotoluene	< 0.005	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	< 0.005	mg/L -	0.005	EPA 625
2-Chloronaphthalene	< 0.005	mg/L	0.005	EPA 625
2-Chlorophenol	< 0.01	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	< 0.01	mg/L	0.010	EPA 625
2-Nitrophenol	< 0.01	mg/L	0.010	EPA 625
3,3'-Dichlorobenzidine	< 0.005	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	< 0.01	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	< 0.005	mg/L	0.005	EPA 625
4-Nitrophenol	< 0.02	mg/L	0.020	EPA 625
Acenaphthene	< 0.005	mg/L	0.005	EPA 625
Acenaphthylene	< 0.005	mg/L	0.005	EPA 625
Anthracene	< 0.005	mg/L	0.005	EPA 625
Azobenzene	< 0.005	mg/L	0.005	EPA 625
Benzidine	< 0.01	mg/L	0.010	EPA 625
Benzo(a)anthracene	< 0.005	mg/L	0.005	EPA 625
Benzo(a)pyrene	< 0.005	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	< 0.005	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	< 0.005	mg/L	0.005	- EPA 625
Benzo(k)fluoranthene	< 0.005	mg/L	0.005	EPA 625
Benzyl butyl phthalate	< 0.02	mg/L	0.020	EPA 625





Report Date: 8/17/99

Sample Date/Time: 7/28/99 10:50 System ID: AD06107 Sample ID: LAB990187

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Date Received: 7/28/99
Sample Status: INACTIVE

Address/Location: W4 Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: GRNDWTR

IMS File/Invoice #: 3030.000 Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.005	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.01	mg/L	0.010	EPA 625
Chrysene	< 0.005	mg/L	0.005	EPA 625
Di-n-butyl phthalate	< 0.02	mg/L	0.020	EPA 625
Di-n-octyl phthalate	< 0.01	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	< 0.005	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Dimethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Fluoranthene	< 0.005	mg/L	0.005	EPA 625
Fluorene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	< 0.005	mg/L	0.005	EPA 625
Hexachloroethane	< 0.005	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	< 0.005	mg/L	0.005	EPA 625
Isophorone	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	< 0.005	mg/L	0.005	EPA 625
Naphthalene	< 0.005	mg/L	0.005	EPA 625
Nitrobenzene	< 0.005	mg/L	0.005	EPA 625
Pentachlorophenol	< 0.01	mg/L	0.010	EPA 625
Phenanthrene	< 0.005	mg/L	0.005	EPA 625
Phenol	< 0.01	mg/L	0.010	EPA 625
Pyrene	< 0.005	mg/L	0.005	EPA 625
ORG VOLATILE ORGANIC COMPOL				
1.1.1.2-Tetrachloroethane	<0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	- EPA 624
1,1,2,2-Tetrachloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	EPA 624





Sample Date/Time: 7/28/99 10:50 System ID: AD06107 Sample ID: LAB990187

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

W4

Date Received: 7/28/99 Sample Status: INACTIVE

Proj. Subcategory: Sample Point Code:

IMS File/Invoice #:

SPECIAL WASTE 0 3030.000 Sample Type: GRAB

Sample Matrix: GRNDWTR

Collected By: CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
1,1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
1,4-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050	EPA 624
Acrolein	< 0.1	mg/L	0.100	EPA 624
Acrylonitrile	< 0.05	mg/L	0.050	EPA 624
Benzene	< 0.001	mg/L	0.001	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L	0.003	EPA 624
Bromomethane	< 0.01	mg/L	0.010	EPA 624
Carbon tetrachloride	< 0.003	mg/L	0.003	EPA 624
Chlorobenzene	< 0.001	mg/L	0.001	EPA 624
Chloroethane	< 0.01	mg/L	0.010	EPA 624
Chloroform	< 0.001	mg/L	0.001	EPA 624
Chloromethane	< 0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004	EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005	EPA 624
Ethylbenzene	< 0.003 -	mg/L	0.003	EPA 624
Methylene chloride	< 0.004	mg/L	0.004	EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002	EPA 624
Toluene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002	EPA 624
trans-1,3-Dichloropropene	< 0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	< 0.004	mg/L	0.004	EPA 624
Vinyl chloride	< 0.05	mg/L	0.050	- EPA 624
SUB NWTPH-Dx	12/42	V		
DIESEL RANGE HYDROCARBONS	0.693	mg/L	0.250	NWTPH-Dx

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 Fax (503) 823-5656 Rep

Report Date: 8/17/99





Sample Date/Time: 7/28/99 10:50 System ID: AD06107 Sample ID: LAB990187

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Date Received: 7/28/99 Sample Status: INACTIVE

W4

Proj. Subcategory:

SPECIAL WASTE 0

Sample Type: Sample Matrix: GRNDWTR

GRAB

Sample Point Code: IMS File/Invoice #:

3030.000

Collected By:

CH

Comments: NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE

CONSISTENT WITH TYPICAL PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	0.651	mg/L	0.500	NWTPH-Dx
SUB NWTPH-GX GASOLINE RANGE HYDROCARBONS		µg/L	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990187

Report Date: 8/17/99





Sample ID: LAB990188 Sample Date/Time: 7/28/99 12:30 System ID: AD06108

Page:

Date Received: 7/28/99

Sample Status: INACTIVE

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #:

Proj. Subcategory:

3030.000

Sample Type:

GRAB

Sample Matrix: GRNDWTR

Report Date: 8/17/99

Collected By: CH

Comments: LAB: BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE ORGANIC TARGET ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE, NCA; DETECTED DIESEL AND

HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

Test Parameter	Result	Units	MRL	Method
ODO OF MENOLATILE ODO ANIOS				
ORG SEMI-VOLATILE ORGANICS	< 0.005	mg/L	0.005	EPA 625
1,2,4-Trichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	<0.005	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	<0.01	mg/L	0.010	EPA 625
2,4,6-Trichlorophenol	<0.01	mg/L	0.010	EPA 625
2,4-Dichlorophenol	<0.01	mg/L	0.010	EPA 625
2,4-Dimethylphenol	<0.02	mg/L	0.020	EPA 625
2,4-Dinitrophenol 2,4-Dinitrotoluene	<0.02	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	<0.005	mg/L	0.005	EPA 625
2-Chloronaphthalene	<0.005	mg/L	0.005	EPA 625
2-Chlorophenol	<0.01	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.01	mg/L	0.010	EPA 625
2-Nitrophenol	<0.01	mg/L	0.010	EPA 625
3,3'-Dichlorobenzidine	<0.005	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	<0.005	mg/L	0.005	EPA 625
4-Chloro-3-methylphenol	<0.01	mg/L	0.010	EPA 625
4-Chlorophenylphenyl ether	<0.005	mg/L	0.005	EPA 625
4-Nitrophenol	<0.02	mg/L	0.020	EPA 625
Acenaphthene	<0.005 -	mg/L	0.005	EPA 625
Acenaphthylene	<0.005	mg/L	0.005	EPA 625
Anthracene	<0.005	mg/L	0.005	EPA 625
Azobenzene	< 0.005	mg/L	0.005	EPA 625
Benzidine	<0.01	mg/L	0.010	EPA 625
Benzo(a)anthracene	<0.005	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0.005	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	<0.005	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	<0.005	mg/L	0.005	- EPA 625
Benzo(k)fluoranthene	<0.005	mg/L	0.005	EPA 625
Benzyl butyl phthalate	<0.02	mg/L	0.020	EPA 625





Report Date: 8/17/99

Sample Date/Time: 7/28/99 12:30 System ID: AD06108 Sample ID: LAB990188

Page:

Date Received: 7/28/99 Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: INACTIVE Address/Location: W5

GRAB Sample Type: SPECIAL WASTE Proj. Subcategory: GRNDWTR Sample Matrix: Sample Point Code: 0

Collected By: CH 3030.000 IMS File/Invoice #:

Comments: LAB: BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE ORGANIC TARGET ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE. NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

est Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.005	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.005	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.01	mg/L	0.010	EPA 625
	< 0.005	mg/L	0.005	EPA 625
Chrysene Di-n-butyl phthalate	<0.02	mg/L	0.020	EPA 625
Di-n-octyl phthalate	< 0.01	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	< 0.005	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Dimethyl phthalate	< 0.005	mg/L	0.005	EPA 625
Fluoranthene	< 0.005	mg/L	0.005	EPA 625
Fluorene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.005	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.005	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	< 0.005	mg/L	0.005	EPA 625
Hexachloroethane	< 0.005	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	< 0.005	mg/L	0.005	EPA 625
Isophorone	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.005	mg/L	0.005	EPA 625
N-Nitrosodimenylamine	< 0.005	mg/L	0.005	EPA 625
Naphthalene	< 0.005 -	mg/L	0.005	EPA 625
Nitrobenzene	< 0.005	mg/L	0.005	EPA 625
Pentachlorophenol	< 0.01	mg/L	0.010	EPA 625
Phenanthrene	< 0.005	mg/L	0.005	EPA 625
Phenol	< 0.01	mg/L	0.010	EPA 625
	< 0.005	mg/L	0.005	EPA 625
Pyrene ORG VOLATILE ORGANIC COMPOL				
1,1,1,2-Tetrachloroethane	< 0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	- EPA 624
1,1,2,2-Tetrachloroethane	<0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	<0.003	mg/L	0.003	EPA 624





Sample Date/Time: 7/28/99 12:30 System ID: AD06108 Sample ID: LAB990188

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Receiv

Address/Location: W5

Date Received: 7/28/99 Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: GRNDWTR

IMS File/Invoice #: 3030.000 Collected By: CH

Comments: LAB: BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE ORGANIC TARGET ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE. NCA: DETECTED DIESEL AND ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE. NCA: DETECTED DIESEL AND RANGE CONSISTENT WITH TYPICAL

HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL		Method
1,1-Dichloroethane	<0.002	mg/L	0.002		EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003		EPA 624
1,2-Dichlorobenzene	< 0.003	mg/L	0.003		EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005		EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003		EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002		EPA 624
1,4-Dichlorobenzene	< 0.002	mg/L	0.002		EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050		EPA 624
Acrolein	< 0.1	mg/L	0.100		EPA 624
Acrylonitrile	< 0.05	mg/L	0.050		EPA 624
Benzene	< 0.001	mg/L	0.001		EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003		EPA 624
Bromoform	< 0.003	mg/L	0.003		EPA 624
Bromomethane	< 0.01	mg/L	0.010		EPA 624
Carbon tetrachloride	< 0.003	mg/L	0.003		EPA 624
Chlorobenzene	< 0.001	mg/L	0.001		EPA 624
Chloroethane	< 0.01	mg/L	0.010		EPA 624
Chloroform	< 0.001	mg/L	0.001		EPA 624
Chloromethane	< 0.01	mg/L	0.010		EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004		EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005		EPA 624
Ethylbenzene	<0.003	·mg/L	0.003		EPA 624
Methylene chloride	< 0.004	mg/L	0.004		EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002		EPA 624
Toluene	< 0.001	mg/L	0.001		EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002		EPA 624
trans-1,3-Dichloropropene	< 0.003	mg/L	0.003		EPA 624
Trichloroethene	< 0.004	mg/L	0.004		EPA 624
Trichlorofluoromethane	< 0.004	mg/L	0.004		EPA 624
Vinyl chloride	< 0.05	mg/L	0.050	-	EPA 624
SUB NWTPH-Dx					
DIESEL RANGE HYDROCARBONS	0.764	mg/L	0.250		NWTPH-Dx

Report Date: 8/17/99





Sample Date/Time: 7/28/99 12:30 System ID: AD06108 Sample ID: LAB990188

Page: 4

Proj./Company Name: SPECIAL WASTE MISC SAMP

Date Received: 7/28/99

Address/Location: W5 Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: GRNDWTR

IMS File/Invoice #: 3030.000 Collected By: CH

Comments: LAB: BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE ORGANIC TARGET ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE. NCA: DETECTED DIESEL AND

HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	0.656	mg/L	0.500	NWTPH-Dx
SUB NWTPH-GX GASOLINE RANGE HYDROCARBONS	<80.0	μg/L	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990188





Sample Date/Time: 7/28/99 13:40 System ID: AD06109 Sample ID: LAB990189

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Date Received: 7/28/99

Sample Status: INACTIVE

SPECIAL WASTE Proj. Subcategory:

Sample Point Code:

IMS File/Invoice #:

Sample Type:

GRAB

Sample Matrix: GRNDWTR

Collected By:

CH

Report Date: 8/17/99

3030.000

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET

ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE. NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

Test Parameter	Result	Units	MRL	Method
and any way arm a anglabulas				
ORG SEMI-VOLATILE ORGANICS	< 0.01	mg/L	0.005	EPA 625
1,2,4-Trichlorobenzene	<0.01	mg/L	0.005	EPA 625
1,2-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	<0.02	mg/L	0.010	EPA 625
2,4,6-Trichlorophenol	<0.02	mg/L	0.010	EPA 625
2,4-Dichlorophenol	<0.02	mg/L	0.010	EPA 625
2,4-Dimethylphenol	<0.02	mg/L	0.020	EPA 625
2,4-Dinitrophenol	<0.04	mg/L	0.005	EPA 625
2,4-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2-Chloronaphthalene	<0.02	mg/L	0.010	EPA 625
2-Chlorophenol	<0.02	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.02	mg/L	0.010	EPA 625
2-Nitrophenol	<0.02	mg/L	0.005	EPA 625
3,3'-Dichlorobenzidine	<0.01	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	<0.02	mg/L	0.010	EPA 625
4-Chloro-3-methylphenol	<0.02	mg/L	0.005	EPA 625
4-Chlorophenylphenyl ether	<0.01	mg/L	0.020	EPA 625
4-Nitrophenol	<0.04	mg/L	0.005	EPA 625
Acenaphthene	<0.01 -	mg/L	0.005	EPA 625
Acenaphthylene	<0.01	mg/L	0.005	EPA 625
Anthracene	<0.01	mg/L	0.005	EPA 625
Azobenzene		mg/L	0.010	EPA 625
Benzidine	<0.02		0.005	EPA 625
Benzo(a)anthracene	<0.01	mg/L	0.005	EPA 625
Benzo(a)pyrene	<0.01	mg/L	0.005	EPA 625
Benzo(b)fluoranthene	<0.01	mg/L	0.005	- EPA 625
Benzo(g,h,i)perylene	<0.01	mg/L	0.005	EPA 625
Benzo(k)fluoranthene	<0.01	mg/L		EPA 625
Benzyl butyl phthalate	< 0.04	mg/L	0.020	EPA 625





Sample Date/Time: 7/28/99 13:40 System ID: AD06109 Sample ID: LAB990189

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: W

Date Received: 7/28/99 Sample Status: INACTIVE

Report Date: 8/17/99

Page:

Proj. Subcategory: SPECIAL WASTE Sample Type: GRAB

Sample Point Code: 0 Sample Matrix: GRNDWTR

IMS File/Invoice #: 3030.000 Collected By: CH

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET

ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE, NCA: DETECTED DIESEL AND

HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.01	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.01	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.01	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.02	mg/L	0.010	EPA 625
Chrysene	< 0.01	mg/L	0.005	EPA 625
Di-n-butyl phthalate	< 0.04	mg/L	0.020	EPA 625
Di-n-octyl phthalate	< 0.02	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	< 0.01	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.01	mg/L	0.005	EPA 625
Dimethyl phthalate	< 0.01	mg/L	0.005	EPA 625
Fluoranthene	< 0.01	mg/L	0.005	EPA 625
Fluorene	< 0.01	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.01	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.01	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	< 0.01	mg/L	0.005	EPA 625
Hexachloroethane	< 0.01	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	< 0.01	mg/L	0.005	EPA 625
Isophorone	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	< 0.01	mg/L	0.005	EPA 625
Naphthalene	< 0.01	mg/L	0.005	EPA 625
Nitrobenzene	< 0.01	mg/L	0.005	EPA 625
Pentachlorophenol	< 0.02	mg/L	0.010	EPA 625
Phenanthrene	< 0.01	mg/L	0.005	EPA 625
Phenol	< 0.02	mg/L	0.010	EPA 625
Pyrene .	< 0.01	mg/L	0.005	EPA 625
ORG VOLATILE ORGANIC COMPO	JNDS			
1.1.1.2-Tetrachloroethane	<0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	- EPA 624
1,1,2,2-Tetrachloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	EPA 624





Sample ID: LAB990189 Sample Date/Time: 7/28/99 13:40 System ID: AD06109

Page:

Date Received: 7/28/99

Sample Status: INACTIVE

SPECIAL WASTE Proj. Subcategory:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Sample Type: GRAB Sample Matrix: GRNDWTR

Report Date: 8/17/99

Sample Point Code:

Address/Location:

Collected By:

IMS File/Invoice #: 3030.000

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET

ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE, NCA: DETECTED DIESEL AND HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

Test Parameter	Result	Units	MRL	Method
1,1-Dichloroethane	<0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
1,4-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050	EPA 624
Acrolein	< 0.1	mg/L	0.100	EPA 624
Acrylonitrile	< 0.05	mg/L	0.050	EPA 624
Benzene	< 0.001	mg/L	0.001	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L	0.003	EPA 624
Bromomethane	< 0.01	mg/L	0.010	EPA 624
Carbon tetrachloride	< 0.003	mg/L	0.003	EPA 624
Chlorobenzene	< 0.001	mg/L	0.001	EPA 624
Chloroethane	< 0.01	mg/L	0.010	EPA 624
Chloroform	< 0.001	mg/L	0.001	EPA 624
Chloromethane	< 0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004	EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005	EPA 624
Ethylbenzene	< 0.003 -	mg/L	0.003	EPA 624
Methylene chloride	< 0.004	mg/L	0.004	EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002	EPA 624
Toluene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002	EPA 624
trans-1,3-Dichloropropene	< 0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	< 0.004	mg/L	0.004	EPA 624
Vinyl chloride	< 0.05	mg/L	0.050	- EPA 624
UB NWTPH-Dx				
DIESEL RANGE HYDROCARBONS	0.580	mg/L	0.250	NWTPH-Dx





Sample ID: LAB990189 Sample Date/Time: 7/28/99 13:40 System ID: AD06109

Page:

Date Received: 7/28/99

Sample Status: INACTIVE

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

SPECIAL WASTE

Proj. Subcategory: Sample Point Code:

3030.000 IMS File/Invoice #:

GRAB Sample Type:

Sample Matrix: GRNDWTR

Collected By: CH

Comments: LAB: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS

ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE. NCA: DETECTED DIESEL AND

HEAVY OIL RANGE HYDROCARBONS DO NOT HAVE PATTERN AND RANGE CONSISTENT WITH TYPICAL

PETROLEUM PRODUCTS AND MAY BE DUE TO BIOGENIC INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
HEAVY OIL RANGE HYDROCARBONS	0.528	mg/L	0.500	NWTPH-Dx
SUB NWTPH-Gx GASOLINE RANGE HYDROCARBONS	<80.0	μg/L	80.0	NWTPH-Gx

End of Report for Sample ID: LAB990189

Report Date: 8/17/99





Sample Date/Time: 7/28/99 14:05 System ID: AD06110 Sample ID: LAB990190

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Page: Date Received: 7/28/99 Sample Status: INACTIVE

SPECIAL WASTE Proj. Subcategory:

Sample Point Code:

IMS File/Invoice #:

3030.000

GRAB Sample Type:

Sample Matrix: GRNDWTR

Report Date: 8/17/99

Collected By:

Comments: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET ANALYTES MAY NOT

HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
ORG SEMI-VOLATILE ORGANICS	0.04	mg/L	0.005	EPA 625
1,2,4-Trichlorobenzene	<0.01		0.005	EPA 625
1,2-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
1,3-Dichlorobenzene	<0.01	mg/L	0.005	EPA 625
1,4-Dichlorobenzene	<0.01	mg/L	0.003	EPA 625
2,4,6-Trichlorophenol	<0.02	mg/L	0.010	EPA 625
2,4-Dichlorophenol	<0.02	mg/L	0.010	EPA 625
2,4-Dimethylphenol	<0.02	mg/L	0.020	EPA 625
2,4-Dinitrophenol	<0.04	mg/L	0.020	EPA 625
2,4-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2,6-Dinitrotoluene	<0.01	mg/L	0.005	EPA 625
2-Chloronaphthalene	<0.01	mg/L	0.010	EPA 625
2-Chlorophenol	<0.02	mg/L	0.010	EPA 625
2-Methyl-4,6-dinitrophenol	<0.02	mg/L	0.010	EPA 625
2-Nitrophenol	<0.02	mg/L	0.005	EPA 625
3,3'-Dichlorobenzidine	<0.01	mg/L	0.005	EPA 625
4-Bromophenylphenyl ether	<0.01	mg/L	0.003	EPA 625
4-Chloro-3-methylphenol	<0.02	mg/L	0.005	EPA 625
4-Chlorophenylphenyl ether	<0.01	mg/L		EPA 625
4-Nitrophenol	<0.04	mg/L	0.020	EPA 625
Acenaphthene	<0.01	mg/L	0.005	EPA 625
Acenaphthylene	<0.01	mg/L	0.005	EPA 625
Anthracene	<0.01	mg/L	0.005	EPA 625
Azobenzene	<0.01	mg/L	0.005	EPA 625
Benzidine	<0.02	mg/L	0.010	EPA 625
Benzo(a)anthracene	< 0.01	mg/L	0.005	EPA 625
Benzo(a)pyrene	< 0.01	mg/L	0.005	
Benzo(b)fluoranthene	< 0.01	mg/L	0.005	EPA 625
Benzo(g,h,i)perylene	< 0.01	mg/L	0.005	- EPA 625
Benzo(k)fluoranthene	< 0.01	mg/L	0.005	EPA 625
Benzyl butyl phthalate	< 0.04	mg/L	0.020	EPA 625





Sample Date/Time: 7/28/99 14:05 System ID: AD06110 Sample ID: LAB990190

Page:

Report Date: 8/17/99

2

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Date Received: 7/28/99 Sample Status: INACTIVE

Proj. Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code: IMS File/Invoice #:

3030.000

Collected By:

Sample Matrix: GRNDWTR

CH

Comments: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET ANALYTES MAY NOT HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE.

Test Parameter	Result	Units	MRL	Method
Bis(2-chloroethoxy) methane	<0.01	mg/L	0.005	EPA 625
Bis(2-chloroethyl) ether	< 0.01	mg/L	0.005	EPA 625
Bis(2-chloroisopropyl) ether	< 0.01	mg/L	0.005	EPA 625
Bis(2-ethylhexyl) phthalate	< 0.02	mg/L	0.010	EPA 625
Chrysene	< 0.01	mg/L	0.005	EPA 625
Di-n-butyl phthalate	< 0.04	mg/L	0.020	EPA 625
Di-n-octyl phthalate	< 0.02	mg/L	0.010	EPA 625
Dibenzo(a,h)anthracene	< 0.01	mg/L	0.005	EPA 625
Diethyl phthalate	< 0.01	mg/L	0.005	EPA 625
Dimethyl phthalate	< 0.01	mg/L	0.005	EPA 625
Fluoranthene	< 0.01	mg/L	0.005	EPA 625
Fluorene	< 0.01	mg/L	0.005	EPA 625
Hexachlorobenzene	< 0.01	mg/L	0.005	EPA 625
Hexachlorobutadiene	< 0.01	mg/L	0.005	EPA 625
Hexachlorocyclopentadiene	< 0.01	mg/L	0.005	EPA 625
Hexachloroethane	< 0.01	mg/L	0.005	EPA 625
Indeno(1,2,3-cd)pyrene	< 0.01	mg/L	0.005	EPA 625
Isophorone	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodi-n-propylamine	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodimethylamine	< 0.01	mg/L	0.005	EPA 625
N-Nitrosodiphenylamine	< 0.01	mg/L	0.005	EPA 625
Naphthalene	< 0.01 -	mg/L	0.005	EPA 625
Nitrobenzene	< 0.01	mg/L	0.005	EPA 625
Pentachlorophenol	<0.02	mg/L	0.010	EPA 625
Phenanthrene	< 0.01	mg/L	0.005	EPA 625
Phenol	< 0.02	mg/L	0.010	EPA 625
Pyrene	<0.01	mg/L	0.005	EPA 625
ORG VOLATILE ORGANIC COMPOU				
1,1,1,2-Tetrachloroethane	< 0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	- EPA 624
1,1,2,2-Tetrachloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	<0.003	mg/L	0.003	EPA 624
				- 14





3

EPA 624

EPA 624

EPA 624

EPA 624

Sample Date/Time: 7/28/99 14:05 System ID: AD06110 Sample ID: LAB990190

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

Date Received: 7/28/99 Sample Status: INACTIVE

Page:

SPECIAL WASTE Proj. Subcategory:

Sample Point Code: 0

Chloromethane

Ethylbenzene

Toluene

Methylene chloride

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,3-Dichloropropene

Dibromochloromethane

trans-1,2-Dichloroethene

Trichlorofluoromethane

trans-1,3-Dichloropropene

IMS File/Invoice #:

3030.000

HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE.

GRAB Sample Type: Sample Matrix: GRNDWTR

Collected By: CH

0.010

0.004

0.005

0.003

0.004

0.002

0.001

0.002

0.003

0.004

0.004

0.050

Report Date: 8/17/99

Comments: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET ANALYTES MAY NOT

Method Units MRL Result **Test Parameter EPA 624** 0.002 < 0.002 mg/L 1.1-Dichloroethane EPA 624 mg/L 0.003 < 0.003 1.1-Dichloroethene **EPA 624** mg/L 0.003 < 0.003 1,2-Dichlorobenzene 0.005 EPA 624 mg/L < 0.005 1.2-Dichloroethane **EPA 624** 0.003 mg/L 1,2-Dichloropropane < 0.003 **EPA 624** mg/L 0.002 < 0.002 1,3-Dichlorobenzene EPA 624 0.002 < 0.002 mg/L 1.4-Dichlorobenzene **EPA 624** 0.050 < 0.05 mg/L 2-Chloroethylvinyl ether **EPA 624** mg/L 0.100 < 0.1 Acrolein **EPA 624** 0.050 mq/L < 0.05 Acrylonitrile **EPA 624** 0.001 mg/L < 0.001 Benzene **EPA 624** 0.003 < 0.003 mg/L Bromodichloromethane **EPA 624** 0.003 mg/L < 0.003 Bromoform **EPA 624** mg/L 0.010 < 0.01 Bromomethane **EPA 624** 0.003 < 0.003 mg/L Carbon tetrachloride **EPA 624** 0.001 < 0.001 mg/L Chlorobenzene 0.010 **EPA 624** mg/L < 0.01 Chloroethane **EPA 624** 0.001 mg/L < 0.001 Chloroform

SUB NWTPH-GX NWTPH-Gx 80.0 µg/L GASOLINE RANGE HYDROCARBONS <80.0

< 0.01

< 0.004

< 0.005

< 0.004

< 0.001

< 0.002

< 0.003

< 0.004

< 0.004

< 0.05

< 0.003 -

< 0.002 -

mg/L

mg/L

ma/L

mg/L

mq/L

mg/L

mq/L

mg/L

mg/L

mg/L

mg/L

mg/L





Sample Date/Time: 7/28/99 14:05 System ID: AD06110 Sample ID: LAB990190

Page: 1

Proj./Company Name: SPECIAL WASTE MISC SAMP

Date Received: 7/28/99

Address/Location: W7 Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: GRNDWTR

IMS File/Invoice #: 3030.000 Collected By: CH

Comments: THIS SAMPLE WAS DILUTED BY A FACTOR OF TWO FOR SEMI-VOLATILE ORGANIC COMPOUNDS ANALYSIS. BASED ON LOW SURROGATE RECOVERIES, LOW LEVELS OF SEMI-VOLATILE TARGET ANALYTES MAY NOT

HAVE BEEN DETECTED DUE TO MATRIX INTERFERENCE.

Test Parameter Result Units MRL Method

End of Report for Sample ID: LAB990190





Sample Date/Time: 7/28/99 0:00 System ID: AD06111 Sample ID: LAB990191

Page: 1

Proj./Company Name: SPECIAL WASTE MISC SAMP

Date Received: 7/28/99

Sample Status: INACTIVE

Address/Location: TRIP BLANK Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: 0 Sample Matrix: OTHER

IMS File/Invoice #: 3030.000 Collected By: CH

Comments:

Test Parameter	Result	Units	MRL	Method
ORG VOLATILE ORGANIC COMPO	HNDS			
1,1,1,2-Tetrachloroethane	<0.005	mg/L	0.005	EPA 624
1,1,1-Trichloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2,2-Tetrachloroethane	< 0.003	mg/L	0.003	EPA 624
1,1,2-Trichloroethane	< 0.003	mg/L	0.003	EPA 624
1.1-Dichloroethane	< 0.002	mg/L	0.002	EPA 624
1,1-Dichloroethene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichlorobenzene	< 0.003	mg/L	0.003	EPA 624
1,2-Dichloroethane	< 0.005	mg/L	0.005	EPA 624
1,2-Dichloropropane	< 0.003	mg/L	0.003	EPA 624
1,3-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
1,4-Dichlorobenzene	< 0.002	mg/L	0.002	EPA 624
2-Chloroethylvinyl ether	< 0.05	mg/L	0.050	EPA 624
Acrolein	< 0.1	mg/L	0.100	EPA 624
Acrylonitrile	< 0.05	mg/L	0.050	EPA 624
Benzene	< 0.001	mg/L	0.001	EPA 624
Bromodichloromethane	< 0.003	mg/L	0.003	EPA 624
Bromoform	< 0.003	mg/L	0.003	EPA 624
Bromomethane	< 0.01	mg/L	0.010	EPA 624
Carbon tetrachloride	< 0.003	mg/L	0.003	EPA 624
Chlorobenzene	< 0.001 -	-mg/L	0.001	EPA 624
Chloroethane	< 0.01	mg/L	0.010	EPA 624
Chloroform	< 0.001	mg/L	0.001	EPA 624
Chloromethane	< 0.01	mg/L	0.010	EPA 624
cis-1,3-Dichloropropene	< 0.004	mg/L	0.004	EPA 624
Dibromochloromethane	< 0.005	mg/L	0.005	EPA 624
Ethylbenzene	< 0.003	mg/L	0.003	EPA 624
Methylene chloride	< 0.004	mg/L	0.004	EPA 624
Tetrachloroethene	< 0.002	mg/L	0.002	- EPA 624
Toluene	< 0.001	mg/L	0.001	EPA 624
trans-1,2-Dichloroethene	< 0.002	mg/L	0.002	EPA 624





Sample Date/Time: 7/28/99 0:00 System ID: AD06111 Sample ID: LAB990191

Page: 2

Proj./Company Name: SPECIAL WASTE MISC SAMP

Date Received: 7/28/99
Sample Status: INACTIVE

Address/Location: TRIP BLANK Sample Status: INACTIVE

Proj. Subcategory: SPECIAL WASTE Sample Point Code: 0 Sample Matrix: OTHER

Sample Point Code: 0 Sample Matrix: OTHER
IMS File/Invoice #: 3030.000 Collected By: CH

Comments:

Test Parameter	Result	Units	MRL	Method
trans-1,3-Dichloropropene	<0.003	mg/L	0.003	EPA 624
Trichloroethene	< 0.004	mg/L	0.004	EPA 624
Trichlorofluoromethane	< 0.004	mg/L	0.004	EPA 624
Vinyl chloride	<0.05	mg/L	0.050	EPA 624

End of Report for Sample ID: LAB990191

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4	1	1
	4	لم
		\approx

City of Portland
Bureau of Environmental Services
Chain of Custody

Project Name: SPECIAL WASTE MISC SAMP	Date: 7/28/99
Project Subcat. SPECIAL WASTE	Page: _ / _ of _ /
File Number: 3030.000	Collected by: (cheek
Matrix: / VIATION	Hustra

Sample ID No.	Location (Rep Address 1)	Sample Type	Point Code	Date	Time	Tests Requested
LAB 990184	wl	w		7/28/99	9:25	SETTLOGRATILES BY 8270 VOC BY 8260
LAB 990185	w Z	w		1		& NWTPHG & NWTPHOX
LAB 990186	w 3	w	s		1000	
LAB 990187	64	w			1050	
LAB 990188	W5	w			/23°0	
LAB 990189	W.6	W			1340	1
LAB 990190	W 7	w			1405	U ∝'s ± 625
LAB 990191	TRIP BLANK	W		Į		-
Telinguished by 1: gnature: Token Hank OFERAPO Kaseltas	Received By 1: 7/28/99 Signature: Date: Printed Name:	Time:	15	Signature:	hed By 2:	: Received By 2: : : : : : : : : : : : : : : : : : :

APPENDIX B
BORING LOGS

MAJO	R DIVISIONS	5	SYMBOLS	TYPICAL NAMES
		GW		Well-grade gravels or gravel-sand mixtures, little to no fines.
LS.	00111516	GP		Poorly—graded gravels or gravel—sand mixtures, little to no fines.
SOILS	GRAVELS more than 50% coarse	GM		Silty gravels, gravel-sand-silt mixtures.
GRAINED on 1/2 of soil 500 sieve size)	fraction > no.4 sieve	GC		Clayey gravels or gravel—sand—clay mixtures
GRAIN than 1/2 200 sieve		SW		Well-graded sands or gravelly sands, little to no fines.
(More th	SANDS	SP		Poorly—graded sands or gravelly sands, little to no fines.
COARSE (more	less than 50% coarse fraction > no.4 sieve	SM	[3][3][3]	Silty sands, sand-silt mixtures.
		SC		Clayey sands, sand-clay mixtures.
S		ML		Inorganic silts and very fine sands, silty or clay fine sands or clayey silts with slight plasticity.
SOILS soil	SILTS & CLAYS Liquid Limit*	CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy or silty clays, lean clays.
NED 1/2 of sieve si	less than 50%	OL	+ + + +	Organic silts and organic silty clays of low plasticity.
SRA 200		МН		Inorganic silts, micaceous or diatomaceous fine sand or silty soils, elastic silts.
FINED (SILTS & CLAYS Liquid Limit*	СН		Inorganic clays of high plasticity, fat clays.
Z L	greater than 50%	ОН		Organic clays of medium to high plasticity, organic silty clay, organic silts.
HIGHLY	ORGANIC SOILS	Pt		Peat or other highly organic soils.

^{*}Liquid Limit represents the moisture content (in percent) of a soil at which point the soil no longer behaves like a plastic and starts to behave like a liquid.

BORING LOG SYMBOLS

SAMPLE INTERVAL GROUNDWATER, FIRST OBSERVED GROUNDWATER, STATIC

SAMPLE TYPES:

SS - Split Spoon

Grab

ST - Shelby Tube

GS - Geoprobe Sampler

SHEEN TYPES:

- No Sheen observed NS

Slight Sheen observed (Spotty coverage of sheen pan, no irridescence) SS

Moderate Sheen (full coverage

of sheen pan, no irredescence) Heavy Sheen (full coverage of sheen

pan, irridescent)

SAMPLE MOISTURE:

DRY - No moisture, dry to touch

MOIST - Domp but no visible moisture

WET - Visible free woter

SAMPLE PLASTICITY (FINE-GRAINED SOILS):

NONPLASTIC - Cannot be rolled at any moisture content

LOW - Barely rolled, lump cannot be formed when

drier than plastic limit

MEDIUM - Easily rolled, lump crumbles when drier than plastic limit

HIGH — Easily rolled yet takes considerable time to reach the plastic limit, lump can be formed without crumbling when drier than the

plastic limit

PARTICLE SIZE RANGE (COARSE-GRAINED SOILS):

GRAVEL - FINE, COARSE SAND - FINE, MEDIUM, COARSE

Name of supervising Geologist/Engineer

MONITORING WELL REPORT



MULT 58187 Received Date

Start Card #

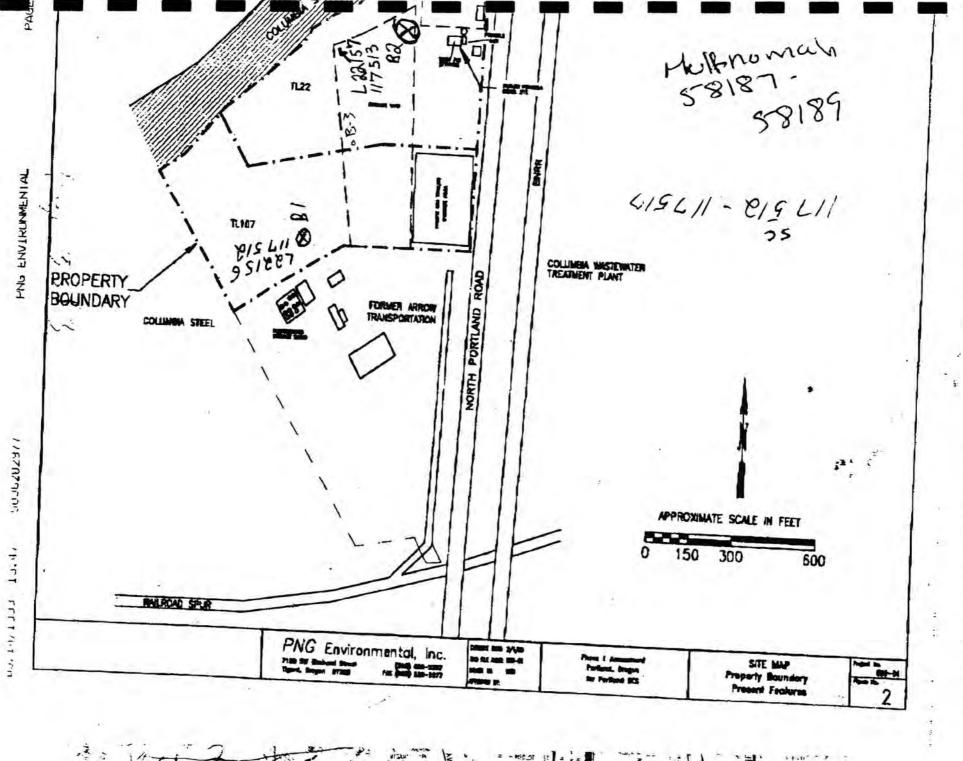
06/17/1999 22156

Well ID Tag#

Date

Signed By GREG MCINNIS

117512 (as required by ORS 537.765 & OAR 690-240-095) instructions for completing this report are on the last page of this form. (1) OWNER/PROJECT (6) LOCATION OF WELL By legal description Well No. 22156 Co Job No. 3717 Name LOUIS LARSEN Township 1.00 N Range 1.00 E Section 6 LARSEN, KAREN SE 1/4 of SE 1/4 of above section. Street 15227 NW GILLIHAN RD Legal Desc: State OR Zip 97231 City PORTLAND 2. Either Street address of well location (2) TYPE OF WORK 10505 N PORTLAND RD New Construction Alter (Recondition) Alter (Repair) or Tax lot number of well location 107 Abandonment Conversion Deepening 3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. (7) STATIC WATER LEVEL (3) DRILLING METHOD Rotary Air Cable Rotary Mud 18.0 Ft. below land Date 05/18/1999 surface Other ***** Mollow Stem Auger Artesian Pressure lb/sq. in. Date (8) WATER BEARING ZONES (4) BORE HOLE CONSTRUCTION 25 ft. Depth at which water was first found Depth of completed well 18 R. Special Standards SWL Est. Flow Rate To Begin Depth End Material Diameter From To Depth 25 18 18 Amount Units 25 10.00 0.00 1.00 2.00 S Concrete 0.00 Vault 1.00 13.00 5.00 S Bentonite ft. Casing Diameter Liner TO truction Location Threaded Of Shoe Construction ft. Casing Begin End (9) WELL LOG DepthDepth Gauge Material Weld Diameter Ground elevation ft. Monument 2.00 lastic Material SWL From To 3 ft. **FILL, GRAVELS** 20 TO **GREY SILT** 20 25 18 -2 ft Sea ft TO Material Amount Seal Units From Grout ft. 2.00 0.00 1.00 Concrete 13.00 Bentonite 5.00 S 1.00 Filter Pack Screen 13 Slot Size Diameter Gauge TO .010 15 25 Filter Pack SA Material 05/18/1999 Completed 05/18/1999 Date started Size 20.00 in. (5) WELL TEST (unbonded) Monitor Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief. Yield Permeability PH Conductivity MWC Number 10462 Temperature of water 52 °F/C Depth artesian flow found Signed By MARLEN A CROSS Date Was water analysis done? X (bonded) Monitor Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this By Whom? PNG ENVIRONMENTAL Depth of strata to be analyzed. From ft. to ft. time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief. Remarks MWC Number 10011



06/17 '99 19:22 NO.126 03/04

GEOTECHEXPLORATIONS

6924759

MONITORING WELL REPORT

MULT 58188

Received Date Well ID Tag# L

06/17/1999 22157

Instructions for completing this report are on the last page of this form.

Start Card #

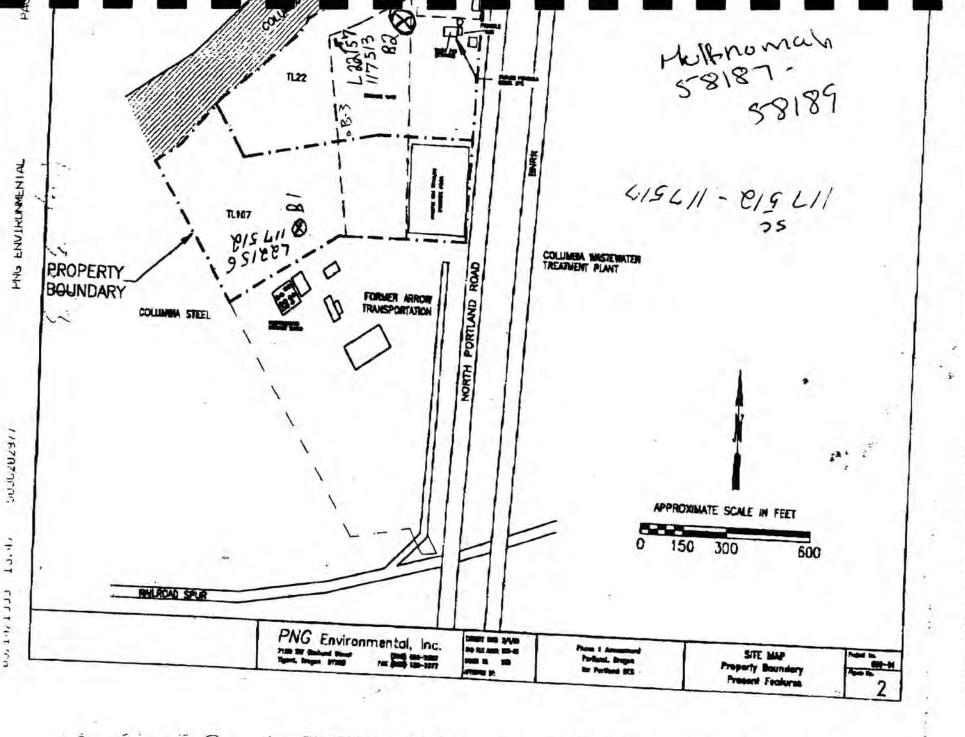
Well No. 22457

1 (6) LOCATION OF WELL By legal description (as required by ORS 537.765 & OAR 690-240-095)

Start Card #

117513

Name LOUIS LARSEN LARSEN, KAREN Street 15227 NW GILLIHAN RD City PORTLAND State OR Zip 97231	County Township 1.00 N Range 1.00 E Section 5 1. SW 1/4 of SW 1/4 of above section. Legal Desc:
(2) TYPE OF WORK	10505 N PORTLAND RD
New Construction Alter (Recondition) Alter (Repair)	or Tax lot number of well location 22
Conversion Deepening Abandonment	3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arro
(3) DRILLING METHOD	(7) STATIC WATER LEVEL
Rotary Air Rotary Mud Cable	40.0 Et below land Data 05/40/4000
	19.0 Ft. below land Date 05/18/1999 surface.
Hollow Stem Auger Other *****	Artesian Pressure lb/sq. in. Date
(4) BORE HOLE CONSTRUCTION	(8) WATER BEARING ZONES
Special Standards Depth of completed well 21 ft.	Depth at which water was first found 19 ft.
Dismeter From To Begin End Material	From To Est. Flow Rate SWL
Dameter From 10 Penth Depth Amount Unite	19 21 19
10.00 0.00 21 Concrete 0.00 1.00 2.00 S	
Vault Bentonite 1.00 9.00 4.00 S	
0 ft. Casing Diameter Liner	
1 TO	
ft. Casing Begin End Construction Location or Diameter DepthDepth Gauge Material Weld Threaded Of Shoe	(9) WELL LOG Ground elevation ft.
Monument C 2.00 Plastic Plastic	Cipani distassi
ft.	GRAVEL FILL From To SWL O 12
то	GREY SILT 12 21 19
ft.	
Seal	
t.	
TO From To Material Amount Seal Units	
Grout Walaht	
0.00 1.00 Concrete 2.00 **** S	
1.00 9.00 Bentonite 4.00 S	
Filler Pack Screen	
Filler Pack Screen g ft.	
Diameter From To Gauge Material Type Slot Size	
TO 11 21 PL .010	
Filter Pack	
Material SA	Description Operated Operations
Size 20.00 in.	Date started 05/18/1999 Completed 05/19/1999
(5) WELL TEST	(unbonded) Monitor Well Constructor Certification:
Act to the total	
ACCOMMON MANAGEMENT OF THE PROPERTY OF THE PRO	I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and
Permeability Yield	information reported above are true to the best knowledge and belief.
Conductivity PH	MWC Number 10462
Temperature of water 52 °F/C Depth artesian flow found ft.	Signed By MARLEN A CROSS Date
Was water analysis done?	(bonded) Monitor Well Constructor Certification:
By Whom? PNG ENVIRONMENTAL	I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this
Depth of strata to be analyzed. From ft. to ft.	time is in compliance with Oregon well construction standards. This report is true to the
Remarks	best of my knowledge and belief.
	MWC Number 10011
Name of supervising Geologist/Engineer	Signed By GREG MCINNIS Date
	· ·



GEOTECHEXPLORATIONS

6924759

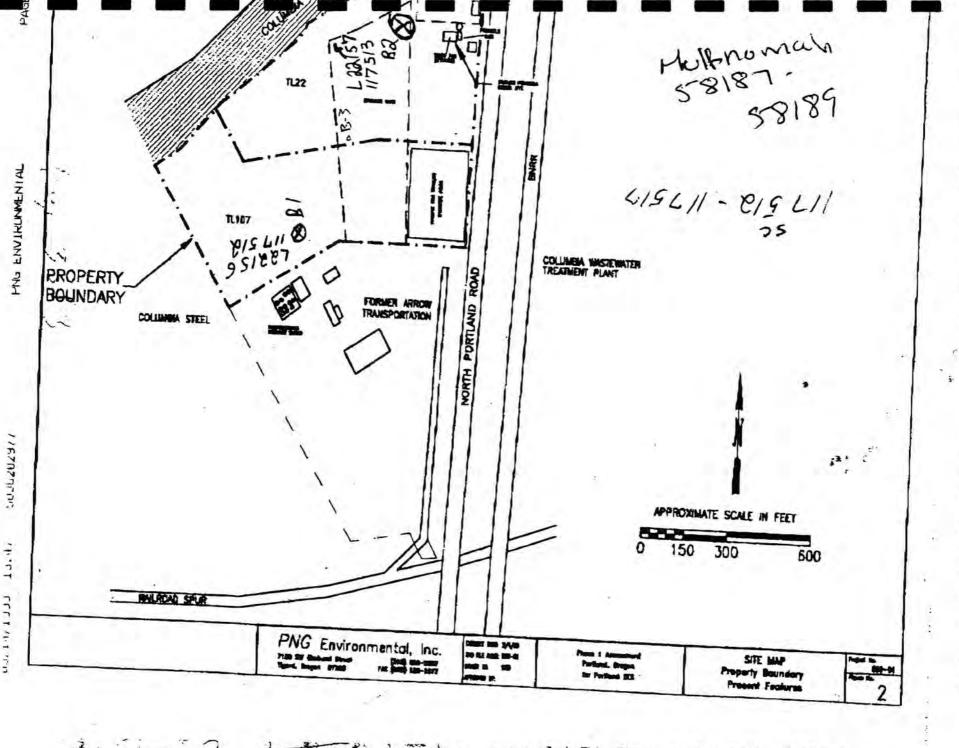
06/17 '99 19:22 NO.126 03/04

MWC Number 10011 Date

Signed By GREG MCINNIS

Remarks

Name of supervising Geologist/Engineer



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GEOTECHEXPLORATIONS

6924759

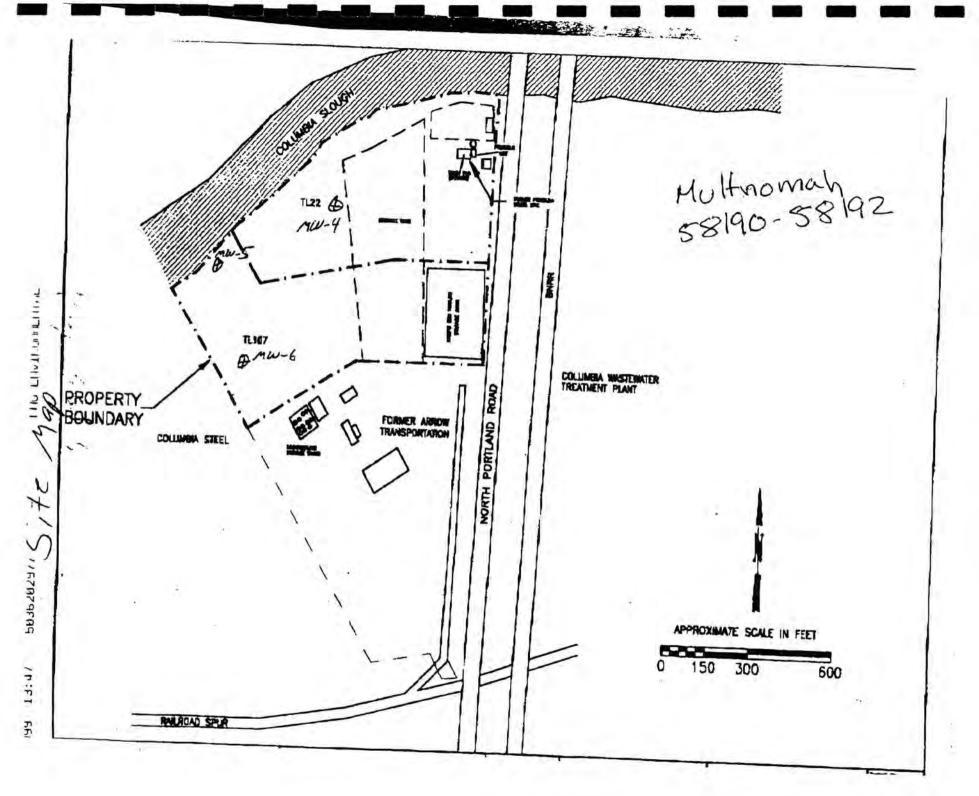
06/17 '99 19:22 NO.126 03/04

MULT 58190

Pensived Date 06/47/4000

Mecelyed Date	00	11/11999
Well ID Tag#	L	22159

MONITORING WELL REPORT Start Card # 117515 (as required by ORS 537.765 & OAR 690-240-095) instructions for completing this report are on the last page of this form. (1) OWNER/PROJECT Well No. 22159 (6) LOCATION OF WELL By legal description Co Job No. 3717 LOUIS LARSEN Township 1.00 N Range 1.00 E Section 5 LARSEN, KAREN SW 1/4 of SW 1/4 of above section. 1. Street 15227 NW GILLIHAN RD Legal Desc: City PORTLAND State OR Zip 97231 2. Either Street address of well location (2) TYPE OF WORK 10505 N PORTLAND RD New Construction Alter (Recondition) Alter (Repair) or Tax lot number of well location 22 Deepening Abandonment Conversion 3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. (7) STATIC WATER LEVEL (3) DRILLING METHOD Rotary Mud Cable Rotary Air Ft. below land Date 05/24/1999 20.0 surface. lb/sq. in. Hollow Stem Auger Other ***** Artesian Pressure Date (8) WATER BEARING ZONES (4) BORE HOLE CONSTRUCTION 22 ft. Depth of completed well Special Standards Depth at which water was first found 20 ft. To Est. Flow Rate SWL Begin End Diameter From To 20 20 Depth Depth Amount Units Material 6.00 0.00 Concrete 0.00 1.00 2.00 S Vault Bentonite 1.00 10.00 4.00 S ft. Casing Diameter Liner TO Begin End Diameter DepthDepth Construction Location Weld Threaded Of Shoe Casing ft (9) WELL LOG Gauge Material Ground elevation ft Monument 2.00 Plastic Material From SWL 3 ft. CONCRET TO ASPHALT DEBRIS, SILT 20 -2 ft. Seal ft. Units TO From To Material Amount Seal Grout Ħ. S 0.00 1.00 Concrete 2.00 1.00 10.00 Bentonite 4.00 S Filter Pack Screen 10 Gauge Slot Size TO .010 22 ft. Filter Pack SA Material Date started 05/24/1999 Completed 05/24/1999 Size 20.00 in (5) WELL TEST (unbonded) Monitor Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief. Yield Permeability PH Conductivity MWC Number 10453 °F/C Depth artesian flow found ft. Temperature of water Signed By GORDON E BURTON Date Was water analysis done? \boxtimes (bonded) Monitor Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this By Whom? PNG Depth of strata to be analyzed. From time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief. Remarks MWC Number 10011 Name of supervising Geologist/Engineer Signed By GREG MCINNIS Date



MULT 58191

Received Date 06/17/1999

MONITORING WELL REPORT Well ID Tag# 22160 Start Card # 117516 Instructions for completing this report are on the last page of this form. (as required by ORS 537.765 & OAR 690-240-095) (6) LOCATION OF WELL By legal description (1) OWNER/PROJECT Well No. 22160 Ca Job No. 3717 County LOUIS LARSEN Section Township 1.00 N Range 1.00 E LARSEN, KAREN SW 1/4 of SW 1/4 of above section. Street 15227 NW GILLIHAN RD Legal Desc State OR Zip 97231 City PORTLAND 2. Either Street address of well location (2) TYPE OF WORK 10505 N PORTLAND RD New Construction Alter (Recondition) Alter (Repair) or Tax lot number of well location 22 Abandonment Conversion Deepening 3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow. (7) STATIC WATER LEVEL (3) DRILLING METHOD Rotary Mud Cable Rotary Air 29.0 Ft. below land Date 05/24/1999 surface Other **** Hollow Stem Auger Artesian Pressure lb/sq. in. Date (8) WATER BEARING ZONES (4) BORE HOLE CONSTRUCTION 30 ft. Depth at which water was first found 29 ft. Depth of completed well Special Standards To Est. Flow Rate SWL Begin Depth Fnd Material Diameter From To 29 30 29 Amount Units Depth Material 0.00 30 6.00 Concrete 0.00 1.00 2.00 S Vault Bentonite 1.00 13.00 5.00 ft. Casing Diameter Liner TO ft. Casing Begin End Diameter DepthDepth Construction Location (9) WELL LOG Threaded Of Shoe Gauge Material Weld ft. Ground elevation Monument 2.00 Plastic SWL 3 ft. **GREY SILT AND GRAVELS** 20 TO 20 30 29 SILT -2 ft. Seal Seal Units TO Material Amount From To Grout ft. Veigh 0.00 1.00 Concrete 2.00 1.00 13.00 Bentonite 5.00 Filter Pack Screen -13 ft Material Slot Size Gauge Diameter To TO .010 30 15 30 ff Filter Pack SA Material 05/24/1999 Completed 05/24/1999 Date started Size 20.00 in. (5) WELL TEST (unbonded) Monitor Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief. Yield Permeability PH MWC Number 10453

Conductivity

Temperature of water

By Whom? PNG

Was water analysis done?

