KLEINFELDER

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Appendix F

APPENDIX F – HISTORIC REPORTS (ELECTRONIC COPY ONLY)

HAZARDOUS BUILDING MATERIAL SURVEY
CITY OF TROUTDALE &
EASTWIND DEVELOPMENT LLC PARCELS
410, 320, & 302 NW 257TH WAY
TAX LOTS: 400, 500, 100, & 600
TROUTDALE, OREGON

Kleinfelder Project No.: 63608-C01/E01

May 11, 2006

May 11, 2006
Kleinfelder Project Number 63608-C01/E01

Mr. James E. Galloway
Public Works Director
City of Troutdale
342 SW 4th Street
Troutdale, OR 97060

Subject: HAZARDOUS BUILDING MATERIAL SURVEY
CITY OF TROUTDALE &
EASTWIND DEVELOPMENT LLC PARCELS
410, 320, & 302 NW 257TH WAY
TAX LOTS: 400, 500, 100, & 600
TROUTDALE, OREGON

Dear Mr. Galloway:

We are pleased to present four copies of the Hazardous Building Material Survey report for the subject site. In summary, there were asbestos-containing materials found at both the City of Troutdale property and the Eastwind Development property. These materials would need to be abated prior to demolition.

City of Troutdale: asbestos-containing floor tile and mastic in the building between the aeration basin and the clarifiers; asbestos-containing gasket on one of the aboveground storage tanks located adjacent to the Parks and Facilities office.

Eastwind Development: asbestos-containing joint compound on drywall wallboards in the abandoned office of the large warehouse; asbestos-containing gasket in the boiler room of the large warehouse; asbestos-containing fire door insulation in the central portion of large warehouse.

Lead-containing paint was detected in numerous samples across both properties. The results ranged from 70 to 94,000 milligrams per kilogram (mg/kg) lead. The highest lead result for the City of Troutdale property was 500-mg/kg. A core sample collected from the location of the "worst case" lead result on the Eastwind Development property (94,000-mg/kg) had 5.79 milligrams per liter (mg/l) leachable lead, which is only slightly above the hazardous waste characteristic of 5 mg/l. Even though the threshold value was exceeded for this sample, it is our opinion that the sampling methodology has a high bias toward an elevated result. We believe that building debris will likely be

accepted as non-hazardous construction and demolition debris upon proper arrangements with a Subtitle D Solid Waste Landfill.

We trust the information presented in this report meets your needs at this time. We appreciate this opportunity to provide our services to you. Should you require additional information or have any questions regarding this report, please contact us at (503) 644-9447.

Sincerely,

KLEINFELDER, INC.

Randall A. Reid
Project Manager
AHERA Accredited Building Inspector/Management Planner, Project Designer, & Contractor/Supervisor

Lon R. Yandell, R.G.
Environmental Department Manager

A Report Prepared For:

City of Troutdale
342 SW 4th Street
Troutdale, OR 97060

HAZARDOUS BUILDING MATERIAL SURVEY
CITY OF TROUTDALE &
EASTWIND DEVELOPMENT LLC PARCELS
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15050 SW Koll Parkway, Suite L
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May 11, 2006

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

APPENDICES

1.0 INTRODUCTION

On March 13, 2006, the City of Troutdale authorized Kleinfelder to conduct a Hazardous Building Material Survey of several buildings owned by the City of Troutdale and Eastwind Development, LLC, on NW 257th Way in Troutdale, Oregon (Figures 1 and 2). The City of Troutdale and Eastwind Development proposes to demolish existing site buildings for future development. The scope of work was described in Kleinfelder's proposal, 6050PROP/POR5P018, dated January 30, 2006.

The purpose of the project was to evaluate building materials in the site buildings for the presence, location, and quantity of asbestos, the general extent of lead-containing paint coatings, and mercury/polychlorinated biphenyl-containing light fixtures.

Site Name: City of Troutdale & Eastwind Development LLC Parcels
Site Address: 410 NE 257th Way; Tax Lot 400; City of Troutdale
320 NE 257th Way; Tax Lot 500; City of Troutdale
302 NE 257th Way; Tax Lots 100, & 600; Eastwind Development

1.1 Scope of Work

Asbestos: Kleinfelder conducted a visual survey of the building materials suspected to contain asbestos and developed a limited homogeneous materials list. The asbestos survey was limited to non-destructive sampling of building materials that were readily accessible. Fifty-seven bulk samples were collected for polarized light microscopy (PLM) analysis.

Lead-Containing Paint Coatings: Kleinfelder collected 36 paint chip samples for lead analysis by Atomic Absorption of the predominant interior and exterior paint coatings. The collection of paint chip samples required scraping the paint from an approximately 1 by 1-foot area at each location. This scope of work did not include re-painting the sampling locations. One core sample was collected of the paint+substrate at the location of the worst-case total lead result for lead analysis by Toxicity Characteristic Leaching Procedure (TCLP). The purpose of the sample and analysis is to evaluate whether the construction debris (that includes lead-containing paint) would be considered hazardous waste.

Polychlorinated Biphenyl-Containing and Mercury-Containing Fixtures: During Kleinfelder's survey of the subject building, Kleinfelder looked for fluorescent light fixtures that could have PCB-containing light ballasts and fluorescent light tubes (with silver ends) that are generally considered to contain mercury vapor. Kleinfelder also looked for mercury-containing switches.

Building plans were not available for this assessment.

1.2 Background

Kleinfelder conducted a Phase I Environmental Site Assessment (Phase I ESA) and a Phase II ESA for the subject site. There reports are presented under separate cover.

2.0 FINDINGS & CONCLUSIONS

Asbestos-Containing Materials

Building materials that have been found to contain asbestos through analysis are designated as *friable* or *non-friable*. These designations determine how these materials will be managed, abated, and disposed. Friable asbestos-containing materials (ACMs) have a greater potential than non-friable ACMs of becoming a health hazard if the material is damaged or disturbed. Whether ACMs are friable or non-friable, the materials must be abated before they are disturbed for renovation or demolition. There are some exceptions for non-friable materials that can not be rendered friable through demolition processes (i.e., roofing mastic).

Various regulatory agencies have jurisdiction over projects dealing with the abatement of ACMs. Building materials that contain greater than 1% asbestos are regulated by the U.S. Environmental Protection Agency (EPA) and Oregon Department of Environmental Quality (DEQ). The DEQ enforces the U.S. EPA NESHAPS[1] rule with respect to releases of asbestos to the environment. Oregon Occupational Safety and Health Administration (OSHA) regulates ACMs with greater than 1% asbestos.

Asbestos-Containing Materials—Eastwind Development Property

Asbestos was detected in the joint compound applied to the drywall wallboards in the small office connected to the large warehouse. The overall composite result was less than 1%. The joint compound layer result was 2% asbestos. Kleinfelder assumes that the finished drywall wallboards in this office have asbestos-containing joint compound. Additionally, a sample of an exposed gasket in the boiler room contained 50% asbestos. Gaskets used in high heat environments commonly contain asbestos. However, Kleinfelder's assessment did not attempt to identify all possible gaskets at the facility. A metal-clad fire door with asbestos-containing insulation (50% asbestos) was found in the central portion of the large warehouse. The materials are considered in good condition. Disturbance of the materials, however, would render them friable. The asbestos-containing drywall/joint compound materials and the gaskets must be removed prior to renovation or demolition.

Asbestos-Containing Materials—City of Troutdale Property

Asbestos was detected floor tile (5%) and mastic (10%) located in the building located between the aeration basin and the clarifiers. The materials are considered in good condition and non-friable. Additionally, a sample of an exposed gasket on a flange of one of the aboveground storage tanks adjacent to the Parks and Facilities office contained 65% asbestos. The gasket is considered friable. The floor tile and mastic and the asbestos-containing gaskets at the WWTP site must be removed prior to the renovation or demolition.

[1] NESHAPS: National Emission Standards for Hazardous Air Pollutants

Lead-Containing Paint—Eastwind Development Property
Lead was detected in 8 out of 11 paint coating samples collected from the predominant interior and exterior paint coatings. The detectable concentrations ranged from 70 to 94,000 mg/kg[2] lead. The highest lead result was exterior paint that contained 94,000-mg/kg lead (white paint on block exterior wall). The next highest lead result was 2,700 mg/kg for the exterior green paint of the Eastwind warehouses. The lead-containing paints on the site buildings were considered to be in good condition and well adhered to the substrate.

Lead-Containing Paint—City of Troutdale Property
Lead was detected in 9 out of 24 paint coating samples collected from the predominant interior and exterior paint coatings. The detectable concentrations ranged from 70 to 500 mg/kg lead The highest lead result was for a paint chip sample of exterior green paint that contained 500-mg/kg lead. The lead-containing paints on the site buildings were considered to be in good condition and well adhered to the substrate.

Lead-Containing Paint—General Discussion
Except for the 94,000-mg/kg lead result, the samples had detectable lead concentrations well below U.S. EPA's definition of lead-based paint (5,000 mg/kg). However, the U.S. Occupational Safety and Health Administration (OSHA) recognizes the painted surfaces as lead-containing; therefore, they must be handled accordingly. If these materials are left in their present state and undisturbed, they are not expected to present a health hazard. If renovation, remodeling, or demolition requires disturbing any of the lead-containing paint or if the lead-containing painted surfaces are to be removed, then the materials must be managed by a qualified licensed contractor. Additionally, the contractor must manage the lead-containing paint in accordance with OSHA, U.S. EPA, and any state or local regulations that are applicable to lead paint abatement projects.

Demolition of the site buildings with the lead-containing paint is generally permissible if:

- Basic engineering dust controls are employed during demolition,
- The contractor is notified and is using notified and properly trained personnel,
- A waste characterization sample is collected of the paint and substrate (core) and analyzed by TCLP lead analysis and shown to be less than the hazardous waste characteristic of 5 mg/l,[3] and
- A Subtitle D permitted landfill with a composite liner and leachate collection system may exercise the DEQ Policy 97-PO-002A that allows acceptance of building debris with lead-containing paint without TCLP lead analysis.

[2] mg/kg: milligrams per kilogram

[3] mg/l: milligrams per liter

The demolition contractor is responsible for determining the appropriate level of training and medical monitoring for their employees. The TCLP-lead results for a white paint and concrete composite sample was reported to be 5.79 mg/l, which is above the waste characteristic is greater than 5 mg/l. Generally speaking this would indicate future construction debris would be considered hazardous waste. See additional discussion and recommendation in next section.

Mercury-Containing Fixtures

There is a potential for up to 10 thermostats in the site buildings that may contain mercury switch. The following quantity estimates were compiled during the survey:

Eastwind Development Property

- Fluorescent light tubes: approximately 580
- Metal halide/high pressure sodium: approximately 5 lights and fixtures

City of Troutdale WWTP Property

- Fluorescent light tubes: approximately 100

The mercury switches and light tubes can be recycled and considered "universal waste" rather than hazardous waste.

PCB-Containing Fixtures

Kleinfelder noted the presence of light fixtures that have ballasts that could contain PCBs. Kleinfelder did not dismantle light fixtures; therefore, only a total count of fluorescent light fixtures is provided. Those light ballasts that are not labeled as "non-PCB" must be assumed to contain PCBs and must be disposed as Toxic Substance Control Act (TSCA) waste at an appropriate facility. The following quantity estimates were compiled during the survey:

Eastwind Development Property

- Fluorescent light fixture ballasts: approximately 220

City of Troutdale WWTP Property

- Fluorescent light fixture ballasts: approximately 50

3.0 RECOMMENDATIONS

It is our understanding that demolition of the site buildings is proposed. Therefore, our recommendations are focused to address removal of ACMs prior to demolition.