57 °F/C Depth artesian flow found

ft. to

ŝ.

X

ft.

Signed By GORDON E BURTON

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this

time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

MWC Number 10011

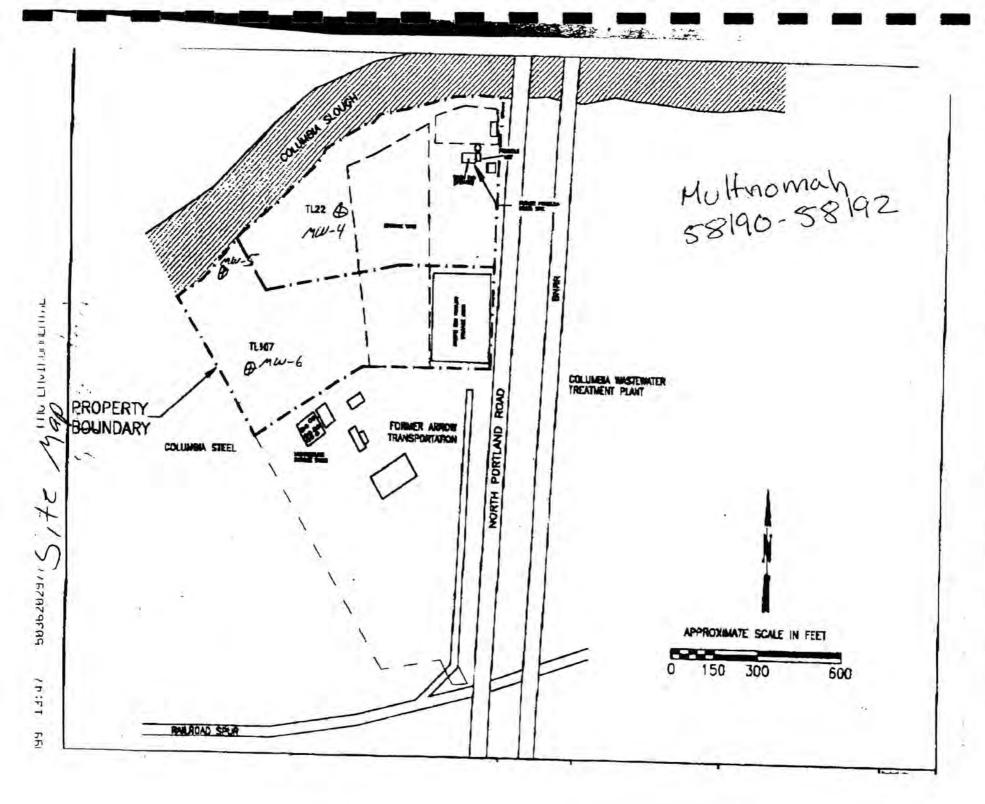
Name of supervising Geologist/Engineer

Depth of strata to be analyzed. From

Signed By GREG MCINNIS

Date

Date



Remarks

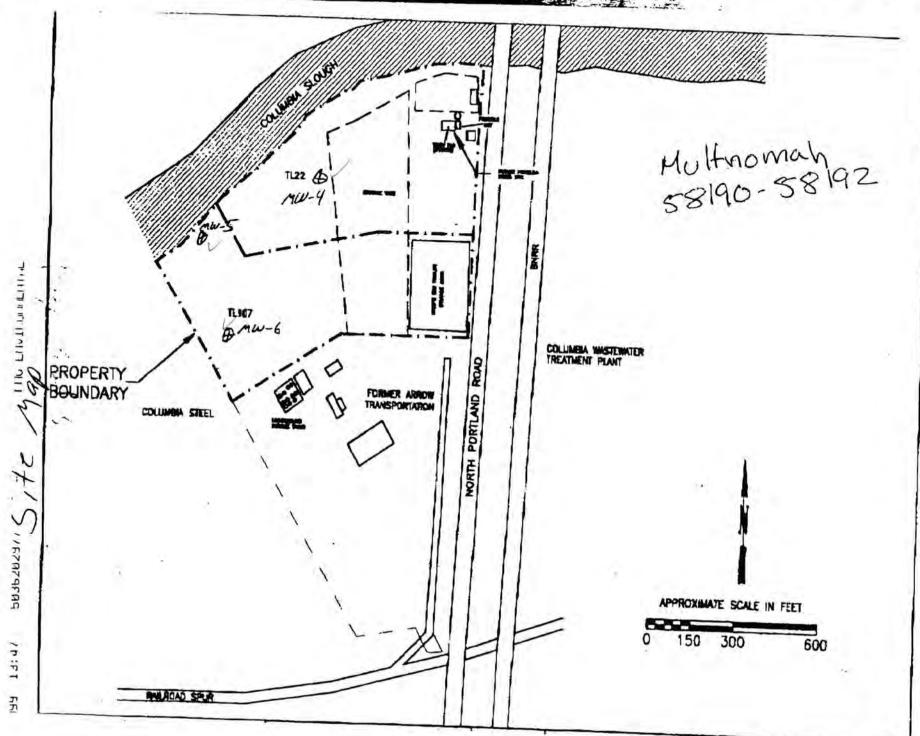
Name of supervising Geologist/Engineer

time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed By GREG MCINNIS

MWC Number 10011

Date



BORING NUMBER

MW-1

7130 SW Elmhurst Street Tigard, Oregon 97223 (503) 620-2387 FAX (503) 620-2977 PROJECT NAME: Larsen Property

PROJECT NUMBER: 850-02

LOCATION: 10505 North Portland Road

LOGGED BY: C. Hultgren

REVIEWED BY: GJK

DATE: MAY 18, 1999

SAMPLE		INFOR	MAT	10	N				DETAIL BOREHOLE/WELL			
LAB SAMPLE	SAMPLE TYPE	BLOW	REC.	PID	SHEEN	DEPTH FT,bsg	STRATA	DESCRIPTION	TAT	BOREHOLE/WELL CONSTRUCTION DETAIL		
	GRAB			0		5		Sandy Grovel Fill (GP), brown, fine to medium sand, fine to coarse gravels, abundant concrete, asphalt, debris fill, moist, no product odor.	Specification of the second and s	Well monument above-ground with concret apron. 2-inch locking compression well concorded to the foot. Bentonite 1 to 4 feet. Two 50 pound bags. 2-inch diameter, sch 40 solid PVC cosing from above-ground to 14.5 feet.		
	GRAB			0		10-						
				o		15—		@18': stiff.		10 x 20 sand: 4 to 25 feet, eleven 50 pound bags. 2-inch diameter, sch 40 0.010-slotted PVC well screen fram 14.5 feet to 24.5 feet.		
	GRAB					20 — — — —		Silty Gravel Fill (CM) dark brown to black brick and other fill debris, faint creosote-lile odor, visible sheen				
	GRAB			o		25 — — — —		TD 25'		2-inch diameter, 6-inch deep threaded Pend cap from 24.5 to 25 feet.		
						30-						
	DRILLING CONTRACTOR: GEOTECH EXPLORATIONS DRILLING METHOD: HOLLOW-STEM TRACK RIG SAMPLING METHOD: GRAB DRILLING START TIME: 5-18-99									COORDINATES: NA ACE ELEVATION: 95.04 ING ELEVATION: 96.62 DATUM: ARBITRARY		

BORING NUMBER

MW-2

7130 SW Elmhurst Street Tigard, Oregon 97223

(503) 620-2387 FAX (503) 620-2977

PROJECT NAME: Larsen Property

PROJECT NUMBER: 850-02

LOCATION: 10505 North Portland Road LOGGED BY: C. Hultgren

REVIEWED BY: GJK

DATE: MAY 18, 1999

APLE	INFOR	MAT	10	N	DESCRIPTION		WELL	BOREHOLE/WELL	
SAMPLE TYPE	BLOW	REC.	PIO	SHEEN	DEPTH FT,bsg	STRATA	DESCRIPTION	IF	CONSTRUCTIÓN DETAIL
GRAB GRAB			0				Sandy Gravel Fill (GP), brown, fine clayey sand, fine to coarse gravels, abundant fill debris, moist, creasute—like ador.	And the state of t	Well monument above-ground with concret apron. 2-inch locking compression well co Concrete 0 to 1 foot. Bentonite 1 to 4 feet. Two 50 pound bags. 2-inch diameter, sch 40 solid PVC cosing from above-ground to 11.5 feet. 10 x 20 sand; 4 to 22 feet, eleven 50 pound bags.
GRAB			0	c	10-		to coorse gravel; construction debris;		2-inch diameter, sch 40 0.010-slotted PVC well screen from 11.5 feet to 21.5 feet.
GRAB			0		15-		odor.		
GRAB			0				TD 22'		2-inch diameter, 6-inch deep threaded Pend cap from 21.5 to 22 feet.
					30-				
	GRAB GRAB GRAB	SAMPLE BLOW COUNTS GRAB GRAB GRAB	SAMPLE BLOW TYPE COUNTS REC. GRAB GRAB GRAB GRAB	SAMPLE BLOW REC. Q COUNTS REC. Q CRAB CRAB CRAB CRAB O CRAB O	GRAB 0 GRAB 0 GRAB 0 GRAB 0 GRAB 0	SAMPLE BLOW REC. 2 H FT.bsq	SAMPLE BLOW REC. 2 3 PEPTH FILES	SAMPLE BLOW REC. 2 DEPTH STRATA DESCRIPTION GRAB O STRATA DESCRIPTION Sondy Gravel Fill (GP), brown, fine cloyey sand, fine to coarse gravels, abundant fill debris, moist, creosute like odor. GRAB O 10 Silt Fill (ML) brown; low plasticity; fine to coarse gravel; construction debris; moist to very moist; creosute like odor. GRAB O 15 - TO 22' 25 - TO 22'	SAMPLE BLOW TOUNTS REC. 2 GOPPTH STRATA DESCRIPTION GRAB O Sandy Gravel Fill (GP), brown, fine clayey sand, fine to coarse gravels, abundant fill debris, moist, areasute—like ador. GRAB O STRATE IN COUNTS REC. 2 GOPPTH STRATA DESCRIPTION South of the clayey sand, fine to coarse gravels, abundant fill debris, moist, areasute—like ador. Silt Fill (ML) brown; low plasticity; fine to coarse gravel; construction debris; moist to very moist; areasute—like ador. GRAB O 15— TD 22*

DRILLING METHOD: HOLLOW-STEM TRACK RIG SAMPLING METHOD: GRAB

DRILLING START TIME: 5-18-99 DRILLING END TIME: 5-18-99

SURFACE ELEVATION: 85.71 CASING ELEVATION: 88.08

DATUM: ARBITRARY

BORING NUMBER

MW-3

7130 SW Elmhurst Street Tigard, Oregon 97223

(503) 620-2387 FAX (503) 620-2977 PROJECT NAME: Larsen Property

PROJECT NUMBER: 850-02

LOCATION: 10505 North Portland Road

LOGGED BY: C. Hultgren

REVIEWED BY: GJK

DATE: MAY 18, 1999

SA	MPLE	INFOR	MAT	10	N			DESCRIPTION		BOREHOLE/WELL	
LAB SAMPLE	SAMPLE TYPE	BLOW COUNTS	REC.	DID	SHEEN	DEPTH FT,bsg	STRATA	DESCRIPTION	DETAIL	BOREHOLE/WELL CONSTRUCTION DETAIL	
	CRAB			0		5		Sandy Cravel Fill (GP), brown, low plostic fines; fine clayey sand; fine gravel; fill; moist.	See of the test of the	Well monument above-ground with concreagron. 2-inch lacking compression well at Concrete 0 to 1 foot. Bentonite 1 to 4 feet. Two 50 pound bags. 2-inch diameter, sch 40 solid PVC casing from above-ground to 7.5 feet.	
	GRAB			o		10-		Silt Fill (ML) brown; low plasticity; wet;			
				0		15—		TD 18'		10 x 20 sand; 4 to 18 feet, eleven 50 pound bags. 2-inch diameter, sch 40 0.010-slotted PVC well screen from 7.5 feet to 17.5 feet. 2-inch diameter, 6-inch deep threaded P	
	GRAB					20-				2-inch diameter, 6-inch deep threaded F end cap from 17.5 to 18 feet.	
	GRAB			0		25 — — — — 30 —					

DRILLING CONTRACTOR: GEOTECH EXPLORATIONS

DRILLING METHOD: HOLLOW-STEM TRACK RIG SAMPLING METHOD: GRAB DRILLING START TIME: 5-18-99 DRILLING END TIME: 5-18-99

COORDINATES: NA SURFACE ELEVATION: 93.03 CASING ELEVATION: 94.47

DATUM: ARBITRARY

BORING NUMBER

MW-4

7130 SW Elmhurst Street Tigard, Oregon 97223 (503) 620-2387

FAX (503) 620-2977

PROJECT NUMBER: 850-02

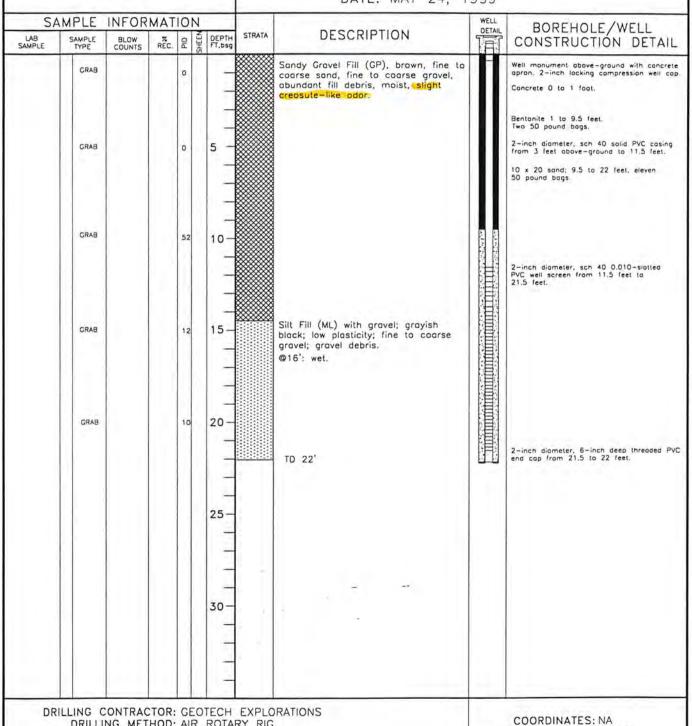
LOCATION: 10505 North Portland Road

LOGGED BY: C. Hultgren

PROJECT NAME: Larsen Property

REVIEWED BY: GJK

DATE: MAY 24, 1999



DRILLING METHOD: AIR ROTARY RIG

SAMPLING METHOD: GRAB DRILLING START TIME: 5-24-99 DRILLING END TIME: 5-24-99

COORDINATES: NA SURFACE ELEVATION: 90.99 CASING ELEVATION: 94.01 DATUM: ARBITRARY

BORING NUMBER

MW-5

7130 SW Elmhurst Street Tigard, Oregon 97223

(503) 620-2387 FAX (503) 620-2977 PROJECT NAME: Larsen Property

PROJECT NUMBER: 850-02

LOCATION: 10505 North Portland Road

LOGGED BY: C. Hultgren

REVIEWED BY: GJK

DATE: MAY 24, 1999

BLOW COUNTS	REC.	Old O O	DEPTH FT.bsg	STRATA	DESCRIPTION Sandy Gravel Fill (GP), brown, fine to coarse sand, fine to coarse gravel, abundant concrete, asphalt, brick and wood debris, moist.		BOREHOLE/WELL CONSTRUCTION DETAIL Well monument above-ground with concrete apron. 2-inch locking compression well concrete 0 to 1 foot.
			-		coarse sand, fine to coarse gravel, abundant concrete, asphalt, brick		apron. 2-inch locking compression well con
1 1			5 -				Bentonite 1 to 13 feet. Three 50 pound bags. 2-inch diameter, sch 40 solid PVC casing from 3 feet above-ground to 14.5 feet. 10 x 20 sand; 13 to 30.5 feet, eleven 50 pound bags.
		0	10-				
		0	15-				2-inch diameter, sch 40 0.010-slotted PVC well screen from 14.5 feet to 29.5 feet.
1		0	20-		Silt (ML) with gravel; dark gray to grayish black; low plasticity; clayey; micaceous; very moist to wet.		
		0	25-				
		o	30-		TD 30'		2-inch diameter, 6-inch deep threaded PVC end cap from 29.5 to 30 feet.
	CONTRAC		3 0	0 20-	0 20-	Silt (ML) with gravel; dark gray to grayish black; low plasticity; clayey; micaceous; very moist to wet.	Silt (ML) with gravel; dark gray to grayish black; low plasticity; clayey; micaceous; very moist to wet.

7130 SW Elmhurst Street

(503) 620-2387

SAMPLING METHOD: GRAB DRILLING START TIME: 5-24-99

DRILLING END TIME: 5-24-99

Tigard, Oregon 97223

FAX (503) 620-2977

PROJECT NAME: Larsen Property

PROJECT NUMBER: 850-02

LOCATION: 10505 North Portland Road

BORING NUMBER

CASING ELEVATION: 98.38

DATUM: ARBITRARY

MW-6

LOGGED BY: C. Hultgren REVIEWED BY: GJK

DATE: MAY 24, 1999

SAMPLE INFORMATION BOREHOLE/WELL DETAIL DESCRIPTION STRATA REC. 2 DEPTH LAB SAMPLE BLOW CONSTRUCTION DETAIL ĪĦ Well monument above-ground with concrete opron, 2-inch lacking compression well cap. Sandy Gravel Fill (GP), brown, fine to GRAB coarse sand, fine to coarse gravel, abundant concrete, asphalt, brick Concrete 0 to 1 foot. and wood debris, moist. Bentonite 1 to 13 feet. Two 50 pound bags. 2-inch diameter, sch 40 solid PVC casing from 3 feet above-ground to 14.5 feet. CRAB 0 10 \times 20 sand; 13 to 25 feet, eleven 50 pound bags. GRAB 10 2-inch diameter, sch 40 0.010-slotted PVC well screen from 14.5 feet to 24.5 feet. GRAB 15 0 Silt (ML); dark gray to grayish black; low plasticity; trace gravel and fill; clay. CRAR 0 20 @20': very moist. TD 25' 2-inch diameter, 5-inch deep threaded PVC end cop from 24.5 to 25 feet. CRAB 0 25 30-DRILLING CONTRACTOR: GEOTECH EXPLORATIONS COORDINATES: NA DRILLING METHOD: AIR ROTARY RIG SURFACE ELEVATION: 95.34

APPENDIX C GROUNDWATER COLLECTION FORMS

Well ID no	F	roject no	LArsen Property 850-02 Hultgar
Elevation mark Yes Well diameter 2 2-in	od 💆 Locked measured	ppm Other _	
Purge Data Total well depth 27-12' Depth to product Depth to water 18.03 Casing volume 9.09 Casing volumes 2"=0.1	_ft		Not measured /
Purge Method Pump type A Peristaltic Purge tubing A New LDPE Bailer type A Disposable Purge start time	☐ Teflon ☐	New Teflon Stainless	Other New Tygon
Field Parameters Meter used A HYDAC Gallons pH	pH2Tester Temperature		
CU-1 7.02	60	1170	competity respectively clear,
CU-1 7.33	57	11 39	sight ofor No sheen
CU-7 7.45	56	1120	
Dissolved Oxygen		Carbon D	Dioxide
Sampling Device Bailer Disposable Filter Type Bailer cord used	Stainless C Size (r	nicron)	Other Other Other
Bottles Filled Time_ Number Type VOA Amber P VOA Amber P VOA Amber P VOA Amber P Samplers Signature	oly HCL Nitric Coly HCL Nitric C	I Sulfuric □ No I Sulfuric □ No I Sulfuric ☑ No I Sulfuric □ No	one Other Yes No

Well ID no Sample no. CDate J-26-99	MW-2	Project r		850-02 ILTGREN
Well cap condition Headspace reading Elevation mark	Ø Good ØL Ø Not measured Ø Yes □ A	pr	Replaced om Other 6-inch	☐ Needs replacement ☐ Odor ☐ Other
Purge Data Total well depth 27,555 Depth to product Depth to water 20,6 Casing volume Casing volumes	ft		f = 0.5kg	☐ Not measured 2
Purge Method Pump type Peris Purge tubing New Bailer type Dispo	LDPE New HDF sable Teflon	Stainles	flon Nev	er v Tygon
Field Parameters Meter used ☐ YSI Gallons pH	XI HYDAC Temp	Cond	Other	ents
(U-1 792 (U-3 788 CO2=	60 60	672 689 682 DO=	oder, n	is clear bydrocabox?)
Sampling Device Bailer Disport Filter Type Bailer cord used	sable	(micron)	Oth Oth	er er er
Bottles Filled Number Type 3 VOA Amber VOA Amber VOA Amber VOA Amber VOA Amber Samplers Signature	er Poly HCL	ve Nitric Sulfurio Nitric Sulfurio Nitric Sulfurio Nitric Sulfurio	c ☐ None ☐ c ☑ None ☐	Other Yes No

Well ID noI Sample no\ Date			Project nar Project no. Collector_	ne:	BSO-02 C. Hultgrew
Well Information Monument of Well cap con Headspace of Elevation material	ondition	d ⊠ Lock neasured □ Add	ed 🚨 Ot	eplaced ther	□ Needs replacement □ Odor
D	pth 19,33 duct	EL			☐ Not measured ∠ X 3 =
Purge Methors Pump type Purge tubing Bailer type Purge start t	Peristaltic	☐ Centrifugal ☑ New HDPE ☐ Teflon Purge stop time	☐ New Teflo☐ Stainless	n Nev	w Tygon 🚨 Other
Field Param Meter used Gallons	☐ YSI	HYDAC Temp	Cond Cond	ther	nents
(V-1 (V-2 (V-3	7.42 7.56 7.54	56 57 50	1046 1182 1177 DO=	odor	is relatively clear, MD
Sampling D Bailer Filter Bailer cord u	Disposable Type	☐ Stainless Size_ Monofillame	_ (micron)	Oth	ner
	OA Amber Po	ly HCL Nitr ly HCL ☐ Nitr	ic Sulfuric Cic Sulfuric Sic S	None C None C None C	Other Yes No

Well ID no MW Sample no. W4 Date 5-26-99	- - 4 F	Project name Project no; Collector	Arsen Property 850-02 Hultgran
Well Information Monument condition Well cap condition Headspace reading Elevation mark Well diameter Odor	Good Needs no Second Needs no	☐ Replaced ppm ☐ Other ☐ 6-inch	
Depth to product	1.37 ft		
Purge Method Pump type Purge tubing Bailer type Purge start time	VLDPE New HDPE Dosable Teflon	New Teflon Q No Stainless Q P	ew Tygon 🚨 Other
Field Parameters Meter used HY Gallons pH	Temperature	Conductivity	
CU-1 8.02 CV-2 7.80 CV-3 7.68	61 6053 58	2160 2080 2030	mader is relatively clu no olur, no steen
Dissolved Ox	ygen	Carbon Diox	xide
Sampling Device Bailer		Teflon	ther ther ther
Bottles Filled Number Type 3 NOA AM I VOA AM L VOA AM VOA AM NOA AM Samplers Signature	ber ☐ Poly HCL ☒ Nitric ☐ ber ☐ Poly HCL ☐ Nitric ☐	Ì Sulfuric □ None Ì Sulfuric □ None Ì Sulfuric ☒ None Ì Sulfuric □ None	Other Yes No

Well ID no Sample no. Date	W-5		Project nai Project no. Collector_		Broidz Hultonen
Well Information Monument condition Well cap condition Headspace read Elevation mark Well diameter	lition Good	Lock neasured Adde	ppn ed 🗖 O	eplaced ther inch	☐ Needs replacement ☐ Odor ☐ Other
Purge Data Total well depth Depth to produce Depth to water_ Casing volume Casing volumes	37.26 TO 23 (3.03) (3.03) (2"=0.16)	ft X Clean bo ft ft ft ft (H₂O) X gpf	ottom ☐ Mudo 0.16 gpf 4"=0.65 gpf	dy bottom = <u>7. 28</u>	Not measured 2 X 3 = 6.25 6"= 1.47 gpf
Purge Method Pump type Purge tubing Bailer type Purge start time	Peristaltic New LDPE Disposable	Centrifugal New HDPE Teflon Purge stop time	☐ Submersi ☐ New Teflo ☐ Stainless	ble 🖵 Oth on 🗀 Nev	w Tygon
Field Paramete Meter used Gallons		HYDAC Temp	Cond C	ther Comm	
(va =	2.98 4.24 4.40	62 62 1	1,620 1,570 1,590 DO=	UN]	oder, No steen
Sampling Devi Bailer Filter Bailer cord used	Disposable Type	☐ Stainless _ Size Monofillame	(micron)		ner
AOV D	Time/ Amber □ Po \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Preservative Iy HCL ☑ Nitr Iy HCL ☑ Nitr Iv HCL ☑ Nitr	ic G Sulfuric	None C	Filtration Other Yes No

Well ID no Sample no. 5-26 9	mw-6 w6	Project nar Project no. Collector_	C. Huli	LArsen. 850-02 gren
Well Information Monument condition Well cap condition Headspace reading Elevation mark Well diameter	Good Land Not measured Yes A	ppm	her	Needs replacement Odor Other
Purge Data Total well depth 27.9 Depth to product Depth to water 19 Casing volume Casing volumes	ft / -54 ft -36 ft (H ₂ O) X	0.16 gpf 4"=0.65 gpf	= 1,65 x	
	v LDPE New HDP posable Teflon	al Submersib E New Teflor D Stainless me	□ New Tyg □ PVC	on Other
Field Parameters Meter used ☐ YSI Gallons pH	XHYDAC Temp	Cond Ot	her Comments	
CV-(7.20 CV-2 6.98 CV-3 6.96 CO2=	62 89 62 96 61 93	No oc	is slightly lor, No 31	off-coloned (Brown,
Sampling Device, Bailer Disp Filter Type_ Bailer cord used	oosable	(micron)	Other Other Other	
Bottles Filled NumberType 3	per□Poly HCL⊠IN per□Poly HCL□N	itric 🗆 Sulfuric 🗖	None Othe None Othe None Othe	er □ Yes ♀ No er □ Yes ☑ No

Well ID no My Sample no. W Date 7-28-99		Project name Project no CollectorC	- Hultgrew
Well Information Monument condition Well cap condition Headspace reading Elevation mark	o Good Locked	o Replaced o N	leeds replacement
Well diameter o Odor		o 6-inch	o Other
Dooth to water 17	→ 12 ft. o Clean bo — ft 98 ft 7.14 ft (H₂O) X D. 2"=0.16 gpf		
Purge tubing o Ne	sposable o Teflon	o New Teflon o N	ther ew Tygon o Other VC o Other ge rate [©] Q25 GPm
Field Parameters Meter used Gallons DH 40-1 7-32	Temperature 64	Conductivit	ther Y Comments WATER IS CLAR, NO CO NO Sheen
Cu.2 7,59	64	1529	NO Sheen
CU-J 7,62 Dissolved O	xygen	/5/6 Carbon Dio	xide
Sampling Device			
Bailer Dis	posable o Stainless	o Teflon o O	ther
Filter Type	Size	(micron) o O	ther
Bailer cord used	Monofillamen		ther
Bottles Filled Number Type	ber o Poly HCL & Nitric o ber o Poly HCL & Nitric o	Sulfuric o None o o Sulfuric o None o o	Filtration Othero Yes V No Othero Yes V No Othero Yes V No
o VOA o Am Samplers Signature_			Other o Yes o No

Well ID no $m \omega - 2$ Sample no. ωZ Date $7-23-99$		Project name Project no Collector	C. H.
Headspace reading Selevation mark	g Good o Needs repair o Good o Locked o g Not measured g Yes o Added g 2-inch o 4-inch	ppm o Othe	o Needs replacement er ch o Other
o Odor	Comments		
Purge Data Total well depth 23,5 Depth to product — Depth to water 20,8(Casing volume 2,7 Casing volumes 2	ft o Clean bottoftftftft (H₂O) X <u>O √ (</u> 2"=0.16 gpf 4"	m o Muddy l gpf = =0.65 gpf	©,44 x 3 = 1.37 6"= 1.47 gpf
Purge Method Pump type	DPE XNew HDPE o sable o Teflon o	New Teflon Stainless	o Other o New Tygon o Other o PVC o Other Purge rate_ < ○ . I G p ~
Field Parameters Meter used & HYDA Gallons pH CU-1 7.09 CU-2 6.77	Temperature 69 68	Condu	O Other <u>Ictivity</u> <u>Comments</u> Water is clear, <u>Stight ado</u> s, NO SHEW
Dissolved Oxyg	en	Carbo	n Dioxide
Sampling Device Bailer	sable o Stainless o Size (i		o Other o Other
Bottles Filled Number Type Y VOA o Amber O VOA Amber O VOA Amber O VOA o Amber	o Poly HCL o Nitric o S	Sulfuric o Noi Sulfuric o Noi Sulfuric o Noi	Filtration ne o Other o Yes x No ne o Other o Yes x No ne x Other o Yes x No ne o Other o Yes o No

Well ID no Sample no Date 7-2	mw-3 ω3 8-99	Project name Larsed Project no. Collector CH
Elevation ma	ndition & Good o Needs redition o Good & Locked eading & Not measured	o Replaced o Needs replacement ppm Added o Other4-inch o 6-inch o Other
o Odor	o Comments	
Depth to prod	uctft	an bottom o Muddy bottom \times Not measured O(6) gpf = $\frac{1.26}{4$ "=0.65 gpf 6"= 1.47 gpf
Purge tubing Bailer type	✓ Peristaltic o Centrifug o New LDPE ✓ New HDI	gal o Submersible o Other PE o New Teflon o New Tygon o Other o Stainless o PVC o Other time 0955 Purge rate < 0,725 G.Pm
Field Parame Meter used Gallons	Ø HYDAC o pH2Tes	Ire Conductivity Comments
CV-2	7,30 65	1641 No Steen
CV-3	7.37 65 olved Oxygen	Carbon Dioxide
Sampling De Bailer Filter Bailer cord us	Disposable o Stainless Type Size	o Other (micron) o Other ament o Other
	Time 1000 Type P A o Amber o Poly HCL & N A & Amber o Poly HCL o N A o Amber o Poly HCL o N	Preservative Filtration Itric o Sulfuric o None o Other o Yes \(\) No Itric o Sulfuric o None o Other o Yes \(\) No Itric o Sulfuric o None o Other o Yes \(\) No Itric o Sulfuric o None o Other o Yes o No Date \(\frac{7}{2} - 28 - 99 \)

Date 7-77-99	4	Project no.	Arsen
54.0		Collector CH	
Well Information Monument condition Well cap condition Headspace reading Elevation mark	o Good k Locked	ded o Other	eeds replacement
Well diameter o Odor		nch o 6-inch	o Other
	5.37 ft o Clean ft 0.83 ft 4.54 ft (H₂O) X		Not measured 72 x 3 = 2 . 2 6"= 1.47 gpf
Pump type Per Purge tubing o Ne Bailer type o Dis Purge start time 10	ew LDPE	o Stainless o P\	ew Tygon o Other /C o Other pe rate < 0.25 6,25
Field Parameters Meter used Gallons CV-1 7.48	Temperature	Conductivity	Comments water is clear no
CV-2 7,52			0907, 700 37
		1,927 Carbon Dio	
CV-2 7.52 CV-3 7.57 Dissolved O Sampling Device	sposable o Stainless	OTE Carbon DioOTE TE CARBON DIO	

Well ID no $p w - 3$ Sample no. $w = 5$ Date $y - 23 - 99$	/ = duplicate	Project name Project no Collector_ C #_	Larsev
Well Information Monument condition Well cap condition Headspace reading Elevation mark Well diameter		o Replaced o N ppm ded o Other	Needs replacement
	_o Comments		
Purge Data Total well depth 33 Depth to product Depth to water 22 Casing volume 10. Casing volumes	.26 ft o Clean ft .92 ft 3+ ft (H ₂ O) X _ 2"=0.16 gpf	bottom o Muddy botto $\frac{0.16}{4"=0.65} \text{ gpf} = \frac{1.0}{4}$	Mot measured Not measured X 3 = 5.0 6"= 1.47 gpf
Purge Method Pump type Per Purge tubing o Nev Bailer type o Dis Purge start time 11	v LDPE	o Stainless o F	Other New Tygon o Other PVC o Other rge rate <u>cour 68m</u>
Field Parameters Meter used X HY Gallons pH Cv-(6.78 Cv-2 6.88	'DAC o pH2Tester	1978 W	ity Comments Ater has slight brown to
CV-2 6.88	8 <u>68</u> 68	1957	is odog No sheep
Dissolved Ox		_ Carbon Di	oxide
Sampling Device			20.00
	posable o Stainless	o Teflon o 0	Other
	2.	/	
Filter Type_	The second secon		Other
, -	Monofillam		Other

Well ID no mw-losample no. wb Date 7-28-49	F F	Project name LA Project no CollectorCH	F Sed
Well Information Monument condition Well cap condition Headspace reading Elevation mark Well diameter o Odor	Good o Needs repair o Good Locked o F Not measured Yes o Added 2-inch o 4-inch o Comments	Replaced o Nee ppm o Other o 6-inch	o Other
Depth to product	7.99ft o Clean botton ft }.05ft <u>>.9 Yft</u> (H₂O) X <u>0.</u> (2"=0.16 gpf 4"=		
Purge Method Pump type Per Purge tubing o Ne	ristaltic o Centrifugal o S w LDPE New HDPE o N posable o Teflon o S	Submersible o Otho New Teflon o New Stainless o PVC	
Field Parameters Meter used AHY Gallons pH CV-1 6-7 CV-2	이 사용이 없어지다.		
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APPENDIX D SITE PHOTOGRAPHS



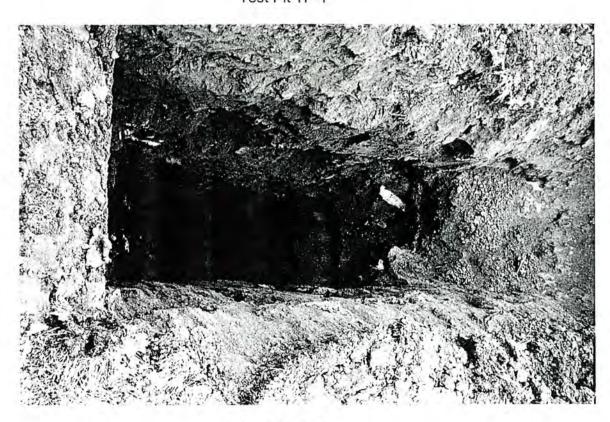
Material from Test Pit TP-1



Perched Water in Test Pit TP-1



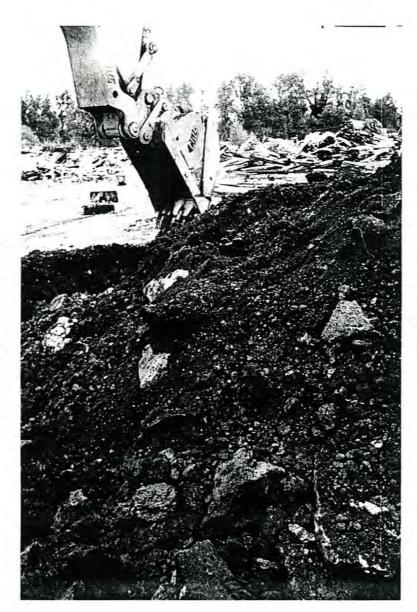
Test Pit TP-1



Test Pit TP-2



Material from Test Pit TP-3



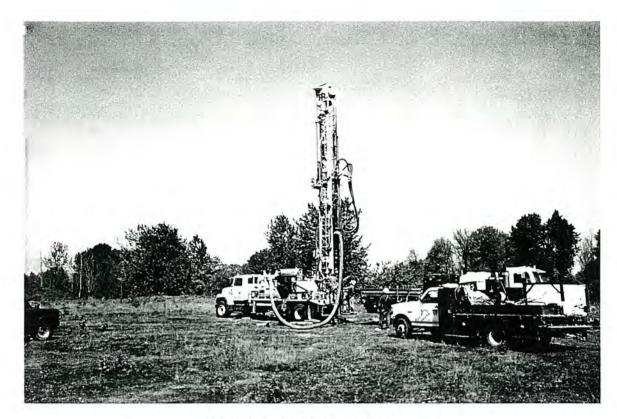
Test Pit TP-3



Drilling Monitoring Well MW-3



Drilling Monitoring Well MW-4



Drilling Monitoring Well MW-5



Drilling Monitoring Well MW-6





LIMITED SITE INVESTIGATION AND GROUNDWATER MONITORING BACKFILLED RETENTION PONDS 10505 NORTH PORTLAND ROAD PORTLAND, OREGON Poly a Sormal Monor Friday 1100 5 KLEINFELDER PROJECT NO. 60-5395-01

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July 6, 2000 Kleinfelder Project Number 60-5395-01

Mr. John O'Donovan City of Portland Bureau of Environmental Services 1120 SW 5th Avenue, Room 1000 Portland, OR 97204

Subject:

Limited Site Investigation And Groundwater Monitoring Backfilled Retention Ponds 10505 North Portland Road Portland, Oregon

Tornand, Orego

Dear Mr. O'Donovan:

Kleinfelder, Inc., is pleased to present this report describing limited site investigation and groundwater monitoring for the above-referenced property in Portland, Oregon. The investigation was conducted in accordance with Kleinfelder, Inc.'s, proposal No. 60-YP5521 dated April 27, 2000. We trust this information will meet your needs at this time.

We appreciate the opportunity to be of service on this project. Should you require additional information or if questions arise regarding this report, please contact this office at your convenience.

Very truly yours,

KLEINFELDER, INC.

John M. Day, R.G. Senior Project Manager

Peter L. Stroud, C.E.G.

Environmental Group Leader

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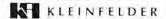
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A. Test Pit Logs

B.

Soil Sample Analytical Data Reports and Chain-of-Custody Forms Groundwater and Monitoring Well Sample Analytical Data Report and Chain-of-Custody Form C.



1.0 INTRODUCTION

This report describes the field activities and results of limited site investigation and groundwater monitoring at a property located at 10505 North Portland Road in Portland, Oregon (Figure 1). The property is informally referred to as the Larsen property. We understand that the City of Portland is considering purchasing the subject property.

Environmental impacts to soil and groundwater were previously detected by others in the area of the backfilled retention ponds located in the western portion of the property. The purpose of the investigation was to provide a preliminary evaluation of the potential presence of contaminants that may be currently present in soil and groundwater beneath the site from historic operations at and in the vicinity of the subject property. The field activities consisted of excavating 16 test pits in and around the former retention ponds for collection and analysis of grab soil samples, and collection and analysis of groundwater samples from six existing, onsite monitoring wells.

2.0 SITE DESCRIPTION

The subject property address is 10505 North Portland Road in Portland, Oregon (Figure 1). The site is situated in the northwest quarter of Section 5, Township 1 North, Range 1 East, Willamette Meridian (U.S. Geological Survey, 1990). The site encompasses approximately 13.3 acres.

The area of concern is located in the northern portion of the property where the former retention ponds are located. The ponds are located in the western portion of the area of concern. A bark dust processing company currently operates in the area of the former ponds. Several large bark dust stockpiles were located over portions of the southern and northeast ponds. The northwest pond is located adjacent to the Columbia Slough. The eastern portion of the area of concern contains a fenced storage area in the southeast corner, a building with a former truck washing pad in the northeast corner, and the remainder of this area is used for materials storage (Figure 2).

The area of concern is essentially level over a majority of the site and slopes moderately to steeply along the northern property boundary adjacent to the Columbia Slough. The property is bounded to the north by the Columbia Slough, to the south by the former Arrow Transportation facility, to the east by North Portland Road and a railroad right-of-way, and to the west by Columbia Steel.

BACKGROUND 3.0

St. John's Motor Express Bulk Liquid/Heavy Haul transportation company began operations at the site in 1964. Tank truck rinsate was discharged to natural ponds onsite. The company was purchased by Glenn Widing in 1967 and renamed Widing Transportation Company, Inc. (Widing). Widing continued the tank truck rinsing practices until 1975 when the ponds were replaced by a six-cell aeration treatment system and 30-acre artificial lagoons (retention ponds). Overflow from the treatment system was discharged to the lagoons. Pretreatment sludges were hauled to Chem-Nuclear in Arlington.

In 1980, Widing was directed by the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (DEQ) to fill in the lagoons due to the discovery of hazardous materials in the pond sludge layer (several inches thick). Results of sludge and water samples indicated phenols, phthalate, and heavy metals were present, but the concentrations detected did not qualify the sludge as a RCRA hazardous waste. The regulators agreed that the sludge could be left in place as long as a high clay content backfill was used. The lagoons have not been used since filling was accomplished. Truck rinsing continued after 1980, but the rinsate was discharged to the sanitary sewer system.

An estimate of waste generated at the facility in 1980 included 400 gallons per year (gal/yr) of oily waste; 35,000 gal/yr of phenolic resin waste; and 3,000 gal/yr of defoamer waste. Results of a 1978 study showed the following cargos had been carried by trucks being cleaned at the onsite facility: acids, caustics, defoamer, formaldehyde, latex, lignin liquor, organic solvent, phenol, polyvinyl acetate, resins, sodium silicate, sulphur lime, tall oil, wax, and wood preservative 1973: 35 TRUCKS PILLDAX , 1000-1500 GAL POLISENATOR /TAUCK (Ecology and Environment, 1981).

Arrow Transportation (Arrow) took over the site operations in 1986 (south of the subject area) and continued to discharge treated rinsate to the sanitary sewer system. Arrow reported a 75 to 100 gallon diesel fuel spill in December 1987. The spill was contained in a man-made collection system and cleaned up. In 1995, several underground storage tanks (USTs) were decommissioned at the subject property. The USTs included a fuel oil, a motor oil, a waste oil, a motor oil, gasoline fuel, and two diesel fuel USTs. Limited soil contamination was encountered, removed, treated onsite, and used as onsite backfill. A pocket of petroleum hydrocarbon contamination was left in-place beneath an onsite building (approximately 100 to 200 cubic yards of soil). No groundwater was encountered during the decommissioning activities. DEQ issued a No Further Action letter in March 1995 (DEQ, 1995).

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A Phase II Environmental Investigation conducted in 1998 for the subject property (PNG Environmental, Inc., 1999) indicates a residual sludge layer was not encountered in three test pits excavated within the former retention ponds, and that compounds related to residual sludge deposits (phenols) were not detected in soil samples. Low levels of petroleum constituents and phenolic compounds were detected in the onsite monitoring wells. The detected constituents were attributed to either the adjacent water treatment process area or to the former retention pond fill soils. Groundwater was calculated to flow towards the northwest toward the Columbia Slough.

4.0 RETENTION POND TEST PITS

On May 17 and 18, 2000, 16 test pits (TP-1 through TP-16) were excavated in the former retention ponds using a Kobelco trackhoe operated by Raven and Associates, Inc., (Raven) based in Gresham, Oregon. The test pits were advanced to observe subsurface soil conditions and to collect soil and select grab groundwater samples for potential laboratory analyses. The test pits were advanced to total depths of approximately 12 to 21 feet below the ground surface (bgs). The test pits were advanced to the maximum reach of the trackhoe (19 to 21 feet bgs), or the test pit was terminated due to abundant seepage that caused excessive soil stockpile runoff (test pit TP-6 was terminated at 15 feet bgs and test pit TP-16 was terminated at 12 feet bgs). The test pit locations are shown on Figure 2.

Soil and grab groundwater samples were collected during trenching as described in the following sections. A Kleinfelder geologist was onsite to observe the subsurface soil conditions and maintain a log of the test pits. Test pit logs are provided in Appendix A. Following completion of the test pitting, the test pits were backfilled with the excavated soil and the surface was trackrolled.

4.1 Soil Sampling and Field Screening

Two or three grab soil samples were collected from each test pit for potential laboratory analysis. The soil samples were collected at various depths based on conditions encountered during test pitting. A summary of the test pit sample numbers and depths is provided in Table 1. The soil samples were collected with the aid of the trackhoe bucket. Care was taken to collect soil that had not contacted the sides of the bucket. New, disposable, nitrile gloves were worn and replaced for each sample collected.



The soil samples were divided into a field screen sample and an archive sample. The field screen samples were screened in the field using a portable photoionization detector (PID) to evaluate the relative concentration of volatile organic vapors. The field screen samples were placed into ziplock plastic bags and allowed to volatilize before measuring the total volatile organic vapor concentration with the PID. The archive samples were placed in laboratory prepared containers, labeled, and immediately stored in a chilled cooler for potential laboratory analysis. The soil samples were transported under chain-of-custody documentation to the analytical laboratory.

4.2 Grab Groundwater Sampling

One grab groundwater sample was collected from test pit TP-6 because hydrocarbon odors and a sheen were noted on the groundwater surface. The sample was collected by lowering a new, disposable, polyethylene bailer into the test pit. The sample was transferred into laboratory prepared containers, labeled, and immediately stored in a chilled cooler for potential laboratory analysis. The water sample was transported under chain-of-custody documentation to the analytical laboratory.

4.3 Analytical Test Methods

If two soil samples were collected from a test pit, both samples were selected for laboratory analyses. If three samples were collected from a test pit, two of the three soil samples were selected for analysis based on the field screening results and site observations. The soil samples were submitted using chain-of-custody documentation to City of Portland, Bureau of Environmental Services, Water Pollution Control Laboratory in Portland, Oregon. All selected soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (semi-VOCs) by EPA Method 8270, and total RCRA 8 metals by EPA Method 6000/7000 series.

The grab groundwater sample collected from Test Pit TP-6 was analyzed for VOCs and semi-VOCs by the methods described above, and for dissolved RCRA 8 metals by EPA Method 200 series.