Asbestos-Containing Materials

Notification of the presence of ACMs to the employees and sub-contractors is required under Hazard Communication regulation (29 CFR 1926.59) and the Occupational Exposure to Asbestos Final Rule (29 CFR 1910.1001), as long as there are ACMs in the building. The burden of the notification is on the building owner and facility operator. In addition, the persons mentioned above must be notified of the presence and location of ACMs; the health risk related to asbestos; and work activities to avoid because asbestos is located in the work place. This can be provided by an Asbestos Awareness two-hour training class.

Prior to demolition of the site building, an asbestos abatement plan (Project Specification) must be developed by a certified asbestos project designer in accordance with federal regulations. Abatement of the ACMs must be conducted prior to disturbing these materials and be performed by a qualified licensed asbestos abatement contractor. Additionally, the abatement contractor must manage the ACMs in accordance with Oregon-OSHA, U.S. EPA, and the Oregon DEQ regulations. If un-sampled building materials are encountered during future construction activities, they must be considered to be ACMs until testing proves otherwise. Handling of un-sampled building materials must be conducted as if they were ACMs.

Drywall/joint compound wall systems with a trace amount of asbestos (<1%) are not considered asbestos-containing building materials by U.S. EPA or Oregon DEQ. Cutting the wallboard should be avoided. However, Oregon and Federal OSHA do not allow compositing results across building material layers, even for wallboard systems. Thus, wallboard sample results that have greater than 1% asbestos in any individual layer is regulated by OSHA, and these materials may require full abatement prior to renovation or demolition.

Lead-Containing Paint

Notification of the presence of lead-containing paint coatings to employees, sub-contractors, and building owners is required under Hazard Communication regulation (29 CFR 1926.59). Disturbance of lead-containing paint coatings should be avoided. Activities to avoid include: sanding, grinding, heat application, etc. Deteriorating/delaminating paint on the site building must be properly abated, packaged, and disposed as lead-containing paint waste. The OSHA Lead in Construction Standard (29 CFR 1926.62) is applicable, which includes information on when medical surveillance for employees is required. A licensed qualified contractor must manage the

lead-containing paint in accordance with OSHA, U.S. EPA, state, or local regulations that are applicable to lead paint abatement projects.

The waste characterization sample collected of the lead-containing paint and concrete substrate (large warehouse of the Eastwind Development property) was 5.79 mg/l, which is just above the 5-mg/l hazardous waste characteristic for lead. Even though the toxicity characteristic was exceeded, it is Kleinfelder's opinion that future building debris would be considered non-hazardous construction and demolition debris. Kleinfelder recommends that the contractor pre-arrange disposal of the construction and demolition waste with an appropriate landfill that is notified about the lead-containing paint.

Kleinfelder further recommends that engineering controls be implemented to control dust, and potentially, release of lead dust to the environment

Mercury-Containing Fixtures

Kleinfelder recommends removal of the mercury switches and light tubes within the site building for recycling as "universal waste" prior to building demolition.

PCB-Containing Fixtures

Kleinfelder recommends that the abatement contractor or demolition contractor dismantle each of the fluorescent light fixtures after they are de-energized to look for "non-PCB" labels. If there are any ballast labels that do not have "non-PCB" or "does not contain PCBs," then the ballasts must be packaged for transportation and disposal as TSCA waste at an appropriate facility. The ballast should be removed from the light fixture to reduce the quantity of material for disposal.

4.0 ASBESTOS SURVEY METHODOLOGY

Kleinfelder conducted this asbestos survey in accordance with the authorized scope of work. The survey was conducted by an U.S. EPA accredited Building Inspector and Management Planner for asbestos.

4.1 Building Walk-through & Sampling Plan Preparation

Kleinfelder conducted a building walk-through to document existing conditions and identify homogeneous materials and areas. Homogenous materials were transcribed onto forms for documentation and to assist in the preparation of a sampling plan. Suspect materials were grouped into homogeneous areas and then sampled accordingly. Sampling procedures were performed in general accordance with U.S. EPA protocols. The quantities of bulk samples collected generally followed the U.S. EPA protocols of three, five, or seven samples of homogeneous surfacing materials; three samples of thermal system insulation (TSI); and a "sufficient" number of bulk samples from miscellaneous materials. Kleinfelder departed from the quantity protocols if, based on the judgment of the inspector:

- The building materials did not usually contain asbestos (e.g., metal, fasteners, wood, concrete, furniture, electrical equipment, fiberglass, rubber, glass, terrazzo, ceramic tile, and architectural brick);

- Electrical wire insulation for wire that has not been locked out/tagged out by a licensed electrician;

- The building material would be damaged in order to collect the sample (e.g., fire doors, mudded joints above plaster ceilings, ceramic tile, etc.); or

- The building materials were shown to contain asbestos in nearby areas.

4.2 Assessment of Building Material Hazard Characteristics

Kleinfelder evaluated the friability and physical condition of the building materials suspected to contain asbestos. According to the U.S. EPA, a friable material can be reduced to dust or powder with slight pressure, such as hand pressure. A non-friable material contains asbestos fibers that have been "locked-in" by a bonding agent, coating, or other material, so that fibers are not released during appropriate use or handling.

ACMs in good condition are those that have no visible damage or deterioration. ACMs in good condition do not present a health hazard if maintained in such a condition and left undisturbed. An ACM in fair condition exhibits minor damage (<10% area or <25% localized) and has the potential to release asbestos fibers if disturbed. An ACM in poor

condition has significant damage (>10% area or >25% localized) and has the potential to release asbestos fibers during normal use or operations.

4.3 Sample Collection & Analysis

Kleinfelder collected bulk samples of building materials suspected of containing asbestos. The building material was sprayed with a surfactant, collected using the appropriate tool, placed into a sealed freezer bag, and labeled with a sample number. A temporary patch was applied to the sampled building material. Kleinfelder double-bagged and shipped the samples under chain-of-custody procedures to the analytical laboratory.

Forensic Analytical of Hayward, California, a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory, analyzed the samples by polarized light microscopy (PLM). PLM analysis identifies asbestos to a detection limit of 1%. If asbestos is present, it is then classified as to its type: amosite, chrysotile, tremolite, etc. Copies of the chain-of-custody forms and analytical reports are attached.

5.0 LEAD-CONTAINING PAINT COATING SURVEY METHODOLOGY

5.1 Regulatory Background for Lead-Containing Paint Coatings

EPA and HUD regulate *lead-based* paint if it is at or greater than 0.5% by weight or 5,000 parts per million (ppm). OSHA regulates lead-containing paint with respect to employee exposure.

All work with a material containing lead above the analytical laboratory's reporting limit (detection limit), must be treated as having a potential to exceed OSHA's Permissible Exposure Limit (PEL) for total lead (50 micrograms per cubic meter of air). The employer must implement special work practices unless it can be shown by one of the following methods to produce air concentrations of lead below the PEL:

- Previous experience with similar activities, lead concentrations, and workers.
- Calculations of estimated air concentrations based on planned activities, lead concentration in paint, thickness of paint, and surface area to be disturbed.
- Personal exposure monitoring.

Therefore, any demolition work that will disturb lead-containing paint (material containing any reportable quantity of lead) will be subject to the Lead Construction Standard and should only be handled by a licensed and qualified contractor. The contractor must provide the following for the employees (not an all-inclusive list):

- Medical surveillance with blood lead testing
- Respirator training and fit-testing
- Training on health hazards of lead
- Change work area

On the basis of historical projects, building materials that have lead-containing coatings can be demolished with the buildings and disposed as non-hazardous construction debris. Kleinfelder's experience is that the TCLP value for lead-containing coatings will be below the 5 mg/l threshold for lead if a core sample of the paint coating and the substrate (e.g., plaster, concrete, drywall) is collected.

5.2 Sample Collection & Analysis

Selected painted surfaces were tested for the presence of lead by collecting chip samples from paint considered to be the predominant paint coating in each building. The paint chip sample is an approximately 1x1-foot area, which represents potential paint layers. As with asbestos sampling procedures, a chain-of-custody is also used to document transfer of the samples.

Upon receiving the total lead analytical results, Kleinfelder collected a “core” sample of the worst-case paint coating and underlying building material for TCLP lead analysis. The purpose of the sampling is to characterize what would be future building debris for disposal purposes. Forensic Analytical of Hayward, California, analyzed the samples by U.S. EPA Method 3050B/7420. The analysis quantifies lead to a detection limit of approximately 60 mg/kg or 0.006% by weight. The detection limit is determined by the amount of material in each individual sample. Specialty Analytical of Tualatin, Oregon, analyzed the lead waste characterization sample by TCLP. Copies of the chain-of-custody forms and analytical reports are attached.

6.0 BUILDING DESCRIPTION

Eastwind Development, 302 NW 257th Way

Small Steel Warehouse: There is a rectangular steel warehouse in the western portion of the 302 NW 257th Way property. The warehouse was constructed on a concrete slab. The warehouse has overhead doors. There is a small office in the building.

Large Abandoned Warehouse: There was a large warehouse located on the 302 NW 257th Way property. The building appeared to have been constructed in stages because there was steel-sided, brick, and concrete wall construction evident. Kleinfelder noted timber framing, wood siding, and concrete floors. Portions of the building were more than two stories tall. The building had a boiler room on the western end of the building. Adjacent to the boiler room was a single-story office building.

The building had loading docks on the northern side of the building. A large, covered truck port was also located on the northern side of the building. Concrete slabs were present outside the building's western door, under the truck port, and at the loading dock. A loading platform was located on the southern side of the building.

Water Tower and Cellular Antenna: A large, steel water tower was located north of the large warehouse. It was not known whether the tower contained water. There were cellular antennas on the water tower. A small, fenced compound was located at the base of the tower for the antenna control room and backup generator. There was no access to this compound or the water tower.

Clarifiers: There were two concrete clarifiers to the west and north of the large warehouse. The clarifier on the west appeared to be older and the equipment normally seen on clarifiers was no longer present. The clarifier to the north of the warehouse appeared to be associated with subsurface vaults and chlorine contact equipment in adjacent sheds.

City of Troutdale, 410 and 320 NW 257th Way

Metal warehouse/shop: This building has metal siding and steel structure. The floor is a concrete slab.

Digester Building: The building was centrally located and was formerly part of the wastewater treatment process at the facility. The digester was not operational. The building has a below grade level where some of the equipment is located.

Primary and Secondary Clarifiers: There are three clarifiers, which were circular pits partially filled with storm water. The clarifiers were not operational at the time of the site visit.

Aeration Basin: The aeration basin is an oval-shaped concrete-lined basin that was formerly used for secondary treatment of wastewater.

Chlorine Contact Basin: This basin was located on the eastern side of the Wastewater Treatment Plant (WWTP). It was originally used to disinfect treated water prior to discharge to the Sandy River. The WWTP retrofitted the basin with UV lamp treatment system.

Laboratory Building: This small, square-shaped building on the eastern side of the treatment plant was formerly used by WWTP staff to analyze wastewater samples. The building had a concrete slab.

Parks & Facilities Office/Shop (320 NW 257th Way): This building is currently occupied by the City of Troutdale Parks & Facilities and is used as an office and shop. The building had a concrete slab.

7.0 ASBESTOS SURVEY RESULTS

Kleinfelder (Mr. Cris Watkins) conducted an asbestos survey of the building on March 15, 16, and 17, 2006. The analytical results and material descriptions are presented in Tables 1 and 2.