Copies of the soil analytical data reports and chain-of-custody forms are provided in Appendix B. A copy of the grab groundwater data report and chain-of custody form is provided in Appendix C. A summary of the soil analytical results is provided in Table 1. A summary of the grab groundwater analytical results is provided in Table 2.



5.0 GROUNDWATER MONITORING METHODS

On May 18, 2000, groundwater levels were measured in all site monitoring wells (MW-01 through MW-06) using an electronic oil-water interface probe. The monitoring well locations are shown on Figure 3.

Kleinfelder personnel sampled groundwater monitoring wells in accordance with the following protocols:

- The height of the water column within the well was calculated by subtracting the depth to water from the total depth of the well. The volume of the water column was calculated using the relationship V= 3.142r²h, where V is the volume of water in cubic feet, r is the radius of the well in feet, and h is the height of the water column in feet.
- Prior to collecting groundwater samples, the monitoring wells were purged using one or a combination of the following equipment: 1) a nondedicated, disposable, polyethylene bailer for each well, or 2) a PVC, submersible electric pump fitted with new, disposable, PVC tubing replaced at each well location. A minimum of three casing volumes of groundwater were removed from the wells, or the wells were purged dry and allowed to recharge, prior to sampling. Temperature, pH, and specific conductivity were monitored during the well purge. Standards of known pH were used to calibrate the field meter prior to use.
- The contract laboratory prepared sample containers to conform with EPA-recommended preservation techniques for the analytes of concern.
- Groundwater samples were collected with new, clean, disposable, polyethylene bailers at
 each well location (same bailer used to purge the well, if applicable). Sample containers
 were open only as long as necessary to collect the samples.
- Sample containers were labeled with a sample number, date, and time, and stored in an
 ice chest containing frozen "blue ice." Chain-of-custody procedures documented sample
 handling.
- To reduce the potential for cross-contamination, non-disposable developing and sampling
 equipment were washed in a trisodium phosphate solution and rinsed with distilled water.
 New, disposable, nitrile gloves were worn and replaced at each well location.

The groundwater samples were submitted for laboratory analyses using chain-of-custody documentation to the City of Portland, Bureau of Environmental Services, Water Pollution Control Laboratory in Portland, Oregon. Similar to the soil samples, the monitoring well groundwater samples were analyzed for VOCs by EPA Method 8260, semi-VOCs by EPA Method 8270, and total RCRA 8 metals by EPA Method 6000/7000 series.

A copy of the analytical laboratory report and chain-of-custody form are provided in Appendix C. A summary of the monitoring well groundwater analytical results is provided in Table 3.

Purge water was transferred into 55-gallon drums, labelled, and left onsite.

6.0 RESULTS

6.1 Former Retention Pond Test Pits

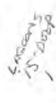
6.1.1 Subsurface Conditions

Subsurface conditions encountered in the test pits generally consisted of clayey to silty fill soils with varying amounts of debris (concrete, wood, plastic, brick, piping and rebar). Abundant large concrete and asphalt debris (up to 3 feet diameter) was encountered in a majority of the test pits from generally 6 to 14 feet bgs, although the thickness at each test pit location varied. The fill soils appeared to extend to a depth of at least 21 feet bgs in the large southern retention pond and the northwest retention pond. It should be noted that test pit TP-2 was excavated east of the pond limits delineated on the map provided by the City of Portland. A sludge layer indicative of bottom retention pond sediments was not observed in any of the test pits.

Potential native soils consisting of gray silt and sandy silt were encountered in the northeast retention pond. These soils were encountered in test pits TP-8 and TP-3 at depths of approximately 20.5 and 18 feet bgs, respectively.

Test pits TP-12, TP-13, and TP-14 were excavated outside of the edge of the ponds as delineated on the map provided by the City of Portland. Similar fill soils as described above were encountered in test pits TP-12, TP-13, and TP-14 to depths of approximately 21, 18, and 11 feet, respectively. Underlying the fill soils were apparent native soils generally consisting of gray or mottled brown and light brown, silt and clay.

Seepage was not encountered in all of the test pits. Where encountered, the observed seepage appeared to occur at depths ranging from approximately 7 to 20 feet bgs. The irregular seepage





depths are likely the result of the inhomogeneous nature of the fill soils. Groundwater was encountered in test pit TP-6 at approximately 13 feet bgs. The groundwater in test pit TP-6 is likely perched and limited in extent based on the absence of significant water bearing zones in the other test pits at this depth.

Fill soils stained black or gray were observed in test pits TP-1, TP-2, and TP-8 located in the northeast corner of the former retention pond area, and in TP-6 where a sheen and hydrocarbon odor were noted in the groundwater seepage. The field screening results indicated volatile organic vapors were not detected except in test pits TP-6 at the seepage depth (13 feet bgs), TP-10 at 16 feet bgs, and TP-12 at 21 feet bgs. No unusual odor or staining were noted in TP-10 or TP-12, and the volatile organic vapor results may be due to biogenic-related sources.

6.1.2 Soil Analytical Results

One VOC analyte, 2-butanone, was detected in all of the soil samples analyzed. It is our opinion that laboratory contamination is the cause of the reported 2-butanone concentrations, and the laboratory results for this analyte do not represent environmental conditions at the site.

Soil samples were collected and analyzed at various depths in the fill soils to assess potential environmental impacts throughout these materials. The analytical results of the fill soil samples indicated that in general, few VOC constituents (except in test pit TP-6) and semi-VOC constituents were detected. Other than in test pit TP-6 at 13 feet bgs, the other test pit VOC constituents detected (excluding 2-butanone) included: naphthalene (408 micrograms per kilogram (μg/kg)) and p-isopropylbenzene (126 μg/kg) in TP-2 at 19 feet bgs and 1,2,4-trimethylbenzene (299 μg/kg) and naphthalene (148 μg/kg) in TP-11 at 11 feet bgs. VOC constituents detected in test pit TP-6 at 13 feet bgs included: 1,1,2-trichloroethane (249 μg/kg); 1,2,4-trimethylbenzene (2,470 μg/kg); 1,2-dichlorobenzene (1,100 μg/kg); 1,4-dichlorobenzene (1,460 μg/kg); chlorobenzene (8,650 μg/kg); isopropylbenzene (402 μg/kg); total xylenes (3,390 μg/kg); n-butylbenzene (571 μg/kg); n-propylbenzene (646 μg/kg); naphthalene (3,020 μg/kg); p-isopropyltoluene (642 μg/kg); and sec-butylbenzene (232 μg/kg).

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Semi-VOCs detected in the fill soil samples included: fluoranthene (38.83 milligrams per kilogram (mg/kg)) and pyrene (3.98 mg/kg) in TP-2 at 5 feet bgs; fluoranthene (1.11 mg/kg), phenanthrene (0.67 mg/kg), and pyrene (1.34 mg/kg) in TP-3 at 10 feet bgs; phenanthrene (28.9 mg/kg) in TP-6 at 13 feet bgs; fluoranthene (0.95 mg/kg) and pyrene (0.872 mg/kg) in TP-7 at 17 feet bgs; and benzyl butyl phthalate (0.46 mg/kg) in TP-15 at 21 feet bgs.

The following ranges in total RCRA 8 metals concentrations were detected in the fill soil samples: 2.0 to 21.7 mg/kg (arsenic); 80 to 220 mg/kg (barium); 0.70 to 3.36 mg/kg (cadmium); 14 to 35 mg/kg (chromium); 7.3 to 130 mg/kg (lead); 0.0075 to 4.88 mg/kg (mercury); less than detection limit of 0.25 to 0.32 mg/kg in TP-10 only (selenium); and silver was not detected at or above the laboratory method report limit of 0.30 mg/kg.

Samples of apparent native soils were collected in test pits TP-3 at 21 feet bgs, TP-8 at 19 feet bgs, TP-12 at 21 feet bgs, TP-13 at 19 and 21 feet bgs, and TP-14 at 12 and 20 feet bgs. The analytical results indicated VOCs and semi-VOCs were not detected at or above the laboratory method reporting limits in these samples. The maximum concentrations detected for the RCRA 8 metals were 9.11 mg/kg (arsenic), 220 mg/kg (barium), 0.19 mg/kg (cadmium), 31 mg/kg (chromium) 20 mg/kg (lead), 0.042 mg/kg (mercury), 0.27 mg/kg (selenium), and silver was not detected at the laboratory method reporting limit of 0.30 mg/kg.

6.1.3 Test Pit TP-6 Grab Groundwater Sample

The VOC constituents detected in the groundwater sample included: 1,2,4-trimethylbenzene (6.71 micrograms per liter (μ g/L); 1,2-dichlorobenzene (6.71 μ g/L); 1,3,5-trimethylbenzene (1.92 μ g/L); 1,4-dichlorobenzene (5.88 μ g/L); acetone (43.0 μ g/L); benzene (8.59 μ g/L); chlorobenzene (129 μ g/L); cis-1,2-dichloroethene (2.43 μ g/L); ethylbenzene (58.9 μ g/L); isopropylbenzene (1.93 μ g/L); total xylenes (86.0 μ g/L); n-butylbenzene (1.04 μ g/L); n-propylbenzene (2.08 μ g/L); naphthalene (17.1 μ g/L); p-isopropyltoluene (19.2 μ g/L); and vinyl chloride (1.71 μ g/L).

The semi-VOC constituents detected in the grab groundwater sample included: 2-methylnaphthalene (14.7 μ g/L); 3-,4-methylphenol (10.1 μ g/L); acenaphthene (10.5 μ g/L); anthracene (11.3 μ g/L); bis(2-ethylhexyl)phthalate (63.7 μ g/L); fluoranthene (16.6 μ g/L); naphthalene (23.3 μ g/L); phenanthrene (34.0 μ g/L); phenol (67.1 μ g/L); and pyrene (15.3 μ g/L).

The dissolved RCRA 8 metals analytical results indicated arsenic (0.058 milligrams per liter (mg/L)) and barium (0.019 mg/L) were detected. Cadmium, chromium, lead, mercury, selenium, and silver were not detected at or above the laboratory method reporting limits listed in Table 2.

6.2 Groundwater Monitoring Results

Free product was not detected in any of the onsite monitoring wells (wells MW-1 through MW-6). Static groundwater levels measured in the monitoring wells ranged from 10.73 to 20.83 feet below the top of the well casings, and the corresponding groundwater elevations ranged from 67.27 to 83.74 feet above mean sea level. The groundwater elevation data indicated the apparent, near-surface groundwater flow direction was towards the north to northwest (towards the Columbia Slough) with an average hydraulic gradient of approximately 0.002 ft/ft (Figure 3). PNG Environmental, Inc., attributed the water level in well MW-3 to a perched water zone. A similar anomalous water level was measured on May 18, 2000, by Kleinfelder, Inc. As a result, the water level in this well was not used in the evaluation of the groundwater flow direction and gradient.

Similar to the soil analytical results, the monitoring well groundwater analytical results indicate that, in general, few VOC constituents were detected and semi-VOCs were not detected at or above the laboratory method reporting limits. The VOC results are described below.

MW-01: VOC constituents detected were: benzene (1.13 micrograms per liter (μ g/L)); chlorobenzene (4.21 μ g/L); chloroethane (7.46 μ g/L); hexachlorobutadiene (2.64 μ g/L); and n-butylbenzene (1.01 μ g/L).

MW-02: VOC constituents detected included only hexachlorobutadiene (3.01 µg/L).

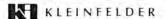
MW-03: VOC constituents detected included acetone (18.5 μ g/L) and hexachlorobutadiene (2.01 μ g/L).

MW-04: VOC constituents detected included only 1,1-dichloroethane (1.71 µg/L).

MW-05 and MW-06: VOC constituents were not detected at or above the laboratory method reporting limits.

The following ranges in total RCRA 8 metals concentrations were detected in the monitoring well samples: 0.062 to 0.3 milligrams per liter (mg/L) (arsenic); 0.2 to 4.6 mg/L (barium); 0.049 mg/L (cadmium) detected in well MW-04 only; 0.2 to 1.1 mg/L (chromium); 0.44 to 5.7 mg/L (lead); 0.0005 to 0.0026 mg/L (mercury); selenium was not detected above the method reporting limit in any well; and silver was detected (0.015 mg/L) in well MW-04 only.

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7.0 REGULATORY SCREENING LEVELS

State numeric soil cleanup standards for simple sites where groundwater has not been impacted are present in the Oregon Soil Cleanup Table (Oregon Administrative Rule (OAR) 340-122-045, Table 1 and Appendix 1) (DEQ, 1994). These cleanup standards can be used as screening levels where groundwater has been impacted. The state cleanup rules specify the total risk level for contaminants at a site cannot exceed one-in-a-million (risk level of 1x10⁻⁶). Federal Environmental Protection Agency (EPA), Region 9, Preliminary Remediation Goals (PRGs) (EPA, 1996) are also used for preliminary risk screening for soil at contaminated sites. The state and federal soil screening levels are provided in Table 4.

State groundwater numeric groundwater quality screening levels are also specified in the Oregon Soil Cleanup Table (Oregon Administrative Rule (OAR) 340-122-045, Appendix 1) (DEQ, 1994). The federal EPA, Region 9, PRGs (EPA, 1996) are also used for preliminary risk screening for groundwater. The state and federal groundwater screening levels are provided in Table 4. It should be noted that the groundwater PRGs are based on tap water ingestion. These values are used for preliminary evaluation of potential risks that may be posed by site contaminants.

8.0 FINDINGS AND CONCLUSIONS

The following findings and conclusions are based on Kleinfelder's knowledge of the subject property from information provided by the City of Portland, site observations, information gathered during this site characterization, and information collected by others during previous investigations. The conclusions are subject to the limitations presented in this report, and may change if additional information becomes available.

The former retention ponds contain fill soils (most notably evidenced by construction fill debris such as concrete, asphalt, wood, etc.) to depths greater than reported by previous investigations and information provided by the City of Portland. The fill soils extend to depths ranging from approximately 18 to 20.5 feet bgs in the northeast retention pond and greater than 21 feet bgs in the south and northeast retention ponds. A sludge layer was not observed in any of the test pits. Additionally, the fill soils extend beyond the former retention pond limits delineated by a map provided by the City of Portland. The extent of the fill soils was not completely delineated during this investigation and is unknown at this time.

Perched groundwater was observed at variable depths in the fill soils. The variable depths are likely due to the inhomogeneous nature of the fill soils. Seepage was encountered at various depths (7 to 20 feet bgs) in the test pits. Groundwater encountered in test pit TP-6 (13 feet bgs) is apparently perched based on the absence of significant water-bearing zones in the other test pits at the same depth. PNG Environmental, Inc., also noted that the water level in well MW-3 is likely related to a perched water zone. The apparent groundwater flow direction across the site is toward the Columbia Slough (towards the north to northwest). The static groundwater levels in the wells ranged from approximately 10.7 to 20.8 feet bgs.

Generally low total RCRA 8 metals concentrations were detected in all soil samples analyzed (fill soil and apparent native soil samples), and few VOC and semi-VOC constituents were detected except in test pit TP-6 at 13 feet bgs. An apparent, perched groundwater zone was encountered at 13 feet bgs in test pit TP-6. Except for arsenic, the detected constituents did not exceed the regulatory screening levels (DEQ industrial maximum allowable soil concentrations and EPA PRGs).

Arsenic was detected above the screening level (3.0 mg/kg) in 23 of the 33 soil samples analyzed. Arsenic was detected at the site ranging from 2.0 to 21.7 mg/kg with an average concentration of 5.43 mg/kg. It is our opinion that the arsenic concentrations in soil at the site are not significantly elevated compared to background based on the following:

- Background arsenic concentrations in surficial soils in Oregon (Boerngen and Shacklette, 1981) are reported to range from 1.1 to 12.0 mg/kg.
- Arsenic concentrations in test pit TP-6 were 20.9 and 21.7 mg/kg at 5 and 13 feet bgs, respectively, but all other concentrations did not exceed 9.1 mg/kg which is within the range of the reported background concentrations.
- Arsenic concentrations detected in the apparent native soil (3.33 to 9.11 mg/kg) are comparable to the concentrations detected in the fill soils.

Low levels of VOCs were detected in wells MW-01 through MW-04 which are located east of the former retention ponds. VOCs and Semi-VOCs were not detected in wells MW-5 and MW-6 located within the south and northwest ponds, respectively. The data suggest that the environmental impacts detected in wells MW-01 through MW-04 may be related to sources other than the former backfill soils in the former retention ponds. This interpretation is further supported considering that the highest level of VOCs detected were in well MW-01 which is upgradient of the former pond areas. Other potential sources of groundwater impacts are the L:\2000\Projects\539501\sitechar\Final\6020R670.doc Page 11 of 14

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former Arrow Transportation facility located south (upgradient) of the pond area, and the former wash pad area east (crossgradient) of the pond area. Constituents that exceeded the regulatory screening levels in the monitoring well samples included: arsenic, barium, cadmium, chromium, lead, mercury, benzene, and hexachlorobutadiene. Considering that the shallow aquifer beneath the site is not currently a drinking water source, and is not likely to be used as a drinking water source in the foreseeable future, the metal contaminants listed above are not considered to be an immediate threat to human health or the environment.

Perched groundwater in the vicinity of test pit TP-6 contained generally low levels of numerous VOC and semi-VOC compounds (Table 2). Constituents that exceeded the screening levels in the grab groundwater sample collected from the test pit included: benzene; 1,4-dichlorobenzene; naphthalene; vinyl chloride; and bis (2-ethylhexyl)phthalate. Dissolved metals screening levels have not been established for comparison. The generally elevated soil and groundwater concentrations detected in test pit TP-6 suggest that the source for the contaminants is likely localized in the area of test pit TP-6.

9.0 RECOMMENDATIONS

The following recommendations are based on the results of this investigation and our knowledge of the site:

- The screening levels presented in this report are for preliminary purposes only and are
 based on conservative assumptions of potential exposure to the impacted media (i.e.,
 groundwater ingestion). A site-specific risk assessment based on present and future
 exposure pathways could be conducted to develop site-specific cleanup levels.
- If further assessment of the groundwater conditions is desired, additional investigation could be performed to: 1) evaluate background groundwater concentrations of the constituents of concern, 2) evaluate the potential upgradient source(s) of the contaminants, and 3) further evaluate groundwater conditions within the former retention ponds.
- Additional assessment of the former retention pond backfill soils does not appear to be warranted at this time.

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10.0 REFERENCES

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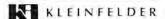
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U.S. Geological Survey, 1990, Portland Quadrangle, 7.5 Minute Series.

11.0 LIMITATIONS

Kleinfelder has performed the work described in this report in accordance with the generally accepted standard of care existing in the State of Oregon at the time of the assessment. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface and historical conditions applicable to the study area. More extensive studies including historical review, additional site exploration, soil and groundwater sampling, and chemical analyses may be used to supplement the information presented by this assessment. Kleinfelder should be notified for additional consultation if the City of Portland wishes to reduce uncertainties beyond the level associated with this assessment. Our assessment of the property may also change as new data becomes available during additional site exploration, remediation, or development.



Since activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the report.

This report may be used only by the client and DEQ, and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on and off-site) or other factors may change, and additional work may be required with the passage of time. Any party other than the client and DEQ who wishes to use this report shall notify Kleinfelder of such intended use and obtain permission. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the clients or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

No warranty, express or implied, is made.

12.0 PROFESSIONAL AUTHENTICATION

This report was prepared and reviewed by the undersigned. This report is void if original seal and signature are not present.



John M. Day, R.G. Senior Project Manager



Peter L. Stroud, C.E.G. Environmental Group Leader

TABLE 1 (page 1 of 5) SUMMARY OF SOIL ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD BACKFILLED RETENTION PONDS PORTLAND, OREGON

Test Pit No.	Sample Date	Sample Identification Number	Sample Depth (ft bgs)	VOCs EPA Method 8260B (ug/kg) [1]	Semi-VOCs EPA Method 8270 (mg/kg) [1]		Total RCRA 8 Metals EPA Method 6000/7000 Series (mg/kg)
TP-1	5/17/2000 FF	TP-1-7	7°	2-butanone 6,4	not detected	ND	Arsenic 2.6 Barium 12 Cadmium 0.07 Chromium 2 Lead 7. Mercury 0.007 Selenium <0.2 Silver <0.
TP-1	5/17/2000	TP-1-19	19	2-butanone 1,1	not detected.	ND	Arsenic 7.1 Barium 22 Cadmium 0.2 Chromium 2 Lead 7 Mercury 0.0 Selenium <0.2 Silver <0.0
TP-2	5/17/2000	TP-2-5	5	2-butanone 1,1	fluoranthene pyrene	3.83 3.98	Arsenic 6,9 Barium 11 Cadmium 0. Chromium 2 Lead 2 Mercury 0.0 Selenium <0.2
TP-2	5/17/2000	TP-2-19 BSG	19		not detected 08 26	ND	Arsenic 6.4 Barium 12 Cadmium 0.1 Chromium 1 Lead 7 Mercury 4.8 Selenium <0.2 Silver <0.2
TP-3	5/17/2000	TP-3-10	10	2-butanone 1,1	fluoranthene phenanthrene pyrene	1.11 0.67 1.34	Arsenic 7, Barium 18 Cadmium 0, Chromium 2 Lead 3 Mercury 0.07 Selenium <0.2 Silver <0.00
TP-3	5/17/2000	TP-3-21	21	2-butanone 1,3	70 not detected	ND	Arsenic 5.3 Barium 22 Cadmium 0.1 Chromium 3 Lead 2 Mercury 0.02 Selenium <0.2
TP-4	5/17/2000	TP-4-11	11	2-butanone 1,2	not detected	ND	Arsenic 4.5 Barium 17 Cadmium 0.1 Chromium 2 Lead 2 Mercury 0.03 Selenium <0.2 Silver <0
TP-4	5/17/2000	78-4-21 35-64 56	21 N N	2-butanone 1,0	70 not detected	ND	Arsenic 4.9 Barium 19 Cadmium 0.2 Chromium 2 Lead 13 Mercury 0.0.5 Selenium <0.2 Silver <0.0

TABLE 1 (page 2 of 5) SUMMARY OF SOIL ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD BACKFILLED RETENTION PONDS PORTLAND, OREGON

Test Pit No.	Sample Date	Sample Identification Number	Sample Depth (ft bgs)	VOCs EPA Method 826 (ug/kg) [1]	0В	EPA Met	-VOCs thod 8270 g/kg) 1]	Total RCR. EPA Method 60 (mg	000/7000 Series
TP-5	5/17/2000	TP-5-11	11	2-butanone	1,010	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	2.7 15 0.0 2 7. 0.02 <0.2
TP-5	.5/17/2000	TP-5-21	21	2-butanone	1,050	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	6.9 15 0.2 2 1. 0.02 <0.2 <0.2
TP-6	5/17/2000	TP-6-5	5	2-butanone	1,210	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	20. 21: 0.1 3 1 0.03 <0.2 <0.
TP-6	5/17/2000	P-6-13 P-6-13 P-6-3	13 0.5	1.1.2-Inchloroethane 1.2.4-Irimethylbenzene 1.2-dichlorobenzene 1.4-dichlorobenzene chlorobenzene isopropylbenzene m.p-xylene o-xylene n-butylbenzene n-propylbenzene naphthalene p-isopropyltoluene sec-butylbenzene	249 2,470 1,100 1,460 8,650 402 2,040 1,350 571 646 3,020 642 232	phenanthrene =8.5 mg/kg -	PRG-10, FW	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	21. 141 3.33 4: 8 0.1: <0.: <0.3:
TP-7	5/17/2000	TP-7-5	5	2-butanone	1,220	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	2.69 130 0.11 11 22 0.00 <0.21 <0.21
TP-7	5/17/2000	BITOU) V	2-butanone	1,220	fluoranthene pyrene	0.95 0.872	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	2.51 80 0.11 2 11 0.024 <0.24
TP-8	5/17/2000	TP-8-5	5	2-butanone	1,320	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	6.3i 13i 0.1' 2i 9.3 0.01! <0.2:

TABLE 1 (page 3 of 5) SUMMARY OF SOIL ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD BACKFILLED RETENTION PONDS PORTLAND, OREGON

Test Pit No.	Sample Date	Sample Identification Number	Sample Depth (ft bgs)	VOCs EPA Method 826 (ug/kg) [1]	60B	Semi-VOC EPA Method (mg/kg) [1]		Total RCRA EPA Method 600 (mg/l	00/7000 Series
TP-8	5/17/2000	TP-8-19	19	2-butanone	1,300	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	3.5 11 0.1 1 7. 0.01 <0.2 <0.
TP-9	5/17/2000	TP-9-5	5	2-butanone	1,160	not detected	ŃΟ	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	3. 11 0.1 1 1 0.02 <0.2 <0.2
TP-9	5/17/2000	TP-9-11	11	2-butanone	1.230	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	6.0 20 0.1 2 1 0.01 <0.2 <0.
TP-10		TP-10-10 BONUSU SUNV	10	2-butanone	1,130	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	5.2 15 0.1 2 5 0.02 <0.2 <0.2
TP-10	5/17/2000	TP-10-16 652644	16	2-butanone	1,020	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	4.4 20 0.4 2 7 0.06 0.3 <0.
TP-11	5/17/2000	TP-11-5	5	2-butanone	1,100	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	3.0 15(0.1: 2: 1; 0.0: <0.2: <0.2:
TP-11	5/17/2000	TP-11-11	11	1.2.4-trimethylbenzene 2-butanone naphthalene	299 1,390 148	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	4:5* 110 0.3 11 4: 0.022 <0.2: <0.3
TP-11	5/17/2000	TP-11-21 BS-COV 5001	21	2-butanone	1,180	not detected	ND	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	2.0 100 0.08; 2 1: 0.008; <0.2; <0.3

TABLE 1 (page 4 of 5) SUMMARY OF SOIL ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD BACKFILLED RETENTION PONDS PORTLAND, OREGON

Test Pit No.	Sample Date	Sample Identification Number	Sample Depth (ft bgs)	VOCs EPA Method 8260B (ug/kg) [1]	Semi-VOCs EPA Method 8270 (mg/kg) [1]	Total RCRA 8 Metals EPA Method 6000/7000 Series (mg/kg)
TP-12	5/18/2000	TP-12-5	5	2-butanone 1,5	80 not detected N	D Arsenic 2. Barium 14 Cadmium 0,0 Chromium 3 Lead 8. Mercury 0,03 Selenium <0.2 Silver <0.0
TP-12	5/18/2000	TP-12-21	21	2-butanone 1,3	90 not detected N	D Arsenic 7.6 Barium 18 Cadmium 0.1 Chromium 2 Lead 1 Mercury 0.02 Selenium <0.2 Silver <0.00
TP-13	5/18/2000	TP-13-19	19	2-butanone 1.1	90 not delected N	D Arsenic 3.3
TP-13	5/18/2000	TP-13-21	21	2-butanone 1,2	not detected N	D Arsenic 2.5 Barium 14 Cadmium 0 Chromium 2 Lead 4 Mercury 0.0 Selenium <0.2 Silver <0
TP-14	5/18/2000	TP-14-12	12	2-butanone 1,0	not detected Ni	Arsenic 9,: Barium 18 Cadmium 0,: Chromium 2 Lead 1 Mercury 0,00 Selenium <0,2 Silver <0
TP-14	5/18/2000	TP-14-20	20	2-butanone 1,3	not detected Ni	Arsenic 3 Barium 16 Cadmium 0,1 Chromium 1 Lead 6 Mercury 0.02 Selenium <0.2 Silver <0
TP-15	5/18/2000	TP-15-12	12	2-butanone 1,2	90 not detected NI	Arsenic 4.7 Barium 20 Cadmium 0.2 Chromium 2 Lead 2 Mercury 0.00 Selenium <0.2 Silver <0
TP-15	5/18/2000	TP-15-21	21	2-butanone 1,2	benzyl butyl phthalate 0.4	Arsenic 16. Barium 14. Cadmium 0.1. Chromium 2 Lead 8. Mercury 0.01 Selenium <0.2

TABLE 1 (page 5 of 5) SUMMARY OF SOIL ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD **BACKFILLED RETENTION PONDS** PORTLAND, OREGON

Test Pit No.	Sample Date	Sample Identification Number	Sample Depth (ft bgs)	VOCs EPA Method 8260B (ug/kg) [1]		Semi-VOCs EPA Method 8270 (mg/kg) [1]	Ī	Total RCRA 8 Metals EPA Method 6000/7000 Serie (mg/kg)	s
TP-16	5/18/2000	TP-16-5	5	2-butanòne	1,270	not detected	ND	Barium Cadmium Chromium Lead Mercury	2.98 150 0.13 19 11 0.014 <0.25 <0.3
TP-16	5/18/2000	TP-16-9	9	2-butanone	1,210	not detected	ND	Barium Cadmium Chromium Lead Mercury	2.35 100 0.11 17 12 0.026 <0.25 <0.3

1. Only analytes detected at or above the laboratory method reporting limits are listed. The reporting limits are provided in the analytical data reports included in Appendix B.

VOCs Volatile Organic Compounds

RCRA Resource Conservation and Recovery Act ug/kg Micrograms per kilogram, parts per billion. Milligrams per kilogram, parts per million.

<0.25 ND

Not detected at or above the laboratory method reporting limit listed.

Analytes not detected at or above the laboratory method reporting limits. The reporting limits are provided in the analytical data reports included in Appendix B.

TABLE 2 SUMMARY OF GRAB GROUNDWATER (TP-6) ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD **BACKFILLED RETENTION PONDS** PORTLAND, OREGON

Test Pit No.	Sample Date	Sample Identification Number	VOCs EPA Method 8260E (ug/L) [1]	3	Semi-VOCs EPA Method 8270 (ug/L) [1]		Dissolved RC EPA Method (mg.	200 Series
TP-6	5/17/2000	TP-6	1,2,4-trimethylbenzene 1,2-dichlorobenzene 1,3,5-trimethylbenzene 1,4-dichlorobenzene acetone benzene chlorobenzene cis-1,2-dichloroethene ethylbenzene total xylenes isopropylbenzene n-butylbenzene n-propylbenzene n-propylbenzene n-propylbenzene n-propylbenzene n-propylbenzene n-propylbenzene n-propylbenzene n-propylbenzene p-isopropyltoluene	10.4 6.71 19.2 5.88 43 8.59 129 2.53 58.9 86 1.93 1.04 2.08 17.1 28.3	2-methylnaphthalene 3-,4-methylphenol acenaphthene anthracene bis(2-ethylhexyl)phthalati fluoranthene naphthalene phenanthrene phenol pyrene	14.7 10.1 10.5 11.3 63.7 16.6 23.3 34 67.1 15.3	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	0.05 0.01 <0.0 <0.0 <0.1 <0.000 <0.0 <0.0

Only analytes detected at or above the laboratory method reporting limits are listed. The reporting limits are provided in the analytical data reports included in Appendix C.

VOCs Volatile Organic Compounds

RCRA Resource Conservation and Recovery Act ug/L Micrograms per liter, parts per billion.

mg/L Milligrams per kilogram, parts per million.

VOCs Volatile Organic Compounds

Not detected at or above the laboratory method reporting limit listed.

TABLE 3 SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS CITY OF PORTLAND 10505 NORTH PORTLAND ROAD **BACKFILLED RETENTION PONDS** PORTLAND, OREGON

Well No. Elevation[1] Diameter [2] Well Depth [3]	Sample Date	Sample Identification Number	Depth to Ground- water [3]	Ground- water Elevation [4]	Product Thickness [5]	VOCs EPA Methods 8260B (ug/L) [6]	Semi-VOCs EPA Method 8270 (ug/L) [6]	Total RCRA 8 Metals EPA Method 200 Series (mg/L)
MW-01 96.62 2 25	5/18/2000	MW1-05180	17.67	78.95	0.0	benzene 1.13 chlorobenzene 4.21 chloroethane 7.46 hexachtorobutadiene 2.64 n-butylbenzene 1.01	not detected. ND	Arsenic <0.0 Barium 0.2: Cadmium <0.0: Chromium <0.0: Lead <0. Mercury 0.000 Selenium <0.0: Silver <0.0
MW-02 88,08 2 23	5/18/2000	MW2-05180	20.81	67,27	0.0	hexachlorobutadiene 3.01	not detected ND	Arsenic 0.0 Barium 0.1 Cadmium <0.0
MW-03 94.47 2 20	5/18/2000	MW3-05180	10.73	83.74	0.0	acetone 18.5 hexachlorobutadiene 2.01	not detected ND	Arsenic 0.00 Barium 2.7 Cadmium <0.00 Chromium 0.1 Lead 1.4 Mercury 0.0002 Selenium <0.0 Silver <0.00
MW-04 94.01 2 22	5/18/2000	MW4-05180	19.76	74.25	0.0	1,1-dichloroethane 1.71	not detected ND	Arsenic 0.3 Barium 4.0 Cadmium 0.048 Chromium 1.1 Lead 5.0 Mercury 0.002 Selenium <0.01 Silver 0.01
MW-05 94.18 2 33	5/18/2000	MW5-05180	20.63	73:35	0.0	not detected ND	not detected ND	Arsenic 0.06: Barium 1.: Cadmium <0.03: Chromium 0.: Lead 0.44 Mercury 0.000 Selenium <0.0' Silver <0.00
MW-06 98.38 2 28	5/18/2000	MW6-05180	16.56	81.82	0.0	not detected ND	not detected ND	Arsenic 0.02 Barium 0.59 Cadmium <0.00

^{1.} Mean Sea Level elevation in feet, surveyed to top of PVC well casing.

VOCs

Volatile Organic Compounds Resource Conservation and Recovery Act Micrograms per liter, parts per billion. RCRA ug/L

Well casing diameter in inches.
 Depth in feet, measured from top of PVC well casing.
 Mean Sea Level elevation in feet corrected for floating product, if applicable.

^{5.} Non-aqueous phase floating product thickness in feet.

Only analytes detected at or above the laboratory method reporting limits are listed. The reporting limits are provided in the analytical data reports included in Appendix C.

Concentration less than detection limit listed.

mg/L Milligrams per liter, parts per million.

Analytes not detected at or above the laboratory method reporting limits. The reporting limits are provided in the analytical data reports included in Appendix C.

TABLE 4 (page 1 of 3)
SOIL AND GROUNDWATER SCREENING LEVELS
CITY OF PORTLAND
10505 NORTH PORTLAND ROAD
BACKFILLED RETENTION PONDS
PORTLAND, OREGON

Analyte	Maximum Concentration of Detected Analytes	OAR 340-122-045 DEQ Oregon Soil Cleanup Table Appendix 1 Industrial Maximum Allowable Soil Concentration [1]	EPA Region 9 Preliminary Remediation Goals (PRGs) Industrial Sites	OAR 340-122-045 DEQ Oregon Soil Cleanup Table Appendix 1 Groundwater Reference Concentration [1]	EPA Region 9 Preliminary Remediation Goals (PRGs) Tap Water
		Analy	tes Detected in Soil	1/3000	1,441.00
TOTAL RCRA 8 METALS	(mg/kg)				
Arsenic	20.9	3	3	NA	NA
barium	220	140,000	100,000	NA	NA
cadmium	3.36	1,000	930	NA	NA
chromium	35	1,500	450	NA	NA
lead	130	2,000	1,000	NA	NA
mercury	4.88	600	560	NA	NA
selenium	0.32	NA	9,400	NA	NA
silver	<0.3	10,000	9,400	NA	NA
VOCs (mg/kg)					
2-butanone	6.44	NA	NA	NA	NA
naphthalene	3.02	8,000	190	NA	NA
p-isopropyltoluene	0.642	NA	NA	NA	NA:
isopropylbenzene	0.402	NA	NA	NA	NA
1,1,2-trichloroethane	0.249	9,000	1.9	NA	NA
1,2,4-trimethylbenzene	2.46	NA	170	NA	NA
1,2-dichlorobenzene	1.10	NA	370	NA	NA
1,4-dichlorobenzene	1.46	NA	7.3	NA	NA
chlorobenzene	8.65	40,000	180	NA.	NA
m,p-xylene and o-xylene	3.39	2,500	860	NA.	NA
n-butylbenzene	0.571	NA	550	NA	NA
n-propylbenzene	0.646	NA	550	NA	NA
sec-butylbenzene	0.323	NA	410	NA	NA
SEMI-VOCs (mg/kg)					
fluoranthene	3.83	80,000	37,000	NA	NA
phenanthrene	0.67	NA.	NA	NA.	NA
pyrene	3.98	60,000	26,000	NA	NA
benzyl butyl phthalate	0.46	NA	930	NA	NA.

TABLE 4 (page 2 of 3)
SOIL AND GROUNDWATER SCREENING LEVELS
CITY OF PORTLAND
10505 NORTH PORTLAND ROAD
BACKFILLED RETENTION PONDS
PORTLAND, OREGON

Analyte	Maximum Concentration of Detected Analytes	OAR 340-122-045 DEQ Oregon Soil Cleanup Table Appendix 1 Industrial Maximum Allowable Soil Concentration [1]	EPA Region 9 Preliminary Remediation Goals (PRGs) Industrial Sites	OAR 340-122-045 DEQ Oregon Soil Cleanup Table Appendix 1 Groundwater Reference Concentration [1]	EPA Region 9 Preliminary Remediation Goals (PRGs) Tap Water				
		Analytes D	etected in Groundwater	ndwater					
TOTAL RCRA 8 METALS	S (mg/L)								
Arsenic	0.3	NA	NA	0.00004	0.000045				
barium	4.6	NA	NA	1	2.6				
cadmium	0.049	NA	NA	0.005	0.018				
chromium	1.1	NA	NA	0.1	NA				
ead	5.7	NA	NA	0.015	0.004				
mercury	0.0026	NA	NA	0.002	0.011				
selenium	< 0.01	NA.	NA	0.01	0.18				
silver	0.015	NA	NA	0.05	0.18				
VOCs (ug/L)									
acetone	43	NA	NA	NA	610				
penzene	8.59	NA	NA	0.005	0.39				
ethylbenzene	58.9	NA	NA	700	1,300				
total xylenes	86	NA	NA	7,000	2,800				
1,1-dichloroethane	1.71	NA	NA	NA	810				
n-butylbenzene	1.04	NA	NA.	NA	61				
n-propylbenzene	2.08	NA	NA.	700	61				
chlorobenzene	129	NA	NA	NA	390				
chloroethane	7.46	NA	NA	NA	NA				
hexachlorobutadiene	2,64	NA	NA	NA	0.86				
1,2,4-trimethylbenzene	10.4	NA	NA	NA	12				
1,3,5-trimethylbenzene	19.2	NA	NA	NA	12				
1,2-dichlorobenzene	6.71	NA	NA	NA	370				
1,4-dichlorobenzene	5.88	NA	NA	NA	0.47				
cis-1,2-dichloroethene	2.53	NA	NA	70	61				
sopropylbenzene	1.93	NA	NA	NA	NA				
naphthalene	17.1	NA	NA	100	6.2				
p-isopropyltoluene	28.3	NA	NA	NA	NA				
vinyl chloride	1.71	NA	NA	0.04	0.02				

L:\2000\projects\539501\sitechar\sitechartables.xls Copyright 2000 Kleinfelder, Inc.

TABLE 4 (page 3 of 3)
SOIL AND GROUNDWATER SCREENING LEVELS
CITY OF PORTLAND
10505 NORTH PORTLAND ROAD
BACKFILLED RETENTION PONDS
PORTLAND, OREGON

Analyte	Maximum Concentration of Detected Analytes	OAR 340-122-045 DEQ Oregon Soil Cleanup Table Appendix 1 Industrial Maximum Allowable Soil Concentration [1]	EPA Region 9 Preliminary Remediation Goals (PRGs) Industrial Sites	OAR 340-122-045 DEQ Oregon Soil Cleanup Table Appendix 1 Groundwater Reference Concentration [1]	EPA Region 9 Preliminary Remediation Goals (PRGs) Tap Water
		Analytes D	etected in Groundwater		
SEMI-VOCs (ug/L) Test Pit TP-6 Only					
2-methylnaphthalene	14.7	NA	NA	NA	NA
-,-methylphenol	10.1	NA	NA	NA	1,800
cenaphthene	10.5	NA	NA	2,000	370
nthracene	11.3	NA	NA	10,000	1,800
is(2-ethylhexyl)phthalate	63.7	NA	NA	4	4.8
uoranthene	16.6	NA	NA	1,000	1,500
aphthalene	23.3	NA	NA	100	6.2
henanthrene	34.0	NA	NA	NA	NA
henol	67.1	NA	NA	NA	22,000
yrene	15.3	NA	NA	1,000	180

DEQ Environmental Cleanup Manual, June 1994.

mg/kg Milligrams per kilogram, parts per million.

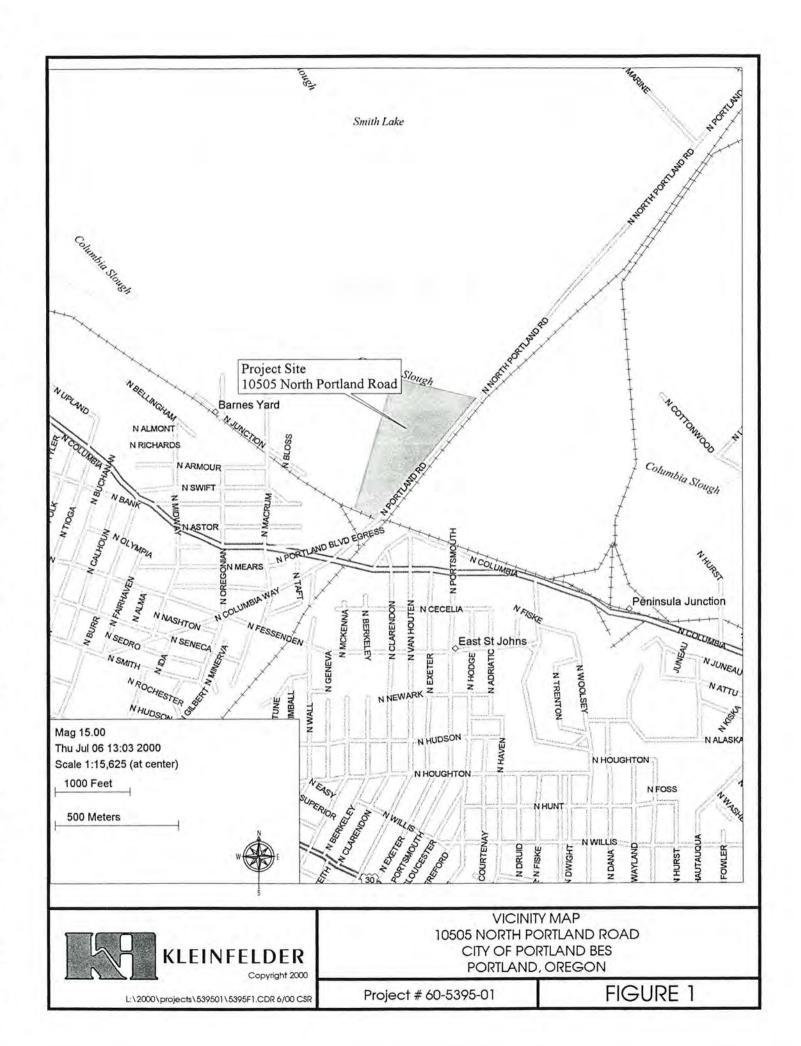
ug/L Micrograms per liter, parts per billion

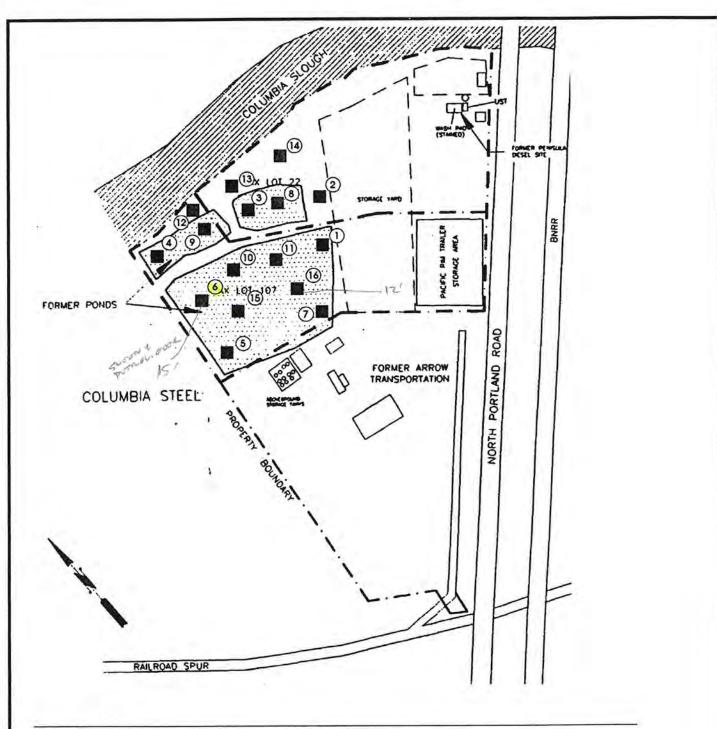
mg/L Milligrams per liter, parts per million.

<0.3 Not detected at or above the maximum laboratory method report limit listed.

NA Cleanup level not established or not applicable.

bold Exceeds one or more of the screening levels.