Table 1 Eastwind Development Warehouses (see Figure 1)

SAMPLE #	MATERIAL DESCRIPTION	LOCATION	F/NF[4]	CONDITION	% ACM	# SAMPLES	ESTIMATED QUANTITY
63608-EW-EC-1	Drywall, unfinished	South wall of center area drywall (small warehouse)	F	Poor	ND[5]	1	---
63608-EW-F2-2	Laminate flooring in central office area	Central office area (small warehouse)	NF	Good	ND	1	---
63608-EW-C3-3A,B,C	Drywall, unfinished	Ceiling drywall East central hall	F	Poor	ND	3	---
63608-EW-C4-4A,B,C	Drywall, unfinished	Ceiling drywall East side North hall	F	Poor	ND	3	---
63608-EW-C5-5A,B,C	Drywall, unfinished	Ceiling drywall East side South hall	F	Poor	ND	3	---
63608-EW-C6-6	Drywall, unfinished	Shack in NE corner	F	Poor	ND	1	---
63608-EW-W7-7A,B	Paint	Wall coating West wall	NF	Good	ND	2	---
63608-EW-M8-8	Cementitious chips	Loose on boiler room floor	NF	Good	ND	1	---
63608-EW-W9-9A	Drywall and joint compound	Office area	NF	Good	<1% overall; 2% in skim-coat	1	~1,500-2,000 s.f.
63608-EW-W10-10	Laminated wall paneling	Office area	NF	Good	ND	1	---
63608-EW-C11-11	Ceiling tile	Office area	NF	Good	ND	1	---
63608-EW-W12-	Cementitious wall board	Exterior West side	NF	Fair	ND	1	---

[4] F/NF: friable/non-friable

[5] ND: Not detected

12							

Table 1 Eastwind Development Warehouses, continued

SAMPLE #	MATERIAL DESCRIPTION	LOCATION	F/NF[6]	CONDITION	% ACM	# OF SAMPLES	ESTIMATED QUANTITY
63608-EW-M13-13	Gasket	On boiler	NF	Good	50%	1	1 exposed gasket; may be additional gaskets
63608-EW-M14-14	Insulation	Metal clad fire door West side	F	Fair	50%	1	~80 s.f.
63608-EW-W15-15A,B,C	Drywall, unfinished	West side central corridor	NF	Fair	ND	3	---
63608-EW-W16-16A,B	Laminated wall paneling	West side central corridor	NF	Good	ND	2	---
63608-EW-W17-17A,B	Laminated wall paneling	West side central corridor	NF	Good	ND	2	---
63608-EW-M18-18	Synthetic flooring in small office	Small office in central west side	NF	Good	ND	1	---
63608-EW-W19-19A,B,C	Drywall, unfinished	Second story	F	Fair	ND	3	---
63608-EW-R20-20A,B,C	Tar and gravel roofing	West side of warehouse above small offices	NF	Good	ND	3	---
63608-EW-F21-21	Carpet with mastic	Office area on West side	NF	Fair	ND	1	---
63608-EW-W22-22A,B,C	Drywall, unfinished	Wood shop	F	Fair	ND	3	---

[6] F/NF: friable/non-friable

Table 2, Wastewater Treatment Plant (see Figure 2)

SAMPLE #	MATERIAL DESCRIPTION	LOCATION	F/NF[7]	CONDITION	% ACM	# OF SAMPLES	ESTIMATED QUANTITY
63608-W1-1	Drywall/joint compound/paint	Chemical building	NF	Good	ND	1	---
63608-F2-2	Tile flooring and mastic	Chemical building NW office area	NF	Good	10% in mastic only	1	~20 s.f.
63608-F3-3	Tile flooring and mastic	Flooring in rest of chemical building	NF	Good	5% in tile, 10% in mastic	1	~460 s.f.
63608-F4-4	Flooring material	Chlorine storage room flooring	NF	Good	ND	1	---
63608-W5-5A,B	Drywall and joint compound	Digester building	NF	Good	ND	2	---
63608-R6-6A,B	Tar and felt roofing	Digester building roof	NF	Good	ND	2	---
63608-W6-6A,B	Joint compound and paint	Laboratory walls	NF	Good	ND	2	---
63608-M7-7	Gasket	Holding tank (location of sample); Kleinfelder assumes that other asbestos-containing gaskets are present at the WWTP that are accessible if flanges are dismantled.	F	Good	65%	1	Not estimated
63608-F8-8	Sheet vinyl flooring	Offices	NF	Good	ND	1	---
63608-W9-9A,B,C,D	Drywall and joint compound	Offices	NF	Good	ND	3	---
63608-F10-10	Carpet and mastic	Offices	NF	Good	ND	1	---
63608-R11-11	Tar and felt roofing	Storage shed shingle	NF	Good	ND	1	---

[7] F/NF: friable/non-friable

8.0 LEAD-CONTAINING PAINT COATING SURVEY RESULTS

Kleinfelder (Mr. Cris Watkins) conducted a Lead-containing Paint Survey of the building on March 15, 16, and 17, 2006, by collecting paint chips of predominant interior and exterior paint coatings. The limit of detection varied from sample to sample.

Table 3, Summary of Paint Chip Analytical Results—Eastwind Development

MTL #	MATERIAL DESCRIPTION	LOCATION	RESULT MG/KG
63608-EW-P1-1	Ext. red paint	Main warehouse North wall	2,500
63608-EW-P2-2	Int. White paint	Main warehouse North wall	70
63608-EW-P3-3	Int. Brown paint	Central corridor	730
63608-EW-P4-4	Int. White paint	Central corridor	700
63608-EW-P5-5	Int. Red paint	Central corridor	120
63608-EW-P6-6*	Ext. white paint See discussion below this table	West side of main warehouse	94,000
63608-EW-P7-7	Int. White paint	Drywall areas in offices	ND
63608-EW-P8-8	Int. white paint	Concrete interior walls	ND
63608-EWP9-9A	Ext. green paint	Woodshop and main warehouse	ND
63608-EWP9-9B	Ext. green paint	Woodshop and main warehouse	2,500
63608-EWP9-9C	Ext. green paint	Woodshop and main warehouse	2,700

*Sample number 63608-EW-P6-6 was considered the “worst case” total lead result. Kleinfelder returned to the site to collect a core sample near the same location. The purpose of the core sample was to collect a sample of paint and the underlying substrate for hazardous waste characterization. The analytical laboratory reported 5.79 mg/l leachable lead.