Approximate test pit location and designation

Scale Approximate at 1" = 280"

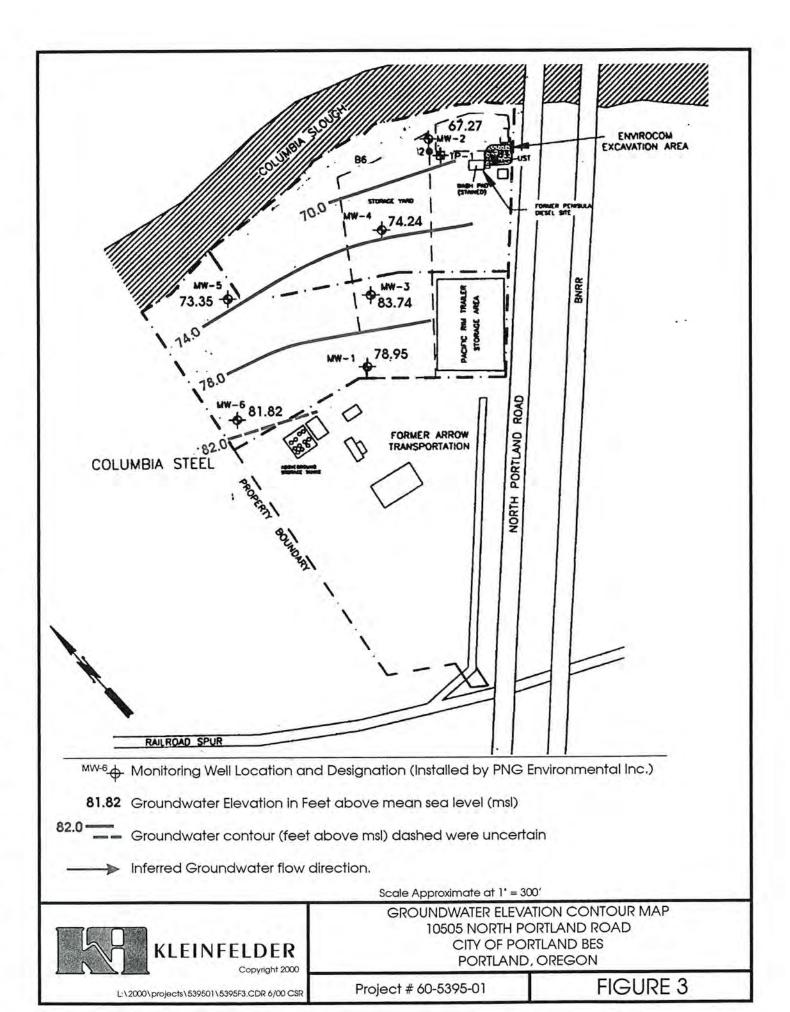
Reference: Site map provided by City of Portland, From Phase II Environemental Investigation, Larsen Property, 10505 North Portland Road, Portland Oregon, Project #850-02, PNG Environemental Inc. Nov. 12, 1999



SITE PLAN AND TEST PIT LOCATION MAP 10505 NORTH PORTLAND ROAD CITY OF PORTLAND BES PORTLAND, OREGON

Project # 60-5395-01

FIGURE 2



SOIL CLASSIFICATION CHART

	2112	SYMI	BOLS	TYPICAL	
M	AJOR DIVISI	ONS	GRAPH	LETTER	DESCRIPTIONS
	GRAVEL	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
	AND GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE				SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
SOILS	FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	AND SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SOILS				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% DF MATERIAL IS				мн	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS		СН	INORGANIC CLAYS OF HIGH PLASTICITY	
				он	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HI	GHLY ORGANIC	SOILS	40 40 40 40 40 0 40 40 40 40 4 40 40 40 40 40	PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

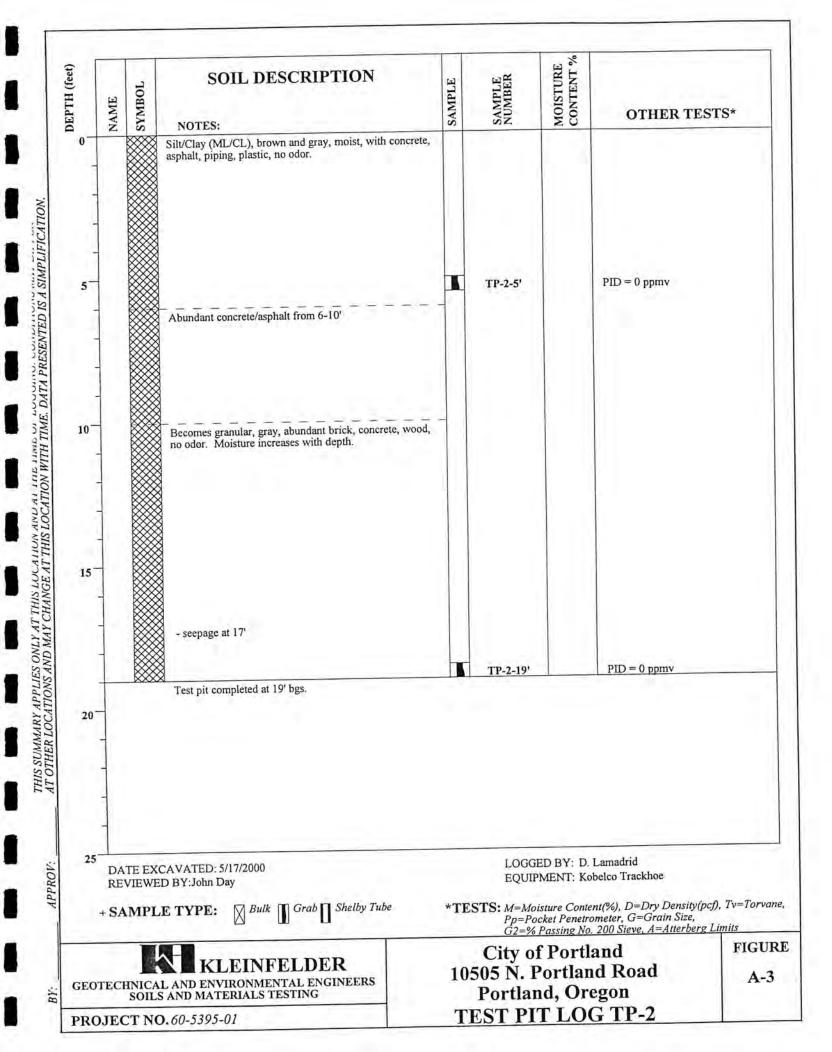


SOIL CLASSIFICATION LEGEND

Project # 60-5395-01

FIGURE A-1

MOISTURE CONTENT % DEPTH (feet) SOIL DESCRIPTION SAMPLE SYMBOL **OTHER TESTS*** NOTES: Silt/Clay (ML/CL), moist, some concrete and asphalt chunks, no odor. THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION - grades to predominately gray and black Abundant concrete/asphalt from 6-10', predominately black and gray, faint hydrocarbon odor, concrete up to 3' TP-1-7' PID = 0 ppmv10 - less concrete 15 PID = 0 ppmvTest pit completed at 19' bgs. 20 LOGGED BY: D. Lamadrid APPROV: DATE EXCAVATED: 5/17/2000 EOUIPMENT: Kobelco Trackhoe REVIEWED BY: John Day *TESTS: M=Moisture Content(%), D=Dry Density(pcf), Tv=Torvane, Pp=Pocket Penetrometer, G=Grain Size, G2=% Passing No. 200 Sieve, A=Atterberg Limits + SAMPLE TYPE: City of Portland FIGURE 10505 N. Portland Road A-2 GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS Portland, Oregon SOILS AND MATERIALS TESTING TEST PIT LOG TP-1 PROJECT NO. 60-5395-01



MOISTURE CONTENT % DEPTH (feet) SOIL DESCRIPTION SAMPLE SYMBOL SAMPLE NAME OTHER TESTS* NOTES: 0 Silt/Clay (ML/CL), mottled gray and brown with scattered concrete, no odor. THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION PID = 0 ppmvAbundant concrete and brick 6-10'. 10 TP-3-10' PID = 0 ppmvSilty SAND, (SM), gray and black, moist, minor brick, wood and trash debris, no odor. Moisture increases with depth. 15 - slight seepage 20 PID = 0 ppmvTP-3-21' - Sandy SILT, moist to wet, olive-gray, no odor. Possible Test pit completed at 21' bgs. 25 LOGGED BY: D. Lamadrid DATE EXCAVATED: 5/17/2000 EQUIPMENT: Kobelco Trackhoe REVIEWED BY: John Day Shelby Tube + SAMPLE TYPE: *TESTS: M=Moisture Content(%), D=Dry Density(pcf), Tv=Torvane, Pp=Pocket Penetrometer, G=Grain Size, G2=% Passing No. 200 Sieve, A=Atterberg Limits **FIGURE** City of Portland 10505 N. Portland Road GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS A-4 Portland, Oregon SOILS AND MATERIALS TESTING **TEST PIT LOG TP-3** PROJECT NO. 60-5395-01

MOISTURE CONTENT % DEPTH (feet) SOIL DESCRIPTION SAMPLE NUMBER SAMPLE SYMBOL NAME OTHER TESTS* NOTES: Silty/Clay, (ML/CL), moist, mottled light brown with slight gray, scattered debris (plastic, small concrete chunks), no odor. THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFEK AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION PID = 0 ppmv10 Silty/Clay, (ML/CL), gray, moist to wet, some large concrete chunks, scattered wood, brick, no odor. TP-4-11' PID = 0 ppmv15 20 - seepage at 20' TP-4-21' PID = 0 ppmvTest pit completed at 21' bgs. LOGGED BY: D. Lamadrid DATE EXCAVATED: 5/17/2000 EQUIPMENT: Kobelco Trackhoe REVIEWED BY: John Day Bulk Grab Shelby Tube *TESTS: M=Moisture Content(%), D=Dry Density(pcf), Tv=Torvane, + SAMPLE TYPE: Pp=Pocket Penetrometer, G=Grain Size, G2=% Passing No. 200 Sieve, A=Atterberg Limits City of Portland **FIGURE** 10505 N. Portland Road A-5 GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS Portland, Oregon SOILS AND MATERIALS TESTING **TEST PIT LOG TP-4** PROJECT NO. 60-5395-01

PROJECT NO. 60-5395-01

LP. NO. (P.O. NO.	SAMPLERS: (S	PROJECT NAME 10505 N PONDA Signatura/Number) Lamadrid	id Road	NO.	TYPE			23/19/19/19/19/19/19/19/19/19/19/19/19/19/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	sheet 1 of RECEMING LAB: City of Parbland
(P.O. NO.)	David	Lamadrid		OF	OF	3//	9/	3/ /3	3/ /	//	INSTRUCTIONS/REMARKS
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	CON- TAINERS	CON- TAINERS	3/3/	1 /3/	12	13/3/	//	/
117/00	0845	TP-1-7'	Soil	4	4	X	X	X	7 1		LAB 000097
- 1	0900	TP-1-19'		4	4	X	X	X			LAB 000698
	0925	TP-Z-6'		4	4	X	X	X			LAB 000699
	0940	TP-2-19'		4	4	1	X	X			LAB 000700
	1010	TP-3-10'		1	4	X	X	X			LAB 000701
	1025	T/-3-21			4	X	X	X			LAB 000702
	1045	TP-4-11'			4	X	X	X		E-1	LAB 000703
	1050	TP-4-ZI'	MALTI	17 / 6	4	X	X	X			1.AR 000704
	1115	TP-5-11'			4	X	X	X			1 AR 000705
	1145	TP-5-21'		1	4	人	X	X		41	LAB 000706
	1280	TP-6-5'		ja	4	X	X	X			LAB 000707
	1215	TP-6-13'		6	4	X	X	X	E1 (C)		LAB 000708
70/14	1250	TP-7-5'		0	4	X	X	X		LV E	I.AB 000709
	1300	TP-7-17'		7	4	1	X	乂			LAB 000710
	1385	TP-8-5'		1	4	X	X	人	Him		LAB 000711
	1405	TP-8-19'			4	X	X	人		2113	LAB 000712
The	1430	TP-9-5'			4	X	X	X			LAB 000713
	1435	Tr-9-11'			4	X	X	X			LAB 000714
	1500	TPP-10-10'			4	X	X	X			LAB 000715
V	1505	TP-10-16'	Ψ	V	4	1	X	X		ĭB	LAB 000716
linguished by	A	5/1400 0750	Curt Wed by: (Signature	he		Instructions/Rem	arks:				KLEINFELDER 15050 S.W. KOLL PARKWAY SUITE L BEAVERTON, OR 97006 (503) 644-9447
elinquished by	: (Signature)	Date/Time Re	ceived for Laborator	y by: (Signati	ure)						Attn: John Day





1

REPORT QUEUE

System ID AE04608 Sample ID LAB000697 Sample Date/Time 5/17/00 8:45

Page:

Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: Sample Status: 10505 N NORTH PORTLAND RD

TP-1-7 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.000

SPECIAL WASTE

GRAB Sample Type: Sample Matrix: SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.62	mg/Kg	0.025	EPA 6020
BARIUM	120	mg/Kg	1.0	EPA 6010
CADMIUM	0.078	mg/Kg	0.025	EPA 6020
CHROMIUM	24	mg/Kg	1.0	EPA 6010
LEAD	7.8	mg/Kg	3.0	EPA 6010
MERCURY	0.0075	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	<0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

Report Date: 6/12/00





Sample Date/Time 5/17/00 Sample ID LAB000697 8:45 System ID AE04608 Page: 2 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-1-7 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Point Code: 0

IMS File/Invoice #:

3030.000

Sample Type: Sample Matrix: Collected By:

GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	<0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	<0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Fluorene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B





DL

Sample Date/Time 5/17/00 8:45 System ID AE04608 Sample ID LAB000697

> Page: 3

Collected By:

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD

Sample Status: REPORT QUEUE

TP-1-7 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: Sample Matrix: SOIL IMS File/Invoice #: 3030.000

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S		(100	- 10.702 ft (100.20,11.10.10)
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B'
1,2,3-Trichloropropane	<100	µg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
· 1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	µg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	µg/Kg	100	EPA 8260B

Report Date: 6/12/00





Sample Date/Time	5/17/00	8:45	System ID	AE04608	Sample ID	LAB000697
J			100		Page:	4
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-1-7 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE			
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	0	SPECIAL WASTE 0 3030.000		Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL	

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
2-Butanone	6440	µg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	µg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	µg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	µg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	µg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	µg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	µg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
. Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	µg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Report Date: 6/12/00





Sample Date/Time 5/17/00 8:45 System ID AE04608 Sample ID LAB000697 5 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-1-7 PROJECT 6064 Proj Subcategory: SPECIAL WASTE **GRAB** Sample Type: Sample Point Code: Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	µg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	µg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000697





Sample Date/Time 5/17/00 9:00 System ID AE04609 Sample ID LAB000698

Page: 1

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-1-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	7.19	mg/Kg	0.025	EPA 6020
BARIUM	220	mg/Kg	1.0	EPA 6010
CADMIUM	0.26	mg/Kg	0.025	EPA 6020
CHROMIUM	24	mg/Kg	1.0	EPA 6010
LEAD	74	mg/Kg	3.0	EPA 6010
MERCURY	0.030	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				200000000000000000000000000000000000000
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B





Sample Date/Time 5/17/00 9:00 System ID AE04609 Sample ID LAB000698

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE

TP-1-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Point Code: 0 Sample Matrix: SOII

Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

Report Date: 6/12/00

N





Sample Date/Time 5/17/00 9:00 System ID AE04609 Sample ID LAB000698 Page: 3 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-1-19 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: **GRAB** Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270E
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270E
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270E
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270E
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene / /	< 0.330	mg/Kg	0.330	EPA 8270E
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUND	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	µg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B





Sample Date/Time	5/17/00	9:00	System ID	AE04609	Sample ID	LAB000698
				alist and the state of the stat	Page:	4
Proj./Company Name	e: SPECIA	L WASTE	MISC SAMP		Date Received:	5/19/00
Address/Location:		NORTH PROJEC	PORTLAND F T 6064	RD	Sample Status:	REPORT QUEUE
Proj Subcategory:	SPECIA	WASTE			Sample Type:	GRAB
Sample Point Code:	0				Sample Matrix:	SOIL
IMS File/Invoice #:	3030.000)			Collected By:	DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1140	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	µg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	µg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	µg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

Report Date: 6/12/00

N





Sample Date/Time	5/17/00	9:00	System ID	AE04609	Sample ID	LAB000698
			· · · · · · · · · · · · · · · · · · ·		Page:	5
Proj./Company Name: Address/Location:		IORTH	PORTLAND F		Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.000	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	µg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	µg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000698





Sample Date/Time 5/17/00 9:25 System ID AE04610 Sample ID LAB000699

Page: 1

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-2-5 PROJECT 6064

Proj Subcategory:SPECIAL WASTESample Type:GRABSample Point Code:0Sample Matrix:SOILIMS File/Invoice #:3030.000Collected By:DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	6.93	mg/Kg	0.025	EPA 6020
BARIUM	110	mg/Kg	1.0	EPA 6010
CADMIUM	0.40	mg/Kg	0.025	EPA 6020
CHROMIUM	22	mg/Kg	1.0	EPA 6010
LEAD	24	mg/Kg	3.0	EPA 6010
MERCURY	0.030	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.003	EPA 6020
SILVER	<0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS	~0.30	mg/kg	0.3	EFA 0010
1,2,4-Trichlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
1,2-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,3-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,4-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
2,4,5-Trichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4,6-Trichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4-Dichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4-Dimethylphenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrophenol	<20.0	mg/Kg	20,0	EPA 8270B
2,4-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2,6-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chloronaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Chlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Methylnaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitrophenol	<3.30	mg/Kg	3.30	EPA 8270B
3,3'-Dichlorobenzidine	<10.0	mg/Kg	10.0	EPA 8270B
3-Nitroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4,6-Dinitro-2-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Bromophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B





5/19/00

GRAB

REPORT QUEUE

Sample Date/Time 5/17/00 9:25 Sample ID LAB000699 System ID AE04610

> 2 Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-2-5 PROJECT 6064

SPECIAL WASTE

Sample Point Code:

Proj Subcategory:

0

IMS File/Invoice #: 3030.000

Sample Type: Sample Matrix:

SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EPA 8270B
4-Chlorophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B
4-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
Acenaphthene	<3.30	mg/Kg	3.30	EPA 8270B
Acenaphthylene	<3.30	mg/Kg	3.30	EPA 8270B
Anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(b)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(g,h,i)perylene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(k)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzoic acid	<10.0	mg/Kg	10.0	EPA 8270B
Benzyl alcohol	<3.30	mg/Kg	3.30	EPA 8270B
Benzyl butyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethoxy) methane	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroisopropyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-ethylhexyl) phthalate	<20.0	mg/Kg	20.0	EPA 8270B
Chrysene	<3.30	mg/Kg	3.30	EPA 8270B
Di-n-butyl phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Di-n-octyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzo(a,h)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzofuran	<3.30	mg/Kg	3.30	EPA 8270B
Diethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dimethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Fluoranthene	3.83	mg/Kg	3.30	EPA 8270B
Fluorene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EPA 8270B





Sample ID LAB000699 System ID AE04610 Sample Date/Time 5/17/00 9:25

> 3 Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

10505 N NORTH PORTLAND RD Address/Location:

TP-2-5 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.000 Date Received:

5/19/00

Sample Status:

REPORT QUEUE

Sample Type:

GRAB SOIL

Sample Matrix: Collected By:

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10.0	mg/Kg	10.0	EPA 8270B
Hexachloroethane	<10.0	mg/Kg	10.0	EPA 8270B
Indeno(1,2,3-cd)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Isophorone	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodi-n-propylamine	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodiphenylamine	<3.30	mg/Kg	3.30	EPA 8270B
Naphthalene	<3.30	mg/Kg	3.30	EPA 8270B
Nitrobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Pentachlorophenol	<10.0	mg/Kg	10.0	EPA 8270B
Phenanthrene	<3.30	mg/Kg	3.30	EPA 8270B
Phenol	<3.30	mg/Kg	3.30	EPA 8270B
Pyrene	3.98	mg/Kg	3.30	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
. 1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B





Sample Date/Time 5/17/00 9:25 System ID AE04610 Sample ID LAB000699

Page:

4

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-2-5 PROJECT 6064

Proj Subcategory:

Sample Point Code: IMS File/Invoice #:

3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB

5/19/00

REPORT QUEUE

Collected By:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1170	µg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	µg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	µg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	µg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B





Sample Date/Time	5/17/00	9:25	System ID	AE04610	Sample ID	LAB000699
l.m.					Page:	5
Proj./Company Name	: SPECIA	L WASTE	MISC SAMP		Date Received:	5/19/00
Address/Location:		10505 N NORTH PORTLAND RD TP-2-5 PROJECT 6064		Sample Status:	REPORT QUEUE	
Proj Subcategory:	SPECIA	L WASTE			Sample Type:	GRAB
Sample Point Code:	0			Sample Matrix:	SOIL	
IMS File/Invoice #:	3030.000	30 000		Collected By:	DL	

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	µg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	µg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000699





5/19/00

REPORT QUEUE

Sample Date/Time 5/17/00 9:40 System ID AE04611 Sample ID LAB000700

Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-2-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #:

Sample Type: **GRAB** Sample Matrix: SOIL 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	6.45	mg/Kg	0.025	EPA 6020
BARIUM	120	mg/Kg	1.0	EPA 6010
CADMIUM	0.19	mg/Kg	0.025	EPA 6020
CHROMIUM	14	mg/Kg	1.0	EPA 6010
LEAD	76	mg/Kg	3.0	EPA 6010
MERCURY	4.88	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS		.,,		-1/west/words-10-10-2/es
1,2,4-Trichlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
1,2-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,3-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,4-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
2,4,5-Trichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4,6-Trichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4-Dichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4-Dimethylphenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrophenol	<20.0	mg/Kg	20.0	EPA 8270B
2,4-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2,6-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chloronaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Chlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Methylnaphthalene	<3.30	mg/Kg	3,30	EPA 8270B
2-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitrophenol	<3.30	mg/Kg	3.30	EPA 8270B
3,3'-Dichlorobenzidine	<10.0	mg/Kg	10.0	EPA 8270B
3-Nitroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4,6-Dinitro-2-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Bromophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B

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GRAB

SOIL

DL

Sample Date/Time 5/17/00 9:40 System ID AE04611 Sample ID LAB000700

Page: 2

Sample Type:

Collected By:

Sample Matrix:

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE

TP-2-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EPA 8270B
4-Chlorophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B
4-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
Acenaphthene	<3.30	mg/Kg	3.30	EPA 8270B
Acenaphthylene	<3.30	mg/Kg	3.30	EPA 8270B
Anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(b)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(g,h,i)perylene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(k)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzoic acid	<10.0	mg/Kg	10.0	EPA 8270B
Benzyl alcohol	<3.30	mg/Kg	3.30	EPA 8270B
Benzyl butyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethoxy) methane	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroisopropyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-ethylhexyl) phthalate	<20.0	mg/Kg	20.0	EPA 8270B
Chrysene	<3.30	mg/Kg	3.30	EPA 8270B
Di-n-butyl phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Di-n-octyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzo(a,h)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzofuran	<3.30	mg/Kg	3.30	EPA 8270B
Diethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dimethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Fluorene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EPA 8270B





REPORT QUEUE

Sample Date/Time 5/17/00 9:40 System ID AE04611 Sample ID LAB000700

> Page: 3

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD

TP-2-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.000 Sample Type:

Sample Status:

GRAB Sample Matrix: SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10.0	mg/Kg	10.0	EPA 8270B
Hexachloroethane	<10.0	mg/Kg	10.0	EPA 8270B
Indeno(1,2,3-cd)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Isophorone	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodi-n-propylamine	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodiphenylamine	<3.30	mg/Kg	3.30	EPA 8270B
Naphthalene	<3.30	mg/Kg	3.30	EPA 8270B
Nitrobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Pentachlorophenol	<10.0	mg/Kg	10.0	EPA 8270B
Phenanthrene	<3.30	mg/Kg	3.30	EPA 8270B
Phenol	<3.30	mg/Kg	3.30	EPA 8270B
Pyrene	<3.30	mg/Kg	3.30	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S	2.7.1.7		
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	µg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/17/00 9:40 System ID AE04611 Sample ID LAB000700

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Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-2-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000 Date Received:

Sample Status:

5/19/00 REPORT QUEUE

Sample Type: Sample Matrix:

GRAB SOIL

DL Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
2-Butanone	1850	µg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B





Report Date: 6/12/00

Sample Date/Time	5/17/00	9:40	System ID	AE04611	Sample ID	LAB000700
Proi /Camana	Select.				Page:	5
Address/Location:	SPECIAL WASTE MISC SAMP 10505 N NORTH PORTLAND RD TP-2-19 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE		
Proj Subcategory: Sample Point Code: MS File/Invoice #:	SPECIAL WASTE 0 3030.000		SPECIAL WASTE		Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene o-Xylene p-Isopropyltoluene sec-Butylbenzene Styrene tert-Butylbenzene Tetrachloroethene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene Trichloroethene Trichlorofluoromethane Vinyl chloride End of Report for Sample ID: LAB000700	408 <100 126 <100 <100 <100 <100 <100 <100 <100 <10	pg/Kg	100 100 100 100 100 100 100 100 100 100	EPA 8260B EPA 8260B





10:10 System ID AE04612 Sample ID LAB000701 Sample Date/Time 5/17/00

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Date Received:

5/19/00

Address/Location:

10505 N NORTH PORTLAND RD TP-3-10 PROJECT 6064

Sample Status:

REPORT QUEUE

Proj Subcategory: 0

SPECIAL WASTE

Sample Type: Sample Matrix: GRAB SOIL

Sample Point Code: IMS File/Invoice #:

3030.000

Collected By:

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	7.70	mg/Kg	0.025	EPA 6020
BARIUM	180	mg/Kg	1.0	EPA 6010
CADMIUM	0.20	mg/Kg	0.025	EPA 6020
CHROMIUM	26	mg/Kg	1.0	EPA 6010
LEAD	31	mg/Kg	3.0	EPA 6010
MERCURY	0.077	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				Toward with the control of
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00	mg/Kg	- 1.00	EPA 8270B
2-Chloronaphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
2-Chlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylnaphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	<0.660	mg/Kg	0.660	EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B





Sample Date/Time 5/17/00 Sample ID LAB000701 10:10 System ID AE04612

> Page: 2

Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE

TP-3-10 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Type: **GRAB** Sample Point Code: SOIL Sample Matrix: IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

est Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	< 0.660	mg/Kg	0.660	EPA 8270B
Anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	< 0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	< 0.660	mg/Kg	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	<0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	1.11	mg/Kg	0.660	EPA 8270B
Fluorene	<0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B

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Sample Date/Time 5/17/00 10:10 System ID AE04612 Sample ID LAB000701 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-3-10 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: **GRAB** Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Isophorone	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	< 0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	0.670	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyrene	1.34	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	µg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/17/00 10:10 System ID AE04612 Sample ID LAB000701

Page: 4

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-3-10 PROJECT 6064

Proj Subcategory:SPECIAL WASTESample Type:GRABSample Point Code:0Sample Matrix:SOILIMS File/Invoice #:3030.000Collected By:DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1100	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	µg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
- Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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IMS File/Invoice #:

3030.000

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



DL

Collected By:

Sample Date/Time 5/17/00 10:10 System ID AE04612 Sample ID LAB000701 5 Page: Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD Sample Status: TP-3-10 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: Sample Matrix: SOIL 0

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000701





Sample Date/Time 5/17/00 10:25 System ID AE04613 Sample ID LAB000702

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP 10505 N NORTH PORTLAND RD

Address/Location: TP-3-21 PROJECT 6064 Date Received: Sample Status:

5/19/00 REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

Sample Point Code:

Sample Matrix: Collected By:

GRAB SOIL DL

IMS File/Invoice #:

3030.000

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	5.33	mg/Kg	0.025	EPA 6020
BARIUM	220	mg/Kg	1.0	EPA 6010
CADMIUM	0.19	mg/Kg	0.025	EPA 6020
CHROMIUM	31	mg/Kg	1.0	EPA 6010
LEAD	20	mg/Kg	3.0	EPA 6010
MERCURY	0.027	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				CENTRAL TO THE WAY THE TO
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270E
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270E
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270E
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	<0.330	mg/Kg	0.330	EPA 8270E
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
· 2-Methylnaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

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Sample Date/Time 5/17/00 10:25 System ID AE04613 Sample ID LAB000702

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Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP

Sample Status: 10505 N NORTH PORTLAND RD TP-3-21 PROJECT 6064

REPORT QUEUE

Proj Subcategory: Sample Point Code:

Address/Location:

SPECIAL WASTE

IMS File/Invoice #:

3030.000

Sample Type: Sample Matrix: GRAB SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B





Sample Date/Time 5/17/00 10:25 System ID AE04613 Sample ID LAB000702

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Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE

TP-3-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB

Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	<0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	<0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	µg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

Report Date: 6/12/00

A





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Sample Date/Time 5/17/00 10:25 System ID AE04613 Sample ID LAB000702

Page:

Date Received: 5/19/00

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-3-21 PROJECT 6064

Sample Status: REPORT QUEUE

Proj Subcategory: SPECIAL WASTE

0

Sample Type: Sample Matrix: Collected By:

GRAB SOIL DL

Sample Point Code: IMS File/Invoice #:

3030,000

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
22-Dichloropropane	<100	µg/Kg	100	EPA 8260B
2-Butanone	1370	µg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	µg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/ K g	1000	EPA 8260B
4-Chlorololuene	<100	µg/Kg	100	EPA-8260B
4-Methyl-2-pentanone (MIBK)	<500	µg/Kg	500	EPA 8260B
Acetone	<1000	⊔g/Kg	1000	EPA 8260B
Benzene	<100	μg/ Kg	100	EPA 8260B
Bronobenzene	<100	µg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/ Kg	100	EPA 8260B
Bromodichloromethane	<100	µg/ К g	100	EPA 8260B
Bromoform	<100	µg/Kg	100	EPA 8260B
Bromomethane	<500	₽g/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	µg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	µg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	µg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane Dibromochlethane	<100	ив/Кв	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	µg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	µg/Kg	200	EPA 8260B
Isopropylbenzene	<100	ug/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	pg/Kg	500	EPA 8260B
n-Butylbenzene	<100	µg/Кg	100	EPA 8260B
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B

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Sample Date/Time	5/17/00 10:25	System ID	AE04613	Sample ID	LAB000702
				Page:	5
Proj./Company Name: Address/Location:	SPECIAL WASTI 10505 N NORTH TP-3-21 PROJEC	PORTLAND F		Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000			Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	µg/Kg	100	EPA 8260B
Vinyl chloride	<100	µg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000702





10:45 System ID AE04614 Sample ID LAB000703 Sample Date/Time 5/17/00 1 Page: Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: REPORT QUEUE

Address/Location: 10505 N NORTH PORTLAND RD

TP-4-11 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.000

GRAB Sample Type: Sample Matrix: SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	4.91	mg/Kg	0.025	EPA 6020
BARIUM	170	mg/Kg	1.0	EPA 6010
CADMIUM	0.17	mg/Kg	0.025	EPA 6020
CHROMIUM	25	mg/Kg	1.0	EPA 6010
LEAD	22	mg/Kg	3.0	EPA 6010
MERCURY	0.032	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	<0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B





Sample Date/Time 5/17/00 10:45 System ID AE04614 Sample ID LAB000703

> Page: 2

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-4-11 PROJECT 6064

Sample Point Code: 0

Proj Subcategory:

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Collected By:

GRAB SOIL DL

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	<0.330	mg/Kg	0.330	EPA 8270E
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	<0.330	mg/Kg	0.330	EPA 8270B
Anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	<0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzofüran	<0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

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Sample ID LAB000703 Sample Date/Time 5/17/00 10:45 System ID AE04614

> 3 Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-4-11 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code:

IMS File/Invoice #:

3030.000

Date Received:

5/19/00

Sample Status: REPORT QUEUE

Sample Type: **GRAB**

Sample Matrix: SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	<0.330	mg/Kg	0.330	EPA 8270B
Pyrene'	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	3			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100,	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B





Sample Date/Time 5/17/00 10:45 System ID AE04614 Sample ID LAB000703

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-4-11 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.000

Date Received:

5/19/00 Sample Status:

REPORT QUEUE

4

GRAB Sample Type: Sample Matrix: SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method	
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B	
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260E	
2-Butanone	1250	µg/Kg	1000	EPA 8260E	
2-Chlorotoluene	<100	µg/Kg	100	EPA 8260E	
2-Hexanone	<1000	μg/Kg	1000	EPA 8260E	
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260E	
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B	
Acetone	<1000	μg/Kg	1000	EPA 8260B	
Benzene	<100	μg/Kg	100	EPA 8260B	
Bromobenzene	<100	μg/Kg	100	EPA 8260B	
Bromochloromethane	<100	μg/Kg	100	EPA 8260B	
Bromodichloromethane	<100	µg/Kg	100	EPA 8260B	
Bromoform	<100	μg/Kg	100	EPA 8260B	
Bromomethane	<500	μg/Kg	500	EPA 8260B	
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B	
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B	
Chlorobenzene	<100	μg/Kg	100	EPA 8260B	
Chloroethane	<100	μg/Kg	100	EPA 8260B	
Chloroform	<100	μg/Kg	100	EPA 8260B	
Chloromethane	<500	μg/Kg	500	EPA 8260B	
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B	
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B	
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B	
Dibromomethane	<100	μg/Kg	100	EPA 8260B	
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B	
Ethylbenzene	<100	μg/Kg	100	EPA 8260B	
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B	
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B	
m,p-Xylene	<200	μg/Kg	200	EPA 8260B	
Methylene chloride	<500	μg/Kg	500	EPA 8260B	
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B	
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B	



Sample Point Code:

3030.000

IMS File/Invoice #:

City of Portland Water Pollution Control Laboratory **Laboratory Analysis Report**



SOIL

Sample Matrix:

Sample Date/Time	5/17/00	10:45	System ID	AE04614	Sample ID	LAB000703
		"			Page:	5
Proj./Company Name Address/Location:		NORTH I	PORTLAND F		Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory:	SPECIAL	WASTE			Sample Type:	GRAB

Collected By: DL Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000703

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Sample Date/Time 5/17/00

10:50 System ID AE04615

Sample ID LAB000704

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-4-21 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

0 IMS File/Invoice #:

3030.000

Date Received:

Sample Status:

5/19/00

INCOMPLETE

Sample Type:

GRAB

Sample Matrix: Collected By:

Report Date: 6/13/00

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method	
METALS					
ARSENIC	4.97	mg/Kg	0.025	EPA 6020	
BARIUM	190	mg/Kg	1.0	EPA 6010	
CADMIUM	0.25	mg/Kg	0.025	EPA 6020	
CHROMIUM	26	mg/Kg	1.0	EPA 6010	
LEAD	130	mg/Kg	3.0	EPA 6010	
MERCURY	0.053	mg/Kg	0.003	EPA 7471	
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020	
SILVER	< 0.30	mg/Kg	0.3	EPA 6010	
SEMI-VOLATILE ORGANICS					
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B	
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B	
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B	
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B	
2,4,5-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B	
2,4,6-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B	
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B	
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B	
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B	
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B	
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B	
2-Chloronaphthalene	< 0.660	mg/Kg	0.660	EPA 8270B	
2-Chlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B	
2-Methylnaphthalene	< 0.660	mg/Kg	0.660	EPA 8270B	
2-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B	
2-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B	
2-Nitrophenol	< 0.660	mg/Kg	0.660	EPA 8270B	
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B	
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B	
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B	
4-Bromophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B	





Sample Date/Time 5/17/00 10:50 System ID AE04615

Sample ID LAB000704

Page:

2

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-4-21 PROJECT 6064

Date Received: Sample Status:

5/19/00 INCOMPLETE

Proj Subcategory:

SPECIAL WASTE

0

Sample Type: Sample Matrix: GRAB

Sample Point Code: IMS File/Invoice #:

3030.000

Collected By:

Report Date: 6/13/00

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	< 0.660	mg/Kg	0.660	EPA 8270B
Anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	< 0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	< 0.660	mg/Kg	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	< 0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Fluorene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B





Sample Date/Time 5/17/00 Sample ID LAB000704 10:50 System ID AE04615

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Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-4-21 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: IMS File/Invoice #:

0

Sample Type:

GRAB

5/19/00

INCOMPLETE

3030.000

Sample Matrix: Collected By:

Report Date: 6/13/00

Date Received:

Sample Status:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Isophorone	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	< 0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	< 0.660	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	µg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	µg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	µg/Kg	100	EPA 8260B





Sample Date/Time 5/17/00

10:50 System ID AE04615

Sample ID LAB000704

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-4-21 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #:

3030.000

Date Received: Sample Status:

Page:

5/19/00

Report Date: 6/13/00

INCOMPLETE

Sample Type:

GRAB

Sample Matrix: Collected By:

SOIL

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
2-Butanone	1070	µg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	µg/Kg	100	EPA 8260B
Bromobenzene	<100	µg/Kg	100	EPA 8260B
Bromochloromethane	<100	µg/Kg	100	EPA 8260B
Bromodichloromethane	<100	µg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	µg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	µg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	µg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	µg/Kg	100	EPA 8260B
Dibromochloromethane	<100	µg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	µg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	µg/Kg	200	EPA 8260B
Isopropylbenzene	<100	µg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	µg/Kg	500	EPA 8260B
n-Butylbenzene	<100	µg/Kg	100	EPA 8260B
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B





Sample Date/Time 5/17/00

10:50 System ID AE04615

Sample ID

LAB000704

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Address/Location:

Proj./Company Name: SPECIAL WASTE MISC SAMP 10505 N NORTH PORTLAND RD

TP-4-21 PROJECT 6064

Page:

Date Received:

5/19/00

Sample Status:

INCOMPLETE

Proj Subcategory: Sample Point Code:

IMS File/Invoice #:

SPECIAL WASTE

3030.000

Sample Type:

GRAB

Sample Matrix: Collected By:

Report Date: 6/13/00

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	µg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	µg/Kg	100	EPA 8260B
Trichloroethene	<100	µg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	µg/Kg	100	EPA 8260B
Vinyl chloride	<100	µg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000704





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Sample Date/Time 5/17/00 11:15 System ID AE04616 Sample ID LAB000705

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE

TP-5-11 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.76	mg/Kg	0.025	EPA 6020
BARIUM	150	mg/Kg	1.0	EPA 6010
CADMIUM	0.080	mg/Kg	0.025	EPA 6020
CHROMIUM	27	mg/Kg	1.0	EPA 6010
LEAD	7.4	mg/Kg	3.0	EPA 6010
MERCURY	0.021	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS			1,022,31,030	The Language of the Control of the C
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

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Sample Date/Time 5/17/00 11:15 System ID AE04616 Sample ID LAB000705

Page:

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Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-5-11 PROJECT 6064

Date Received: Sample Status:

5/19/00

REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code: IMS File/Invoice #:

3030.000

Sample Matrix: Collected By:

SOIL

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

Report Date: 6/12/00

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Sample Date/Time 5/17/00 11:15 System ID AE04616 Sample ID LAB000705

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Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD TP-5-11 PROJECT 6064

Date Received: 5/19/00 REPORT QUEUE

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method	
Hexachlorocyclopentadiene	<1.00	mg/Kg	1,00	EPA 8270B	
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B	
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B	
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B	
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B	
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B	
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B	
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B	
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B	
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B	
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B	
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B	
VOLATILE ORGANIC COMPOUND	S			- 1675 - 1885 - 17 TH	
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B	
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B	
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B	
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B	
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B	
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B	
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B	
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B	
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B	
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B	
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B	
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B	
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B	
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B	
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B	

Report Date: 6/12/00

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Sample Date/Time 5/17/00 11:15 System ID AE04616 Sample ID LAB000705

Page: 4

Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00

Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE

TP-5-11 PROJECT 6064

Proj Subcategory:SPECIAL WASTESample Type:GRABSample Point Code:0Sample Matrix:SOIL

IMS File/Invoice #: 3030.000 Sample Matrix: SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
2-Butanone	1010	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	µg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	µg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	µg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	µg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	µg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	µg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B





Sample Date/Time 5/17/00 Sample ID LAB000705 11:15 System ID AE04616

Page:

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Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

IMS File/Invoice #:

10505 N NORTH PORTLAND RD

TP-5-11 PROJECT 6064

Date Received: Sample Status: 5/19/00

REPORT QUEUE

Proj Subcategory: Sample Point Code: SPECIAL WASTE

3030.000

Sample Type: Sample Matrix: **GRAB**

Collected By:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000705





Sample Date/Time 5/17/00 11:45 System ID AE04617 Sample ID LAB000706

Page: 1

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-5-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: (

IMS File/Invoice #: 3030.000

ECIAL WASTE Sample Type:

Sample Matrix:

Date Received:

Sample Status:

GRAB SOIL

5/19/00

REPORT QUEUE

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	6.94	mg/Kg	0.025	EPA 6020
BARIUM	150	mg/Kg	1.0	EPA 6010
CADMIUM	0.27	mg/Kg	0.025	EPA 6020
CHROMIUM	23	mg/Kg	1.0	EPA 6010
LEAD	13	mg/Kg	3.0	EPA 6010
MERCURY	0.025	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	<0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	<0.330	mg/Kg	0.330	EPA 8270B

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Sample Date/Time 5/17/00 11:45 System ID AE04617 Sample ID LAB000706

> 2 Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-5-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.000 Date Received:

5/19/00

Sample Status: REPORT QUEUE

Sample Type: **GRAB** Sample Matrix: SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result Units		MRL	Method	
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B	
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B	
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B	
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B	
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B	
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B	
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B	
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B	
Anthracene	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B	
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B	
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B	
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B	
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B	
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B	
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B	
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B	
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B	
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B	
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B	
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B	
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B	
Dimethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B	
Fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B	
Fluorene	<0.330	mg/Kg	0.330	EPA 8270B	
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B	
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B	

Report Date: 6/12/00

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656

N



IMS File/Invoice #:

3030.000

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



DL

Sample Date/Time 5/17/00 11:45 System ID AE04617 Sample ID LAB000706 3 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 REPORT QUEUE Address/Location: Sample Status: 10505 N NORTH PORTLAND RD TP-5-21 PROJECT 6064 GRAB Proj Subcategory: SPECIAL WASTE Sample Type: Sample Matrix: SOIL Sample Point Code:

Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUND	S			
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	µg/Kg	100	EPA 8260B

Report Date: 6/12/00

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5/19/00

GRAB

SOIL

REPORT QUEUE

System ID AE04617 Sample ID LAB000706 Sample Date/Time 5/17/00 11:45

> 4 Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-5-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #:

3030.000

Sample Type: Sample Matrix:

DL Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method	
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B	
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B	
2-Butanone	1060	µg/Kg	1000	EPA 8260B	
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B	
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B	
4-Chlorotoluene	<100	µg/Kg	100	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	<500	µg/Kg	500	EPA 8260B	
Acetone	<1000	μg/Kg	1000	EPA 8260B	
Benzene	<100	μg/Kg	100	EPA 8260B	
Bromobenzene	<100	μg/Kg	100	EPA 8260B	
Bromochloromethane	<100	μg/Kg	100	EPA 8260B	
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B	
Bromoform	<100	μg/Kg	100	EPA 8260B	
Bromomethane	<500	µg/Kg	500	EPA 8260B	
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B	
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B	
Chlorobenzene	<100	μg/Kg	100	EPA 8260B	
Chloroethane	<100	μg/Kg	100	EPA 8260B	
Chloroform	<100	μg/Kg	100	EPA 8260B	
Chloromethane	<500	μg/Kg	500	EPA 8260B	
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B	
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B	
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B	
Dibromomethane	<100	μg/Kg	100	EPA 8260B	
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B	
Ethylbenzene	<100	μg/Kg	100	EPA 8260B	
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B	
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B	
m,p-Xylene	<200	μg/Kg	200	EPA 8260B	
Methylene chloride	<500	μg/Kg	500	EPA 8260B	
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B	
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B	





Report Date: 6/12/00

Sample Date/Time	5/17/00	11:45	System ID	AE04617	Sample ID	LAB000706
			- American II		Page:	5
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-5-21 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE			
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.000	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB SOIL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	Control of the Contro
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg		EPA 8260B
Vinyl chloride	<100	μg/Kg μg/Kg	100 100	EPA 8260B EPA 8260B

End of Report for Sample ID: LAB000706





Sample Date/Time	5/17/00	12:00	System ID	AE04618	Sample ID	LAB000707
J	<u> </u>				Page:	1
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-6-5 PROJECT 6064			Date Received: Sample Status:	5/19/00 REPORT QUEUE		
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.000				Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	20.9	mg/Kg	0.025	EPA 6020
BARIUM	210	mg/Kg	1.0	EPA 6010
CADMIUM	0.13	mg/Kg	0.025	EPA 6020
CHROMIUM	30	mg/Kg	1.0	EPA 6010
LEAD	17	mg/Kg	3.0	EPA 6010
MERCURY	0.037	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.30	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS			707/	
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2-Chloronaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Chlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2-Methylnaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	<0.660	mg/Kg	0.660	EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B





Sample Date/Time 5/17/00 12:00 System ID AE04618 Sample ID LAB000707

Page:

Date Received:

Sample Status:

5/19/00

REPORT QUEUE

2

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-6-5 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.000

Sample Type:

Sample Matrix:

GRAB

Collected By:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	< 0.660	mg/Kg	0.660	EPA 8270B
Anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	< 0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	< 0.660	mg/Kg	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	< 0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Fluorene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	<0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B

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DL

Sample Date/Time 5/17/00 12:00 System ID AE04618 Sample ID LAB000707 Page: 3 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-6-5 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: **GRAB** Sample Point Code: Sample Matrix: SOIL IMS File/Invoice #:

Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Isophorone	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	< 0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	< 0.660	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUND	S			2000000000
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	µg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	µg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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3030.000





Sample Date/Time 5/17/00 12:00 System ID AE04618 Sample ID LAB000707 4

Page:

Address/Location:

Proj./Company Name: SPECIAL WASTE MISC SAMP

10505 N NORTH PORTLAND RD

TP-6-5 PROJECT 6064

Date Received: 5/19/00

Sample Status:

REPORT QUEUE

Proj Subcategory: Sample Point Code: IMS File/Invoice #:

SPECIAL WASTE

3030.000

Sample Type: Sample Matrix: **GRAB**

Collected By:

SOIL

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	µg/Кg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1210	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	µg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	µg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B





Sample Date/Time	5/17/00	12:00	System ID	AE04618	Sample ID	LAB000707
					Page:	5
Proj./Company Name: Address/Location:		NORTH I	PORTLAND F		Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.000	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000707





1

Sample Date/Time 5/17/00 12:15 System ID AE04619 Sample ID LAB000708

Page:

Date Received: 5/19/00

Sample Status:

REPORT QUEUE

TP-6-13 PROJECT 6064

10505 N NORTH PORTLAND RD

Proj Subcategory:

Address/Location:

SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #:

3030.000

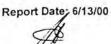
Proj./Company Name: SPECIAL WASTE MISC SAMP

Sample Type: Sample Matrix: **GRAB** SOIL

Collected By: DL

Comments:

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	21.7	mg/Kg	0.025	EPA 6020
BARIUM	140	mg/Kg	1.0	EPA 6010
CADMIUM	3.36	mg/Kg	0.025	EPA 6020
CHROMIUM	45	mg/Kg	1.0	EPA 6010
LEAD	81	mg/Kg	3.0	EPA 6010
MERCURY	0.13	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.30	mg/Kg	0.30	EPA 6020
SILVER	< 0.32	mg/Kg	0.32	EPA 6010
SEMI-VOLATILE ORGANICS		5 5		
1,2,4-Trichlorobenzene	<26.9	mg/Kg	26.9	EPA 8270B
1,2-Dichlorobenzene	<81.5	mg/Kg	81.5	EPA 8270E
1,3-Dichlorobenzene	<81.5	mg/Kg	81.5	EPA 8270E
1,4-Dichlorobenzene	<81.5	mg/Kg	81.5	EPA 8270E
2,4,5-Trichlorophenol	<26.9	mg/Kg	26.9	EPA 8270B
2,4,6-Trichlorophenol	<26.9	mg/Kg	26.9	EPA 8270B
2,4-Dichlorophenol	<26.9	mg/Kg	26.9	EPA 8270B
2,4-Dimethylphenol	<81.5	mg/Kg	81.5	EPA 8270B
2,4-Dinitrophenol	<163	mg/Kg	163	EPA 8270B
2,4-Dinitrotoluene	<40.8	mg/Kg	40.8	EPA 8270B
2,6-Dinitrotoluene	<40.8	mg/Kg	40.8	EPA 8270B
2-Chloronaphthalene	<26.9	mg/Kg	26.9	EPA 8270B
2-Chlorophenol	<26.9	mg/Kg	26.9	EPA 8270B
2-Methylnaphthalene	<26.9	mg/Kg	26.9	EPA 8270B
2-Methylphenol	<26.9	mg/Kg	26.9	EPA 8270B
2-Nitroaniline	<26.9	mg/Kg	26.9	EPA 8270B
2-Nitrophenol	<26.9	mg/Kg	26.9	EPA 8270B
3,3'-Dichlorobenzidine	<81.5	mg/Kg	81.5	EPA 8270B
3-Nitroaniline	<81.5	mg/Kg	81.5	EPA 8270B
4,6-Dinitro-2-methylphenol	<81.5	mg/Kg	81.5	EPA 8270B
4-Bromophenylphenyl ether	<26.9	mg/Kg	26.9	EPA 8270B







2

5/19/00

GRAB

SOIL

DL

REPORT QUEUE

Sample Date/Time 5/17/00 12:15 System ID AE04619 Sample ID LAB000708

Page:

Date Received:

Sample Status:

Sample Type:

Sample Matrix:

Collected By:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-6-13 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000

vis i ne/mvoice #. 3030.00

Comments:

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<26.9	mg/Kg	26.9	EPA 8270E
4-Chloroaniline	<163	mg/Kg	163	EPA 8270E
4-Chlorophenylphenyl ether	<26.9	mg/Kg	26.9	EPA 8270E
4-Methylphenol	<26.9	mg/Kg	26.9	EPA 8270E
4-Nitroaniline	<26.9	mg/Kg	26.9	EPA 8270E
4-Nitrophenol	<81.5	mg/Kg	81.5	EPA 8270E
Acenaphthene	<26.9	mg/Kg	26.9	EPA 8270E
Acenaphthylene	<26.9	mg/Kg	26.9	EPA 8270E
Anthracene	<26.9	mg/Kg	26.9	EPA 8270B
Benzo(a)anthracene	<26.9	mg/Kg	26.9	EPA 8270B
Benzo(a)pyrene	<26.9	mg/Kg	26.9	EPA 8270B
Benzo(b)fluoranthene	<26.9	mg/Kg	26.9	EPA 8270B
Benzo(g,h,i)perylene	<26.9	mg/Kg	26.9	EPA 8270B
Benzo(k)fluoranthene	<26.9	mg/Kg	26.9	EPA 8270B
Benzoic acid	<81.5	mg/Kg	81.5	EPA 8270B
Benzyl alcohol	<26.9	mg/Kg	26.9	EPA 8270B
Benzyl butyl phthalate	<26.9	mg/Kg	26.9	EPA 8270B
Bis(2-chloroethoxy) methane	<26.9	mg/Kg	26.9	EPA 8270B
Bis(2-chloroethyl) ether	<26.9	mg/Kg	26.9	EPA 8270B
Bis(2-chloroisopropyl) ether	<26.9	mg/Kg	26.9	EPA 8270B
Bis(2-ethylhexyl) phthalate	<163	mg/Kg	163	EPA 8270B
Chrysene	<26.9	mg/Kg	26.9	EPA 8270B
Di-n-butyl phthalate	<81.5	mg/Kg	81.5	EPA 8270B
Di-n-octyl phthalate	<26.9	mg/Kg	26.9	EPA 8270B
Dibenzo(a,h)anthracene	<26.9	mg/Kg	26.9	EPA 8270B
Dibenzofuran	<26.9	mg/Kg	26.9	EPA 8270B
Diethyl phthalate	<26.9	mg/Kg	26.9	EPA 8270B
Dimethyl phthalate	<26.9	mg/Kg	26.9	EPA 8270B
Fluoranthene	<26.9	mg/Kg	26.9	EPA 8270B
Fluorene	<26.9	mg/Kg	26.9	EPA 8270B
Hexachlorobenzene	<26.9	mg/Kg	26.9	EPA 8270B
Hexachlorobutadiene	<81.5	mg/Kg	81.5	EPA 8270B

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Sample Date/Time 5/17/00 12:15 System ID AE04619 Sample ID LAB000708

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Date Received:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-6-13 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.000

Comments:

Sample Status: REPORT QUEUE

Sample Type: Sample Matrix: _ Collected By:

GRAB SOIL DL

5/19/00

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<81.5	mg/Kg	81.5	EPA 8270B
Hexachloroethane	<81.5	mg/Kg	81.5	EPA 8270B
Indeno(1,2,3-cd)pyrene	<26.9	mg/Kg	26.9	EPA 8270B
Isophorone	<26.9	mg/Kg	26.9	EPA 8270B
N-Nitrosodi-n-propylamine	<26.9	mg/Kg	26.9	EPA 8270B
N-Nitrosodiphenylamine	<26.9	mg/Kg	26.9	EPA 8270B
Naphthalene	<26.9	mg/Kg	26.9	EPA 8270B
Nitrobenzene	<26.9	mg/Kg	26.9	EPA 8270B
Pentachlorophenol	<81.5	mg/Kg	81.5	EPA 8270B
Phenanthrene	28.9	mg/Kg	26.9	EPA 8270B
Phenol	<26.9	mg/Kg	26.9	EPA 8270B
Pyrene	<26.9	mg/Kg	26.9	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	<204	μg/Kg	204	EPA 8260B
1,1,1-Trichloroethane	<204	μg/Kg	204	EPA 8260B
1,1,2,2-Tetrachloroethane	<204	μg/Kg	204	EPA 8260B
1,1,2-Trichloroethane	249	μg/Kg	204	EPA 8260B
- 1.1-Dichloroethane	<204	μg/Kg	204	EPA 8260B
1,1-Dichloroethene	<204	μg/Kg	204	EPA 8260B
1,1-Dichloropropene	<204	μg/Kg	204	EPA 8260B
1,2,3-Trichlorobenzene	<204	μg/Kg	204	EPA 8260B
1,2,3-Trichloropropane	<204	μg/Kg	204	EPA 8260B
1,2,4-Trichlorobenzene	<204	μg/Kg	204	EPA 8260B
1;2,4-Trimethylbenzene	2470	μg/Kg	204	EPA 8260B
1,2-Dibromo-3-chloropropane	<1020	μg/Kg	1020	EPA 8260B
1,2-Dibromoethane	<204	µg/Kg	204	EPA 8260B
1,2-Dichlorobenzene	1100	μg/Kg	204	EPA 8260B
1;2-Dichloroethane	<204	μg/Kg	204	EPA/8260B
1,2-Dichloropropane	<204	μg/Kg	204	EPA 8260B
1,3,5-Trimethylbenzene	<204	μg/Kg	204	EPA 8260B
1,3-Dichlorobenzene	<204	μg/Kg	204	EPA 8260B
1,3-Dichloropropane	<204	µg/Kg	204	EPA 8260B

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Sample Date/Time 5/17/00 12:15 System ID AE04619 Sample ID LAB000708

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Address/Location:

Proj./Company Name: SPECIAL WASTE MISC SAMP

TP-6-13 PROJECT 6064

10505 N NORTH PORTLAND RD

Date Received: 5/19/00 Sample Status: REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

Sample Point Code: IMS File/Invoice #:

3030.000

Sample Matrix: Collected By:

GRAB SOIL DL

Comments:

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	1460	µg/Кg	204	EPA 8260B
2,2-Dichloropropane	<204	μg/Kg	204	EPA 8260B
2-Butanone	<2040	μg/Kg	2040	EPA 8260B
2-Chlorotoluene	<204	μg/Kg	204	EPA:8260B
2-Hexanone	<2040	μg/Kg	2040	EPA 8260B
4-Chlorotoluene	<204	μg/Kg	204	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<1020	μg/Kg	1020	EPA 8260B
Acetone	<2040	µg/Kg	2040	EPA 8260B
Benzene	<204	μg/Kg	204	EPA 8260B
Bromobenzene	<204	μg/Kg	204	EPA 8260B
Bromochloromethane	<204	μg/Kg	204	EPA 8260B
Bromodichloromethane	<204	µg/Kg	204	EPA 8260B
Bromoform	<204	μg/Kg	204	EPA 8260B
Bromomethane	<1020	μg/Kg	1020	EPA 8260B
Carbon disulfide	<2040	µg/Kg	2040	EPA 8260B
Carbon tetrachloride	<204	μg/Kg	204	EPA 8260B
Chlorobenzene	8650	μg/Kg	204	EPA 8260B
Chloroethane	<204	μg/Kg	204	EPA 8260B
Chloroform	<204	μg/Kg	204	EPA 8260B
Chloromethane	<1020	μg/Kg	1020	EPA 8260B
cis-1,2-Dichloroethene	<204	μg/Kg	204	EPA 8260B
cis-1,3-Dichloropropene	<204	μg/Kg	204	EPA 8260B
Dibromochloromethane	<204	μg/Kg	204	EPA 8260B
Dibromomethane	<204	µg/Kg	204	EPA 8260B
Dichlorodifluoromethane	<1020	μg/Kg	1020	EPA 8260B
Ethylbenzene	<204	µg/Kg	204	EPA 8260B
Hexachlorobutadiene	<408	µg/Kg	408	EPA 8260B
Isopropylbenzene	402	µg/Kg	204	EPA 8260B
m,p-Xylene	2040	µg/Kg	408	EPA 8260B
Methylene chloride	<1020	μg/Kg	1020	EPA 8260B
n-Butylbenzene	571	µg/Kg	204	EPA 8260B
л-Propylbenzene	646	μg/Kg	204	EPA 8260B

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Sample Date/Time	5/17/00	12:15	System ID	AE04619	Sample ID	LAB000708
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Proj./Company Name: Address/Location:		NORTH	PORTLAND F		Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030,000				Sample Type: Sample Matrix:	GRAB SOIL

Comments:

Test Parameter	Result	Units	MRL	Method
Naphthalene	3020	μg/Kg	204	EPA 8260B
o-Xylene	1350	μg/Kg	204	EPA 8260B
p-lsopropyltoluene	642	μg/Kg	204	EPA 8260B
sec-Butylbenzene	232	μg/Kg	204	EPA 8260B
Styrene	<204	μg/Kg	204	EPA 8260B
terf-Butylbenzene	<204	μg/Kg	204	EPA 8260B
Tetrachloroethene	<204	μg/Kg	204	EPA 8260B
Toluene	<204	μg/Kg	204	EPA 8260B
trans-1,2-Dichloroethene	<204	μg/Kg	204	EPA 8260B
trans-1,3-Dichloropropene	<204	μg/Kg	204	EPA 8260B
Trichloroethene	<204	µg/Kg	204	EPA 8260B
Trichlorofluoromethane	<204	µg/Kg	204	EPA 8260B
Vinyl chloride	<204	µg/Kg	204	EPA 8260B

End of Report for Sample ID: LAB000708





System ID AE04620 Sample Date/Time 5/17/00 Sample ID LAB000709 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-7-5 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: **GRAB** Sample Point Code: Sample Matrix: 0 SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.69	mg/Kg	0.025	EPA 6020
BARIUM	130	mg/Kg	11.0	EPA 6010 //
CADMIUM	0.13	mg/Kg	0.025	EPA 6020
CHROMIUM	18 🚉	mg/Kg	1.0	EPA 6010
LEAD	27	mg/Kg	3.0	EPA 6010
MERCURY	0.040	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	∰	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B •
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	< 0.660	mg/Kğ	0.660	EPA 8270B
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2-Chloronaphthalene	<0.660	mg/Kg	0,660	EPA 8270B
2-Chlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2-Methylnaphthalene :::	< 0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	< 0.660	mg/Kg	0.660	EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	- <2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B

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Report Date: 6/12/00

A



Fluoranthene

Fluorene

Hexachlorobenzene

Hexachlorobutadiene

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/17/00 12:50 System ID AE04620 Sample ID LAB000709

Page: 2

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-7-5 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: 0 Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter Result Units MRL Method 4-Chloro-3-methylphenol <0.660 mg/Kg 0.660 EPA 8270B 4-Chloroaniline <4.00 mg/Kg 4.00 **EPA 8270B** 4-Chlorophenylphenyl ether. < 0.660 mg/Kg 0.660 EPA 8270B 4-Methylphenol < 0.660 mg/Kg 0.660 **EPA 8270B** 4-Nitroaniline <0.660 mg/Kg + 0.660 EPA 8270B 4-Nitrophenol <2.00 mg/Kg 2.00 **EPA 8270B** Acenaphthene <0.660 mg/Kg 0.660 EPA 8270B < 0.660 **EPA 8270B** Acenaphthylene mg/Kg 0.660 Anthracene < 0.660 mg/Kg= 0.660 EPA 8270B Benzo(a)anthracene < 0.660 0.660 **EPA 8270B** mg/Kg Benzo(a)pyrene <0.660 EPA 8270B mg/Kg 0.660 Benzo(b)fluoranthene < 0.660 0.660 **EPA 8270B** mg/Kg Benzo(g,h,i)perylene <0.660 mg/Kg 0.660 ERA 8270B Benzo(k)fluoranthene < 0.660 0.660 **EPA 8270B** mg/Kg Benzoic acid <2.00 2.00 mg/Kg EPA 8270B Benzyl alcohol **EPA 8270B** < 0.660 mg/Kg 0.660 Benzyl butyl phthalate <0.660 0.660 EPA 8270B mg/Kg ---Bis(2-chloroethoxy) methane < 0.660 mg/Kg 0.660 **EPA 8270B** Bis(2-chloroethyl) ether <0.660 0.660 mg/Kg≢ EPA 8270B Bis(2-chloroisopropyl) ether < 0.660 mg/Kg 0.660 **EPA 8270B** Bis(2-ethylhexyl) phthalate <4.00 4.00 mg/Kg EPA 8270B Chrysene <0.660 mg/Kg 0.660 **EPA 8270B** Di-n-butyl phthalate <2.00 mg/Kg 2.00 EPA 8270B Di-n-octyl phthalate < 0.660 mg/Kg 0.660 **EPA 8270B** Dibenzo(a,h)anthracene < 0.660 mg/Kg 0.660 EPA 8270B Dibenzofuran < 0.660 mg/Kg 0.660 **EPA 8270B** Diethyl phthalate <0.660 0.660 mg/Kg EPA 8270B Dimethyl phthalate < 0.660 mg/Kg 0.660 **EPA 8270B**

<0.660

< 0.660

<0.660

<2.00

mg/Kg

mg/Kg

mg/Kg

mg/Kg

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656

A

Report Date: 6/12/00

0.660

0.660

0.660

2.00

EPA 8270B

EPA 8270B

EPA 8270B

EPA 8270B





Sample Date/Time 5/17/00 Sample ID LAB000709 12:50 System ID AE04620 Page: 3 Proj./Company Name: SPECIAL WASTE MISC SAMP **Date Received:** 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD REPORT QUEUE Sample Status: TP-7-5 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: Sample Matrix: 0 SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<0.660	mg/Kg	0.660	EPA 8270B
Isophorone	<0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine.	<0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	<0.660	mg/Kg	0.660	EPA 8270B
Naphthalene :	<0,660	⊥ mg/Kg	0.660	EPA 8270B
Nitrobenzene	<0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	<0.660	mg/Kg	0.660	EPA 8270B
Phenol	<0.660	mg/Kg	0.660	EPA 8270B
Pyrene	<0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	Control of the Contro			SATE THAT I SHARE SHE WAS BEEN AND AND AND AND AND AND AND AND AND AN
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100*	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Кд	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Report Date: 6/12/00

A





Sample Date/Time 5/17/00 System ID AE04620 Sample ID LAB000709 12:50

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-7-5 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB SOIL

5/19/00

REPORT QUEUE

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	µg/Кg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1220	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	4<100	+ μg/Kg	- 100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100.÷;:	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	µg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	. 100	EPA 8260B
Bromomethane	<500	μg/K g :=	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100 th	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane 2007	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	≾100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	±μg/Kg	100	EPA 8260B

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Sample Date/Time	5/17/00 12:50	System ID AE04620	Sample ID L	AB000709
l			Page:	5
Proj./Company Name Address/Location:	: SPECIAL WASTE 10505 N NORTH TP-7-5 PROJECT	PORTLAND RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000		Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100*:	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1;3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100.	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000709

Report Date



Sample Point Code:

0

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



SOIL

Sample Matrix:

Sample Date/Time 5/17/00 13:00 System ID AE04621 Sample ID LAB000710 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD REPORT QUEUE Sample Status: TP-7-17 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB

IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS	to the second of the first and the second of			colores status
ARSENIC	2.56	mg/Kg	0.025	EPA 6020
BARIUM	80	mg/Kg	1.0	EPA 6010
CADMIUM	0.11	:∴ mg/Kg	0.025	EPA 6020
CHROMIUM	21	mg/Kg	1.0	EPA 6010
LEAD	系。是 17 00 高级	mg/Kg	3.0	EPA 6010
MERCURY	0.024	mg/Kg	0.003	EPA 7471
SELENIUM.	<0.25	mg/Kg/	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	<0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	ERA/8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	-<0.660 ∂	mg/Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2,4-Dichlorophenol,		mg/Kg	0.660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00 <i>≓/</i> ∗₩	mg/Kg	1.00	EPA 8270B
2-Chloronaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Chlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylnaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	<0.660	: mg/Kg	0.660	EPA 8270B
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	<0.660	mg/Kg	0.660	EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B

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Sample Date/Time 5/17/00 13:00 System ID AE04621 Sample ID LAB000710

Page:

5/19/00

Date Received: Sample Status:

REPORT QUEUE

TP-7-17 PROJECT 6064

10505 N NORTH PORTLAND RD

Proj Subcategory: Sample Point Code:

IMS File/Invoice #:

Address/Location:

SPECIAL WASTE

0

Proj./Company Name: SPECIAL WASTE MISC SAMP

3030.000

Sample Type: Sample Matrix:

GRAB SOIL

Collected By:

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00 // :	mg/Kg	4.00	EPA 8270Bi
4-Chlorophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00 ≤2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	<0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	<0.660	mg/Kg	0.660	EPA 8270B
Anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	<0.660 #	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	<0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	<0.660↓	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene Chrysene	<0.660	mg/Kg	0.660	EPA:8270B*
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	<0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	0.950	mg/Kg	0.660	EPA 8270B
Fluorene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B

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IMS File/Invoice #:

3030.000

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



DL

Sample Date/Time 5/17/00 System ID AE04621 Sample ID LAB000710 13:00 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD Sample Status: TP-7-17 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: Sample Matrix: SOIL

Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2,00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<0.660	mg/Kg	0.660	EPA 8270B
Isophorone	≥ 2 ≤0.660 ×	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	<0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	<0.660 €	ri mg/Kg : ⊨.	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene		mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	<0.660.1	mg/Kg	0.660	EPA 8270B
Phenol	<0.660	mg/Kg	0.660	EPA 8270B
Pyrene 1: Pyrene	0.872	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUND				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	·运力。<100 // // //	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	≤≤100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100.	μg/Kg + π	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	≤100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/17/00 13:00 System ID AE04621 Sample ID LAB000710

Page: 4

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD TP-7-17 PROJECT 6064

Date Received: 5/19/00 Sample Status: REPORT QUEUE

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	µg/Kg	100	EPA-8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1220	ug/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	µg/Кg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene .	, <100°	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA/8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100 7	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100_i	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500 ⇒	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene .	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/17/00 13:00 System ID		tem ID AE04621	Sample ID L	AB000710
L			Page:	5
	: SPECIAL WASTE MISC		Date Received:	5/19/00
Address/Location:	10505 N NORTH PORT TP-7-17 PROJECT 606		Sample Status:	REPORT QUEUE
Proj Subcategory:	SPECIAL WASTE		Sample Type:	GRAB
Sample Point Code:	0		Sample Matrix:	SOIL
IMS File/Invoice #:	3030.000		Collected By:	DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	≤100	μġ/Kġ	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-IsopropyItoluene	<100	μg/Kg :	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene:	<100	μg/Kg ≔	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene ::	<100, ***	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100 · · ·	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μġ/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000710

rt Date: 6





5/19/00

REPORT QUEUE

Sample Date/Time 5/17/00 13:55 System ID AE04622 Sample ID LAB000711

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-8-5 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000

Sample Status:

Date Received:

Sample Type: GRAB

Sample Matrix: SOIL
Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	6.38	mg/Kg	0.025	EPA 6020
BARIUM	130 4 7	mg/Kg	1.0	EPA 6010
CADMIUM	0.17	mg/Kg	0.025	EPA 6020
CHROMIÙM	20	mg/Kg	1.0	EPA 6010
LEAD	9.9	mg/Kg	3.0	EPA 6010
MERCURY	0.018	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	-1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	inf (≤1,00 : 15)	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	/1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	≤1.00 ⋅	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

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Sample Date/Time 5/17/00 13:55 System ID AE04622 Sample ID LAB000711

Page:

2

Address/Location:

Proj./Company Name: SPECIAL WASTE MISC SAMP

10505 N NORTH PORTLAND RD TP-8-5 PROJECT 6064

Date Received: Sample Status:

5/19/00

SPECIAL WASTE

REPORT QUEUE

Proj Subcategory: Sample Point Code:

Sample Type:

GRAB

IMS File/Invoice #:

3030.000

Sample Matrix: Collected By:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
19 4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	<0.330	mg/Kg	0.330	T EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	· 4 <0:330	mg/Kg	0:330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	<0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene 1	<0,330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	<0.330	mg/Kg	0.330	⇒ EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g;h.i)perylene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	≤1.00: < ⁺	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-bufyl phthalafe	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

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IMS File/Invoice #:

3030.000

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



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Sample Date/Time 5/17/00 Sample ID LAB000711 13:55 System ID AE04622 Page: 3 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-8-5 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: **GRAB** Sample Point Code: 0 Sample Matrix: SOIL

Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
/ Indeno(1,2,3-cd)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Isophorone	<0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	<0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	<0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	<0.330	mg/Kg	0.330	ERA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	<0.330	mg/Kg	0.330	EPA 8270B .
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	≤100 J	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100,	⊫ μg/Kg	100 👙 🖙	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	· <100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100.	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1;3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Report Date; 6/12/00

Soft Date





5/19/00

GRAB

SOIL

DL

REPORT QUEUE

Sample Date/Time 5/17/00 13:55 System ID AE04622 Sample ID LAB000711

Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NOR

10505 N NORTH PORTLAND RD

TP-8-5 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000

ECIAL WASTE Sample Type:

Sample Matrix:
Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2;2-Dichloropropane	<100 <i>-</i>	μg/Kg	100	EPA 8260B
2-Butanone	1320	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100;	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	×<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane 7	×100	μg/Kg	1 100	→ EPA 8260B «
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	→ μg/Kg-±±5	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100 m/s	μg/Kg,	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane Chloroethane	<100. .	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg:	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100 × 100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene		μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Report Date: 6/12/00

port Date: 6





Sample Date/Time	5/17/00	13:55	System ID	AE04622	Sample ID	LAB000711
<u> </u>			~		Page:	5
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-8-5 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE			
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL V 0 3030.000	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100 / 5	μg/Kg	100	EPA 8260B
p-lsopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	- <100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000711





Sample Date/Time 5/17/00 14:05 System ID AE04623 Sample ID LAB000712

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-8-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB

5/19/00

REPORT QUEUE

SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS	or and a second and a second in the second			
ARSENIC	3.56	mg/Kg	0.025	EPA 6020
BARIUM	110	mg/Kg	1.0	EPA 6010
CADMIUM	0.12	mg/Kg	0.025	EPA 6020
CHROMIUM	17	mg/Kg	1.0	EPA 6010
LEAD	7.3	mg/Kg	3.0	EPA 6010
MERCURY	0.011	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				EDENISTA DE COMPONIDADO DE LOS CARACTERISTAS DE LA COMPONIDA DE LOS CARACTERISTAS DE LA COMPONIDA DE LA COMPON
1,2,4-Trichlorobenzene	<0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2.00	mg/ Kg	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	<0.660.	mg/ Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2,4-Dichlorophenol	<0,660, € €	/‱. mg/ Kg	0,660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1,00	mg/Kg	1,00	EPA 8270B
2-Chloronaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Chlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylnaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	< 0.660	mg/Kg	0,660	EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B





Sample Date/Time 5/17/00 Sample ID LAB000712 System ID AE04623

> Page: **Date Received:**

2

Proj./Company Name: SPECIAL WASTE MISC SAMP

10505 N NORTH PORTLAND RD Sample Status:

TP-8-19 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

Address/Location:

IMS File/Invoice #: 3030.000

0

Sample Type: Sample Matrix: **GRAB**

5/19/00

REPORT QUEUE

Collected By:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4:00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	<0.660		0.660	EPA 8270B
4-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	<0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	<0.660	mg/Kg	0.660: 4	EPA 8270B
Anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	<0.660	mg/Kg;	0.660	EPA'8270B
Benzo(a)pyrene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	<0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.660	mg/Kg	0,660 💥	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	, <0.660 ⋅⋅⋅	mg/Kg	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	<0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Fluorene	<0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	≤2:00	mg/Kg	2.00	EPA 8270B

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Sample Date/Time 5/17/00 14:05 System ID AE04623 Sample ID LAB000712

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-8-19 PROJECT 6064

Proj Subcategory: Sample Point Code:

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB SOIL DL

3

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane 4	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Isophorone Salar	<0.660	r, img/Kg ∴	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	<0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene **	<0.660	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyréne >	<0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUND	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B5
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	·<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/17/00 14:05 System ID AE04623 Sample ID LAB000712

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Date Received:

5/19/00

Sample Status:

REPORT QUEUE

TP-8-19 PROJECT 6064

10505 N NORTH PORTLAND RD

Proj Subcategory: Sample Point Code:

Address/Location:

SPECIAL WASTE

: 0

IMS File/Invoice #: 30

3030.000

Proj./Company Name: SPECIAL WASTE MISC SAMP

Sample Type:

GRAB

Sample Matrix: Collected By: SOIL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	j/g/Kg	100 * 73	FERA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1300	µg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	⊈µg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene:		μg/Kg 🗼	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	+ μg/Kg · · ·	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100, ·	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/ Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B1
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/17/00 14:05 System ID AE04623 Sample ID LAB000712

Page:

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Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-8-19 PROJECT 6064

Date Received:

5/19/00

Sample Status:

REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code:

Sample Matrix:

SOIL

IMS File/Invoice #:

3030.000

Collected By:

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene Williams	<100	µg/Kg⋅-	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100 €	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg⊕	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	¥ · · · · <100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100 ² 100 ≤100 ≤ 100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000712





Sample Date/Time 5/17/00 Sample ID LAB000713 14:30 System ID AE04624

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-9-5 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB

Collected By:

SOIL DL

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	3.00	mg/Kg	0.025	EPA 6020
BARIUM	110	mg/Kg	1.0	EPA 6010
CADMIUM	0.13	mg/Kg	0.025	EPA 6020
CHROMIÚM	18	mg/Kg	1.0	EPA 6010
LEAD	18	mg/Kg	3.0	EPA 6010
MERCURY	0.021	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				一日本日本の日本日本日本の日本の日本の日本の日本日本日本日本日本日本日本日本日本
1,2,4-Trichlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
1,2-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B ***
1,3-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,4-Dichlorobenzene	<10.0	mg/Kg	10,0	EPA 8270B
2,4,5-Trichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4,6-Trichlorophenol	≤3.30	mg/Kg	3.30	EPA 8270B
2,4-Dichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4-Dimethylphenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrophenol	<20.0	mg/Kg	20.0	EPA 8270B
2,4-Dinifrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2,6-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chloronaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Chlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Methylnaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitroaniline	≤3.30	mg/Kg	3.30	EPA 8270B
2-Nitrophenol	<3.30	mg/Kg	3.30	EPA 8270B
3,3'-Dichlorobenzidine	≤10.0 ×	mg/Kg	10.0	EPA 8270B
3-Nitroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4,6-Dinitro-2-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Bromophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B

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Sample Date/Time 5/17/00 14:30 System ID AE04624 Sample ID LAB000713

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-9-5 PROJECT 6064

ORTLAND RD Sample Status

5/19/00

Sample Status: REPORT QUEUE

Proj Subcategory: Sample Point Code:

SPECIAL WASTE

: 0

0

Sample Type: Sample Matrix:

Date Received:

GRAB

IMS File/Invoice #: 3030.000

Collected By:

SOIL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<3.30	mg/Kg	3.30	EPA-8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EPA 8270B
4-Chlorophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B
4-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitroaniline	<3.30*	mg/Kg	3.30	EPA 8270B*
4-Nitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
Acenaphthene	<3.30	mg/Kg	3.30	EPA 8270B
Acenaphthylene	<3.30	mg/Kg	3.30	EPA 8270B
Anthracene Anthracene	<3.30	mg/Kg	3,30	EPA 8270B
Benzo(a)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(b)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(g;h;l)perylene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(k)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzoic acid	≤10.0:	mg/Kg 🐇	10.0	EPA 8270B
Benzyl alcohol	<3.30	mg/Kg	3.30	EPA 8270B
Benzyl butyl phthalate	<3.301	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethoxy) methane	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroisopropyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-ethylhexyl) phthalate	<20.0	mg/Kg	20.0	EPA 8270B
Chrysene	<3.30	mg/Kg	3,30	EPA 8270B
Di-n-butyl phthalate	<10.0	mg/Kg	10:0	EPA 8270B
Di-n-octyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzo(a,h)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzofuran	<3.30	mg/Kg	3.30	EPA 8270B
Diethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dimethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Fluorene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EPA 8270B

Report Date: 6/12/00

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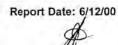


System ID AE04624 Sample Date/Time 5/17/00 14:30 Sample ID LAB000713 Page: 3 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: Sample Status: REPORT QUEUE 10505 N NORTH PORTLAND RD TP-9-5 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB

Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10.0	∵ mg/Kg	10,0	EPA 8270B
Hexachloroethane	<10.0	mg/Kg	10.0	EPA 8270B
Indeno(1,2,3-cd)pyrene	. <3.30	mg/Kg 🚉	3.30	EPA 8270B
Isophorone	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodi-n-propylamine	<3.30	mg/Kg	3.30	EPA 8270B:
N-Nitrosodiphenylamine	<3.30	mg/Kg	3.30	EPA 8270B
Naphthalene	≤3,30	mg/Kg	3.30	EPA 8270B
Nitrobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Pentachlorophenol	<10.0 □	mg/Kg: 🐷	10.0	EPA 8270B
Phenanthrene	<3.30	mg/Kg	3.30	EPA 8270B
Phenol	<3.30, 1	mg/Kg 👑	3.30	EPA 8270B
Pyrene	<3.30	mg/Kg	3.30	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100 × 100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	≤100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	µg/Кg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	≤100 ·····	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	≤100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B







Sample Date/Time 5/17/00 Sample ID LAB000713 14:30 System ID AE04624

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-9-5 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Point Code:

0

IMS File/Invoice #: 3030.000 Sample Type:

Date Received:

Sample Status:

GRAB SOIL

Sample Matrix: Collected By:

DL

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg .	100	EPA 8260B
2-Butanone	1160	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	, i	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	µg/Кд	1000	EPA 8260B
4-Chlorotoluene		μg/Kg:	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg :	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100 €	μg/Kg	. 100	EPA 8260B
Bromochloromethane	<100	µg/Кg	100	EPA 8260B
Bromodichloromethane	≤100	μg/Kg 😁	100.	EPA 8260B
Bromoform	<100	µg/Кg	100	EPA 8260B
Bromomethane Communication	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<b <100 · · ·	μg/Kg	100 🔧 🗸	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
- Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500.	EPA 8260B
cis-1,2-Dichloroethene	<100	µg/Кg	100	EPA 8260B
cis-1,3-Dichloropropene	<i>→</i> <100, hi	μg/Kg	- 100 J	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	. 100	EPA 8260B

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Sample Date/Time	5/17/00 14:30	System ID AE04624	Sample ID L	AB000713
			Page:	5
Proj./Company Name: Address/Location:	SPECIAL WASTE 10505 N NORTH TP-9-5 PROJECT	PORTLAND RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000		Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	≤100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
" sec-Butylbenzene!	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B.
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	≤100 × ×	µg/Kg	100)	EPA 8260B.
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100°	μg/Kg 🖽	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg :=	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000713





Sample Date/Time 5/17/00 14:35 Sample ID LAB000714 System ID AE04625

Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-9-11 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Collected By:

GRAB SOIL DL

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC "	6.04	mg/Kg	0.025	EPA 6020
BARIUM	200	mg/Kg	1.0	EPA 6010
CADMIÚM	0.11	mg/Kg	0.025	EPA 6020
CHROMIUM	25	mg/Kg	1.0	EPA 6010
LEAD 4	17:34.6	mg/Kg	3.0	EPA C010
MERCURY	0.017	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	;ERA 6020
SILVER	< 0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	<1.65	mg/Kg	1.65	EPA 8270B
1,2-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
1,3-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
1,4-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
2,4,5-Trichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4,6-Trichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4-Dichlorophenol	≥≤1:65	mg/Kg	1.65	EPA 8270B
2,4-Dimethylphenol	<5.00	mg/Kg	5.00	EPA 8270B
2,4-Dinitrophenol	<10.0	mg/Kg	10.0	: DEPA 8270B
2,4-Dinitrotoluene	<2.50	mg/Kg	2.50	EPA 8270B
2,6-Dinitrotoluene	<2.50	mg/Kg · · ·	2.50	EPA 8270B
2-Chloronaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Chlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2-Methylnaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Methylphenol	<1,65	mg/Kg	1.65	EPA 8270B
2-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
2-Nitrophenol	<1.65 4 5.	mg/Kg	1.65	EPA 8270B
3,3'-Dichlorobenzidine	<5.00	mg/Kg	5.00	EPA 8270B
3-Nitroaniline	<5.00	mg/Kg	5.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<5.00	mg/Kg	5.00	EPA 8270B
4-Bromophenylphenyl ether	<1.65	mg/Kg	1,65	EPA 8270B

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Sample ID LAB000714 Sample Date/Time 5/17/00 14:35 System ID AE04625 Page: 2 Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD TP-9-11 PROJECT 6064 GRAB Proj Subcategory: SPECIAL WASTE Sample Type:

Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
4-Chloroaniline	<<10.0a/a/	mg/Kg 🦠	10.0	EPA 8270B
4-Chlorophenylphenyl ether	<1.65	mg/Kg	1.65	EPA 8270B
4-Methylphenol	<1.65	mg/Kg	1,65	ERA 8270B
4-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
4-Nitrophenol	<5.00	, mg/Kg	5.00	EPA 8270B
Acenaphthene	<1.65	mg/Kg	1.65	EPA 8270B
Acenaphthylene	<1.65	mg/Kg	1.65	EPA 8270B
Anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(a)anthracene	<1.65	mg/Kg:	1.65	EPA 8270B.
Benzo(a)pyrene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(b)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(g,h,i)perylene	<1.65	mg/Kg	1.65	EPA 8270B
Benző(k)fluoranthene	i	mg/Kg	1:65	EPA 8270B
Benzoic acid	<5.00	mg/Kg	5.00	EPA 8270B
Benzyl alcohol - x	√ <1.65	mg/Kg	1,65	EPA 8270B
Benzyl butyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethoxy) methane	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroisopropyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-ethylhexyl) phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Chrysene Chrysene	<1:65	mg/Kg	1.65	EPA 8270B
Di-n-butyl phthalate	<5.00	mg/Kg	5.00	EPA 8270B
Di-n-octyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzo(a,h)anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzofuran	<1.65	mg/Kg	1.65	EPA 8270B
Diethyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dimethyl phthalate	<1.65	mg/Kg	1,65	EPA 8270B
Fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Fluorene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobenzene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobutadiene	<5.00	mg/Kg	5.00	EPA 8270B

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6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656 Re





Sample Date/Time 5/17/00 14:35 System ID AE04625 Sample ID LAB000714

Page:

Date Received:

Proj./Company Name: SPECIAL WASTE MISC SAMP 10505 N NORTH PORTLAND RD

Sample Status:

5/19/00 REPORT QUEUE

TP-9-11 PROJECT 6064

Proj Subcategory: Sample Point Code:

Address/Location:

SPECIAL WASTE

GRAB

IMS File/Invoice #:

3030.000

Sample Type: Sample Matrix: Collected By:

SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<5.00	mg/Kg	5.00	EPA 8270B
Hexachloroethane	<5.00	mg/Kg	5.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<1.65	mg/Kg	1.65	EPA 8270B
Isophorone	*≤1:65	mg/Kg	1.65	EPA 8270B
N-Nitrosodi-n-propylamine	<1.65	mg/Kg	1.65	EPA 8270B
N-Nitrosodiphenylamine	<1.65	mg/Kg	1.65	EPA 8270B
Naphthalene	<1.65	mg/Kg	1.65	EPA 8270B
Nitrobenzene	<1.65	mg/Kg	1.65	EPA 8270B
Pentachlorophenol	<5.00	mg/Kg	5.00	EPA 8270B
Phenanthrene	<1.65	mg/Kg	1.65	EPA 8270B
Phenol	<1.65	mg/Kg	1.65	EPA 8270B
Pyrené	<1.65	mg/Kg	1.65	EPA 8270B
VOLATILE ORGANIC COMPOUND				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	≤100 ×	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100 →	μg/K g	100	EPA 8260B
1,1-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100 × 100	µg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100,	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500 🛨	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2:Dichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100 7	µg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	µg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	+ 100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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IMS File/Invoice #:

3030.000

City of Portland **Water Pollution Control Laboratory Laboratory Analysis Report**



Sample Date/Time 5/17/00 14:35 System ID AE04625 Sample ID LAB000714 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP **Date Received:** 5/19/00 REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD Sample Status: TP-9-11 PROJECT 6064 SPECIAL WASTE Sample Type: **GRAB** Proj Subcategory: Sample Matrix: Sample Point Code: SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	× 100 × 4	μg/Kg	100 = "	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1230	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	_<1000 · · ·	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	ν μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	H 1100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane: 4	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	µg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg 🕠	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	± <500 // ±	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	µg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	µg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

Report Date: 6/12/00

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Sample Date/Time	5/17/00 14:3	5 System ID AE	04625 Sample ID	LAB000714
Li			Page:	5
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-9-11 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WAS 0 3030.000	re	Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
Näphthalenenta	<100	μg/Kg	100	12 EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	≤100%	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	:	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	≤100	. μg/Kg.≅5	100	EPA 8260B

End of Report for Sample ID: LAB000714

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Sample Date/Time 5/17/00 15:00 System ID AE04626 Sample ID LAB000715

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-10-10 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #: 3030.000

Date Received: Sample Status: 5/19/00

REPORT QUEUE

Sample Type:

GRAB SOIL

Sample Matrix: Collected By:

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	5.25	mg/Kg	0.025	EPA 6020
BARIUM	150.	mg/Kg	1.0 4 2 4	EPA 6010
CADMIUM	0.14	mg/Kg	0.025	EPA 6020
CHROMIUM	27	mg/Kg	10	EPA 6010
LEAD	56	mg/Kg	3.0	EPA 6010
MERCURY	0.025	mg/Kg	0.003	, EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				THE PARTY OF THE P
1,2,4-Trichlorobenzene	<1.65	mg/Kg	1.65	EPA 8270B
1,2-Dichlorobenzene	<5.00	mg/Kg	5:00	EPA 8270B
1,3-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
1,4-Dichlorobenzene	<5.00	mg/Kg	5.00 · · · · · ·	EPA 8270B
2,4,5-Trichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4,6-Trichlorophenol	: <1.65 · . □	mg/Kg	1.65	EPA 8270B
2,4-Dichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4-Dimethylphenol	<5.00 !:	mg/Kg	5.00	EPA 8270B
2,4-Dinitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrotoluene	<2.50	mg/Kg	2.50	EPA 8270B
2,6-Dinitrotoluene	<2.50	mg/Kg	2.50	EPA 8270B
2-Chloronaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Chlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2-Methylnaphthalene	<1.65	mg/Kg	1.65	- EPA 8270B
2-Methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
2-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
2-Nitrophenol	<1.65	mg/Kg	1.65	EPA 8270B
3,3'-Dichlorobenzidine	<5.00	mg/Kg	5.00	EPA 8270B
3-Nitroaniline	<5.00	mg/Kg	5.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<5.00	mg/Kg	5.00	EPA 8270B
4-Bromophenylphenyl ether	<1.65	mg/Kg	1.65	EPA 8270B

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Sample Date/Time 5/17/00 15:00 System ID AE04626 Sample ID LAB000715

Page: 2

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD TP-10-10 PROJECT 6064

Sample ID LAB000715

Page: 2

Date Received: 5/19/00
Sample Status: REPORT QUEUE

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<1.65	ma/Ka	1.65	- EPA 8270B
4-Chloroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4-Chlorophenylphenyl ether	<1:65	mg/Kg	1,65	EPA 8270B
4-Methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
4-Nitroaniline	<1.65 No.	mg/Kg	1,65	* EPA 8270B
4-Nitrophenol	<5.00	mg/Kg	5.00	EPA 8270B
Acenaphthene	ં /ે<1.65 કે.ફોડ	mg/Kg	1.65	EPA 8270B 05%
Acenaphthylene	<1.65	mg/Kg	1.65	EPA 8270B
Anthracene		mg/Kg	1.652	EPA 8270B
Benzo(a)anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(a)pyrene	<1.65	mg/Kg) 1.65 · · ·	EPA 8270B
Benzo(b)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(g,h,l)perylene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(k)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzoic acid	<5.00	mg/Kg	5.00	EPA 8270B
Benzyl alcohol	<1.65	mg/Kg	1.65	EPA 8270B
Benzyl butyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B;
Bis(2-chloroethoxy) methane	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethyl) ether	<1,65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroisopropyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-ethylhexyl) phthalate	₹10.0∄	mg/Kg	10.0	EPA 8270B
Chrysene	<1.65	mg/Kg	1.65	EPA 8270B
Di-n-butyl phthalate	<5.00 :::	mg/Kg	5.00	EPA 8270B
Di-n-octyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzo(a,h)anthracene	<1.65 ···	mg/Kg	1.65	EPA 8270B
Dibenzofuran	<1.65	mg/Kg	1.65	EPA 8270B
Diethyl phthalate	<1.65 €	mg/Kg	1.65	EPA 8270B
Dimethyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Fluorene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobenzene	<1.65	mg/Kg	1:65	EPA 8270B
Hexachlorobutadiene	<5.00	mg/Kg	5.00	EPA 8270B





Sample Date/Time 5/17/00 Sample ID LAB000715 15:00 System ID AE04626 Page: 3 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-10-10 PROJECT 6064

SPECIAL WASTE Proj Subcategory: Sample Type: **GRAB** Sample Point Code: Sample Matrix: 0 SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<5.00 ≟4	mg/Kg	5.00	EPA 8270B
Hexachloroethane	<5.00	mg/Kg	5.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<1,65	mg/Kg	1.65	EPA'8270B
Isophorone	<1.65	mg/Kg	1.65	EPA 8270B
N-Nitrosodi-n-propylamine	<1.65	mg/Kg	1.65	EPA 8270B
N-Nitrosodiphenylamine	<1.65	mg/Kg	1.65	EPA 8270B
Naphthalene	<1.65	mg/Kg	1.65	EPA 8270B
Nitrobenzene	<1.65	mg/Kg	1.65	EPA 8270B
Pentachlorophenol	<5.00	mg/Kg	5.00	ERA 8270B
Phenanthrene	<1.65	mg/Kg	1.65	EPA 8270B
Phenol.	<1.65	mg/Kg	1.65	EPA-8270B
Pyrene	<1.65	mg/Kg	1.65	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	CONTRACTOR OF THE PARTY OF THE	The South House and Assess		
1,1,1,2-Tetrachloroethane	<100 , □	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	ERA 8260B
1,1-Dichloroethene	<100	µg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	⊥ μg/Kg 🔠	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100 -	μg/Kg -	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1;3;5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Proj Subcategory:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



GRAB

Sample Date/Time 5/17/00 15:00 System ID AE04626 Sample ID LAB000715

Page: 4

Proj./Company Name: SPECIAL WASTE MISC SAMP
Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-10-10 PROJECT 6064

Sample Type:

Sample Point Code: 0 Sample Matrix: SOIL

IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

SPECIAL WASTE

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	µg/Кg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260BL
2-Butanone	1130	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg (🚐	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100 ::-	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1,000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/K g	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500 ***	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg 🐫	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane Common Chloroethane	<100	µg/Кg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene		μg/K ģ	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	≤100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

eport Date:





Sample Date/Time 5/17/00 15:00 System ID AE04626 Sample ID LAB000715 Page: 5 Date Received: 5/19/00 Proj./Company Name: SPECIAL WASTE MISC SAMP Sample Status: REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD TP-10-10 PROJECT 6064 SPECIAL WASTE Sample Type: **GRAB** Proj Subcategory: Sample Matrix: SOIL Sample Point Code: Collected By: DL IMS File/Invoice #: 3030.000

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	µg/Kg	100	EPA 8260B
o-Xylene	<100 _m	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	∴<100 :: ·	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene -	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1;3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000715





Sample Date/Time 5/17/00 15:05 System ID AE04627 Sample ID LAB000716

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-10-16 PROJECT 6064

Proj Subcategory:

Sample Point Code: IMS File/Invoice #:

0 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Collected By:

Date Received:

Sample Status:

GRAB SOIL DL

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC '	14:45 Phys.	mg/Kg	0.025	EPA 6020
BARIUM	200	mg/Kg	1.0	EPA 6010
CADMIUM	# 0.47 E	mg/Kg	0.025	EPA 6020
CHROMIUM	25	mg/Kg	1.0	EPA 6010
LEAD & LESS AND	74	mg/Kg	3.0	EPA/6010
MERCURY	0.064	mg/Kg	0.003	EPA 7471
SELENIUM	0.32	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2:00	mg/Kg: "	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2,4-Dichlorophenol	<0.660 √	mg/Kg	0.660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00**	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00	mg/Kg	1,00	EPA 8270B
2-Chloronaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Chlorophenol	<0.660	mg/Kg 🧀	0.660	EPA 8270B
2-Methylnaphthalene	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	<0.660	mg/Kg 🛨	0,660	EPA 8270B
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	<0.660	mg/Kg	0.660	→ EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B

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Sample ID LAB000716 Sample Date/Time 5/17/00 15:05 System ID AE04627 Page: 2 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Sample Status: REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD TP-10-16 PROJECT 6064 Sample Type: **GRAB** SPECIAL WASTE Proj Subcategory: Sample Matrix: SOIL Sample Point Code: Collected By: DL IMS File/Invoice #: 3030.000

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	<0.660	mg/Kg	0.660	EPA 8270B.
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2:00 × √	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	<0.660	mg/Kg	0.660	EPA 8270B
Anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	<0.660->	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	<0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	. ≤0.660 ⇒	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	<0.660	mg/Kg	0,660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	<0.660	mg/Kg ·	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	<0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	< 0.660	mg/Kg	0,660	EPA 8270B
Fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Fluorene	<0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B





Sample ID LAB000716 Sample Date/Time 5/17/00 15:05 System ID AE04627

Page:

Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-10-16 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.000

Sample Type: Sample Matrix:

Sample Status:

GRAB SOIL

5/19/00

REPORT QUEUE

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<0.660	mg/Kg	0.660	EPA 8270B
Isophorone	≪0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	<0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	<0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	<0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	<0.660 →	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	<0.660	mg/Kg	0.660	EPA 8270B
Phenol	<0.660	mg/Kg	0.660	EPA 8270B
Pyrene	<0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUND				2272332
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	. + ii	μg/Kg	100	EPA 8260B#
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	. i √ <100	µg/Kg	i∷ 100 - (EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B.
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	≤100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100 💛	EPA 8260B
1,2,4-Trimethylbenzene	<100	µg/Кg	100	EPA 8260B
	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

Report Date: 6/12/00

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IMS File/Invoice #:

3030.000

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



DL

15:05 System ID AE04627 Sample ID LAB000716 Sample Date/Time 5/17/00 Page: Date Received: Proj./Company Name: SPECIAL WASTE MISC SAMP 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-10-16 PROJECT 6064 Sample Type: GRAB Proj Subcategory: SPECIAL WASTE Sample Matrix: SOIL Sample Point Code: 0

Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1020	μġ/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500 MS	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	∠ EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100 < /	μg/Kg 📖 👢	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg 🤄 📆	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100;	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	µg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg:	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200.	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Report Date: 6/12/00

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IMS File/Invoice #:

3030.000

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



DL

Sample Date/Time 5/17/00 15:05 System ID AE04627 Sample ID LAB000716 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-10-16 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: Sample Matrix: SOIL

Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	/ <100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene .	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene:	- <100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000716

Ship Ship





Sample ID LAB000717 Sample Date/Time 5/17/00 System ID AE04628 15:30 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-11-5 PROJECT 6064 SPECIAL WASTE Sample Type: Proj Subcategory: GRAB Sample Point Code: Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS		50 pt		2272124
ARSENIC	3.80	mg/Kg	0.025	EPA 6020
BARIUM	150	∞mg/Kg	1.0	EPA 6010
CADMIUM	0.13	mg/Kg	0.025	EPA 6020
CHROMIUM	. 22	mg/Kg	1.0	EPA 6010
LEAD	17	mg/Kg	3.0	EPA 6010
MERCURY	0.020	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1,00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1,00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	<0.330	mg/Kg	0.330	EPA 8270B

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Report Date: 6/12/00

A





2

5/19/00

REPORT QUEUE

Sample ID Sample Date/Time 5/17/00 15:30 System ID AE04628 LAB000717

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-11-5 PROJECT 6064

SPECIAL WASTE

Proj Subcategory: Sample Point Code: 0

IMS File/Invoice #: 3030.000 Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	<0.830	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	<0,330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	<0.330 //	mg/Kg	0.330	EPA-8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	<0.330	mg/Kg	0.330	A EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B+
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

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15:30 System ID AE04628 Sample ID LAB000717 Sample Date/Time 5/17/00 3 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-11-5 PROJECT 6064 SPECIAL WASTE Sample Type: GRAB Proj Subcategory: Sample Matrix: Sample Point Code: SOIL IMS File/Invoice #: Collected By: 3030.000 DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	<0.330.	mg/Kg	-0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	<0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	<0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	3	1000		
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	↓ ↓ ≤100 ;;	μg/Kg	1007 %	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	···<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	ug/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

Report Date: 6/12/00

A

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656





Sample Date/Time 5/17/00 15:30 System ID AE04628 Sample ID LAB000717

Page:

Date Received:

5/19/00

10505 N NORTH PORTLAND RD

TP-11-5 PROJECT 6064

Sample Status:

REPORT QUEUE

Proj Subcategory:

Address/Location:

SPECIAL WASTE

Sample Type:

GRAB SOIL

Sample Point Code: IMS File/Invoice #:

3030.000

Proj./Company Name: SPECIAL WASTE MISC SAMP

Sample Matrix: Collected By:

DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1100	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μġ/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/ Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane 1	<500///	μg/Kg:	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg * · · ·	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	// · · · <500 · / · / · · ·	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene:	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time	5/17/00 15:30	System ID AE04628	Sample ID	LAB000717
			Page:	5
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-11-5 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WAST 0 3030.000	E	Sample Type: Sample Matrix:	GRAB SOIL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	µg/Кg	100	EPA 8260B
o-Xylene	<100	μg/Kg		EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
fert-Butÿlbenzene	<100,	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100 ⋅	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg:	100	EPA 8260B
Vinyl chloride	<100	µg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000717

(A)





Sample Date/Time 5/17/00 15:35 System ID AE04629 Sample ID LAB000718

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-11-11 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB SOIL

5/19/00

REPORT QUEUE

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	4.51	mg/Kg	0.025	EPA 6020
BARIUM	110	mg/Kg	1.0	EPA 6010
CADMIUM	0.30	mg/Kg	0.025	EPA 6020
CHROMIUM	17	mg/Kg	1.0	EPA 6010
LEAD	45	mg/Kg	3.0	EPA 6010
MERCURY	0.028	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA-6020
SILVER	< 0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				*
1,2,4-Trichlorobenzene	<3.30.4	mg/Kg	3.30	EPA 8270B
1,2-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1.3-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
1,4-Dichlorobenzene	<10.0	mg/Kg	10.0	EPA 8270B
2,4,5-Trichlorophenol	<3.30 ···	mg/Kg	3.30	EPA 8270B
2,4,6-Trichlorophenol	<3.30	mg/Kg	3.30	EPA 8270B
2,4-Dichlorophenol		mg/Kg	3.30	EPA 8270B
2,4-Dimethylphenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrophenol	<20.0	mg/Kg	20:0	EPA 8270B
2,4-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2,6-Dinitrotoluene	<5.00	mg/Kg	5.00	EPA 8270B
2-Chloronaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Chlorophenol	<3.30	mg/Kg 🕛	3.30	EPA 8270B
2-Methylnaphthalene	<3.30	mg/Kg	3.30	EPA 8270B
2-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
2-Nitrophenol	<3.30	mg/Kg	3.30	EPA 8270B
3,3'-Dichlorobenzidine	<10.0	mg/Kg	10.0	EPA 8270B
3-Nitroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4,6-Dinitro-2-methylphenol	<10.0	mg/Kg	10.0	EPA 8270B
4-Bromophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B

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Sample Date/Time 5/17/00 15:35 System ID AE04629 Sample ID LAB000718 Page: 2 Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-11-11 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB

Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.000 Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EPA 8270B
4-Chlorophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B
4-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
Acenaphthene	<3.30	mg/Kg	3.30	EPA 8270B
Acenaphthylene	<3.30	mg/Kg	3.30	EPA 8270B
Anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)anthracene	≤3:30	mg/Kg	3.30	EPA 8270B
Benzo(a)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(b)fluoranthene	> <3.30.7	mg/Kg	3.30	EPA 8270B
Benzo(g,h,i)perylene	<3.30	mg/Kg	3.30	EPA 8270B
Benžo(k)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzoic acid	<10.0	mg/Kg	10.0	EPA 8270B
Benzyl alcohol	<3.30	mg/Kg	3.30	EPA 8270B
Benzyl butyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
- Bis(2-chloroethoxy) methane	<3,30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroisopropyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-ethylhexyl) phthalate	<20.0	mg/Kg	20.0	EPA 8270B
Chrysene	<3.30	mg/Kg	3.30	EPA 8270B
Di-n-butyl phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Di-n-octyl phthalate	<3.30	mg/Kg	3,30	EPA 8270B
Dibenzo(a,h)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzofuran		mg/Kg	3.30	EPA 8270B
Diethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dimethyl phthalate	<3,30 ≤	mg/Kg	3.30	EPA 8270B
Fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Fluorene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EPA 8270B

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Sample Date/Time 5/17/00 15:35 System ID AE04629 Sample ID LAB000718

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location:

10505 N NORTH PORTLAND RD

TP-11-11 PROJECT 6064

SPECIAL WASTE

Proj Subcategory: Sample Point Code: IMS File/Invoice #:

0

3030.000

Date Received: Sample Status: 5/19/00 REPORT QUEUE

3

Sample Type: Sample Matrix: GRAB SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10.0	mg/Kg	10.0	EPA 8270B
Hexachloroethane	<10.0	mg/Kg	10.0	EPA 8270B
Indeno(1,2,3-cd)pyrene	<3.30	mg/Kg	3.30	EPA 8270B
Isophorone	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodi-n-propylamine	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodiphenylamine	<3.30	mg/Kg	3.30	EPA 8270B
Naphthalene	<3.30	mg/Kg	3.30	EPA 8270B
Nitrobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Pentachlorophenol	<10.0	mg/Kg	10.0	EPA 8270B
Phenanthrene (19)	<3.30	mg/Kg	3.30	EPA 8270B
Phenol	<3.30	mg/Kg	3.30	EPA 8270B
Pyrene	<3.30	mg/Kg	3.30	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100′	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100 ₪	μg/Kg	100-	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	299	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	≤500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	ug/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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5/19/00

REPORT QUEUE

Sample Date/Time 5/17/00 15:35 System ID AE04629 Sample ID LAB000718

Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

0

Address/Location:

10505 N NORTH PORTLAND RD

TP-11-11 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.000

Sample Type:

GRAB Sample Matrix: SOIL

Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	1 EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1300	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500 × 500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	≤100	μg/Kg	100	EPA 8260B.
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	µg/Kg →	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform ()	<100 · f	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	µg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200 ·	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	→ μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene.	.: ≤100°; <u>†</u>	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B

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Sample Date/Time	5/17/00	15:35	System ID	AE04629	Sample ID	LAB000718
SHOOT THE STATE OF					Page:	5
Proj./Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-11-11 PROJECT 6064			Date Received: Sample Status:	5/19/00 REPORT QUEUE		
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000				Sample Type: Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
Naphthalene Naphthalene	1148 F 5 F 5	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene (:: : ≤100 · : <u>.</u> .	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene		μg/Kg 💥 🔭	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100/	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	///	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100 ·	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000718

A



0

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



GRAB

Sample Date/Time 5/17/00 15:50 System ID AE04630 Sample ID LAB000719 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE TP-11-21 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type:

Sample Point Code: Sample Matrix: SOIL IMS File/Invoice #: 3030.000 Collected By: DL Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter Result Units MRL Method **METALS** ARSENIC 2.00 mg/Kg 0.025 **EPA 6020** BARIUM -100 mg/Kg 1.0 EPA 6010 22 ---CADMIUM 0.083 mg/Kg 0.025 **EPA 6020** CHROMIUM 21 mg/Kg 1.0 EPA 6010 LEAD 11 mg/Kg 3.0 **EPA 6010** MERCURY 0.0087 0.003mg/Kg ERA 7471 SELENIUM < 0.25 0.25 mg/Kg **EPA 6020** SILVER <0.3 0.3 EPA 6010 SEMI-VOLATILE ORGANICS 1,2,4-Trichlorobenzene <3.30 mg/Kg 3.30 **EPA 8270B** 1,2-Dichlorobenzene <10.0 10.0 :ma/Ka EPA 8270B 1,3-Dichlorobenzene <10.0 mg/Kg 10.0 **EPA 8270B** 1,4-Dichlorobenzene <10.0 mg/Kg 10.0 EPA 8270B 2,4,5-Trichlorophenol <3.30 mg/Kg 3.30 EPA 8270B 2,4,6-Trichlorophenol <3.30 mg/Kg 3.30 EPA 8270B 2,4-Dichlorophenol <3.30 3.30 mg/Kg **EPA 8270B** 2,4-Dimethylphenol <10.0 10.0 mg/Kg EPA 8270B 2,4-Dinitrophenol <20.0 mg/Kg 20.0 **EPA 8270B** 2,4-Dinitrotoluene <5.00 mg/Kg 5.00 EPA 8270B 2,6-Dinitrotoluene <5.00 mg/Kg 5.00 **EPA 8270B** 2-Chloronaphthalene <3.30 3.30 mg/Kg EPA 8270B 2-Chlorophenol <3.30 mg/Kg 3.30 **EPA 8270B** 2-Methylnaphthalene <3.30 ma/Ka 3.30 EPA 8270B 2-Methylphenol <3.30 mg/Kg 3.30 **EPA 8270B** 2-Nitroaniline <3.30 mg/Kg 3.30 EPA 8270B 2-Nitrophenol <3.30 mg/Kg 3.30 **EPA 8270B** 3,3'-Dichlorobenzidine <10.0 mg/Kg 10.0