Table 4, Summary of Paint Chip Analytical Results—City of Troutdale WWTP

MTL #	MATERIAL DESCRIPTION	LOCATION	RESULT MG/KG
63608-P1-1A, B	Ext. blue paint	SW wall exterior storage building	ND
63608-P2-2	Int. white paint	Wall dividing storage building	ND
63608-P3-3A,B,C	White paint on concrete	Located on clarifiers and aerators	ND
63608-P4-4A	Blue paint on concrete	Located on clarifiers and aerators	420
63608-P4-4B	Blue paint on concrete	Located on clarifiers and aerators	270
63608-P4-4C	Blue paint on concrete	Located on clarifiers and aerators	ND
63608-P5-5	Ext. green paint	South clarifier	500
63608-P6-6	Ext. Blue paint	Main paint on chemical building	ND
63608-P7-7	Ext. Dark color paint	Trim of chemical building	340
63608-P8-8	Int. white paint	Chemical building interior	ND
63608-P9-9	Int. green paint	Chemical building	ND
63608-P10-10	White paint on concrete	Chemical building interior	ND
63608-P11-11A,B	Ext. blue paint	North and south digester	ND
63608-P12-12	Ext. Grey paint	Digester door	70
63608-P13-13	Int. white paint	Digester interior	ND
63608-P14-14	Ext. Blue paint	Laboratory main paint	290
63608-P15-15A	Ext. crème color paint	Exterior of holding tanks	150
63608-P15-15B	Ext. crème color paint	Exterior of holding tanks	430
63608-P16-16	Ext. crème paint	Offices	200

Table 4, Summary of Paint Chip Analytical Results—City of Troutdale, continued

MTL #	MATERIAL DESCRIPTION	LOCATION	RESULT MG/KG
63608-P17-17	Int. crème paint	Offices	ND
63608-P18-18	Ext. red paint	Shed behind offices	ND

9.0 LIMITATIONS

Kleinfelder has performed this work in accordance with generally accepted standards of care practiced by other members of our profession in Oregon at the time the work was completed. The completed survey was limited to the areas sampled in the buildings at the subject site described in this report. Our findings are limited to visible and accessible building materials and the results reported for the time the surveys were completed. More extensive studies including additional building material sampling may be used to supplement the information presented by this assessment. Kleinfelder should be notified for additional consultation if the client wishes to reduce uncertainties beyond the level associated with this assessment. Our assessment of the asbestos and lead-containing paint issues may also change as new data becomes available during additional site investigation.

The services presented in this report were not intended to identify all potential concerns or eliminate all risk associated with the subject property. Even the most rigorous of professional studies may fail to identify all conditions or contaminants.

This report may be used only by City of Troutdale and Eastwind Development, LLC, and only for the purposes stated within a reasonable time from its issuance, but in no event later than one year from the date of the report. Unauthorized use or copying of this document is strictly prohibited. Kleinfelder authorizes the use of this document by the client and bidding contractors. Land or facility use, on and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. 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 client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

No warranty, expressed or implied, is made.

10.0 PROFESSIONAL AUTHENTICATION

This report has been prepared and reviewed by the undersigned. This report is void if original seal and signature is not present.

Lon R. Yandell, R.G.
Environmental Department Manager

KLEINFELDER
An employee owned company

PHASE I ENVIRONMENTAL SITE ASSESSMENT CITY OF TROUTDALE & EASTWIND DEVELOPMENT LLC PARCELS 410, 320, & 302 NW 257TH WAY / NE HARLOW ROAD TAX LOTS: 400, 500, 100, & 600 TROUTDALE, OREGON

Kleinfelder Project No.: 63608-A01

KLEINFELDER
An employee owned company

A Report Prepared For:

City of Troutdale
104 SE Kibling Avenue
Troutdale, OR 97060

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CITY OF TROUTDALE & EASTWIND DEVELOPMENT LLC PARCELS
410, 320, & 302 NW 257TH WAY / NE HARLOW ROAD
TAX LOTS: 400, 500, 100, & 600
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Kleinfelder Project Number 63608-A01

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January 5, 2006

TABLE OF CONTENTS

FIGURES

APPENDICES

1.0 INTRODUCTION

This report documents the methodology and findings of a Phase I Environmental Site Assessment (Phase I ESA) for an approximately 19.6-acre site in Troutdale, Oregon (Figure 1). The City of Troutdale retained Kleinfelder to perform the work in general accordance with the American Society of Testing and Materials (ASTM) Standard E 1527-00, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and Kleinfelder's October 27, 2005, proposal (6050PROP/POR5P186).

The site consists of four parcels, two owned by the City of Troutdale and two owned by Eastwind Development LLC. In the course of Kleinfelder's research into the site, Kleinfelder noted two addresses associated with each parcel, though the numbering remained the same. Both NE Harlow Road and NW 257th Way have been used for the site addresses. It appears that the NE Harlow Road addresses predated the NW 257th Way address. For the purposes of this Phase I ESA, Kleinfelder uses the NW 257th Way street name in describing the site parcels, unless historical resources dictate the use of the NE Harlow Road street name.

The Phase I ESA included a review of available regulatory agency databases and records, aerial photographs, and a site visit. The findings and conclusions are presented in detail in Section 2.0 with recommendations in Section 3.0. The basis for the conclusions are the result of Kleinfelder's research, which follows in Sections 5.0 - 10.0.

2.0 FINDINGS AND CONCLUSIONS

The following conclusions are based on Kleinfelder's knowledge of the subject property from our site observations and information gathered during our review. These conclusions are subject to the limitations presented in Section 4.3, and may change if additional information becomes available.

1. **EASTWIND DEVELOPMENT SITE HISTORY (302 NE HARLOW ROAD):** Historical data and interviews indicated that the 302 NE Harlow Road property had been developed as early as 1901. The earliest available historical data indicated two large warehouses had been located on the property and occupied by Union Meat Company Abattoir (slaughterhouse). The slaughterhouse had corrals and pasture areas to the north of the buildings. The buildings were used for processing livestock, including a rendering and glue plant. Rail access was present as early as 1901. The 1901 and 1909 Sanborn Maps indicated that two “oil house” buildings had been present east of the current warehouse, presumably to store oil containers for on-site machinery.