<10.0

<10.0

<3.30

mg/Kg

mg/Kg

mg/Kg

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3-Nitroaniline

4.6-Dinitro-2-methylphenol

4-Bromophenylphenyl ether

Report Date: 6/12/00

EPA 8270B

EPA 8270B

EPA 8270B

EPA 8270B

10.0

10.0

3.30





2

Sample Date/Time 5/17/00 15:50 System ID AE04630 Sample ID LAB000719

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-11-21 PROJECT 6064

Proj Subcategory: Sample Point Code:

IMS File/Invoice #: 3030.000

SPECIAL WASTE

Sample Type: Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB SOIL

DL

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK: ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<3.30	mg/Kg	3:30	# EPA 8270B
4-Chloroaniline	<20.0	mg/Kg	20.0	EPA 8270B
4-Chlorophenylphenyl ether	<3.30	mg/Kg	3.30	EPA 8270B
4-Methylphenol	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitroaniline	<3.30	mg/Kg	3.30	EPA 8270B
4-Nitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
- Acenaphthene	<3.30	mg/Kg	3.30	EPA 8270B
Acenaphthylene	<3.30	mg/Kg	3.30	EPA 8270B
Anthracene	₹3.30	mg/Kg	3,30	EPA 8270B
Benzo(a)anthracene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(a)pyrene	···. <3.30	mg/Kg	3.30	EPA 8270B
Benzo(b)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzo(g,h,i)perylene	≤3.30	mg/Kg	3.30	EPA 8270B
Benzo(k)fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Benzoic acid	<10.0	mg/Kg	10.0	EPA 8270B
Benzyl alcohol	<3.30	mg/Kg	3.30	EPA 8270B
Benzyl butyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethoxy) methane	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroethyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-chloroisopropyl) ether	<3.30	mg/Kg	3.30	EPA 8270B
Bis(2-ethylhexyl) phthalate	<20.0	mg/Kg	20,0	EPA 8270B
Chrysene	<3.30	mg/Kg	3.30	EPA 8270B
Di-n-butyl phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Di-n-octyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Dibenzo(a,h)anthracene	≤3.30	mg/Kg	3.30	EPA 8270B
Dibenzofuran	<3.30	mg/Kg	3.30	EPA 8270B
Diethyl phthalate	≤3.30	mg/Kg	3.30	EPA 8270B
Dimethyl phthalate	<3.30	mg/Kg	3.30	EPA 8270B
Fluoranthene	<3.30	mg/Kg	3.30	EPA 8270B
Fluorene	<3.30	mg/Kg	3.30	EPA 8270B
Hexachlorobenzene	<3 .30	mg/Kg	3:30	EPA 8270B
Hexachlorobutadiene	<10.0	mg/Kg	10.0	EPA 8270B

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656





5/19/00

REPORT QUEUE

Sample Date/Time 5/17/00 15:50 System ID AE04630 Sample ID LAB000719

Page:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-11-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000 Sample Type:

Date Received:

Sample Status:

GRAB Sample Matrix: SOIL Collected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10.0	mg/Kg	10.0	EPA 8270B
Hexachloroethane	<10.0	mg/Kg	10.0	EPA 8270B
Indeno(1,2,3-cd)pyrene	<3.30	mg/Kg	3:30	EPA 8270B
Isophorone	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodi-n-propylamine	<3.30	mg/Kg	3.30	EPA 8270B
N-Nitrosodiphenylamine	<3.30	mg/Kg	3.30	EPA 8270B
Naphthalene Park Control	<3.30	mg/Kg	3.30	EPA 8270B
Nitrobenzene	<3.30	mg/Kg	3.30	EPA 8270B
Pentachlorophenol	<10,0	mg/Kg	10.0	EPA 8270B
Phenanthrene	<3.30	mg/Kg	3.30	EPA 8270B
Phenol	<3.30	mg/Kg	3.30	EPA 8270B
Pyrene	<3.30	mg/Kg	3.30	EPA 8270B
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	Management of Approximation and all the Company of Section 19	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachlöroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane		μg/Kg	100.	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	µg/Кg	100	EPA 8260B
1,2,3-Trichloropropane	<100	µg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	µg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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5/19/00

REPORT QUEUE

Sample Date/Time 5/17/00 15:50 System ID AE04630 Sample ID LAB000719

Page:

Date Received:

Sample Status:

Proj./Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-11-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.000

CIAL WASTE Sample Type:

Sample Matrix: 000 Collected By:

ample Type: GRAB
ample Matrix: SOIL
ollected By: DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS

ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1180	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100 👉 🕒	r "· μg/Kg ·	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B;
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100 ·	µg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	µg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	· ·≺100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	ug/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	ug/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

Report Date: 6/12/00

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Sample Date/Time	5/17/00 15:50 System ID AE04630	Sample ID	LAB000719
		Page:	5
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP 10505 N NORTH PORTLAND RD TP-11-21 PROJECT 6064	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000	Sample Type: _ Sample Matrix: Collected By:	GRAB SOIL DL

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION. THIS SAMPLE WAS ANALYZED FOR VOLATILE ORGANIC COMPOUNDS ONE DAY PAST THE 14-DAY HOLDING TIME.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	′ - F	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene.	-:ii.: ≤100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1;3-Dichloropropene	<100	μg/Kg	100	'EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	µg/Kg	100	EPA-8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000719

rt Date: 6

6-539	5-01	10505 N. Parola	nd Rd.	NO.	TYPE		/	100	3	RECEIMING LAB: City of Partland
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DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	TAINERS	TAINERS	1/	3/2	3/	13	7////
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	0825	TP-12-21				X	X)	4	LAB 000732
	0900	TP-13-5'								
	0910	TP-13-16'				1.0		U		
- 1 1 T	0915	TP-13-17'				X	X	A	X	LAB 000733
	0920	T1-13-21'				X	人	WO	X	LAB 000734
	0945	TP-14-5'								L .L .1 1 1 1
	0950	TP-14-12'				X	X		X	LAB 000735
	1000	TP-14-20'				X	X		Z	LAB 000736
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	1110	TP-15-12'				X	X	ĺ		
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Relinquished by:			ceived by: (Signatur		ure)					KLEINFELDER 15050 S.W. KOLL PARKWAY SUITE L BEAVERTON, OR 97006 (503) 644-9447
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Nº 0831





Sample Date/Time 5/18/00 Sample ID 8:11 System ID AE04669 LAB000731

Page:

1

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-12-5 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #:

3030.007

Sample Type: Sample Matrix:

Collected By:

Date Received:

Sample Status:

GRAB

5/19/00

SOIL KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.40	mg/Kg	0:025	EPA 6020
BARIUM	140	mg/Kg	1.0	EPA 6010
CADMIUM	0.070	mg/Kg	0.025	EPA 6020
CHROMIUM	35	mg/Kg	1.0	EPA 6010
LEADIZET	8.4	mg/Kg	3:0	E EPA 6010
MERCURY	0.036	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	× 0.25 # #	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
::::::::::::::::::::::::::::::::::::::	± 4.65	mg/Kg	1.65	EPA 8270B
1,2-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
- 13-Dichlorobenzene	ii	mg/Kg:	5.00	EPA 8270B
1,4-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
2;4,5-Trichlorophenol	≤1.65	mg/Kg	1.65	EPA 8270B
2,4,6-Trichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4-Dichlorophenol	<1.65	ing/Kg	1.65	EPA 8270B
2,4-Dimethylphenol	<5.00	mg/Kg	5.00	EPA 8270B
2,4-Dinitrophenol	<10.0	:: mg/Kg !:	10.0	EPA 8270B
2,4-Dinitrotoluene	<2.50	mg/Kg	2.50	EPA 8270B
2,6-Dinitrotoluene	₹2.50	-: mg/Kg	2.50	EPA 8270B
2-Chloronaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Chlorophenol	<1.65 < 1.65 · · · · · · · · · · · · · · · · · · ·	∰ mg/Kg	1.65	EPA 8270B
2-Methylnaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Methylphenol	±1.65 ± 1.65	mg/Kg	1.65	EPA 8270B
2-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
2-Nitrophenol #	Fi=1 <1.65 · · · · ·	mg/Kg	1:65	EPA 8270B
3,3'-Dichlorobenzidine	<5.00	mg/Kg	5.00	EPA 8270B
3-Nitroaniline	<5.00	mg/Kg-	5.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<5.00	mg/Kg	5.00	EPA 8270B
4-Bromophenylphenyl ether	<1.65	mg/Kg	1.65	EPA 8270B

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Sample Date/Time 5/18/00 8:11 System ID AE04669 Sample ID LAB000731

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-12-5 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.007 Date Received:

Sample Status:

5/19/00

2

REPORT QUEUE

Sample Type: **GRAB**

Sample Matrix: SOIL Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
4-Chloroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4-Chlorophenylphenyl ether	<1.65	mg/Kg	1.65	EPA 8270B
4-Methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
4-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
4-Nitrophenol	<5.00	mg/Kg	5.00	EPA 8270B
Acenaphthene	<1.65	mg/Kg	1.65	EPA 8270B
Acenaphthylene	<1.65	mg/Kg	1.65	EPA 8270B
Anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(a)anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(a)pyrene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(b)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(g,h,i)perylene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(k)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzoic acid	<5.00	mg/Kg	5.00	EPA 8270B
Benzyl alcohol	<1.65	mg/Kg	1.65	EPA 8270B
Benzyl butyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethoxy) methane	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroisopropyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-ethylhexyl) phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Chrysene	<1.65	mg/Kg	1.65	EPA 8270B
Di-n-butyl phthalate	<5.00	mg/Kg	5.00	EPA 8270B
Di-n-octyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzo(a,h)anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzofuran	<1.65	mg/Kg	1.65	EPA 8270B
Diethyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dimethyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Fluorene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobenzene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobutadiene	<5.00	mg/Kg	5.00	EPA 8270B

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3

5/19/00

Sample Date/Time 5/18/00 8:11 Sample ID LAB000731 System ID AE04669

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-12-5 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #: 3030.007 Sample Type:

GRAB Sample Matrix:

Collected By:

SOIL KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method	
Hexachlorocyclopentadiene	<5.00	mg/Kg	5.00	EPA 8270B	
Hexachloroethane	<5.00	mg/Kg	5.00	EPA 8270B	
Indeno(1,2,3-cd)pyrene	<1.65	mg/Kg	1.65	EPA 8270B	
Isophorone	<1.65	mg/Kg	1.65	EPA 8270B	
N-Nitrosodi-n-propylamine	<1.65	mg/Kg	1.65	EPA 8270B	
N-Nitrosodiphenylamine	<1.65	mg/Kg	1.65	EPA 8270B	
Naphthalene	<1.65	mg/Kg	1.65	EPA 8270B	
Nitrobenzene	<1.65	mg/Kg	1.65	EPA 8270B	
Pentachlorophenol	<5.00	mg/Kg	5.00	EPA 8270B	
Phenanthrene	<1.65	mg/Kg	1.65	EPA 8270B	
Phenol	<1.65	mg/Kg	1.65	EPA 8270B	
Pyrene	<1.65	mg/Kg	1.65	EPA 8270B	
VOLATILE ORGANIC COMPOUNDS	3				
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B	
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B	
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B	
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B	
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B	
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B	
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B	
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B	
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B	
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B	
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B	
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B	
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B	
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B	
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B	
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B	

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Water Pollution Control Laboratory Laboratory Analysis Report



System ID AE04669 Sample ID LAB000731 Sample Date/Time 5/18/00 8:11 Page: 5/19/00 Date Received: Proj./Company Name: LARSON PROPERTY REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD Sample Status: TP-12-5 PROJECT 6064 **GRAB** Proj Subcategory: SPECIAL WASTE Sample Type: Sample Matrix: SOIL Sample Point Code: 0 Collected By: KLEINFELDER IMS File/Invoice #: 3030.007

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1580	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	µg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	µg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	µg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	µg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	µg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656

A



Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00 8:11 System ID AE04669 Sample ID LAB000731

Page:

age.

Date Received:

5/19/00

Sample Status:

REPORT QUEUE

Proj Subcategory:

Address/Location:

SPECIAL WASTE

TP-12-5 PROJECT 6064

10505 N NORTH PORTLAND RD

Sample Type:

GRAB

Sample Point Code: IMS File/Invoice #:

0 3030.007

Proj./Company Name: LARSON PROPERTY

Sample Matrix: Collected By:

100

SOIL KLEINFELDER

EPA 8260B

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	µg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
		A STATE OF THE PARTY OF THE PAR		ACT TO A STATE OF THE ACT OF THE

µg/Kg

<100

End of Report for Sample ID: LAB000731

Vinyl chloride

Sp





Sample Date/Time 5/18/00 8:25 Sample ID LAB000732 System ID AE04670

Page:

5/19/00

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-12-21 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.007

SPECIAL WASTE

0

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB

Collected By:

SOIL KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	7.62	mg/Kg	0.025	EPA 6020
BARIUM	180	mg/Kg	1.0	EPA 6010
CADMIUM	0.11	mg/Kg	0.025	EPA 6020
CHROMIUM	25	mg/Kg	1.0	EPA 6010
LEAD	15	mg/Kg	3.0	EPA 6010
MERCURY	0.024	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS			0.0	LI A 0010
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

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Sample Date/Time 5/18/00 System ID AE04670 8:25 Sample ID LAB000732

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-12-21 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.007

Date Received: 5/19/00

Sample Status:

REPORT QUEUE

GRAB Sample Type:

Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method	
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270E	
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270E	
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270E	
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270E	
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270E	
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270E	
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270E	
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270E	
Anthracene	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270E	
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270E	
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270E	
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270E	
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270E	
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270E	
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270E	
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270E	
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270E	
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270E	
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270E	
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B	
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270E	
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270E	
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270E	
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270E	
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B	
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B	

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Sample Date/Time 5/18/00 Sample ID LAB000732 8:25 System ID AE04670

Page:

Date Received:

3

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-12-21 PROJECT 6064

Sample Status:

5/19/00 REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

0

Sample Type: Sample Matrix: **GRAB** SOIL

Sample Point Code: IMS File/Invoice #:

3030.007

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/18/00 8:25 Sample ID LAB000732 System ID AE04670

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-12-21 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type:

Sample Matrix:

GRAB SOIL

5/19/00

Collected By:

Date Received:

Sample Status:

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1390	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	1000	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	
Acetone	<1000	μg/Kg	1000	EPA 8260B EPA 8260B
Benzene	<100	μg/Kg	100	
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	Name of the Part of the Part of the Owner, Street Street, Stre	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	100	EPA 8260B
Isopropylbenzene	<100	μg/Kg	200	EPA 8260B
m,p-Xylene	<200	The state of the s	100	EPA 8260B
Methylene chloride	<500	μg/Kg	200	EPA 8260B
n-Butylbenzene	<100	μg/Kg	500	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B
	~100	μg/Kg	100	EPA 8260B

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5/19/00

REPORT QUEUE

Sample Date/Time 5/18/00 8:25 System ID AE04670 Sample ID LAB000732

> Page: 5

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-12-21 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type: GRAB Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260E
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	µg/Kg	100	EPA 8260B
Trichloroethene	<100	µg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	µg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000732





5/19/00

GRAB

SOIL

REPORT QUEUE

KLEINFELDER

Sample Date/Time 5/18/00 Sample ID LAB000733 9:15 System ID AE04671

> Page: Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-13-19 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type: Sample Matrix: Collected By:

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	3.33	mg/Kg	0.025	EPA 6020
BARIUM	140	mg/Kg	1.0	EPA 6010
CADMIUM	0.15	mg/Kg	0.025	EPA 6020
CHROMIUM	22	mg/Kg	1.0	EPA 6010
LEAD	4.8	mg/Kg	3.0	EPA 6010
MERCURY	0.021	mg/Kg	0.003	EPA 7471
SELENIUM	0.27	mg/Kg	0.25	EPA 6020
SILVER	< 0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS		47.07		
1,2,4-Trichlorobenzene	<1.65	mg/Kg	1.65	EPA 8270B
1,2-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
1,3-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
1,4-Dichlorobenzene	<5.00	mg/Kg	5.00	EPA 8270B
2,4,5-Trichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4,6-Trichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4-Dichlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2,4-Dimethylphenol	<5.00	mg/Kg	5.00	EPA 8270B
2,4-Dinitrophenol	<10.0	mg/Kg	10.0	EPA 8270B
2,4-Dinitrotoluene	<2.50	mg/Kg	2.50	EPA 8270B
2,6-Dinitrotoluene	<2.50	mg/Kg	2.50	EPA 8270B
2-Chloronaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Chlorophenol	<1.65	mg/Kg	1.65	EPA 8270B
2-Methylnaphthalene	<1.65	mg/Kg	1.65	EPA 8270B
2-Methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
2-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
2-Nitrophenol	<1.65	mg/Kg	1.65	EPA 8270B
3,3'-Dichlorobenzidine	<5.00	mg/Kg	5.00	EPA 8270B
3-Nitroaniline	<5.00	mg/Kg	5.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<5.00	mg/Kg	5.00	EPA 8270B
4-Bromophenylphenyl ether	<1.65	mg/Kg	1.65	EPA 8270B

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Sample Date/Time 5/18/00 9:15 System ID AE04671 Sample ID LAB000733

Page: 2

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-13-19 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

30.007

Sample Type: Sample Matrix:

Date Received:

Sample Status:

Collected By: KL

GRAB SOIL

REPORT QUEUE

KLEINFELDER

5/19/00

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
4-Chloroaniline	<10.0	mg/Kg	10.0	EPA 8270B
4-Chlorophenylphenyl ether	<1.65	mg/Kg	1.65	EPA 8270B
4-Methylphenol	<1.65	mg/Kg	1.65	EPA 8270B
4-Nitroaniline	<1.65	mg/Kg	1.65	EPA 8270B
4-Nitrophenol	<5.00	mg/Kg	5.00	EPA 8270B
Acenaphthene	<1.65	mg/Kg	1.65	EPA 8270B
Acenaphthylene	<1.65	mg/Kg	1.65	EPA 8270B
Anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(a)anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(a)pyrene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(b)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(g,h,i)perylene	<1.65	mg/Kg	1.65	EPA 8270B
Benzo(k)fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Benzoic acid	<5.00	mg/Kg	5.00	EPA 8270B
Benzyl alcohol	<1.65	mg/Kg	1.65	EPA 8270B
Benzyl butyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethoxy) methane	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroethyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-chloroisopropyl) ether	<1.65	mg/Kg	1.65	EPA 8270B
Bis(2-ethylhexyl) phthalate	<10.0	mg/Kg	10.0	EPA 8270B
Chrysene	<1.65	mg/Kg	1.65	EPA 8270B
Di-n-butyl phthalate	<5.00	mg/Kg	5.00	EPA 8270B
Di-n-octyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzo(a,h)anthracene	<1.65	mg/Kg	1.65	EPA 8270B
Dibenzofuran	<1.65	mg/Kg	1.65	EPA 8270B
Diethyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Dimethyl phthalate	<1.65	mg/Kg	1.65	EPA 8270B
Fluoranthene	<1.65	mg/Kg	1.65	EPA 8270B
Fluorene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobenzene	<1.65	mg/Kg	1.65	EPA 8270B
Hexachlorobutadiene	<5.00	mg/Kg	5.00	EPA 8270B

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656

Report Date: 6/12/00

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GILY OF FORGING Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00 9:15 System ID AE04671 Sample ID LAB000733

> Page: 3

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-13-19 PROJECT 6064

Sample Point Code: 0

Proj Subcategory:

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type:

Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB SOIL

5/19/00

REPORT QUEUE

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<5.00	mg/Kg	5.00	EPA 8270B
Hexachloroethane	<5.00	mg/Kg	5.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<1.65	mg/Kg	1.65	EPA 8270B
Isophorone	<1.65	mg/Kg	1.65	EPA 8270B
N-Nitrosodi-n-propylamine	<1.65	mg/Kg	1.65	EPA 8270B
N-Nitrosodiphenylamine	<1.65	mg/Kg	1.65	EPA 8270B
Naphthalene	<1.65	mg/Kg	1.65	EPA 8270B
Nitrobenzene	<1.65	mg/Kg	1.65	EPA 8270B
Pentachlorophenol	<5.00	mg/Kg	5.00	EPA 8270B
Phenanthrene	<1.65	mg/Kg	1.65	EPA 8270B
Phenol	<1.65	mg/Kg	1.65	EPA 8270B
Pyrene #	<1.65	mg/Kg	1.65	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/18/00 9:15 System ID AE04671 Sample ID LAB000733

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-13-19 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type:

Date Received:

Sample Status:

Sample Matrix: SOIL Collected By:

KLEINFELDER

REPORT QUEUE

5/19/00

GRAB

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1190	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	µg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	µg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	µg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time	5/18/00	9:15	System ID	AE04671	Sample ID	LAB000733	

Page:

5

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-13-19 PROJECT 6064

Date Received: Sample Status:

5/19/00 REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code:

Sample Matrix:

SOIL

IMS File/Invoice #:

3030.007

Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	µg/Кg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000733





Sample ID LAB000734 Sample Date/Time 5/18/00 9:20 System ID AE04672

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-13-21 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #:

SPECIAL WASTE

3030.007

Sample Type:

Date Received:

Sample Status:

Sample Matrix:

Collected By:

GRAB

5/19/00

SOIL

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.97	mg/Kg	0.025	EPA 6020
BARIUM	140	mg/Kg	1.0	EPA 6010
CADMIUM	0.10	mg/Kg	0.025	EPA 6020
CHROMIUM	25	mg/Kg	1.0	EPA 6010
LEAD	4.7	mg/Kg	3.0	EPA 6010
MERCURY	0.020	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	<0.330	mg/Kg	0.330	EPA 8270B

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Sample ID LAB000734 Sample Date/Time 5/18/00 9:20 System ID AE04672

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-13-21 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #: 3030.007 Date Received:

5/19/00

2

Sample Status:

REPORT QUEUE

Sample Type: GRAB Sample Matrix:

SOIL

Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	<0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

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Sample Date/Time 5/18/00 Sample ID LAB000734 9:20 System ID AE04672

Page:

3

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-13-21 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #:

3030.007

Date Received:

Sample Status:

5/19/00 REPORT QUEUE

GRAB

Sample Type: Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	<0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUND	S	0.4		
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	µg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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OILY OF I OF HATTA Water Pollution Control Laboratory Laboratory Analysis Report



Sample ID LAB000734 Sample Date/Time 5/18/00 9:20 System ID AE04672

Page:

Date Received:

5/19/00

Sample Status:

REPORT QUEUE

Proj Subcategory:

Address/Location:

SPECIAL WASTE

Proj./Company Name: LARSON PROPERTY

TP-13-21 PROJECT 6064

10505 N NORTH PORTLAND RD

Sample Type: Sample Matrix: **GRAB**

Sample Point Code: IMS File/Invoice #:

3030.007

Collected By:

SOIL KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1250	μg/Kg	1000	EPA 8260E
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260E
2-Hexanone	<1000	μg/Kg	1000	EPA 8260E
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260E
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260E
Acetone	<1000	μg/Kg	1000	EPA 8260E
Benzene	<100	μg/Kg	100	EPA 8260E
Bromobenzene	<100	μg/Kg	100	EPA 8260E
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	µg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/18/00 9:20 System ID AE04672 Sample ID LAB000734

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-13-21 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #: 3030.007

SPECIAL WASTE

0

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB SOIL

5/19/00

Collected By:

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260E
o-Xylene	<100	µg/Kg	100	EPA 8260E
p-Isopropyltoluene	<100	µg/Kg	100	EPA 8260E
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260E
Styrene	<100	μg/Kg	100	EPA 8260E
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000734

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656



UILY OF FUTURITU Water Pollution Control Laboratory Laboratory Analysis Report



REPORT QUEUE

Sample Date/Time 5/18/00 9:50 System ID AE04673 Sample ID LAB000735 Page: Proj./Company Name: LARSON PROPERTY Date Received: 5/19/00 Address/Location: 10505 N NORTH PORTLAND RD Sample Status:

TP-14-12 PROJECT 6064

Proj Subcategory: SPECIAL WASTE Sample Point Code:

IMS File/Invoice #:

3030.007

Sample Type: **GRAB** Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	0.22	"T. A.S. () 4 年 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	S 4	
BARIUM	9.11 180	mg/Kg	0.025	EPA 6020
CADMIUM		mg/Kg	1.0	EPA 6010
CHROMIUM	0.19	mg/Kg	0.025	EPA 6020
LEAD	26	mg/Kg	1.0	EPA 6010
MERCURY	19	mg/Kg	3.0	EPA 6010
SELENIUM	0.042	mg/Kg	0.003	EPA 7471
SILVER	<0.25	mg/Kg	0.25	EPA 6020
SEMI-VOLATILE ORGANICS	<0.3	mg/Kg	0.3	EPA 6010
1,2,4-Trichlorobenzene	10.000	Are Lee	1.30	
1,2-Dichlorobenzene	<0.330	mg/Kg	0.330	EPA 8270E
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270E
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4,6-Trichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<0.330	mg/Kg	0.330	EPA 8270B
2,4-Dinitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrotoluene	<2.00	mg/Kg	2.00	EPA 8270B
2,6-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	<0.500	mg/Kg	0.500	EPA 8270B
2-Chlorophenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	<0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<0.330	mg/Kg	0.330	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	<1.00	mg/Kg	1.00	EPA 8270B
- Strophonyiphenyi ether	<0.330	mg/Kg	0.330	EPA 8270B

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Sample ID LAB000735 Sample Date/Time 5/18/00 9:50 System ID AE04673

Page:

2

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-14-12 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #:

SPECIAL WASTE

3030.007

Date Received:

Sample Status:

5/19/00

REPORT QUEUE

Sample Type:

GRAB

Sample Matrix: Collected By:

SOIL KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270E
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270E
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270E
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270E
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270E
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270E
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270E
Anthracene	< 0.330	mg/Kg	0.330	EPA 8270E
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270E
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270E
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270E
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270E
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270E
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270E
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270E
Benzyl butyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270E
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270E
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	<0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Fluorene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

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Sample Date/Time 5/18/00 Sample ID LAB000735 9:50 System ID AE04673

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Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-14-12 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #:

3030.007

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB SOIL

5/19/00

REPORT QUEUE

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270E
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270E
Isophorone	<0.330	mg/Kg	0.330	EPA 8270E
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270E
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUND	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/18/00 9:50 System ID AE04673 Sample ID LAB000735

Page:

Date Received:

Sample Status:

5/19/00

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-14-12 PROJECT 6064

Proj Subcategory: Sample Point Code:

IMS File/Invoice #:

3030.007

SPECIAL WASTE Sample Type:

Sample Matrix:

Collected By:

GRAB SOIL

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	, in		
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260E
2-Butanone	1080	μg/Kg	100	EPA 8260E
2-Chlorotoluene	<100	μg/Kg	1000	EPA 8260E
2-Hexanone	<1000	μg/Kg	100	EPA 8260E
4-Chlorotoluene	<100	μg/Kg	1000	EPA 8260E
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	100	EPA 8260E
Acetone	<1000	μg/Kg	500	EPA 8260B
Benzene		μg/Kg	1000	EPA 8260B
Bromobenzene	<100 <100	μg/Kg	100	EPA 8260B
Bromochloromethane	A CONTRACTOR OF THE PARTY OF TH	µg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	µg/Кg	100	EPA 8260B
Bromomethane	<100	μg/Kg	100	EPA 8260B
Carbon disulfide	<500	µg/Кg	500	EPA 8260B
Carbon tetrachloride	<1000	μg/Kg	1000	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	µg/Kg	100	EPA 8260B
Chloromethane	<100	μg/Kg	100	EPA 8260B
cis-1,2-Dichloroethene	<500	µg/Kg	500	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	µg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<100	μg/Kg	100	EPA 8260B
Ethylbenzene	<500	μg/Kg	500	EPA 8260B
Hexachlorobutadiene	<100	μg/Kg	100	EPA 8260B
Isopropylbenzene	<200	μg/Kg	200	EPA 8260B
m,p-Xylene	<100	µg/Kg	100	EPA 8260B
Methylene chloride	<200	µg/Kg	200	EPA 8260B
n-Butylbenzene	<500	µg/Kg	500	EPA 8260B
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B
ii i Topyiberizerie	<100	µg/Kg	100	EPA 8260B

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5/19/00

REPORT QUEUE

Sample Date/Time 5/18/00 Sample ID LAB000735 9:50 System ID AE04673

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-14-12 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type: **GRAB** Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	µg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000735





Sample ID LAB000736 Sample Date/Time 5/18/00 10:00 System ID AE04674

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-14-20 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #:

3030.007

Sample Type:

GRAB Sample Matrix: SOIL

Collected By:

KLEINFELDER

5/19/00

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	3.60	mg/Kg	0.025	EPA 6020
BARIUM	160	mg/Kg	1.0	EPA 6010
CADMIUM	0.14	mg/Kg	0.025	EPA 6020
CHROMIUM	19	mg/Kg	1.0	EPA 6010
LEAD	6.7	mg/Kg	3.0	EPA 6010
MERCURY	0.024	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	<0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

Report Date: 6/12/00

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VILY OF FUITIBILI Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00

10:00 System ID AE04674

Sample ID LAB000736

Page:

2

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-14-20 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #:

3030.007

SPECIAL WASTE

Sample Type:

GRAB

Sample Matrix:

Date Received:

Sample Status:

SOIL

5/19/00

Collected By:

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	ED MOOTOS
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	<0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	<0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	<0.330	mg/Kg	0.330	EPA 8270B
Anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	<0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	<0.330	mg/Kg		EPA 8270B
Benzoic acid	<1.00	mg/Kg	0.330 1.00	EPA 8270B
Benzyl alcohol	<0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	<0.330	mg/Kg		EPA 8270B
Bis(2-chloroethyl) ether	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	<0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	0.330	EPA 8270B
Chrysene	<0.330	The second secon	2.00	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	0.330	EPA 8270B
Di-n-octyl phthalate	<0.330	mg/Kg	1.00	EPA 8270B
Dibenzo(a,h)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	<0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	<0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<0.330 <1.00	mg/Kg	0.330	EPA 8270B
	<1.00	mg/Kg	1.00	EPA 8270B

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10:00 System ID AE04674 Sample ID LAB000736 Sample Date/Time 5/18/00

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-14-20 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #:

3030.007

Sample Type:

Sample Matrix:

Collected By:

GRAB

5/19/00

SOIL KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1:00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270B
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270B
Phenol	< 0.330	mg/Kg	0.330	EPA 8270B
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUND	S			
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	µg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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5/19/00

REPORT QUEUE

Sample ID LAB000736 System ID AE04674 Sample Date/Time 5/18/00 10:00

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-14-20 PROJECT 6064

Sample Point Code: 0

Proj Subcategory:

IMS File/Invoice #:

3030.007

SPECIAL WASTE

Sample Type: **GRAB** Sample Matrix: SOIL

Collected By: **KLEINFELDER**

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

est Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1360	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	µg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	µg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Water Pollution Control Laboratory Laboratory Analysis Report



Page: 5	
Post Occurred Name LARGON DRODERTY	
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD TP-14-20 PROJECT 6064 Date Received: 5/19/0 Sample Status: REPO	ORT QUEUE

Proj Subcategory: SPECIAL WASTE Sample Type: GRAB
Sample Point Code: 0 Sample Matrix: SOIL
IMS File/Invoice #: 3030.007 Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000736

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5/19/00

REPORT QUEUE

Sample Date/Time 5/18/00 11:10 System ID AE04675 Sample ID LAB000737

> Page: Date Received:

> Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-15-12 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type: **GRAB** Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	4.78	mg/Kg	0.025	EPA 6020
BARIUM	200	mg/Kg	1.0	EPA 6010
CADMIUM	0.21	mg/Kg	0.025	EPA 6020
CHROMIUM	22	mg/Kg	1.0	EPA 6010
LEAD	22	mg/Kg	3.0	EPA 6010
MERCURY	0.031	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS			3/2	2.7.00.0
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4,6-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270B
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270B
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270B
2-Chloronaphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
2-Chlorophenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Methylnaphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
2-Methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
2-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
2-Nitrophenol	<0.660	mg/Kg	0.660	EPA 8270B
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270B
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	<0.660	mg/Kg	0.660	EPA 8270B

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5/19/00

GRAB

REPORT QUEUE

Sample ID LAB000737 System ID AE04675 Sample Date/Time 5/18/00 11:10

> Page: 2

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

10505 N NORTH PORTLAND RD Address/Location:

TP-15-12 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code:

IMS File/Invoice #:

3030.007

Sample Type:

Sample Matrix:

SOIL Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	< 0.660	mg/Kg	0.660	EPA 8270B
Anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	<0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	< 0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.660	mg/Kg	0.660	EPA 8270E
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	< 0.660	mg/Kg	0,660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270E
Di-n-octyl phthalate	<0.660	mg/Kg	0.660	EPA 8270E
Dibenzo(a,h)anthracene	< 0.660	mg/Kg	0.660	EPA 8270E
Dibenzofuran	< 0.660	mg/Kg	0.660	EPA 8270E
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270E
Dimethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270E
Fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270E
Fluorene	<0.660	mg/Kg	0.660	EPA 8270E
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270E
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270E

Report Date: 6/12/00 6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656





Sample Date/Time 5/18/00 11:10 System ID AE04675 Sample ID LAB000737

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-15-12 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type:

GRAB

5/19/00

REPORT QUEUE

Sample Matrix:

Date Received:

Sample Status:

SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Isophorone	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	< 0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	< 0.660	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUND	S		0.000	LI A 0210D
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	µg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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GILY OF FUTURING Water Pollution Control Laboratory Laboratory Analysis Report



Sample ID LAB000737 Sample Date/Time 5/18/00 11:10 System ID AE04675

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-15-12 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

0

IMS File/Invoice #: 3030.007

Sample Type: **GRAB** Sample Matrix:

SOIL

REPORT QUEUE

5/19/00

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1290	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	µg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	µg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	µg/Kg	500	EPA 8260B
Acetone	<1000	µg/Kg	1000	EPA 8260B
Benzene	<100	µg/Kg	100	EPA 8260B
Bromobenzene	<100	µg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	µg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	µg/Kg	500	EPA 8260B
Carbon disulfide	<1000	µg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	µg/Kg	100	EPA 8260B
Chloroform	<100	µg/Kg	100	EPA 8260B
Chloromethane	<500	µg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	µg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	µg/Kg	200	EPA 8260B
Methylene chloride	<500	µg/Kg	500	EPA 8260B
n-Butylbenzene	<100	µg/Kg	100	EPA 8260B
n-Propylbenzene	<100	µg/Kg	100	EPA 8260B

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GILY OF FORHALIU Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00 Sample ID LAB000737 11:10 System ID AE04675

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-15-12 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.007

Date Received:

5/19/00

Sample Status:

REPORT QUEUE

Sample Type:

GRAB

Sample Matrix:

SOIL

Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B
Toluene	<100	μg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000737





Sample Date/Time 5/18/00 11:20 System ID AE04676 Sample ID LAB000738

Page:

Date Received:

Sample Status:

1

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-15-21 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.007 Sample Type:

GRAB

5/19/00

Sample Matrix: Collected By:

SOIL KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	16.3	mg/Kg	0.025	EPA 6020
BARIUM	140	mg/Kg	1.0	EPA 6010
CADMIUM	0.14	mg/Kg	0.025	EPA 6020
CHROMIUM	28	mg/Kg	1.0	EPA 6010
LEAD	8.9	mg/Kg	3.0	EPA 6010
MERCURY	0.018	mg/Kg	0.003	EPA 7471
SELENIUM	< 0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS		55	0.0	21710010
1,2,4-Trichlorobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
1,2-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,3-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
1,4-Dichlorobenzene	<1.00	mg/Kg	1.00	EPA 8270B
2,4,5-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4,6-Trichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dichlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2,4-Dimethylphenol	<1.00	mg/Kg	1.00	EPA 8270B
2,4-Dinitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
2,4-Dinitrotoluene	<0.500	mg/Kg	0.500	EPA 8270B
2,6-Dinitrotoluene	< 0.500	mg/Kg	0.500	EPA 8270B
2-Chloronaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Chlorophenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylnaphthalene	< 0.330	mg/Kg	0.330	EPA 8270B
2-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
2-Nitroaniline	<0.330	mg/Kg	0.330	EPA 8270B
2-Nitrophenol	< 0.330	mg/Kg	0.330	EPA 8270B
3,3'-Dichlorobenzidine	<1.00	mg/Kg	1.00	EPA 8270B
3-Nitroaniline	<1.00	mg/Kg	1.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<1.00	mg/Kg	1.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B

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GILY OF FORHAIIG Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00 11:20 System ID AE04676 Sample ID LAB000738

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-15-21 PROJECT 6064

SPECIAL WASTE

Sample Point Code:

Proj Subcategory:

0

IMS File/Invoice #: 3030.007 2

Date Received:

5/19/00

Sample Status:

REPORT QUEUE

Sample Type: **GRAB** Sample Matrix:

SOIL

Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.330	mg/Kg	0.330	EPA 8270B
4-Chloroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.330	mg/Kg	0.330	EPA 8270B
4-Methylphenol	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitroaniline	< 0.330	mg/Kg	0.330	EPA 8270B
4-Nitrophenol	<1.00	mg/Kg	1.00	EPA 8270B
Acenaphthene	< 0.330	mg/Kg	0.330	EPA 8270B
Acenaphthylene	< 0.330	mg/Kg	0.330	EPA 8270B
Anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)anthracene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(a)pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(b)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(g,h,i)perylene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzo(k)fluoranthene	< 0.330	mg/Kg	0.330	EPA 8270B
Benzoic acid	<1.00	mg/Kg	1.00	EPA 8270B
Benzyl alcohol	< 0.330	mg/Kg	0.330	EPA 8270B
Benzyl butyl phthalate	0.460	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroethyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.330	mg/Kg	0.330	EPA 8270B
Bis(2-ethylhexyl) phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Chrysene	< 0.330	mg/Kg	0.330	EPA 8270B
Di-n-butyl phthalate	<1.00	mg/Kg	1.00	EPA 8270B
Di-n-octyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dibenzo(a,h)anthracene	<0.330	mg/Kg	0.330	EPA 8270B
Dibenzofuran	< 0.330	mg/Kg	0.330	EPA 8270B
Diethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Dimethyl phthalate	< 0.330	mg/Kg	0.330	EPA 8270B
Fluoranthene	<0.330	mg/Kg	0.330	EPA 8270B
Fluorene	< 0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobenzene	<0.330	mg/Kg	0.330	EPA 8270B
Hexachlorobutadiene	<1.00	mg/Kg	1.00	EPA 8270B

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11:20 System ID AE04676 Sample ID LAB000738 Sample Date/Time 5/18/00

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-15-21 PROJECT 6064

SPECIAL WASTE Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #: 3030.007 Date Received: Sample Status: 5/19/00 REPORT QUEUE

Sample Type: GRAB Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<1.00	mg/Kg	1.00	EPA 8270B
Hexachloroethane	<1.00	mg/Kg	1.00	EPA 8270E
Indeno(1,2,3-cd)pyrene	< 0.330	mg/Kg	0.330	EPA 8270E
Isophorone	< 0.330	mg/Kg	0.330	EPA 8270E
N-Nitrosodi-n-propylamine	< 0.330	mg/Kg	0.330	EPA 8270E
N-Nitrosodiphenylamine	< 0.330	mg/Kg	0.330	EPA 8270B
Naphthalene	< 0.330	mg/Kg	0.330	EPA 8270E
Nitrobenzene	< 0.330	mg/Kg	0.330	EPA 8270B
Pentachlorophenol	<1.00	mg/Kg	1.00	EPA 8270B
Phenanthrene	< 0.330	mg/Kg	0.330	EPA 8270E
Phenol	<0.330	mg/Kg	0.330	EPA 8270E
Pyrene	< 0.330	mg/Kg	0.330	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S	TANK T		
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260E
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260E
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260E
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260E
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B





Sample Date/Time 5/18/00 11:20 System ID AE04676 Sample ID LAB000738

> Page: Date Received:

> Sample Status:

5/19/00

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-15-21 PROJECT 6064

Proj Subcategory:

Sample Point Code:

0

IMS File/Invoice #:

SPECIAL WASTE

3030.007

Sample Type:

Sample Matrix: Collected By:

GRAB SOIL

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	µg/Кg	100	EPA 8260B
2,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
2-Butanone	1200	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	µg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	μg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

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Sample Date/Time 5/18/00 11:20 System ID AE04676 Sample ID LAB000738

Page:

Date Received: Sample Status:

5/19/00 REPORT QUEUE

10505 N NORTH PORTLAND RD TP-15-21 PROJECT 6064

Proj Subcategory:

Address/Location:

SPECIAL WASTE

0

Proj./Company Name: LARSON PROPERTY

Sample Point Code:

IMS File/Invoice #: 3030.007 Sample Type:

GRAB

Sample Matrix: SOIL

Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	µg/Кg	100	EPA 8260B
o-Xylene	<100	µg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	µg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	µg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000738





Sample Date/Time 5/18/00 11:50 System ID AE04677 Sample ID LAB000739

Page:

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-16-5 PROJECT 6064

Proj Subcategory: Sample Point Code: SPECIAL WASTE

0

IMS File/Invoice #:

3030.007

Sample Type:

GRAB

5/19/00

Sample Matrix:

SOIL

Collected By:

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.98	mg/Kg	0.025	EPA 6020
BARIUM	150	mg/Kg	1.0	EPA 6010
CADMIUM	0.13	mg/Kg	0.025	EPA 6020
CHROMIUM	19	mg/Kg	1.0	EPA 6010
LEAD	11	mg/Kg	3.0	EPA 6010
MERCURY	0.014	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	< 0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270E
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270E
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270E
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270E
2,4,5-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2,4,6-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270E
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270E
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270E
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270E
2-Chloronaphthalene	< 0.660	mg/Kg	0.660	EPA 8270E
2-Chlorophenol	<0.660	mg/Kg	0.660	EPA 8270E
2-Methylnaphthalene	< 0.660	mg/Kg	0.660	EPA 8270E
2-Methylphenol	<0.660	mg/Kg	0.660	EPA 8270E
2-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270E
2-Nitrophenol	< 0.660	mg/Kg	0.660	EPA 8270E
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270E
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270B
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B

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Sample Date/Time 5/18/00 System ID AE04677 Sample ID LAB000739 11:50

Page:

5/19/00

2

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-16-5 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.007

Sample Type:

Date Received:

Sample Status:

Sample Matrix:

Collected By:

GRAB SOIL

KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	< 0.660	mg/Kg	0.660	EPA 8270E
Anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	< 0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	<0.660	mg/Kg	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	<0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Fluorene	<0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B

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Sample Date/Time 5/18/00 Sample ID LAB000739 11:50 System ID AE04677

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-16-5 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.007

Date Received:

5/19/00

REPORT QUEUE Sample Status:

Sample Type: GRAB Sample Matrix: SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270E
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270E
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270E
Isophorone	<0.660	mg/Kg	0.660	EPA 8270E
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270E
N-Nitrosodiphenylamine	< 0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	< 0.660	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S			
1,1,1,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	μg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	μg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample ID LAB000739 System ID AE04677 Sample Date/Time 5/18/00 11:50 Page: Date Received: 5/19/00 Proj./Company Name: LARSON PROPERTY REPORT QUEUE Address/Location: 10505 N NORTH PORTLAND RD Sample Status: TP-16-5 PROJECT 6064 Sample Type: GRAB Proj Subcategory: SPECIAL WASTE Sample Matrix: SOIL Sample Point Code: Collected By: KLEINFELDER IMS File/Invoice #: 3030.007

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1270	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
2-Hexanone	<1000	μg/Kg	1000	EPA 8260B
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260B
Benzene	<100	μg/Kg	100	EPA 8260B
Bromobenzene	<100	μg/Kg	100	EPA 8260B
Bromochloromethane	<100	μg/Kg	100	EPA 8260B
Bromodichloromethane	<100	μg/Kg	100	EPA 8260B
Bromoform	<100	μg/Kg	100	EPA 8260B
Bromomethane	<500	μg/Kg	500	EPA 8260B
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260B
Carbon tetrachloride	<100	μg/Kg	100	EPA 8260B
Chlorobenzene	<100	µg/Kg	100	EPA 8260B
Chloroethane	<100	μg/Kg	100	EPA 8260B
Chloroform	<100	μg/Kg	100	EPA 8260B
Chloromethane	<500	μg/Kg	500	EPA 8260B
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Dibromochloromethane	<100	μg/Kg	100	EPA 8260B
Dibromomethane	<100	μg/Kg	100	EPA 8260B
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260B
Ethylbenzene	<100	μg/Kg	100	EPA 8260B
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260B
Isopropylbenzene	<100	μg/Kg	100	EPA 8260B
m,p-Xylene	<200	μg/Kg	200	EPA 8260B
Methylene chloride	<500	μg/Kg	500	EPA 8260B
n-Butylbenzene	<100	μg/Kg	100	EPA 8260B
n-Propylbenzene	<100	μg/Kg	100	EPA 8260B

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656

Report Date: 6/12/00

X





Sample Date/Time	5/18/00	11:50	System ID	AE04677	Sample ID	LAB000739
					Page:	5
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD TP-16-5 PROJECT 6064				Date Received: Sample Status:	5/19/00 REPORT QUEUE	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIA 0 3030.00	L WASTE			Sample Type: Sample Matrix: Collected By:	GRAB SOIL KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Result Units		Method	
Naphthalene	<100	μg/Kg	100	EPA 8260B	
o-Xylene	<100	μg/Kg	100	EPA 8260B	
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B	
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B	
Styrene	<100	μg/Kg	100	EPA 8260B	
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B	
Tetrachloroethene	<100	μg/Kg	100	EPA 8260B	
Toluene	<100	μg/Kg	100	EPA 8260B	
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B	
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B	
Trichloroethene	<100	μg/Kg	100	EPA 8260B	
Trichlorofluoromethane	<100	μg/Kg	100	EPA 8260B	
Vinyl chloride	<100	μg/Kg	100	EPA 8260B	

End of Report for Sample ID: LAB000739

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Sample Date/Time 5/18/00 System ID AE04678 Sample ID LAB000740 12:00

Page:

Date Received:

Sample Status:

5/19/00

REPORT QUEUE

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

TP-16-9 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #: 3030.007

Sample Matrix:

Sample Type: GRAB SOIL

Collected By: KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	2.35	mg/Kg	0.025	EPA 6020
BARIUM	100	mg/Kg	1.0	EPA 6010
CADMIUM	0.11	mg/Kg	0.025	EPA 6020
CHROMIUM	17	mg/Kg	1.0	EPA 6010
LEAD	12	mg/Kg	3.0	EPA 6010
MERCURY	0.026	mg/Kg	0.003	EPA 7471
SELENIUM	<0.25	mg/Kg	0.25	EPA 6020
SILVER	<0.3	mg/Kg	0.3	EPA 6010
SEMI-VOLATILE ORGANICS				
1,2,4-Trichlorobenzene	< 0.660	mg/Kg	0.660	EPA 8270E
1,2-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,3-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270B
1,4-Dichlorobenzene	<2.00	mg/Kg	2.00	EPA 8270E
2,4,5-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2,4,6-Trichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2,4-Dichlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2,4-Dimethylphenol	<2.00	mg/Kg	2.00	EPA 8270E
2,4-Dinitrophenol	<4.00	mg/Kg	4.00	EPA 8270E
2,4-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270E
2,6-Dinitrotoluene	<1.00	mg/Kg	1.00	EPA 8270E
2-Chloronaphthalene	<0.660	mg/Kg	0.660	EPA 8270E
2-Chlorophenol	< 0.660	mg/Kg	0.660	EPA 8270E
2-Methylnaphthalene	<0.660	mg/Kg	0.660	EPA 8270E
2-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270E
2-Nitroaniline	<0.660	mg/Kg	0.660	EPA 8270E
2-Nitrophenol	< 0.660	mg/Kg	0.660	EPA 8270E
3,3'-Dichlorobenzidine	<2.00	mg/Kg	2.00	EPA 8270E
3-Nitroaniline	<2.00	mg/Kg	2.00	EPA 8270E
4,6-Dinitro-2-methylphenol	<2.00	mg/Kg	2.00	EPA 8270B
4-Bromophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B

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Sample Date/Time 5/18/00 12:00 System ID AE04678 Sample ID LAB000740

> Page: 2

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-16-9 PROJECT 6064

Proj Subcategory:

Sample Point Code: 0

IMS File/Invoice #:

SPECIAL WASTE

3030.007

Sample Type:

Sample Matrix:

Collected By:

GRAB

5/19/00

SOIL KLEINFELDER

REPORT QUEUE

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS

PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
4-Chloro-3-methylphenol	<0.660	mg/Kg	0.660	EPA 8270B
4-Chloroaniline	<4.00	mg/Kg	4.00	EPA 8270B
4-Chlorophenylphenyl ether	< 0.660	mg/Kg	0.660	EPA 8270B
4-Methylphenol	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitroaniline	< 0.660	mg/Kg	0.660	EPA 8270B
4-Nitrophenol	<2.00	mg/Kg	2.00	EPA 8270B
Acenaphthene	< 0.660	mg/Kg	0.660	EPA 8270B
Acenaphthylene	< 0.660	mg/Kg	0.660	EPA 8270B
Anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(a)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(b)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(g,h,i)perylene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzo(k)fluoranthene	< 0.660	mg/Kg	0.660	EPA 8270B
Benzoic acid	<2.00	mg/Kg	2.00	EPA 8270B
Benzyl alcohol	< 0.660	mg/Kg	0.660	EPA 8270B
Benzyl butyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethoxy) methane	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroethyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-chloroisopropyl) ether	< 0.660	mg/Kg	0.660	EPA 8270B
Bis(2-ethylhexyl) phthalate	<4.00	mg/Kg	4.00	EPA 8270B
Chrysene	< 0.660	mg/Kg	0.660	EPA 8270B
Di-n-butyl phthalate	<2.00	mg/Kg	2.00	EPA 8270B
Di-n-octyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzo(a,h)anthracene	< 0.660	mg/Kg	0.660	EPA 8270B
Dibenzofuran	< 0.660	mg/Kg	0.660	EPA 8270B
Diethyl phthalate	<0.660	mg/Kg	0.660	EPA 8270B
Dimethyl phthalate	< 0.660	mg/Kg	0.660	EPA 8270B
Fluoranthene	<0.660	mg/Kg	0.660	EPA 8270B
Fluorene	< 0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobenzene	<0.660	mg/Kg	0.660	EPA 8270B
Hexachlorobutadiene	<2.00	mg/Kg	2.00	EPA 8270B





5/19/00

REPORT QUEUE

Sample Date/Time 5/18/00 12:00 System ID AE04678 Sample ID LAB000740

Page: 3

Date Received:

Sample Status:

Proj./Company Name: LARSON PROPERTY

Address/Location: 10505 N NORTH PORTLAND RD

TP-16-9 PROJECT 6064

ODEOLAL MAGTE

Proj Subcategory: SPECIA Sample Point Code: 0

IMS File/Invoice #: 3030.007

SPECIAL WASTE

Sample Type: GRAB Sample Matrix: SOIL

Sample Matrix: SOIL
Collected By: KLEINFELDER

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Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<2.00	mg/Kg	2.00	EPA 8270B
Hexachloroethane	<2.00	mg/Kg	2.00	EPA 8270B
Indeno(1,2,3-cd)pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
Isophorone	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodi-n-propylamine	< 0.660	mg/Kg	0.660	EPA 8270B
N-Nitrosodiphenylamine	< 0.660	mg/Kg	0.660	EPA 8270B
Naphthalene	< 0.660	mg/Kg	0.660	EPA 8270B
Nitrobenzene	< 0.660	mg/Kg	0.660	EPA 8270B
Pentachlorophenol	<2.00	mg/Kg	2.00	EPA 8270B
Phenanthrene	< 0.660	mg/Kg	0.660	EPA 8270B
Phenol	< 0.660	mg/Kg	0.660	EPA 8270B
Pyrene	< 0.660	mg/Kg	0.660	EPA 8270B
VOLATILE ORGANIC COMPOUNDS	S	1000 1		
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,1-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	EPA 8260B
1,1,2-Trichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethane	<100	µg/Kg	100	EPA 8260B
1,1-Dichloroethene	<100	µg/Kg	100	EPA 8260B
1,1-Dichloropropene	<100	μg/Kg	100	EPA 8260B
1,2,3-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,3-Trichloropropane	<100	μg/Kg	100	EPA 8260B
1,2,4-Trichlorobenzene	<100	µg/Kg	100	EPA 8260B
1,2,4-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<500	μg/Kg	500	EPA 8260B
1,2-Dibromoethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,2-Dichloroethane	<100	μg/Kg	100	EPA 8260B
1,2-Dichloropropane	<100	µg/Kg	100	EPA 8260B
1,3,5-Trimethylbenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichlorobenzene	<100	μg/Kg	100	EPA 8260B
1,3-Dichloropropane	<100	μg/Kg	100	EPA 8260B

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Sample ID LAB000740 Sample Date/Time 5/18/00 12:00 System ID AE04678

Page:

Proj./Company Name: LARSON PROPERTY

TP-16-9 PROJECT 6064

Date Received:

5/19/00

Address/Location:

10505 N NORTH PORTLAND RD

Sample Status:

REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code:

Sample Matrix:

SOIL

IMS File/Invoice #:

3030.007

Collected By:

KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<100	µg/Кg	100	EPA 8260E
2,2-Dichloropropane	<100	μg/Kg	100	EPA 8260B
2-Butanone	1210	μg/Kg	1000	EPA 8260B
2-Chlorotoluene	<100	μg/Kg	100	EPA 8260E
2-Hexanone	<1000	μg/Kg	1000	EPA 8260E
4-Chlorotoluene	<100	μg/Kg	100	EPA 8260E
4-Methyl-2-pentanone (MIBK)	<500	μg/Kg	500	EPA 8260B
Acetone	<1000	μg/Kg	1000	EPA 8260E
Benzene	<100	μg/Kg	100	EPA 8260E
Bromobenzene	<100	μg/Kg	100	EPA 8260E
Bromochloromethane	<100	μg/Kg	100	EPA 8260E
Bromodichloromethane	<100	μg/Kg	100	EPA 8260E
Bromoform	<100	μg/Kg	100	EPA 8260E
Bromomethane	<500	μg/Kg	500	EPA 8260E
Carbon disulfide	<1000	μg/Kg	1000	EPA 8260E
Carbon tetrachloride	<100	µg/Kg	100	EPA 8260E
Chlorobenzene	<100	μg/Kg	100	EPA 8260E
Chloroethane	<100	μg/Kg	100	EPA 8260E
Chloroform	<100	μg/Kg	100	EPA 8260E
Chloromethane	<500	μg/Kg	500	EPA 8260E
cis-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260E
cis-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260E
Dibromochloromethane	<100	μg/Kg	100	EPA 8260E
Dibromomethane	<100	μg/Kg	100	EPA 8260E
Dichlorodifluoromethane	<500	μg/Kg	500	EPA 8260E
Ethylbenzene	<100	μg/Kg	100	EPA 8260E
Hexachlorobutadiene	<200	μg/Kg	200	EPA 8260E
Isopropylbenzene	<100	μg/Kg	100	EPA 8260E
m,p-Xylene	<200	μg/Kg	200	EPA 8260E
Methylene chloride	<500	μg/Kg	500	EPA 8260E
n-Butylbenzene	<100	μg/Kg	100	EPA 8260E
n-Propylbenzene	<100	μg/Kg	100	EPA 8260E

Report Date: 6/12/00

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Sample Date/Time	5/18/00	12:00	System ID	AE04678	Sample ID	LAB000740
					Page:	5
Proj./Company Name	: LARSON	PROPE	RTY		Date Received:	5/19/00
Address/Location:			Sample Status:	REPORT QUEUE		
Proj Subcategory:	SPECIA	L WASTE			Sample Type:	GRAB
Sample Point Code:	0				Sample Matrix:	SOIL
IMS File/Invoice #:	3030.00	7			Collected By:	KLEINFELDER

Comments: LAB: THE VOLATILE ORGANIC COMPOUND 2-BUTANONE WAS DETECTED IN THE METHOD BLANK; ITS PRESENCE IN THE SAMPLE MAY BE ATTRIBUTABLE TO LABORATORY CONTAMINATION.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<100	μg/Kg	100	EPA 8260B
o-Xylene	<100	μg/Kg	100	EPA 8260B
p-Isopropyltoluene	<100	μg/Kg	100	EPA 8260B
sec-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Styrene	<100	μg/Kg	100	EPA 8260B
tert-Butylbenzene	<100	μg/Kg	100	EPA 8260B
Tetrachloroethene	<100	µg/Kg	100	EPA 8260B
Toluene	<100	µg/Kg	100	EPA 8260B
trans-1,2-Dichloroethene	<100	μg/Kg	100	EPA 8260B
trans-1,3-Dichloropropene	<100	μg/Kg	100	EPA 8260B
Trichloroethene	<100	μg/Kg	100	EPA 8260B
Trichlorofluoromethane	<100	µg/Kg	100	EPA 8260B
Vinyl chloride	<100	μg/Kg	100	EPA 8260B

End of Report for Sample ID: LAB000740

PORT. WATER POLLUTION

5658

823

503

17:04 FAX

THU

00/80/90





Sample Date/Time 5/18/00 15:30 System ID AE04679 Sample ID LAB000741

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

MW1-05180 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: IMS File/Invoice #:

3030,007

Sample Type:

Sample Matrix: Collected By:

Date Received:

Sample Status;

GRAB

5/19/00

GRNDWTR KLEINFELDER

REPORT QUEUE

Comments: LAB: THIS SAMPLE REQUIRED DILUTION BY A FACTOR OF 5 FOR SEMI-VOLATILE ORGANICS ANALYSIS DUE TO THE MATRIX.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	<0.01:	mg/L	0.01	EPA 2008
BARIUM	0.24	mg/L	0.01	EPA 200.7
CADMIUM	<0.030	mg/L	0.03	EPA 200.7
CHROMIUM	<0.030	mg/L	0.03	EPA 200.7
LEAD	<0.100	mg/L	01.7	EPA 200 7
MERCURY	0.0007	mg/L	0.0002	EPA 245.1
SELENIUM	×0.01	mg/L	0.01	EPA 200.8
SILVER	<0.010	mg/L	0.01	EPA 200.7
SEMI-VOLATILE ORGANICS				LI A 200.1
1,2,4-Trichlorobenzene	<25	(jiiii µg/L	25331111	EPA 8270
1,2-Dichlorobenzene	<25	µg/L		EPA 8270
1,3-Dichlorobenzene	25	µg/L ₽g/L	25 11 25	EPA 8270
1,4-Dichlorobenzene		µg/L		EPA 8270
2,4,5-Trichlorophenol	<25 25	µg/L	25 25	EPA 8270
2,4,6-Trichlorophenol	<25	µg/L	25	EPA 8270
2,4-Dichlorophehol	<25	μg/E	344112512121212	EPA 8270
2,4-Dimethylphenol	<50	µg/L	50	EPA 8270
2,4-Dinitrophenol	**************************************	HILLIAO/L	25	EPA 8270
2,4-Dinitrotoluene 2,6-Dinitrotoluene	<25	μg/L	25	EPA 8270
2,6-Dinitrotoluene	<25	Har po/E	25 25	EPA 8270
2-Chloronaphthalene 2-Chloropheno	<25	ha/r	25	EPA 8270
2-Chlorophenol	71117117117117171717777 25 141.4111413	pg/L	111112511111111111	EPA 8270
2-Methylnaphthalene 2-Methylphenol	<25	μg/L	25	EPA 8270
2-Methylphenol	₹25	μg/L	25	EPA 8270
2-Nitroaniline	<25	μg/L	25	EPA 8270
2-Nitrophenol		μοικ	2531	EPA 8270
3,3'-Dichlorobenzidine	<25	µg/L	25	EPA 8270
34-Methylphenol	×25	ŢĮĮ	25	EPA 8270
3-Nitroaniline	<50	ug/L	50	EPA 8270
4.6-Dinitro-2-methylphenol	<50	µg/L	DESCRIPTION OF THE PROPERTY OF THE PARTY OF	EPA 8270

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Sample Date/Time 5/18/00 15:30 System ID AE04679 Sample ID LAB000741

> Page: 2

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

MW1-05180 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: 0

IMS File/Invoice #: 3030.007

5/19/00

REPORT QUEUE

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB

Collected By:

GRNDWTR KLEINFELDER

Comments: LAB: THIS SAMPLE REQUIRED DILUTION BY A FACTOR OF 5 FOR SEMI-VOLATILE ORGANICS ANALYSIS DUE TO THE MATRIX.

Test Parameter Result Units MRL Method 4-Bromophenylphenyl ether <25 µg/L 25 **EPA 8270** 4-Chloro-3-methylphenol ug/L 25 EPA 8270 4-Chloroaniline <100 µg/L 100 **EPA 8270** 4-chlorophenylphenyl ether <25 µg/L 25 EPA 8270 4-Nitroaniline <25 µg/L 25 EPA 8270 4-Nitrophenol <125 µg/L 125 EPA 8270 Acenaphthene <25 µg/L **EPA 8270** Acenaphthylene <25 µg/L EPA 8270 Anthracene <25 µg/L 25 **EPA 8270** Benzo(a)anthracene µg/L EPA 8270 Benzo(a)pyrene µg/L <25 25 **EPA 8270** Benzo(b)fluoranthene <25 25 μg/L EPA 8270 Benzo(g,h.i)perylene <25 25 µg/L **EPA 8270** Benzo(k)fluoranthene 25 EPA 8270 <25 µg/L Benzoic acid <250 µg/L 250 **EPA 8270** Benzyl alcohol <50 µg/L 50 EPA 8270 Benzyl butyl phthalate µg/L <25 25 EPA 8270 Bis(2-chloroethoxy) methane <50 µg/L 50 EPA 8270 Bis(2-chloroethyl) ether <25 µg/L 25 EPA 8270 Bis(2-chloroisopropyl) ether <50 50 EPA 8270 Ug/L Bis(2-ethylhexyl) phthalate <50 µg/L 50 **EPA 8270** Carbazole <25 25 EPA 8270 µg/L Chrysene <25 µg/L **EPA 8270** Di-n-butyl phthalate <25 µg/L 25 EPA 8270 Di-n-octyl phthalate <25 25 µg/L **EPA 8270** Dibenzo(a,h)anthracene <25 µg/L 25 EPA 8270 Dibenzofuran <25 EPA 8270 µg/L 25 Diethyl phthalate <25 µg/L 25 EPA 8270 Dimethyl phthalate <25 25 **EPA 8270** µg/L <25 Fluoranthene µg/L EPA 8270 Fluorene <25 µg/L 25 EPA 8270 Hexachlorobenzene <25 EPA 8270 µg/L

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Sample Date/Time 5/18/00	15:30	System ID	AE04679	Sample ID	LAB000741
		M1-M1-M1-M1-M1-M1-M1-M1-M1-M1-M1-M1-M1-M		Page:	3

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

MW1-05180 PROJECT 6064

Proj Subcategory: SPECIAL WASTE

Sample Point Code:

IMS File/Invoice #:

3030,007

Sample Type:

Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB GRNDWTR KLEINFELDER

REPORT QUEUE

5/19/00

Comments: LAB; THIS SAMPLE REQUIRED DILUTION BY A FACTOR OF 5 FOR SEMI-VOLATILE ORGANICS ANALYSIS DUE

TO THE MATRIX.

Test Parameter	Result	Units	MRL	Method
Hexachlorobutadiene	<50	μg/L	50	EPA 8270
Hexachlorocyclopentadiene	₹50	ÝŽ/L		EPA 8270
Hexachloroethane	<50	µg/L	50	EPA 8270
Indeno(1,2,3-cd) pyrene	₹25	ug/L	25	EPA 8270
Isophorone	<25	μg/L	25	EPA 8270
N-Nitroso-di-n-propylamine	<50	pg/L	501	EPA 8270
N-Nitrosodiphenylamine	<25	µg/L	25	EPA 8270
Mapingalene	<25	μg/L	25	EPA 8270
Nitrobenzene	<25	µg/L	25	EPA 8270
Rentachloropheno.	and the second s	Hg/L	50	EPA 8270
Phenanthrene	<25	µg/L	25	EPA 8270
Phenol	25	μg/L	25.0	EPA 8270
Pyrene	<25	µg/L	25	EPA 8270
VOLATILE ORGANIC COMPOUNDS		a la calebratica de la compansión de la calebratica del la calebratica de la calebratica del la calebratica de la calebr		
1.1.1.2 Tetrachloroethane 1.1.1-Trichloroethane	<1.00	µg/L	7.00	EPA 8260B
1122 Tetachloroethane	<1.00	µg/L	1.00	EPA 8260B
1 1 2 Trichler of have	<1.00 t	19/6	1.00	EPA 8260B
1,1,2-Trichloroethane	<1.00	µg/L	1.00	EPA 8260B
1.1-Dichloroethene	≤1.00	Pg/L: Hilling	7.00	EPA 8260B
1,1-Dichloropropene	<1.00	hg/r	1.00	EPA 8260B
1 2 3 Trichlorehouses	A	μο/C	1.00	EPA 8260B
123-Trichloropropane	<1.00	µg/L	1.00	EPA 8260B
1,2,4-Trichlorobenzene	~1.00	HE HOLES	1:00	EPA 8260B
12.4 Trimethylbenzene	<1.00	μg/L	1.00	EPA 8260B
1,2-Dibromo-3-chloropropane	\$1.00°	Ling/E	1,00	EPA 8260B
1,2-Dibromoethane	<2.00 <1.00	µg/L	2.00	EPA 8260B
1,2-Dichlorobenzene	<1.00	PDÆFFIELE	1.00	EPA 8260B
2-Dichloroethane	7.00	µg/L	1.00	EPA 8260B
1,2-Dichloropropane	the second to the second the second terms of t	P9/L	1.00	EPA 8260B
1.3.5 Trimethylbenzene	<1.00	µg/L	1.00	EPA 8260B
1,3-Dichlorobenzene	\$1:00 -1:00	144.49/E	1.00	EPA 8260B
	<1.00	µg/L	1.00	EPA 8260B

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Sample Date/Time	5/18/00	15:30	System ID	AE04679	Sample ID	LAB000741
		**************************************		T) Antoronous	Page:	4
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD MW1-05180 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE			
Proj Subcategory: Sample Point Code: IMS File/Involce #:	SPECIAL 0 3030.007				Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER

Comments: LAB: THIS SAMPLE REQUIRED DILUTION BY A FACTOR OF 5 FOR SEMI-VOLATILE ORGANICS ANALYSIS DUE TO THE MATRIX.

Test Parameter	Result	Units	MRL	Method
1,3-Dichloropropane	₹1,00	nahandahangarangarangar Birtasar Hg/II sanasaran	1.00	FA 8260B
1,4-Dichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
2,2-Dichloropropane	<1.00	i i i μο/Ε	1.00	EPA 8260B
2-Butanone	<10.0	μg/L	10.0	EPA 8260B
2-Chlorotoluene	<1.00	µg/L	1.00	EPA 8260B
2-Hexanone	<10.0	µg/L	10.0	EPA 8260B
4-Chlorotoluene	<1.00	₽g/L	1.00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	µg/L	5.00	EPA 8260B
Acetone Acetone	<10.0	<u> </u>	1000	EPA 8260B
Benzene	1.13	µg/L	1.00	EPA 8260B
Bromobenzene	<1.00	ug/L	1.00	EPA 8260B
Bromochloromethane	<1.00	µg/L	1.00	EPA 8260B
Bromodichloromethane	<1.00	₽9/L	1.00	EPA 8260B
Bromoform	<1.00	μg/L	1.00	EPA 8260B
Bromomethane	<5.00	μg/L	5.00	EPA 8260B
Carbon disulfide	<10.0	μg/L	10.0	. EPA 8260B
Carbon tetrachloride	<1.00	μg/L	1.00	EPA 8260B
Chlorobenzene	4.21	µg/L	1.00	EPA 8260B
Chloroethane	7.46	μον.	1.00	EPA 8260B
Chloroform	<1.00	µg/∟	1.00	EPA 8260B
Chloromethane	<5.00	μg/L	5.00	EPA 8260B
cis-1,2-Dichloroethene	<1.00	ug/L	1.00	EPA 8260B
cis-1:3-Dichloropropene	<1.00	Hg/L	1.00	EPA 8260B
Dibromochloromethane	<1.00	µg/L	1.00	EPA 8260B
Dibromomethane	<1.00	μο/U na	1.00	EPA 8260B
Dichlorodifluoromethane	<5.00	µg/L	5.00	EPA 8260B
Ethylbenzene	44	Hig/Little	1.00	EPA 8260B
Hexachlorobutadiene	2.64	μg/L	2.00	EPA 8260B
Isopropylbenzene	<1.00		1.00	EPA 8260B
m,p-Xylene	<2.00		2.00	EPA 8260B
Methylene chloride	<5.00	µg/L □µg/L	5,00	EPA 8260B
n-Butylbenzene	1.01	μg/L	1.00	EPA 8260B

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Sample Date/Time	5/18/00	15:30	System ID	AE04679	Sample ID	LAB000741
				1017/4 11-1/2004	Page:	5
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAI 0 3030.007				Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR

Comments: LAB: THIS SAMPLE REQUIRED DILUTION BY A FACTOR OF 5 FOR SEMI-VOLATILE ORGANICS ANALYSIS DUE TO THE MATRIX.

Test Parameter	Result	Units	MRL	Method
n-Propylbenzene	10000000000000000000000000000000000000		A TOP TO SECURE	EPA-8260B
Naphthalene	<1.00	µg/L	1.00	EPA 8260B
o-Xylene	<1.00		100	L. Colonial tradition and a most a transaction and a second
p-Isopropyltoluene	<1.00	µg/L	1.00	EPA 8260B
sec-Butylbenzene	<1.00			EPA 8260B
Styrene	<1.00	µg/L	1.00	EPA 8260B
the same and the first of the property of the same and th	<1.00	P9/L	With the state of	EPA 8260B
Tetrachloroethene	<1.00		1.00	EPA 8260B
Toluene		µg/L	1.00	EPA 8260B
trans-1,2-Dichloroethene	<1.00	μg/L		EPA 8260B
trans-1,3-Dichloropropens	The same	Hg/L	1.00	EPA 8260B
Trichloroethene	<1.00	Hg/L		EPA 8260B
Trichloroflueromethane	physical designation of the second se	Hg/L	1.00	EPA 8260B
Vinyl chloride		CONTROLL CONTROLL		EPA 8260B
antyr officials	<1.00	hg/L	1.00	EPA 8260B

End of Report for Sample ID: LAB000741







GRNDWTR

KLEINFELDER

Sample Matrix:

Collected By:

Sample Date/Time	5/18/00	17:15	System ID	AE04680	Sample ID	LAB000742
		- Til Westernahaldadada		Attended to the second	Page:	1
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	- 15/55
Proj Subcategory:	SPECIAL	WASTE			Sample Type:	GRAB

SPECIAL WASTE Sample Point Code: IMS File/Invoice #: 3030.007

Comments:

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	0.020	mg/L	0.04	EPA 200 8
BARIUM	0.20	mg/L	0.01	EPA 200.7
CADMIUM	<0.030	mg/L	0.03	EPA 200.7
CHROMIUM	<0.030	mg/L	0.03	EPA 200.7
LEAD	<0.100	mg/L	1221 011 BILLION	EPA 200.7
MERCURY	<0.0002	mg/L		EPA 245.1
SECENIUM	<0.07	mg/L	0.0002 0.01	EPA 200.8
SILVER	< 0.010	mg/L	0.01	EPA 200.7
SEMI-VOLATILE ORGANICS			0.01	Lr A 200,7
1,2,4-Trichlorobenzene	<5.0	Pare	50	EPA 8270
1,2-Dichlorobenzene		ha/r		EPA 8270
3-Dichlorobenzene	<5.0	i i i i i i i i i i i i i i i i i i i	5.0 5.0	EPA 8270
1,4-Dichlorobenzene	<5.0	µg/L	5.0	EPA 8270
2.4.5-Trichlorophenol	<5.0	ρο/Ē	5.0	EPA 8270
2,4,6-Trichlorophenol	<5.0	ha/r	5.0	EPA 8270
		Le/L	5.0	EPA 8270
2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene	<10	ha/r	10	
24-Dinitrophenol	<10 <25	THE POLEMENTS	10 25	EPA 8270
2,4-Dinitrotoluene 2,6-Dinitrotoluene	<5.0	ug/l	5.0	EPA 8270
2,6-Dinitrotoluene	<5.0	µg/L ⊔g/L	5.0 6.0	EPA 8270 EPA 8270
2-Chloronaphthalene	<5.0	ha\r	5.0	
2-Chlorophenol	Ε β. 130 (1915)		5.0	EPA 8270
2-Methylnaphthalene	<5.0	μg/L	5.0	EPA 8270
2-Methylnaphthalene 2-Methylpheno	TO THE PROPERTY OF THE PROPERT	μο/L μο/L	5.0 #### 0 1644	EPA 8270
2-1410 0 0 1 1 1 1 1 1 1	<50		to the form of the service of the service of	EPA 8270
2-Nitrophenol	5.000 mm	µg/L	5.0 5.0	EPA 8270
3,3'-Dichlorobenzidine		HIP/E	and the second s	EPA 8270
3-4-Methylphenol	<5.0	µg/L	5.0 5.0	EPA 8270
3-Nitroaniline	<10	Pg/E	121210101011111111111111111111111111111	EPA 8270
4 6-Dinitro-2-methylphenol	Classic Continues and Classic and Continues	μg/L μg/L	10	EPA 8270

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Comments:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/00	17:15	System ID	AE04680	Sample ID	LAB000742
			19 To 19	man manuscripture	Page:	2
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD MW2-05180 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE			
Proj Subcategory: Sample Point Code: IMS File/Involce #:	SPECIAL 0 3030,007	WASTE		- 1	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER

Test Parameter	Result	Units	MRL	Method
4-Bromophenylphenyl ether	<5.0	μg/L	5.0	EPA 8270
4-Chloro-3-methylphenol	<5. 0	Hg/L	5.0	EPA 8270
4-Chloroaniline	<20	µg/L	20	EPA 8270
4-chlorophenylphenyl ether	<20 <5.0	μg/L	5.0	EPA 8270
4-Nitroaniline	<10	μg/L	10	EPA 8270
4-Nitrophenol	₹25	μg/E	25	EPA 8270
Acenaphthene	<5.0	hB/r	5,0	EPA 8270
Acehaphthylene	₹5,0	μg/L	5.0	EPA 8270
Anthracene	<5.0	µg/L	5.0	EPA 8270
Benzo(a)anthracene	<5.0	μg/L	150	EPA 8270
Benzo(a)pyrene	<5.0	µg/L	5.0	EPA 8270
Benzo(b)fluoranthene	<5.0	hall	5.0 5.0	EPA 8270
Benzo(g,h,i)perylene	<5.0	µg/L	5.0	EPA 8270
Benzo(K)fluoranthene	\$5.0	μg/L	5.0	EPA 8270
Benzoic acid	<50	µg/L	50	EPA 8270
Benzy alcohol	<10	µg/L	1110	EPA 8270
Benzyl butyl phthalate	<5.0	µg/L	5.0	EPA 8270
Bis(2-chlordethoxy) methane	<10	Hg/L	10	EPA 8270
Bis(2-chloroethyl) ether	<5.0 <10	µg/L	5.0	EPA 8270
Bis(2-chloroisopropyl) ether	<10	μg/L	10:22:22	EPA/8270
Bls(2-ethylhexyl) phthalate	<10 <5.0	µg/L	10	EPA 8270
Chlysene		LIG/LI	5.0	EPA 8270
Di-n-butyl phthalate	<5.0	µg/L	5.0	EPA 8270
Di-n-ectyl phthalate	<5.0	Lg/L	5.0	EPA 8270
Dibenzo(a,h)anthracene Dibenzoturan	<5.0	µg/L	5.0 5.0	EPA 8270
Dieenzordan die de die die die die die die die die	\$5,0 mm	Lig/L	5.0	EPA 8270
Diethyl phthalate	<5.0	µg/L	5.0	EPA 8270
Dimethyl phthalate	<5 0	µg/L	5.0	EPA 8270
Fluoranthene Eluorene	<5.0	µg/∟	5.0	EPA 8270
Lace Cluored State Late (11 4 and 11 and 12	5.0	μg/L	50	EPA 8270
Hexachlorobenzene	<5.0	µg/L	5.0	EPA 8270
Hexachlorobutadiene	<10	ב/פע	10	EPA 8270

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Report Date; 5/8/00





Comments:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/00	17:15	System ID	AE04680	Sample ID	LAB000742
		10.	***************************************	The state of the s	Page:	3
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:		L WASTE			Sample Type: Sample Matrix:	GRAB GRNDWTR

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10	µg/L	10	EPA 8270
Hexachloroethane	<10	μg/L	10	EPA 8270
Indeno(1,2,3-cd) pyrene	<5.0	μg/L	5.0	EPA 8270
Isophorone	<5.0	µg/L	5.0	EPA 8270
N-Nitroso-di-n-propylamine	<10	µg/L	10	EPA 8270
N-Nitrosodiphenylamine	#### #####	μg/L	5.0	EPA 8270
Naphthalene	< 5.0	µg/L	5.0	EPA 8270
Nitrobenzene	\$5.0 million	µg/L	3. 10 12 5 O 1	EPA 8270
Pentachlorophenol	<10	µg/L	10	EPA 8270
Phenanthrena	₹5.0	HJ Hg/L	5,0	EPA 8270
Phenol	<5.0	μg/L	5,0	EPA 8270
	45.0	Pg/E	5.0	EPA 8270
VOLATILE ORGANIC COMPOUNDS				The statement of a property with
1,1,1,2-Tetrachloroethane	<1.00	µg/L	1.00	EPA 8260B
1.1.1-Trichloroethane	<1.00	h9/L	1.00	EPA 8260B
1,1,2,2-Tetrachloroethane	<1.00	µg/L	1.00	EPA 8260B
1.1.2-Trichloroethane	<1.00	µg/E	1,00	EPA 8260B
1,1-Dichloroethane	<1.00 	µg/L	1.00	EPA 8260B
11-Dichlordethene	<1.00	pg/E	1.00	EPA 8260B
1,1-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B
12,3-Trichlorobenzene	<1.00	PB/E	1.00	EPA 8260B
1,2,3-Trichloropropane	<1.00	µg/L	1.00	EPA 8260B
12.4 Trichlorobenzene	<d.00 \<="" td=""><td>₽g/L</td><td>1.00</td><td>EPA 8260B</td></d.00>	₽g/L	1.00	EPA 8260B
1,2,4-Trimethylbenzene	<1.00	µg/L	1.00	EPA 8260B
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane	<2.00	Hg/L	2.00	EPA 8260B
	<1.00	µg/L	1.00	EPA 8260B
1,2-Dichlorobenzene 1,2-Dichloroethane	<1.00	L L L L L L L L L L L L L L L L L L L	1.00	EPA 8260B
	<1.00	µg/L	1.00	EPA 8260B
1.3.5 Trimethylbone	### # \$1.00	μg/L	1.00	EPA 8260B
1,3,5-Trimethylbenzene	<1.00	µg/L	1.00	EPA 8260B
13 Dichlorobenzene	\$1.001	Pa/E	1.00	EPA 8260B
1.3-Dichloropropane	<1.00	µg/L	1.00	EPA 8260B





KLEINFELDER

Collected By:

Sample Date/Time	5/18/00 17:15 Sy	stem ID AE04680	Sample ID	LAB000742
)		Page:	4
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD MW2-05180 PROJECT 6064			Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code:	SPECIAL WASTE		Sample Type; Sample Matrix:	GRAB GRNDWTR

Comments:

IMS File/Invoice #:

3030.007

Test Parameter	Result	Units	MRL	Method
14 Dichlorobenzene	1.00	Territorial	1001	EPA 8260B
2,2-Dichloropropane	<1.00	μg/L	1.00	EPA 8260B
2-Butanone	<10.0	µg/L	10.0	EPA 8260B
2-Chlorotoluene	<1.00	µg/L	1.00	EPA 8260B
2-Hexanone	×10 0	⊔g/L	10.0	EPA 8260B
4-Chlorotoluene	<1.00	µg/L	1,00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	µg/L	5.00	EPA 8260B
Acetone	<10.0	µg/L	10.0	EPA 8260B
Benzane	<1.00	µg/E	1.00	EPA 8260B
Bromobenzene	<1.00	µg/L	1.00	EPA 8260B
Bromochloromethane	<1.00	Hg/L	1.00	EPA 8260B
Bromodichloromethane	<1,00	µg/L	1.00	EPA 8260B
Bromotorm, 22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	*1.00 / / / / / · / / / / / / / / / / / / /	µg/L∷;;;;;	1.00	EPA 8260B
Bromomethane	<5.00	µg/L	5.00	EPA 8260B
Carbon disulfide	£10:0	ug/L	10:0	EPA 8260B
Carbon tetrachloride	<1.00	µg/L	1.00	EPA 8260B
Chlorobenzene	<1.00	μg/E	1.00	EPA 8260B
Chloroethane	<1.00	µg/L	1.00	EPA 8260B
Chloroform	<1.00	µg/L	1.00	EPA 8260B
Chloromethane	<5.00	µg/L	5.00	EPA 8260B
cis-1,2-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B
cis-1,3-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B
Dibromochloromethane		μο/Ε	1.00	EPA 8260B
Dibromomethane	<1.00	µg/L	1.00	EPA 8260B
Dichlorodifluoromethane	5,00	μg/E	5 00	EPA 8260B
Ethylbenzene	<1.00	µg/L	1.00	EPA 8260B
Hexachlorobutadiene	3.04	µg/L	2.00	EPA 8260B
Isopropylbenzene	<1.00	µg/L	1.00	EPA 8260B
m.p-Xylene	<2.00	Pig/E	2.00	EPA 8260B
Methylene chloride	<5.00	µg/L	5.00	EPA 8260B
n-Bulylbenzene	<1.00	Literation (Literature)	1/00	EPA 8260B
n-Propylbenzene	<1.00	µg/L	1.00	EPA 8260B





Sample Date/Time	5/18/00	17:15	System ID	AE04680	Sample ID	LAB000742
			(Per red by the control Property Control State Control	anth in the same of the same o	Page:	5
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Involce #:	SPECIAL 0 3030.007	1,011.01.00			Sample Type: Sample Matrix; Collected By:	GRAB GRNDWTR KLEINFELDER
Comments:						

Test Parameter	Result	Units	MRL	Method
Naphthalene	<1.00	pg/E	111111111111111111111111111111111111111	EPA 82608
o-Xylene	<1.00	µg/L	1.00	EPA 8260B
p-Isopropyltoluene	<1.00	μg/L	1,00	EPA 8260B
sec-Butylbenzene	<1.00	µg/L	1.00	EPA 8260B
Styrene	<1.00	ΨάλΕ	1.00	EPA 8260B
tert-Butylbenzene	<1.00	µg/L	1.00	EPA 8260B
Tetrachloroethene	<1.00	μg/L	100	EPA 8260B
Toluene	<1.00	µg/L	1.00	EPA 8260B
trans-1,2-Dichloroethene	\$1.00	12.1.190/	1.00	EPA 8260B
trans-1,3-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B
Trichloroethene	<1.00	μογΕ	1.00	EPA 8260B
Trichlorofluoromethane	<1.00	µq/L	1.00	EPA 8260B
Vinyl chloride	<1.00	µg/L	1.00	EPA 8260B

End of Report for Sample ID: LAB000742

A A

10505 N NORTH PORTLAND RD



City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00 16:40 System ID AE04681 Sample ID LAB000743

Page:

1

Date Received: Sample Status: 5/19/00 REPORT QUEUE

MW3-05180 PROJECT 6064 Proj Subcategory:

Proj./Company Name: LARSON PROPERTY

Sample Point Code:

Address/Location:

SPECIAL WASTE

IMS File/Invoice #:

0

3030.007

Sample Type: Sample Matrix: Collected By:

GRAB GRNDWTR KLEINFELDER

Comments:

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	0.060	rng/L	0.01	EPA 200.8
BARUM	2.7	mg/L	0.01	EPA 200.7
CADMIUM	<0.030	mg/L	0.03	EPA 200.7
CHROMIUM	0.50	mg/L	0.03	EPA 2007
LEAD	1,5		0.1	EPA 200.7
MERCURY	0.0026	mg/L mg/L	0.0002	EPA 245.1
SELENIUM	<0.01	mg/L	0.01	EPA 200.8
SILVER	<0.010	mg/L	0.01	EPA 200 7
SEMI-VOLATILE ORGANICS	(a) and (a) and and and	The state of the s	A season and the	нистания причинальника причинальний причинал
1,2,4-Trichlorobenzene	<5.0	µg/L	5.0	EPA 8270
1.2-Dichlorobenzene	<5(0	μg/E	5,0 5,0	EPA 8270
1,3-Dichlorobenzene	<5.0	µg/L		EPA 8270
1,4-Dichlorobenzene	<5.0	i joje i i	5.0 5.0	EPA 8270
2,4,5-Trichlorophenol	<5.0	hã/r	5.0	EPA 8270
2,4,6-Trichlorophenol		₽g/L	5.0	EPA 8270
2,4-Dichlorophenol	<5.0	µg/L	5.0	EPA 8270
2,4-Dimethylphenol	A STATE OF S	pg/L	10	EPA 8270
2,4-Dinitrophenol	<25	µg/L	25	EPA 8270
2,4-Dinitrotoluene	<5.0	ug/L	**************************************	EPA 8270
2,6-Dinitrotoluene	<5.0	µg/L	5.0	EPA 8270
2-Chloronaphthalene		yg/L∷∷	5.0 5.0	EPA 8270
2-Chlorophenol	<5.0	μg/L	5.0	EPA 8270
2-Chlorophenal 2-Methylnaphthalene		<u>الإنابات المراوب</u>	5.0	EPA 8270
2-Methylphenol	<10	µg/L	10	EPA 8270
2-Nitroaniline	<5.0	μg/E	50	EPA 8270
2-Nitrophenol	<5.0	μg/L	5.0	EPA 8270
3.3 Dichlorobenzidine	×5.0	þg/L	5.0	EPA-8270
3-,4-Methylphenol	<5.0	μg/L	5.0	EPA 8270
3-,4-Methylphenol 3-,Ntrpaniline	410	μg/L	10000	EPA 8270
4,6-Dinitro-2-methylphenol	<10	µg/L	10	EPA 8270

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Comments:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time 5/18/00 16:40 System ID AE04681 Sample ID LAB000743 Page: 2 Proj./Company Name: LARSON PROPERTY Date Received: 5/19/00 Address/Location; 10505 N NORTH PORTLAND RD Sample Status: REPORT QUEUE MW3-05180 PROJECT 6064 Proj Subcategory: SPECIAL WASTE Sample Type: GRAB Sample Point Code: 0 Sample Matrix: GRNDWTR IMS File/Invoice #: 3030.007 Collected By: KLEINFELDER

Test Parameter	Result	Units	MRL	Method
4-Bromophenylphenyl ether	25,000	E E E E E E E E E E E E E E E E E E E	5.0	EPA 8270
4-Chloro-3-methylphenol	<5.0	µg/L	5.0	EPA 8270
4-Chloroanline	<20	μg/L	20	EPA 8270
4-chlorophenylphenyl ether	<5.0	h8/F	5.0	EPA 8270
4-Nitroaniline	<10	µg/L	10	EPA 8270
4-Nitrophenol	<25	μg/L	25	EPA 8270
Acenaphthene	<5.0	µg/L	14.750	EPA 8270
Acenaphthylene	<5.0	µg/L	5.0	EPA 8270
Anthracene	<5.0	hayr	5.0	EPA 8270
Benzo(a)anthracene	<5.0	µg/L	5.0	EPA 8270
Benzo(a)pyrene	¥5.0	pg/L	5.0	EPA 8270
Benzo(b)fluoranthene	< 5.0	µg/L	5.0	EPA 8270
Benzo(g,h,l)perylene	<5.0	μg/E	50	EPA 8270
Benzo(k)fluoranthene	<5.0	µg/L	5.0	EPA 8270
	<50	µg/L	501111111	EPA 8270
Benzyl alcohol	<10	µg/L	10 50	EPA 8270
Benzyl butyl phthalate	≥6.0	Hg/L		EPA 8270
Bis(2-chloroethoxy) methane	<10	µg/L	10	EPA 8270
Bis(2-chloroethyl) ether	#### ##	h8/F	5.0 (1177)	EPA 8270
Bis(2-chloroisopropyl) ether	<10	µg/L	10	EPA 8270
Bis(2-ethylhexyl) phthalate		μg/L	110	EPA 8270
Chrysene	<5.0	ha/r	5.0	EPA 8270
Di-n-butyl phthalate	55.0	µg/L	5.0	EPA 8270
Di-n-octyl phthalate	<5.0	µg/L	5.0	EPA 8270
Dibenzo(a,h)anthracene	5.0	μg/L	11.15.0:141.511.0	EPA 8270
Dibenzofuran	<5.0	ha/r	5.0	EPA 8270
Diethyl phthalate		h8/F	5.0	EPA 8270
Dimethyl phthalate	<5.0	Hg/L	5.0	EPA 8270
Fluoranthene		have	50	EPA 8270
Fluorene Hexachlorobenzene	<5.0 \$5.0	μg/L	5.0	EPA 8270
	Committee of the second commit	ÞΦζĽ	5.0	EPA 8270
Hexachlorobutadiene	<10	µg/L	10	EPA 8270



Comments:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



KLEINFELDER

Sample Date/Time	5/18/00	16:40	System ID	AE04681	Sample ID	LAB000743
	- Miletra				Page:	3
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD MW3-05180 PROJECT 6064		Date Received: Sample Status:	5/19/00 REPORT QUEUE			
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.007	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR

Collected By:

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10	Hug/L	10	EPA 8270
Hexachloroethane	<10	μg/L	10	EPA 8270
Indeno(1,2,3-cd) pyrene			5.0	EPA 8270
Isophorone	<5,0	µg/L	5.0	EPA 8270
N-Nitrosp-dl-n-propylamine		µg/L	101111	EPA 8270
N-Nitrosodiphenylamine	<5,0	µg/L	5.0	EPA 8270
Naphthalene	45 :0	μg/L	5.0	EPA 8270
Nitrobenzene	<5.0	µg/L	5.0	EPA 8270
Pentachlorophenol	The state of the s	µg/L	1011	EPA 8270
Phenanthrene	<5.0	µg/L	5.0	EPA 8270
Phenol	5.0	₽g/L	5.0	EPA 8270
Pyrene	<5,0	μg/L	5.0	EPA 8270
VOLATILE ORGANIC COMPO	UNDS			
1,1-1,2-Tetrachloroethane		<u> </u>	1.00	EPA 8260B
1,1,1-Trichloroethane	<1.00	µg/L	1.00	EPA 8260B
1,1,2,2 Tetrachloroethane	The state of the s	µg/L	1.00	EPA 8260B
1,1,2-Trichloroethane	<1.00	µg/L	1.00	EPA 8260B
1.1-Dichloroethane	<1.00	hg/F	1.00	EPA 8260B
1,1-Dichloroethene	<1.00	hg/L	1.00	EPA 8260B
d. J. Dicnoropropene	<1.00	uo/L	1.00	EPA 8260B
1,2,3-Trichlorobenzene	<1.00	ha/r	1.00	EPA 8260B
1,2,3-Trichloropropane	The state of the s	i i i i i i i i i i i i i i i i i i i	1.00	EPA 8260B
1,2,4-Trichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
1,2,4-Trimethylbenzene	e criminamahammahammahmam	± ; : pg/L	1.00	EPA 8260B
1,2-Dibromo-3-chloropropane	<2.00	μg/L	2.00	EPA 8260B
1,2-Dibromoethane	a major members and the	µg/L	1.00	EPA 8260B
1,2-Dichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
2-Dichloroethane	110011111111111111111111111111111111111	µg/L	1.00	EPA 8260B
1,2-Dichloropropane	<1.00	μg/L	1.00	EPA 8260B
1,3,5-Trimethylbenzene		Per L	1.00	EPA 8260B
1,3-Dichlorobenzene	<1.00	h8/r	1.00	EPA 8260B

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1,3-Dichlorobenzene 1,3-Dichloropropane

Report Date: 6/8/00

EPA 8260B







GRNDWTR

KLEINFELDER

Sample Matrix:

Collected By:

Sample Date/Time	5/18/00	16:40	System ID	AE04681	Sample ID	LAB000743
					Page:	4
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory:	SPECIAL	WASTE			Sample Type:	GRAB

Sample Point Code: IMS File/Invoice #: 3030.007

Comments:

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<1.00	μg/L	1.00	EPA 8260B
2,2-Dichloropropane	<1.00	ug/L	1.00	EPA 8260B
2-Butanone	<10.0	µg/L	10.0	EPA 8260B
2-Chlorotoluene	<1.00	μg/L	1.00	EPA 8260B
2-Hexanone	<10.0	μg/L	10.0	EPA 8260B
4-Chlorotoluene	\$1.00	pg/L	1,00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	µg/L	5.00	EPA 8260B
Acetone	18.5	HB/L	10.0	EPA 8260B
Benzene	<1.00	µg/L	1.00	EPA 8260B
Bromobenzene	<1.00	μg/L	1,00	EPA 8260B
Bromochloromethane	<1.00	μg/L	1.00	EPA 8260B
Bromodichioromethane	<1.00	µg/E	1.00	EPA 8260B
Bromotorm	<1.00	µg/L	1.00	EPA 8260B
Bromomethane	<5.00	LØ/L	5.00	EPA 8260B
Carbon disulfide	<10.0	H8/T	10.0	EPA 8260B
Carbon letrachloride	<1.00	μg/L	100	EPA 8260B
Chlorobenzene	<1.00	µg/L	1.00	EPA 8260B
Chloroethane	<1.00	######################################	1.00	EPA 8260B
Chloroform	<1.00	µg/L	1.00	EPA 8260B
Chloromethane	<5.00	pg/L	1. 25.00	EPA 8260B
cis-1,2-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B
cis-1,3-Dichloropropene	<1.00		1.00	EPA 8260B
Dibromochloromethane	<1.00	µg/L	1.00	EPA 8260B
- Dipromomethane	<1.00			EPA 8260B
Dichlorodifluoromethane Ethylbenzene	<5.00	µg/L	5,00	EPA 8260B
Ethylbenzene	<1 00	Halig/Engles	1.00	EPA 8260B
Hexachlorobutadiene	2.01	µg/L	2.00	EPA 8260B
Isopropylbenzene	<1.00		100	EPA 8260B
m,p-Xylene	<2.00	µg/L	2.00	EPA 8260B
Methylene chloride	×5.00	P9/L	5.00	EPA 8260B
n-Butylbenzene	<1.00	ha/r	1.00	EPA 8260B
n-Propylbenzene	2100		100	EPA 8260B

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Comments:

City of Portland Water Pollution Control Laboratory **Laboratory Analysis Report**



KLEINFELDER

Sample Date/Time	5/18/00	16:40	System ID	AE04681	Sample ID	LAB000743
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Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code; IMS File/Involce #:	SPECIAL 0 3030,007				Sample Type: Sample Matrix:	GRAB GRNDWTR

Collected By:

Test Parameter	Result	Units	MRL	Method
Naphthalene	<1.00	µg/L	1.00	EPA 8260B
o-xylene	<1.00	μg/L	CHILDRED IN CONTRACTOR OF THE PARTY OF THE P	EPA 8260B
p-Isopropyltoluene	<1.00	µg/L	1.00	EPA 8260B
sec-Burylbenzene	41.00	μg/L	1.00	EPA 8260B
Styrene	<1.00	µg/L	1.00	EPA 8260B
ten-Butylbenzene	<1.00	₽g/E	1.00	EPA 8260B
Tetrachloroethene	<1.00	μg/L	1.00	EPA 8260B
Toltene	<1.00	µg/L	1.00	EPA 8260B
trans-1,2-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B
trans-1,3-Dichloropropene	<1.0D	μg/L	1.00	EPA 8260B
Trichloroethene	<1.00	µg/L	1.00	EPA 8260B
Trichlorofluoromethane	<1.00	μg/L	1.00	EPA 8260B
Vinyl chloride	<1.00	µg/L	1.00	EPA 8260B

End of Report for Sample ID: LAB000743



IMS File/Invoice #:

3030.007

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



KLEINFELDER

Collected By:

Sample Date/Time	5/18/00	12:05	System ID	AE04682	Sample ID	LAB000744
The state of the s			**************************************		Page:	1
Proj./Company Name: LARSON PROPERTY Address/Location: 10505 N NORTH PORTLAND RD MW4-05180 PROJECT 6064			Date Received: Sample Status:	5/19/00 REPORT QUEUE		
Proj Subcategory: Sample Point Code:	SPECIA 0	L WASTE			Sample Type: Sample Matrix:	GRAB GRNDWTR

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
METALS			T	
ARSENIC	0.30	me/L	ECO.	EPA 200.8
BARIUM	4.6	mg/L	0.01	EPA 200.7
CADMIUM	0.049	mg/L	0.03	EPA 200.7
СНКОМІИМ	1.1	mg/L	0.03	EPA 200.7
LEAD Transfer of the latest of	1.1	mg/L	## ### ## O. 1 ### #####################	EPA 200.7
MERCURY	0.0024		0.0002	EPA 245.1
SELENIUM	0.01	mg/L mg/L	O.OHITTIER	EPA 200.8
SILVER	0.015	mg/L	0.01	EPA 200.7
SEMI-VOLATILE ORGANICS				
1.2.4-Trichlorobenzene	\$5.0111111111111111111111111111111111111	ug/L	50	EPA 8270
1,2-Dichlorobenzene 1,3-Dichlorobenzene	<5.0	μg/L		EPA 8270
1,3-Dichlorobenzene	3 1-1-1	μg/L	5.0 5.0	EPA 8270
1,4-Dichlorobenzene	<5.0	µg/L		EPA 8270
2.4.5-Trichlorophenol	<5.0	μg/L	5.0	EPA 8270
2,4,6-Trichlorophenol	<5.0	µg/L	5.0	EPA 8270
2.4-Dichlorophenol	<5.0	pg/L	5.0	EPA 8270
2,4-Dimethylphenol	<10	ha/r		EPA 8270
2,4-Dimethylphenol 2,4-Dintrophenol	<25	μg/L	10 25/11/25/11/11/11/11	EPA8270
2,4-Dinitrotoluene	<5.0	μg/L	5.0	EPA 8270
2,6-Dinitrololuene		μg/L	5.0 5.0	EPA 8270
2-Chloronaphthalene 2-Chlorophenol	<5.0	µg/L		EPA 8270
2-Chlorophenol	₹5.0	μg/L	5.0 5.0	EPA 8270
2-Methylnaphthalene 2-Methylphenol	<5.0	μg/L	5.0	EPA 8270
2-Methylphenol	p an a a charache a a a a a a a a a	ug/L		EPA 8270
2-Nitroaniline	<5.0		5.0	EPA 8270
2-Nitrophenol		µg/L Pg/L	5.0	EPA 8270
3,3'-Dichlorobenzidine 3-,4-Methylphenol	<5.0	µg/L	5.0	EPA 8270
3-,4-Methylphenol		μg/L	5.0	EPA 8270
3-Nitroaniline	<10	µg/L	10	EPA 8270
4,6-Dinitro-2-methylphenol	<10	μο/Ι		EPA 8270

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Sample Date/Time 5/18/00 12:05 System ID AE04682 Sample ID LAB000744

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Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

MW4-05180 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS File/Invoice #:

3030.007

SPECIAL WASTE

Sample Type: Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB

5/19/00

GRNDWTR KLEINFELDER

REPORT QUEUE

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS

ANALYSIS.