   The 302 NE Harlow Road facility had changed many times between its original construction prior 1901 and the shut down of the wool pullery around 1970; however, the business use of the property during that time appears to have remained consistent as a slaughterhouse, hide processor, and/or wood pullery. Many construction projects over the subsequent years resulted in the expansion of the facility. A significant change in the building configuration had apparently occurred around 1922, when the main slaughterhouse may have been demolished and rebuilt. The rendering plant, the other building at the site, apparently had been removed by 1925. Bissinger & Company was the slaughterhouse (also referred to as a wool pullery) operator between 1925 and 1931. However, the slaughterhouse remained the primary use of the property until the operation ended on an unknown date. Because there was a settling pond north of the large warehouse in 1968, Kleinfelder speculates the slaughterhouse may have been in operation as late as 1968. The main warehouse shown on the 1925 Sanborn Map is essentially the same warehouse building currently on-site. A smaller steel warehouse had been constructed at the property prior to 1968. This smaller warehouse is currently located on-site and occupied by a woodworking business. Mr. Doug Jones, a person with personal knowledge of the Eastwind Development site since 1997, indicated that the wool pullery building was vacant for a number of years until around 1972 when Don Bennett purchased it. The Bennetts (Don and David) operated a cabinet making/woodworking business in the large warehouse until around 1999. Mr. Junki Yoshida obtained a partial interest in the site around 1999/2000 and obtained full ownership of the building around 2003, according to Mr. Jones. Mr. Jones has been a tenant on-site (woodworking) since around 1997.

Recently, the Gresham Fire and Emergency Services condemned the large warehouse building because of unsafe conditions. Therefore, Kleinfelder only had limited visual access to portions of the eastern half of the warehouse. Gus Lian of the City of Gresham reported that their inspection did not reveal environmental concerns regarding chemical storage. Kleinfelder believes it would be prudent to inspect the building in the future.

Kleinfelder believes that there is a potential that former slaughterhouse activities (tanning) may have resulted in the presence of chromium and volatile organic compounds (VOCs) in site soils and in sediment in the bottom of on-site clarifiers. A settling pond is shown in the 1968 aerial photograph that could have been used for wastewater discharged after primary treatment in on-site clarifiers. It is not known whether there is an environmental concern at this time. The passage of time (nearly 30 years) since the plant was in operation may have lead to the attenuation of potential contaminants.

D and D Manufacturing/Third Dimension (owned by Don and David Bennett) appears to have been a business entity that had operated at the 302 NW 257th Way property from the early 1970s to the late 1990s. The business was considered a "Small Quantity Generator" of hazardous waste under RCRA.[1] There were violations reported by the U.S. Environmental Protection Agency (U.S. EPA) for citations that had occurred in the 1991 to 1992 timeframe. The details of the violations are not known, but they are likely due to waste storage practices and/or administrative issues. Kleinfelder discusses below, under the issue "Chemical Containers," that several chemical containers from plastic tubes of adhesive to 55-gallon drums with unidentified liquids were observed at the Eastwind Development site. The presence of the chemical containers is considered an environmental concern. Additionally, the cabinet making businesses likely used adhesives and resins, but Kleinfelder did not observe indications of on-site disposal of such items. Other than the listing for D and D Manufacturing as a RCRA Small Quantity Generator, this property was not listed on the various federal and state environmental cleanup databases researched for this project.

2. **CITY OF TROUTDALE SITE HISTORY (320/410 NE HARLOW ROAD):** Historical data and interviews indicated that the City of Troutdale Wastewater Treatment Plant (WWTP) property consists of two tax lots. The property was developed, at least in the southwestern corner, as a boarding building for employees of the Union Meat Company's slaughterhouse in 1901 and 1909. In 1925, the 320/410 NE Harlow Road site consisted of mostly agricultural fields. A farmhouse and outbuildings were located in the northeastern corner of the site. In 1969, construction of the WWTP began after the City of Troutdale obtained ownership of the property. The WWTP underwent expansions in 1979 and 1992. One of the WWTP features was the former presence of un-lined sludge storage ponds (approximately 100,000-gallon

[1] Resource Conservation and Recovery Act

capacity) and the current presence of a 1-million gallon lined lagoon that formerly received sludge. Kleinfelder believes there is a potential that the soil beneath the old ponds could have accumulated concentrations of metals and semi-volatile organic compounds. Kleinfelder believes there is a potential environmental concern regarding the soil beneath the former sludge storage ponds.

A portion of the WWTP was leased to a private company, Purifax, that operated between the mid 1980s and 1996. The purpose of the business was to accept septic waste, treat the waste, and discharge the effluent to the WWTP. The WWTP eventually ended the lease due to ongoing problems with the effluent concentrations being discharged to the WWTP.

The WWTP was shut down in 2001 in favor of a new WWTP to the north of the site. The City of Troutdale still controls and operates the subject site. Mr. Mike Sorensen, City of Troutdale Public Works Department, stated that since the WWTP was closed in 2001, the wastewater treatment equipment (headworks, aeration basin, UV contact basin, and clarifiers) had been pumped to the new WWTP several times because of the accumulation of rainwater. These activities would likely reduce the potential for pathogens[2] still being present in these features. If pathogens are present in residual sludge, sediments, and on structural/plumbing components during future demolition, there could be a health hazard to construction workers.

The Parks and Facilities Department currently use some buildings at the WWTP. According to Mr. Jim Galloway and Mr. Sorensen, City of Troutdale Public Works Department, there were no known releases of hazardous substances to the site soil or groundwater at the subject site. There were no known underground storage tanks underground storage tanks (USTs). Kleinfelder's research did not reveal recognized environmental conditions associated with the WWTP past or current operations.