Test Parameter	Result	Units	MRL	Method
4-Bromophenylphenyl ether	<5.0	µg/L	5.0	EPA 8270
4-Chloro-3-methylphenol	<5.0	EG/L	5.0	EPA 8270
4-Chloroaniline	<20	µg/L	20	EPA 8270
4-chlorophenylphenyl ether	<5.0	pg/L	5.0	EPA 8270
4-Nitroaniline	<10	μg/L	10	EPA 8270
4-Nitrophenol	<25	µg/L	1125	EPA 8270
Acenaphthene	<5.0	µg/L	5.0	EPA 8270
Acenaphthylene	<50	μg/L	5.0	EPA 8270
Anthracene	<5.0	µg/L	5.0	EPA 8270
Benzo(a)anthracene	£5.0	⊬g/E	5011	EPA 8270
Benzo(a)pyrene	<5.0	µg/L	5.0	EPA 8270
Benzo(b)fluoranthene	<5.0	13.46/	50	EPA 8270
Benzo(g,h,i)perylene	<5.0	µg/L	5.0	EPA 8270
Benzo(k)fluoranthene	∠ 5.0	มีที่ ว ู่ได้เป็น	5.011	EPA 8270
Benzoic acid	<50	µg/L	50	EPA 8270
Benzyl alcohol	<10	lig/E	ili ilio ili ili	EPA 8270
Benzyl butyl phthalate	<5.0	μg/L	5.0	EPA 8270
Bis(2-chloroethoxy) methane	10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HS/L		
Bis(2-chloroethyl) ether	<5.0		Hat ber er en en tit ter bit set tit tete liete ift- iff.	EPA 8270
Bis(2-chioroisopropyl) ether		µg/L ₩g/E	5.0 10	EPA 8270
Bis(2-ethylhexyl) phthalate				EPA 8270
Chrysene	<10 <5.0	ug/L Ug/E	10 5 0	EPA 8270
Di-n-butyl phthalate	<5.0			EPA 8270
Di-p-octyl phthalate		µg/L	5.0	EPA 8270
Dibenzo(a,h)anthracene	<5.0	Por	50111	EPA 8270
Dibenzofuran	\$5.0 \$100000000000000000000000000000000000	µg/L	5.0	EPA 8270
Diethyl phthalate	1 + H + H + + H + 1 + 1 + H + H + H + H	Ľg/Ľ		EPA 8270
Dimethy phthalate	<5.0 	µg/L	5.0	EPA 8270
Fluoranthene		μġ/L	11150	EPA 8270
Fluorene	<5.0	µg/L	5.0	EPA 8270
	ii<5.0	₽9/£	5.0	EPA 8270
Hexachlorobenzene	< 5.0	h8/L	5.0	EPA 8270
Hexachlorobutadiene	<10	LB/L	10	EPA 8270

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ANALYSIS.



City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	5/18/00	12:05	System ID	AE04682	Sample ID	LAB000744
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Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND I JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:		L WASTE			Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER

Comments; LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS

Test Parameter	Result	Units	MRL	Method	
Hexachlorocyclopentadiene Hexachloroethane	<10	μg/L	10	EPA 8270	
Hexachloroethane	<10	μο/μ	10	EPA 8270	
Indeno(1,2,3-cd) pyrene	<5.0	µg/L	5.0	EPA 8270	
Transplace and the second seco		µg/L	mini š orums	EPA 8270	
N-Nitroso-di-n-propylamine	<10	µg/L	10	EPA 8270	
N-Nitrosodiphenylamine	<5.0	µg/L	5.0	EPA 8270	
Naphthalene	<5.0	µg/L	5.0	EPA 8270	
Mitrobenzene	K50	μg/L	5.0	EPA 8270	
Pentachlorophenol	<10	µg/L	10	EPA 8270	
Phenanthrene	the second of the second of the second	µg/L	5,0	EPA 8270	
Phenol	<5.0	µg/L µg/L	5.0	EPA 8270	
Pylene appropriate the second of the second	<5.0	µg/L	5.0	EPA 8270	
VOLATILE ORGANIC COMPOUND					
1,1,1,2-Tetrachloroethane	<1.00	µg/L	1.00	EPA 8260B	
1,1,1-Trichloroethane	<1.00	pg/Lucialia	1.00	EPA 8260B	
1,1,2,2-Tetrachloroethane	<1.00	μg/L	1.00	EPA 8260B	
1,1,2-1 richloroethane	**************************************	pg/L	1.00	EPA 8260B	
1,1-Dichloroethane	1.71	µg/L	1.00	EPA 8260B	
1.1-Dichloroethene	<1.00	μο/Ε	1.00	EPA 8260B	
1,1-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B	
1,2,3-Trichlorobenzene	×1.00	i þø⁄Ē	1.00	EPA 8260B	
1,2,3-Trichloropropane	<1.00	µg/L	1.00	EPA 8260B	
1.2.4-Trichlorobenzene	<1.00	₩g/L	1.00	EPA 8260B	
1,2,4-Trimethylbenzene	<1.00	μg/L	1.00	EPA 8260B	
1,2-Dibromo-3-chloropropane	<2.00	hg/L	2,00	EPA 8260B	
1,2-Dibromoethane	<1.00	µg/L	1.00	EPA 8260B	
1.2-Dichlorobenzene	41.00	µg/L	7.00	EPA 8260B	
1,2-Dichloroethane	<1.00	μg/L	1.00	EPA 8260B	
1,2-Dichloropropane	<1.00	pg/J	1,00	EPA 8260B	
1,3,5-Trimethylbenzene	<1.00	µg/L	1.00	EPA 8260B	
13-Dichlorobenzene	<1.00	µg/L	1.00	EPA 8260B	
1,3-Dichloropropane	<1.00	µg/L	1.00	EPA 8260B	

Report Dat





Sample Date/Time	5/18/00	12:05	System ID	AE04682	Sample ID	LAB000744	
	1 - 10-2 P-11		** ***********************************	The second secon	Page;	4	
Proj./Company Name: Address/Location:	10505 N N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.007	WASTE			Sample Type: Sample Matrix: Collected By;	GRAB GRNDWTR KLEINFELDER	

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
14-Dichlorobenzene	7.00	Ug/E	1.00	EPA 8260B
2,2-Dichloropropane	<1.00	µg/L	1.00	EPA 8260B
2-Butanone	<10.0	LIV o vi	10.0	EPA 8260B
2-Chlorotoluene	<1,00	µg/L	1.00	EPA 8260B
2-Hexanone	<10.0	цауL	100	EPA 8260B
4-Chlorotoluene	<1.00	µg/L	1.00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	Lig/L	5.00	EPA 8260B
Acetone	<10.0	µg/L	10.0	EPA 8260B
Benzene	<1.00	pg/L	1.00	EPA 8260B
Bromobenzene	<1.00	µg/L	1.00	EPA 8260B
Bromochloromethane	<1.00	₽ g /L	1.00	EPA 8260B
Bromodichloromethane	<1.00	µg/L	1.00	EPA 8260B
Bramoform	<1.00	μg/L	1.00	EPA 8260B
Bromomethane	<5.00	μg/ L	5.00	EPA 8260B
Carbon disumde	<10.0	Д 9/L	10.0	EPA 8260B
Carbon tetrachloride	<1.00	µg/L	1.00	EPA 8260B
Chlorobenzens	<1.00	цо́/∟	1.00	EPA 8260B
Chloroethane	<1.00	h8/F	1.00	EPA 8260B
Chloroform	<1.00	μg/L:	1.00	EPA 8260B
Chloromethane	<5.00	μg/L	5.00	EPA 8260B
cis-1,2-Dichlordethene	4.82	μg/L	1.00	EPA 8260B
cis-1,3-Dichloropropene	<1.00	μg/L	1.00	EPA 8260B
Dibromochloromethane	≪1.00	μοζΕ	1.00	EPA 8260B
Dibromomethane	<1.00	µg/L	1.00	EPA 8260B
Dichlorodifluoromethane	\$5.00	jig/L	5.00	EPA 8260B
Ethylbenzene	<1,00	µg/L	1.00	EPA 8260B
Hexachloroputadiene	<2.00	μg/	2.00	EPA 8260B
Isopropylbenzene	<1.00	µg/L	1.00	EPA 8260B
m,p-Xylene	<2.00	μg/L	2.00	EPA 8260B
Methylene chloride	<5.00	µg/L	5.00	EPA 8260B
n-Bulylbenzene	<1.00	μ g /L	1:00	EPA 8260B
n-Propylbenzene	<1.00	µg/L	1.00	EPA 8260B

Re

6543 N, Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656





Sample Date/Time	5/18/00	12:05	System ID	AE04682	Sample ID	LAB000744
			T Tomas Spring Control		Page:	5
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:		L WASTE			Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
Naphthalene	2.00 11:11		1100	EPA 8260B
o-Xylene	<1.00	µg/L	1.00	EPA 8260B
p-Isopropyltoluene	<1.00		1.00	EPA 8260B
sec-Butylbenzene	<1.00	µg/L	1.00	EPA 8260B
Styrene	<1.00	jø/L	1.00	EPA 8260B
tert-Butylbenzene	<1.00	µg/L	1.00	EPA 8260B
Tetrachloroethene	<1.00		4.00	EPA 8260B
Toluene	<1.00	ug/L	1.00	EPA 8260B
trans-1,2-Dichloroethene	<1.00	ig/L∷	1 00	ERA 8260B
trans-1,3-Dichloropropene	<1.00	μg/L	1.00	EPA 8260B
Trichloroethene	<1.00	μο/L	1.00	EPA 8260B
Trichlorofluoromethane	<1.00	µg/L	1.00	EPA 8260B
Vinyl chloride	<1.00	μ <u>σ</u> /Ι	3.66	EPA 8260B

End of Report for Sample ID: LAB000744





KLEINFELDER

Collected By:

Sample Date/Time	5/18/00	13:05	System ID	AE04683	Sample ID	LAB000745
		**************************************	WARRAN,	o-control of the second	Page:	1
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.007				Sample Type; Sample Matrix: Collected By:	GRAB GRNDWTR KLEINEELDER

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	0.062	mg/L	0.01	EPA 200.8
BARUM	0.062	róg/L	0.01	EPA 200.7
CADMIUM	<0.030	mg/L	0.03	EPA 200.7
CHROMIUM	0.20	mg/L	0.03	EPA 200.7
LEAD	0.44	mo/L		EPA 200.7
MERCURY	0.0005	li i i mž/Liesti.	0.1 0.0002	EPA 245 1
SELENIUM	<0.01	mg/L	0.01	EPA 200.8
SILVER	<0.010	mg/L	0.01	EPA 200.7
SEMI-VOLATILE ORGANICS				0 Fate
1,2,4-Trichlorobenzene	<5.0	µg/L	5.0	EPA 8270
1,2-Dichlorobenzene	<5,0	μg/L	50	EPA 8270
1,3-Dichlorobenzene	<5.0	µg/L	5.0	EPA 8270
1.4 Dichlorobenzene	<5.0	ha/F	5.0 5.0	EPA 8270
2,4.5-Trichlorophenol	<5.0	µg/L		EPA 8270
2,4,6-Trichlorophenol	##### \\$ 0	μg/L	5.0 5.0	EPA 8270
2,4-Dichlorophenol	<5.0	µg/L	5.0	EPA 8270
2.4-Dimethylphenol	<10	49/	10	EPA 8270
2,4-Dinitrotoluene	<25 5:0 4	µg/L	25	EPA 8270
2;4-Dinitrotoluene		Hg/L	::::: ::::: ::::::::::::::::::::::::::	EPA 8270
2,6-Dinitrotoluene	<5.0	µg/L	5.0	EPA 8270
2-Chloronaphthalene		µg/L	5.0	EPA 8270
2-Chlorophenol	<5.0 ₹5.0	µg/L	5.0	EPA 8270
2-Methylhaphthalene	5.0	μg/L	5,0	EPA 8270
2-Methylphenol	<10	µg/L	10	EPA 8270
2-Nitroanline	<5.0	µg/L	5,0	EPA 8270
2-Nitrophenol	<5.0	µg/L	5.0	EPA 8270
3,35Dichlorobenzidine	~ 50	µg/L	5.0	EPA 8270
3-,4-Methylphenol 3-Nitroaniine	<5.0			EPA 8270
3-Nitroaniline	50.000 C.	ug/L Lg/L	5.0 11 1004111111	EPA 8270
4,6-Dinitro-2-methylphenol	<10	µg/L	10	EPA 8270

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Sample Date/Time 5/18/00 13:05 System ID AE04683 Sample ID LAB000745

Page:

2

Proj./Company Name: LARSON PROPERTY

Date Received:

5/19/00

Address/Location:

10505 N NORTH PORTLAND RD

MW5-05180 PROJECT 6064

Sample Status:

REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code: IMS File/Involce #:

0 3030.007

Sample Matrix: Collected By:

GRNDWTR KLEINFELDER

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS

ANALYSIS.

Test Parameter	Result	Units	MRL	Method
4-Bromophenylphenyl ether	5:0::::		5.0	Refit of the antiquent of the following
4-Chloro-3-methylphenol	< 5.0	h8/F	5.0	EPA 8270 EPA 8270
4-Chloroaniline	<20	Line US Line of the	20141	EPA 8270
4-chlorophenylphenyl ether	<5.0	ha/r	5.0	EPA 8270
4-Niroanline				EPA 3270
4-Nitrophenol	<25	µg/L	25	EPA 8270
Acenaohthene	\$5.0 P		S. S	EEA 8270
Acenaphthylene	<5.0	ha/F	5.0	EPA 8270
-Anthracene	<5.0	LeyLand Comment	50	EPA 8270
Benzo(a)anthracene	<5.0	µg/L	5.0	EPA 8270
- Delizu(a)pyrene	TO A STATE OF THE	Po/L	5.0	EPA 8270
Benzo(b)fluoranthene	<5.0	µg/L	5,0	EPA 8270
Benzo(g/h.) perylene	₹5.0	μg/L	50	ERA 8270
Benzo(k)fluoranthene	<5.0	ug/L	5.0	EPA 8270
Benzoic acid	100 100 100 100 100 100 100 100 100 100	Developing the second	50	EPA 8270
Benzyl alcohol	<10	ug/L	10	EPA 8270
Benzyi butyi phthalate			5.0	EPA 8270
Bis(2-chiloroethoxy) methane Bis(2-chiloroethyl) ether	<10	Hg/L	10	EPA 8270
Bis(2-chloroethyl) ether 11	\$50 TURN	ug/L	50	EPA 8270
Bis(2-chloroisopropyl) ether	<10 0</td <td>µg/L</td> <td>10</td> <td>EPA 8270</td>	µg/L	10	EPA 8270
Bis(2-ethylhexyl) phthalate	The state of the s	Lay	Charles Anna Calabara	EPA 8270
Chrysene	<5.0	ug/L	5.0	EPA 8270
Drabuty primatare	5. 0	19/1	5.0	EPA 8270
Di-n-octyl phthalate	<5.0	µg/L	5.0	EPA 8270
Dibenzo(a h)anthracena	**************************************	Marin Parkers	5.0	EPA 8270
Dibenzofuran	< 5.0	µg/L	5.0	EPA 8270
Dietnyl phthalate	\$50		60	EPA 8270
Dimethyl phthalate	<5.0	ug/L	5.0	EPA 8270
Fluorenthehe	100 1350 1711	μg/L	9999 5.0	EPA 8270
Fluorene	<5.0	µg/L	5.0	EPA 8270
Hexachlerobenzene		μβ/Ε	5.0	100 EFA 8270
Hexachlorobutadiene	<10	µg/L	10	EPA 8270

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Sample Date/Time	5/18/00	13:05	System ID	AE04683	Sample ID	LAB000745
The state of the s	-		TO TOTAL STREET		Page:	3
Proj./Company Name Address/Location:	10505 N	NORTH I	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.007	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
Hexachldrocyclopentadiene		u parenta de la companya de la comp	1111110	EPA 8270
Hexachloroethane	<10	µg/L	10	EPA 8270
Indeno(1,2,3-cd) pyrene	<5.0	μg/L	5.013	EPA 8270
Isophorone	<5.0	µg/L	5,0	EPA 8270
N-Nitroso-di-n-propylamine	40	μg/L	10	EPA 8270
N-Nitrosodiphenylamine	<5.0	µg/L	5.0	EPA 8270
Naphthalene	<5,0	μg/L	5.0	EPA 8270
Nitrobenzene	<5.0	µg/L	5.0	EPA 8270
Pentachlorophenol :	40	μg/L	40	EPA 8270
Phenanthrene	<5.0	µg/L	5,0	EPA 8270
Phending to the north that the street of the	5.0	Hg/L	5.0	EPA 8270
Pyrene	<5.0	µg/L	5.0	EPA 8270
VOLATILE ORGANIC COMPOUND	S 			200
1,1112-Tetrachloroethane	2 11 11 11 11 11 11 11 11 11 11 11 11 11	H8/L	1.00	EPA 8260B
1,1,1-Trichloroethane	<1.00	μg/L	1.00	EPA 8260B
1,1,2,2 etrachloroethane	1:00 S.F.	ug/L	1.00	EPA 8260B
1,1,2-Trichloroethane	<1.00	μg/L μg/L	1.00	EPA 8260B
Pichloroethane	\$1.00	Lo/L	1.00	EPA 8260B
1,1-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B
t-1-Dichloropropene	£1.00	שמים	700	EPA 8260B
1,2,3-Trichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
123 Trichloropropane	21.00	POA PROPERTY	1.00	EPA 8260B
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	<1.00	μg/L	1.00	EPA 8260B
1924-Inmethylbenzere	888 - 3 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	L LOCE	100	EPA 8260B
1,2-Dibromo-3-chloropropane	<2.00	µg/L	2.00	EPA 8260B
	≈1.00	Portal Personal Personal Property	1.00	EPA 8260B
1,2-Dichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
12-Dichloroethane	100	A PART OF THE PROPERTY OF THE	1.00	EPA 8260B
1,2-Dichloropropane	<1.00	μg/L	1.00	EPA 8260B
1,3.5-Trimethylbenzene		Hg/Limit Committee	1.00	EPA 8260B
1,3-Dichlorobenzene	<1.00	μg/L	1.00	EPA 8260B
1.3-Dichloropropane	<1.00	Leg/Leg/Leg/Leg/Leg/Leg/Leg/Leg/Leg/Leg/	00 1	EPA 8260B





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Sample Date/Time 5/18/00 13:05 System ID AE04683 Sample ID LAB000745

Page:

5/19/00

Address/Location:

Proj./Company Name: LARSON PROPERTY 10505 N NORTH PORTLAND RD

MW5-05180 PROJECT 6064

Date Received: Sample Status:

REPORT QUEUE

Proj Subcategory:

SPECIAL WASTE

Sample Type:

GRAB

Sample Point Code: IMS File/Invoice #;

0 3030.007

Sample Matrix:

GRNDWTR KLEINFELDER

Collected By: Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS

ANALYSIS.

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
2.2 Dichloropropane	<1.00	µg/L	1.00	EPA 8260B
2-Butanone	<10.0	μg/L	10.0	EPA 8260B
2 Chlorofoluene	1.00	⊬g/L	1.00	EPA 8260B
2-Hexanone	<10.0	µg/L	10.0	EPA 8260B
4-Chlorotoluene	<1.00	μg/L	1.00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	µg/L	5.00	EPA 8260B
Acetone Benzene	<10.0	H9/L	100	EPA 82608
Bromobenzene	<1.00	µg/L	1.00	EPA 8260B
Bromochloromethane	<1.00 ×1.00	LIP HOLL	1.00	EPA 8260B
Bromodichlo omethane	<1.00	μg/L	1.00	EPA 8260B
Bromoform		На/Е	1.00	EPA 8260B
Bromomethane	<1.00	µg/L	1.00	EPA 8260B
Carbon disulfide	₹5,00		5.00	EPA-8260B
Garbon tetrachloride	<10.0 <1.00	hg/L	10.0	EPA 8260B
Chlorobenzene		hg/F	1.00	EPA 8260B
Chlorethane	<1.00 <1.00	µg/L	1.00	EPA 8260B
Chloroform	<1.00	Pg/L	1,00	EPA 8260B
Chloromethane	500	μg/L	1.00 5.00	EPA 8260B
cis-1,2-Dichloroethene	<1.00	Pg/C		EPA 8260B
cis-1.3-Dichloropropene	4.00	µg/L	1.00 1.00	EPA 8260B
Dibromochlommethane	<1.00	POL		EPA 8260B
Dibramomethane	225152525500000000000000000000000000000	µg/∟	1.00	EPA 8260B
Dichlorodifluoromethane	< 5.00	psylmona	1.00 mg/mg/	EPA 8260B
Dichlorodifluoromethane Ethylbenzene		µg/L	5.00	EPA 8260B
Hexachlorobutadiene	<2.00			EPA 8260B
Sopropylbenzene	2.00 \$1.00	ug/L	2.00	EPA 8260B
m,p-Xylene	<2.00		2.00	EPA 8260B
Methylene chloride	5.00	µg/L	2.00 5.00	EPA 8260B
n-Butylbenzene n-Propylbenzene	<1.00	µg/L µg/L	1.00	EPA 8260B EPA 8260B
TOTAL PROBULE THE PROBULE OF THE PROPERTY OF T		namanan manan manan ka	1.00	EPA 8260B

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Sample Date/Time	5/18/00	13:05	System ID	AE04683	Sample ID	LAB000745
THE HADDING STREET			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·	Page:	5
Proj./Company Name Address/Location:	10505 N	NORTH	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:		L WASTE			Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
Naphthalene	<1.00	μg/L	1.00	EPA 8260B
o-xylene	<1.00	μg/E	1.00	EPA 8260B
p-Isopropyltoluene	<1.00	µg/L	1.00	EPA 8260B
sec-Butylbenzene	<1.00	Hg/L	1.00	EPA 8260B
Styrene	<1.00	µg/L	1.00	EPA 8260B
tert-Butylbenzene	<1.00	µg/L	1100	EPA 8260B
Tetrachloroethene	<1.00	µg/L	1.00	EPA 8260B
olienė, iki primininkas para salaininkas para salaininkas para salaininkas para salaininkas para salaininkas p	<1.00	þg/L	1,00	EPA 8260B
trans-1,2-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B
trans=1.3-Dichloropropene	<1.00	ug/L	1.00	EPA 8260B
Trichloroethene	<1.00	µg/L	1.00	EPA 8260B
Trichlorofluoromethane	5 mirrer 21 00 135 1	₩g/E	1.00	EPA 8260B
Vinyl chloride	<1.00	µg/L	1.00	EPA 8260B

End of Report for Sample ID: LAB000745







Sample Date/Time 5/18/00 Sample ID LAB000746 14:15 System ID AE04684

Page:

Proj./Company Name: LARSON PROPERTY Date Received:

Address/Location: 10505 N NORTH PORTLAND RD

MW6-05180 PROJECT 6064

Proj Subcategory:

Sample Point Code:

IMS FIle/Invoice #: 3030.007

SPECIAL WASTE

Sample Type:

Sample Matrix: Collected By:

Sample Status:

GRAB

5/19/00

GRNDWTR KLEINFELDER

REPORT QUEUE

Comments; LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
METALS				
ARSENIC	0.021	mg/L	0.01	EPA 2008
BARIUM	0.59	mg/L	0.01	EPA 200.7
CADMIUM	~0.030	mg/L	0.03	EPA 200.7
CHROMIUM	0.032	mg/L	0.03	EPA 200.7
EAD	<0.100	mg/L		EPA 200.7
MERCURY	<0.0002	mg/L	0.0002	EPA 245.1
SELENIUM		mg/L	0.0002 0.01	EPA 2008
SILVER	<0.010	mg/L	0.01	EPA 200.7
SEMI-VOLATILE ORGANICS			777	
1.2.4-Trichlorobenzene	<5.0	μg/L	5.0	EPA 8270
1.2-Dichlorobenzene	<50	µg/L	5.0	FPA 8270
1,3-Dichlorobenzene	<5.0	/ Po/L		EPA 8270
1,4-Dichlorobenzene	<5.0	µg/L	5.0 5.0	EPA 8270
2,4,5-Trichlorophenol		μg/L μg/L	5,0	EPA 8270
2,4,6-Trichlorophenol	<5.0 ≼5.0	µg/L	5.0	EPA 8270
2,4-Dichlorophenol	5.0	₽g/E	man and the second seco	EPA 8270
2,4-Dimethylphenol		µg/L	10	EPA 8270
2.4-Dinitrophenol	<10 ★25	Hg/L	25	EPA 8270
2,4-Dinitrotoluene 2,6-Dinitrotoluene	<5.0	µg/L	10 25 5.0 5.0	EPA 8270
2,6-Dinitrotoluene	50	He/L	5.0	EPA 8270
2-Chlorophenol	<5.0	μg/L	5.0	EPA 8270
2-Chlorophenol	<5.0	pg/L	5.0	EPA 8270
2-Methylnaphthalene 2-Methylphenot	<5.0	ug/l	5.0	EPA 8270
2-Methylphenal			10111111111	EPA 8270
2-Nitroaniline	<5.0	ua/L	5.0	EPA 8270
2 Nitrophenol	¥5:01145 man	us/L	5.0 50	EPA-8270
3,3'-Dichlorobenzidine 3-4-Methylpheno	<5.0	µg/L	5.0	EPA 8270
3-4-Methylphenol		Manua 1976		EPA 8270
			manuscramer pragaret graneticks believed de l'artificit de l'artificit et	
3-Nitroaniline 4:6-Dinitro-2-methylphenol	THE REPORT OF THE PARTY OF THE		10 	PARZO

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656





Sample Date/Time 5/18/00 14:15 System ID AE04684 Sample ID LAB000746 Page: 2

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

MW6-05180 PROJECT 6064

Proj Subcategory:

SPECIAL WASTE

Sample Point Code: IMS File/Invoice #:

0

3030.007

Sample Type: Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB

5/19/00

GRNDWTR KLEINFELDER

REPORT QUEUE

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
4-Bromophenylphenyl ether	<5.0	μg/L	5,0	EPA 8270
4-Chloro-3-methylphenol	\$5.0	H9/L	5.0	EPA 8270
4-Chloroaniline	<20	µg/L	20	EPA 8270
4-chlorophenylphenyl ether	<50	μg/L	50	EPA 8270
4-Nitroaniline	<10	µg/L	10	EPA 8270
4-Nitrophenol	1111111111111111111111111111111111111	µg/L	25	EPA 8270
Acenaphthene	<5.0	µg/L	5.0	EPA 8270
Acenaphthylene	<5 0	₽g/L	5.0	EPA 8270
Anthracene	<5.0	µg/L	5.0	EPA 8270
Benzo(a)anthraceле	<5.0	μg/L	50	EPA 8270
Benzo(a)pyrene	<5.0	µg/L	5.0	EPA 8270
Benzo(b)fluoranthene	×50	Yg/L	5.0	EPA 8270
Benzo(g,h,i)perylene	<5.0	µg/L	5.0	EPA 8270
Benzo(k)fluoranthene	55.0	Mar Wg/L	5.0	EPA 8270
Benzoic acid	<50	µg/L	50	EPA 8270
Benzyl alcohol	~40 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	ug/L	10	EPA 8270
Benzyl butyl phthalate	<5.0	uo/L	5.0	EPA 8270
Bis(2-chloroethoxy) methane		TOP POPER TO	10	EPA 8270
Bis(2-chloroethyl) ether	<5.0	µg/L	5.0	EPA 8270
Bis(2-chlord)sopropy() ether	accessors and the	ug/L		EPA 8270
Bis(2-ethylhexyl) phthalate	<10	µg/L	10	EPA 8270
Chrysene	45 0	LL pg/L	5.6	EPA 8270
Di-n-butyl phthalate	<5.0	µg/L	5.0	EPA 8270
Di-n-octyl phthalate	35.0	űg/L	50	EPA 8270
Dibenzo(a,h)anthracene	<5.0	ha/r	5.0	EPA 8270
Diperizoruran	≤5.0	A Land Land	50	EPA 8270
Diethyl phthalate	<5.0	µg/L	5.0	EPA 8270
Dimethyl phthalate	5.0	μğÆ	60	EPA 8270
Fluorene	<5.0	H9/L	5.0	EPA 8270
Fuorene	<5.0	V g/L	50	EPA 8270
Hexachlorobenzene	<5.0	μg/L	5.0	EPA 8270
Hexachlorobutadiene	OFFICE		parata a marana a mar	EPA 8270

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3

Sample Date/Time 5/18/00 Sample ID LAB000746 14:15 System ID AE04684

Page:

Proj./Company Name: LARSON PROPERTY

Address/Location:

10505 N NORTH PORTLAND RD

MW6-05180 PROJECT 6064

SPECIAL WASTE

Proj Subcategory: Sample Point Code:

IMS File/Invoice #: 3030,007

Sample Type:

Sample Matrix: Collected By:

Date Received:

Sample Status:

GRAB

5/19/00

GRNDWTR KLEINFELDER

REPORT QUEUE

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS

ANALYSIS.

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<10	µg/L	10	EPA 8270
Hexachloroethane	<10	μg/L	0.000	EPA 8270
Indeno(1,2,3-cd) pyrene	<5.0	µg/L	5.0	EPA 8270
Isophorone	<5.0	μg/L	5.0	EPA 8270
N-Nitroso-di-n-propylamine	<10	µg/L	10	EPA 8270
N-Nitrosodiphenylamine	504	µg/L.	50	EPA 8270
Naphthalene	<5.0	μg/L	5.0	EPA 8270
Nitrobenzene	₹5.0	Pg/L	5.0	EPA 8270
Pentachlorophenol	<10	µg/L	10	EPA 8270
Phenanthrene	10000000000000000000000000000000000000	HO/E	5.0	EPA 8270
Phenol	<5.0	μg/L	5.0	EPA 8270
Pyrene	<5.0	18/4	5.0	EPA 8270
VOLATILE ORGANIC COMPOUND	S	to Some on additional	manufacture (Politic 10 7)	A service trade at the trade of the financial of the fina
1,1,1,2-Tetrachloroethane	<1.00	µg/L	1.00	EPA 8260B
1.1.1-Irichloroethane	<1.00	ug/L	100	EPA 8260B
1,1,2,2-Tetrachloroethane	<1.00	hg/L	1.00	EPA 8260B
1,1,2-Trichloroethane	##### ###	μg/L	1.00	EPA 8260B
1,1-Dichloroethane	<1.00	IIO/l	1.00	EPA 8260B
1.1-Dichloroethene	<1.00	PPP Pa/Etters	1.00	EPA 8260B
1,1-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B
1,2,3-Trichlorobenzene	<1.00	μg/L	4.00	EPA 8260B
1,2,3-Trichloropropane	<1.00	µg/L	1.00	EPA 8260B
12,4-Trichlorobenzene	<1.00	μg/L	1.00	EPA 8260B
1,2,4-Trimethylbenzene	<1.00	µg/L	1.00	EPA 8260B
2-Dibromo 3-chloropropane		ug/L	2.00	EPA 8260B
1,2-Dibromoethane		µg/L	1.00	EPA 8260B
1.2 Dichlorobenzene	<1.00			EPA 8280B
1.2-Dichloroethane	<1.00	hg/r	1.00	EPA 8260B
2 Dichioropropane	<1.00		a a a a a a a a a a a a a a a a a a a	EPA 8260B
1,3,5-Trimethylbenzene	<1.00	µg/L	1.00	EPA 8260B
13-Dichlorobenzene	1.00 mm			EPA 8260B
1,3-Dichloropropane	<1.00	μg/L	1.00	EPA 8260B

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Sample Date/Time	5/18/00	14:15	System ID	AE04684	Sample ID	LAB000746
		THE PERSONNEL CO.		***	Page:	4
Proj./Company Name Address/Location:	10505 N	NORTH I	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #;	SPECIAL 0 3030.007				Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER

Comments: LAB: THE METHOD-SPECIFIED HOLDING TIME WAS EXCEEDED BY ONE DAY FOR VOLATILE ORGANICS ANALYSIS.

Test Parameter	Result	Units	MRL	Method
1.4-Dichlorobenzene	31.00	Pg/L	451-724-00-731-73	EPA 8260B
2,2-Dichloropropane	<1.00	µg/L	1.00	EPA 8260B
2-Butanone	<10.0	Light Transfer	10.0	EPA 8260B
2-Chlorotoluene	<1.00	μg/L	1.00	EPA 8260B
2-Hexanone	<10.0	pg/E	100	EPA 8260B
4-Chlorotoluane	<1.00	h a /r	1.00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	Цg/L	5.00	EPA 8260B
Acetone	<10.0	µg/L	10.0	EPA 8260B
	<1.00	µg/L	1.00	EPA 8260B
Bromobenzene	<1.00	µg/L	1.00	EPA 8260B
Bromochloromethane	<1.00	pg/E	1.00	EPA 8260B
Bromodichloromethane	<1.00	µg/L	1.00	EPA 8260B
Bromeform	<1.00 · · · · · · · · · · · · · · · · · ·	Land Ug/Production	1.00	EPA 8260B
Bromomethane	< 5.00	ug/L	5.00	EPA 8260B
Carbon disunde			10'0	EPA 8260B
Carbon tetrachloride	<1.00	hg/L	1.00	EPA 8260B
- Unioropenzene	\$1.00 FEE	Jg/L	700	EPA 82608
Chloroethane	<1.00	µg/L	1.00	EPA 8260B
Chleroform		Hg/L		EPA 8260B
Chloromethane	<5.00	μg/L	5.00	EPA 8260B
cis i 2 Dichioroethene	1.00° E	Jøl	1100	EPA8260B
cis-1,3-Dichloropropene	<1.00	Hg/L	1.00	EPA 8260B
Diblomochloromethane	4166	TENEDRAL STREET	1.00	EPA 8260B
Dibromomethane	<1.00	µg/L	1.00	EPA 8260B
Dichlorodilluoromelhane	<500	Hg/L	500	EPA 82608
Ethylbenzene	<1.00	µg/L	1.00	EPA 8260B
Hexachlorobutadiene	<200	POL	2.00	EPA 8260B
sopropylbenzene m.p. xylene	<1.00	µg/L	1.00	EPA 8260B
m.p.xylene	2.00	Ne/L	200	EPA 8260B
Methylene chloride	<5.00	μg/L	5.00	EPA 8260B
n Butyibenzane	<1.00	Land US/Land Comment	100	EPA 82608
n-Propylbenzene	<1.00	μg/L	1.00	EPA 8260B

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Sample Date/Time	5/18/00	14:15	System ID	AE04684	Sample ID	LAB000746
B				1000	Page:	5
Proj./Company Name Address/Location:	10505 N	NORTH I	RTY PORTLAND F JECT 6064	RD	Date Received: Sample Status:	5/19/00 REPORT QUEUE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL 0 3030.007	WASTE			Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR KLEINFELDER
Comments: LAB: THE I	METHOD-SP	CIFIED HO	DLDING TIME W	AS EXCEEDED	BY ONE DAY FOR VO	DLATILE ORGANICS

Test Parameter	Result	Units	MRL	Method
Naphthalene	25 mars 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ere samplyere brook		Garaga and and an annual a
o-Xylene	* * * * * * * * * * * * * * * * * * *			EPA 8260B
p-isopropyiloluene	<1.00	µg/L	1.00	EPA 8260B
	£1.00	hg/F	1.00	EPA 8260B
sec-Butylbenzene	<1.00	µg/L	1.00	EPA 8260B
Styrene	<1.00	ilid/E	institution entre	The state of the left and the form of the property of the state of the
tert-Butylbenzene	<1.00	the han market about mark . Early and	1.00	EPA/8260B
Tetrachloroethene	<1.00	µg/L	1.00	EPA 8260B
Toluene	some steer constitute, to display and the first property of the property of th	μg/L	1.00	EPA 82608
	<1.00	µg/L	1.00	EPA 8260B
trans-1,2-Dichloroethene	<1.00	pg/L	100	EPA 8260B
trans-1,3-Dichloropropene	<1.00	µg/L	1.00	the state of the s
Trichloroethene	21 00	Avin a land her business	and The Sole's Diete a management	EPA 8260B
Trichlorofluoromethane	a reger an error round by W. W. Derkin and	ELTER POPELITE	1.00	EPA 8260B
Minyl chloride	<1.00	Hg/L	1.00	EPA 8260B
and the new tarks the triangle of the state	<1.00	µg/L	1.00	EPA 8260B

End of Report for Sample ID: LAB000746

	PROJECT NO.		10505 N Portla	nd Road	NO.	TYPE	/	6	1/2	10 S	sheet 1 of
	L.P. NO. (P.O. NO.	SAMPLERS: (Dawid	Signature/Number		OF	OF	30 /			\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	City of Parblano
	DATE MM/DD/YY	SAMPLE I,D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	CON- TAINERS	CON- TAINERS	3/3/	100			// MSTROCTIONS REMARKS
	5/17/00	0845	TP-1-7'	Soil	4	4	X	X	X	7 1	TLAB 000697 ——
	× .	0900	TP-1-19'		4	4	X	X	X		LAB 000698
	- 31/ - 21	0925	TP-Z-8'		Ų	4	X	X	X		LAB 000699
		0940	TP-2-19'		4	4	X	X	X		LAB 000700
		1010	TP-3-10'		1	4	X	X	X		LAB 000701
		1025	T1-3-21			4	X	X	X		LAB 000702
		1045	TP-4-11'			4	X	X	X		LAB 000703
		1050	TP-4-21'			4	X	X	X		LAR MM7M
		1115	TP-5-11'			4	X	X	X		I AR 000705
		1145	TP-5-21'		(4	X	X	X		LAB 000706
		1280	TP-6-5'		Sa	4	X	X	人	100 110 7	LAB 000707
	4	1215	TP-6-13'		0	4	X	X	X		LAB 000708
		1250	TP-7-51		0	4	X	X	X		LAB 000709
		1300	TP-7-17'		7	4	X	X	乂		LAB 000710
		1385	TP-8-5'		1	4	1	X	人		LAB 000711
		1405	TP-8-19'			4	X	X	人		LAB 000712
		1430	TP-9-5'			4	X	X	X		LAB 000713
	-1-1	1435	Tr-9-11'			4	X	X	X		LAB 000714
	1,	1500	TPP-10-10'			4	X	X	X		LAB 000715
,	V	1505	TP-10-16'	Ψ	V	4	14	X	X		LAB 000716
,	lelinguished by: (0	5/17/00 10750 B	E (Signature)	le.	- 11	Instructions/Remar	ks:	_		Genu resuns ru.
	Relinquished by: (selved for Laboratory		7)					KLEINFELDER 15050 S.W. KOLL PARKWAY SUITE L BEAVERTON, OR 97006 (503) 644-9447
4		3 3			7. 12. g. 18. U	7					Attn: John Day

0832 IN =





GRNDWTR

DL

Sample Matrix:

Collected By:

Sample Date/Time 05/17/2000 12:20 System ID AE04631 Sample ID LAB000720 Page: Proj./Company Name: SPECIAL WASTE MISC SAMP Date Received: 05/19/2000 Address/Location: 10505 N NORTH PORTLAND RD Sample Status: INACTIVE TP-6 PROJECT 6064 SPECIAL WASTE Sample Type: GRAB

Proj Subcategory: Sample Point Code:

IMS File/Invoice #: 3030,000

Comments:

Test Parameter	Result	Units	MRL	Method	
METALS					
ARSENIC, DISSOLVED	0.058	mg/L	0.01	EPA 200.8	
BARIUM, DISSOLVED	0.019	mg/L	0.01	EPA 200.7	100
CADMIUM, DISSOLVED	< 0.030	mg/L	0.03	EPA 200.7	
CHROMIUM, DISSOLVED	<0.030	mg/L	0.03	EPA 200.7	100
LEAD, DISSOLVED	< 0.100	mg/L	0.01	EPA 200.7	
MERCURY, DISSOLVED	<0.0002	mg/L	0.0002	EPA 245.1	
SELENIUM, DISSOLVED	< 0.01	mg/L	0.01	EPA 200.8	
SILVER, DISSOLVED	< 0.010	rng/L	0.01	EPA 200.7	
SEMI-VOLATILE ORGANICS		7.73	7,4.	2177200.7	
1,2,4-Trichlorobenzene	<10	μg/L	10	EPA 8270	
1,2-Dichlorobenzene	<10	µg/L	10	EPA 8270	C 1
1,3-Dichlorobenzene	<10	µg/L	10	EPA 8270	
1,4-Dichlorobenzene	<10	µg/L	10	EPA 8270	
2,4,5-Trichlorophenol	<10	µg/L	10	EPA 8270	
2,4,6-Trichlorophenol	<10	µg/L	10	EPA 8270	
2,4-Dichlorophenol	<10	µg/L	10	EPA 8270	
2,4-Dimethylphenol	<10	µg/L	20	EPA 8270	
2,4-Dinitrophenol	<50	µg/L	50	EPA 8270	
2,4-Dinitrotoluene	<10	μg/L	10	EPA 8270	1.5
2,6-Dinitrotoluene	<10	µg/L	10	EPA 8270	
2-Chloronaphthalene	<10	µg/L	10	EPA 8270	
2-Chlorophenol	<10	µg/L	10	EPA 8270	
2-Methylnaphthalene	14.7	μg/L	10	EPA 8270	
2-Methylphenol	<20	µg/L	20	EPA 8270	
2-Nitroaniline	<10	μg/L	10	EPA 8270	H 300
2-Nitrophenol	<10	μg/L	10	EPA 8270	
3,3'-Dichlorobenzidine	<10	µg/L	10	EPA 8270	
3-,4-Methylphenol	10.1	µg/L	10	EPA 8270	
3-Nitroanlline	<20	µg/L	20	EPA 8270	
4,6-Dinitro-2-methylphenol	<20	µg/L	20	EPA 8270	

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Comments:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	05/17/2000 12:20 System ID AE04631	Sample ID	LAB000720
		Page:	2
Proj./Company Name: Address/Location:	SPECIAL WASTE MISC SAMP 10505 N NORTH PORTLAND RD TP-6 PROJECT 6064	Date Received: Sample Status:	05/19/2000 INACTIVE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR DL

Test Parameter	Result	Units	MRL	Method
4-Bromophenylphenyl ether	<10	μg/L	10	EPA 8270
4-Chloro-3-methylphenol	<10	µg/L	10	EPA 8270
4-Chloroaniline	<40	µg/L	40	EPA 8270
4-chlorophenylphenyl ether	<10	µg/L	10	EPA 8270
4-Nitroaniline	<20	μg/L	20	EPA 8270
4-Nitrophenol	<50	µg/L	50	EPA 8270
Acenaphthene	10.5	μg/L	10	EPA 8270
Acenaphthylene	<10	μg/L	10	EPA 8270
Anthracene	11.3	µg/L	1.0	EPA 8270
Benzo(a)anthracene	<10	µg/L	10	EPA 8270
Benzo(a)pyrene	<10	µg/L	10	EPA 8270
Benzo(b)fluoranthene	<10	µg/L	10	EPA 8270
Benzo(g,h,i)perylene	<10	μg/L	10	EPA 8270
Benzo(k)fluoranthene	<10	μg/L	10	EPA 8270
Benzoic acid	<10	µg/L	10	EPA 8270
Benzyl alcohol	<20	µg/L	20	EPA 8270
Benzyl butyl phthalate	<10	μg/L	10	EPA 8270
Bis(2-chloroethoxy) methane	<20	µg/L	20	EPA 8270
Bis(2-chloroethyl) ether	<10	µg/L	10	EPA 8270
Bis(2-chloroisopropyl) ether	<20	μg/L	20	EPA 8270
Bis(2-ethylhexyl) phthalate	63.7	µg/L	40	EPA 8270
Chrysene	<10	μg/L	10	EPA 8270
Di-n-butyl phthalate	<10	µg/L	10	EPA 8270
Di-n-octyl phthalate	<10	µg/L	10	EPA 8270
Dibenzo(a,h)anthracene	<10	µg/L	10	EPA 8270
Dibenzofuran	<10	µg/L	10	EPA 8270
Diethyl phthalate	<10	µg/L	10	EPA 8270
Dimethyl phthalate	<10	µg/L	10	EPA 8270
Fluoranthene	16.6	µg/L	10	EPA 8270
Fluorene	<10	µg/L	10	EPA 8270
Hexachlorobenzene	<10	μg/L	10	EPA 8270
Hexachlorobutadiene	<20	µg/L	20	EPA 8270

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Sample Date/Time 05/17/2000 12:20 System ID AE04631 Sample ID LAB000720

> Page: 3

Proj/Company Name: SPECIAL WASTE MISC SAMP

Address/Location: 10505 N NORTH PORTLAND RD

TP-6 PROJECT 6064

SPECIAL WASTE

Proj Subcategory: Sample Point Code:

IMS File/Invoice #:

3030.000

Sample Type: Sample Matrix:

Date Received:

Sample Status:

GRAB GRNDWTR

05/19/2000

INACTIVE

Collected By: DL

Comments:

Test Parameter	Result	Units	MRL	Method
Hexachlorocyclopentadiene	<20	µg/L	20	EPA 8270
Hexachloroethane	<20	µg/L	20	EPA 8270
Indeno(1,2,3-cd) pyrene	<10	µg/L	10	EPA 8270
Isophorone	<10	µg/L	10	EPA 8270
N-Nitroso-di-n-propylamine	<20	µg/L	20	EPA 8270
N-Nitrosodiphenylamine	<10	µg/L	10	EPA 8270
Naphthalene	23.3	µg/L	10	EPA 8270
Nitrobenzene	<10	μg/L	10	EPA 8270
Pentachlorophenol	<20	µg/L	20	EPA 8270
Phenanthrene	34.0	µg/L	10	EPA 8270
Phenol	67.1	µg/L	10	EPA 8270
Pyrene	15.3	µg/L	10	EPA 8270
VOLATILE ORGANIC COMPOUNDS				
1,1.1,2-Tetrachloroethane	<1.00	μg/L	1.00	EPA 8260B
1,1.1-Trichloroethane	<1.00	µg/L	1.00	EPA 8260B
1,1,2,2-Tetrachloroethane	<1.00	μg/L	1.00	EPA 8260B
1,1,2-Trichloroethane	<1.00	µg/L	1.00	EPA 8260B
1.1-Dichloroethane	<1.00	μg/L	1.00	EPA 8260B
1,1-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B
1,1-Dichloropropene	<1.00	μg/L	1.00	EPA 8260B
1,2,3-Trichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
1,2,3-Trichloropropane	<1.00	µg/L	1.00	EPA 8260B
1,2,4-Trichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
1,2,4-Trimethylbenzene	10.4	µg/L	1.00	EPA 8260B
1,2-Dibromo-3-chloropropane	<2.00	μg/L	2.00	EPA 8260B
1,2-Dibromoethane	<1.00	µg/L	1.00	EPA 8260B
1,2-Dichlorobenzene	6.71	µg/L	1.00	EPA 8260B
1,2-Dichloroethane	<1.00	µg/L	1.00	EPA 8260B
1,2-Dichloropropane	<1.00	µg/L	1.00	EPA 8260B
1,3,5-Trimethylbenzene	1.92	µg/L	1.00	EPA 8260B
1,3-Dichlorobenzene	<1.00	µg/L	1.00	EPA 8260B
1,3-Dichloropropane	<1.00	µg/L	1,00	EPA 8260B

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Comments:

City of Portland Water Pollution Control Laboratory Laboratory Analysis Report



Sample Date/Time	05/17/2000 12:20 System ID AE04631	Sample ID	LAB000720
Production of the interest of the state of t	40 mm	Page:	4
Proj/Company Name: SPECIAL WASTE MISC SAMP Address/Location: 10505 N NORTH PORTLAND RD TP-6 PROJECT 6064		Date Received: Sample Status:	05/19/2000 INACTIVE
Proj Subcategory: Sample Point Code: IMS File/Invoice #:	SPECIAL WASTE 0 3030.000	Sample Type: Sample Matrix: Collected By:	GRAB GRNDWTR DL

Test Parameter	Result	Units	MRL	Method
1,4-Dichlorobenzene	5.88	µg/L	1.00	EPA 8260B
2,2-Dichloropropane	<1.00	μg/L	1.00	EPA 8260B
2-Butanone	<10.0	µg/L	10.0	EPA 8260B
2-Chlorotoluene	<1.00	µg/L	1.00	EPA 8260B
2-Hexanone	<10.0	µg/L	10.0	EPA 8260B
4-Chlorotoluene	<1.00	µg/L	1.00	EPA 8260B
4-Methyl-2-pentanone (MIBK)	<5.00	µg/L	5.00	EPA 8260B
Acetone	43.0	µg/L	10.0	EPA 8260B
Benzene	8.59	μg/L	1.00	EPA 8260B
Bromobenzene	<1.00	µg/L	1.00	EPA 8260B
Bromochloromethane	<1.00	µg/L	1.00	EPA 8260B
Bromodichloromethane	<1.00	µg/L	1.00	EPA 8260B
Bromoform	<1.00	μg/L	1.00	EPA 8260B
Bromomethane	<5.00	μg/L	5.00	EPA 8260B
Carbon disulfide	<10.0	µg/L	10.0	EPA 8260B
Carbon tetrachloride	<1.00	μg/L	1.00	EPA 8260B
Chlorobenzene	129	µg/L	1.00	EPA 8260B
Chloroethane	<1.00	μg/L	1.00	EPA 8260B
Chloroform	<1.00	μg/L	1.00	EPA 8260B
Chloromethane	<5.00	µg/L	5.00	EPA 8260B
cis-1,2-Dichloroethene	2.43	µg/L	1.00	EPA 8260B
cis-1,3-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B
Dibromochloromethane	<1.00	µg/L	1.00	EPA 8260B
Dibromomethane	<1.00	µg/L	1.00	EPA 8260B
Dichlorodifluoromethane	<5.00	µg/L	5.00	EPA 8260B
Ethylbenzene	58.9	ha/r	1.00	EPA 8260B
Hexachlorobutadiene	<2.00	µg/L	2.00	EPA 8260B
Isopropylbenzene	1.93	µg/L	1.00	EPA 8260B
m,p-Xylene	57.7	µg/L	2.00	EPA 8260B
Methylene chloride	<5.00	μg/L	5.00	EPA 8260B
n-Butylbenzene	1.04	µg/L	1.00	EPA 8260B
n-Propylbenzene	2.08	ha\r ha\r	1.00	EPA 8260B





Sample Date/Time	05/17/2000	12:20	System ID	AE04631	Sample ID	LAB000720
Control of the Contro						

Proj/Company Name: SPECIAL WASTE MISC SAMP

10505 N NORTH PORTLAND RD

TP-6 PROJECT 6064

Proj Subcategory:

Address/Location:

Sample Point Code:

IMS File/Invoice #:

3030.000

SPECIAL WASTE

Sample Type: Sample Matrix: Collected By:

Date Received:

Sample Status:

Page:

05/19/2000 INACTIVE

GRAB GRNDWTR

DL

5

Comn	nents:
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Test Parameter	Result	Units	MRL	Method	_
Naphthalene	17.1	µg/L	1.00	EPA 8260B	-
o-Xylene	28.3	µg/L	1.00	EPA 8260B	
p-Isopropyltoluene	1.92	µg/L	1.00	EPA 8260B	
sec-Butylbenzene	<1.00	µg/L	1.00	EPA 8260B	
Styrene	<1.00	µg/L	1.00	EPA 8260B	
tert-Butylbenzene	<1.00	μg/L	1.00	EPA 8260B	
Tetrachloroethene	<1.00	µg/L	1.00	EPA 8260B	
Toluene	<1.00	μg/L	1.00	EPA 8260B	
trans-1,2-Dichloroethene	<1.00	µg/L	1.00	EPA 8260B	
trans-1,3-Dichloropropene	<1.00	µg/L	1.00	EPA 8260B	
Trichloroethene	<1.00	µg/L	1.00	EPA 8260B	
Trichlorofluoromethane	<1.00	µg/L	1.00	EPA 8260B	
Vinyl chloride	1.71	µg/L	1.00	EPA 8260B	

End of Report for Sample ID: LAB000720