3. **UNDERGROUND STORAGE TANK (UST):** There appears to be a fuel oil UST outside the large warehouse on the 302 NE Harlow Road site. The UST appears to be connected by underground piping to the building's boiler room. There is no available information about the status of the UST. If the UST was primarily used in industrial processes as opposed to heating, then it may be regulated by Oregon Department of Environmental Quality (DEQ). If the UST had leaked, then the UST is regulated by DEQ. The site was not listed on the DEQ database of registered or leaking USTs. There is no documented recognized environmental condition at this time; however, the lack of information does not preclude the possibility of a release in the past. Additional assessment of the UST and surrounding soil is necessary to evaluate whether there is a recognized environmental condition and an environmental liability beyond the cost to remove the UST.

[2] An agent that causes disease, especially a living microorganism such as a bacterium, virus, or fungus.

4. **ON-SITE RAIL SPUR:** The larger of the Eastwind Development parcels includes an old rail spur that runs parallel to a loading platform connected to the large warehouse. Additionally, there appears to be a portion of an equipment storage yard associated with Union Pacific Railroad vehicles that is also located on the Eastwind Development site. Kleinfelder had limited access to the on-site rail spur due to the overgrown blackberries below the platform. At least part of the rail spur appeared to have a concrete "floor." On the basis of the site history, it is likely that boxcars parked on-site were used to transport livestock and the end products of the slaughterhouse, rather than chemical transport. At this time, there does not appear to be a recognized environmental condition associated with the presence of the rail spur.

5. **ON-SITE SOLID WASTE DISPOSAL:** There were multiple piles of debris located northeast of the 302 NE Harlow Road warehouse. The piles have not been fully evaluated as to whether there are chemical containers present under the wood and household junk debris. At this time, there is no documented recognized environmental condition associated with this issue.

   There was a riverbank stabilization project involving the City of Troutdale and the U.S. Army Corps of Engineers (USACE) in 1993. The 1993 project involved revetment (rock lining) of the Sandy River bank adjacent to the WWTP. During the excavation work, the construction contractor encountered buried waste on the bank. The USACE determined that the waste material was not a potential hazardous material issue. USACE documented that the landfilled debris was 90-95% particleboard. Much of the material had a veneer finish, and other disposed materials included concrete, a tire, rubber gaskets, plastic containers, etc. It is likely that the entire "landfill" had not been excavated during the project. At this time, there is no documented recognized environmental condition associated with this issue. However, the remaining buried debris could be an issue to future redevelopment from a constructability perspective and in the event chemical containers were part of the landfill that was not previously excavated.

   The historical land use of the Eastwind Development site involved the handling of wastewater at a former slaughterhouse. Wastewater may have been treated on-site through the use of clarifiers, chlorine disinfection, and a sludge settling pond. There is a potential that a settling pond or waste sludge pond, formerly located on the Eastwind Development site, could have received animal waste. Therefore, Kleinfelder believes there is a potential for chromium accumulation in the subsurface soil below the former settling pond, and there is a potential that subsurface soil could be impacted by pathogens that could be a health risk to future construction workers. It is likely that a complete decommissioning of the clarifiers and plumbing (flush and disinfection) and former settling pond (sludge removal) on the Eastwind Development site has not occurred. Kleinfelder believes there is a potential health hazard to construction workers if pathogens from former animal processing are

present in trenches, pipes, and clarifiers at the site. Further assessment of this issue would be prudent to protect worker health and safety.

It is Kleinfelder's opinion that there is a potential for buried waste on-site that may include parcels owned by both the City of Troutdale and Eastwind Development. Our opinion is based on the more than 105-year industrial use of the subject site that involved the development and demolition of multiple buildings (primarily on the Eastwind Development site); the construction and filling of a settling pond around 1968 (Eastwind Development site); the construction and removal of a possible levee system (on both properties); and the current presence of debris piles as mentioned above. Buried "waste" could include additional particleboard, wood debris, animal waste, fill dirt, and construction and demolition debris. If there are significant areas of fill, there may be potential future development issues that would need to be addressed during site development. If chemical containers were buried or hazardous substances were spilled, then there would likely be special handling and disposal issues to consider.

The closure of the WWTP in 2001 likely included the removal of remnant sludge and partially decommissioning of wastewater treatment basins and tanks. However, Mr. Sorensen has indicated that there is still sludge in the digester building and lagoon that the City of Troutdale is periodically pumping into trucks for removal. Mr. Sorensen is hoping the sludge will be completely removed by the Summer of 2006. When the site is redeveloped in the future, if all the waste sludge is removed and the WWTP equipment is cleaned and flushed, then the potential for a health hazard associated with pathogen contamination and future construction activities and redevelopment would be reduced.

6. **ON-SITE WELL(S):** A well was noted on the Eastwind Development site in a pump house. No well log was discovered for the well. There were two well logs recorded for the Eastwind Development site. The well logs indicated that two monitoring wells (presumably temporary) were advanced to 12.5 feet adjacent to the water tower, which is north of the large warehouse. The wells were drilled in October 1994 by Paul Stroup. The holes were reportedly sampled then filled with bentonite. Kleinfelder was not provided analytical data for samples collected from these two wells/borings. Mr. Mike Sorenson indicated that the WWTP site had two dewatering wells that were installed in 1969 and 1979 that were used to protect the clarifiers. The presence of a well, in and of itself, does not represent a recognized environmental condition. However, an uncapped or un-abandoned well can serve as a conduit for contaminants to groundwater. If the wells will not be used, the Oregon State Water Resources Department requires that the wells be capped and locked or properly abandoned.

7. **CHEMICAL CONTAINERS:** Various chemicals were stored at the WWTP property. The pesticides/herbicides are primarily used off-site. Some chemicals are used on-site, such as cleaning chemicals and small engine service petroleum products. In

general, the housekeeping of chemicals and containers at the WWTP appeared satisfactory. Kleinfelder did not observe issues with storage that indicated an immediate risk of release because of poor handling. Kleinfelder does not consider the presence or storage of these products to represent a recognized environmental condition.

Chemical containers (paint, adhesive, thinners) were noted in the Lavivrus Woodworking warehouse at 302 NW 257th Way property (Eastwind Development). The storage of the chemicals appeared satisfactory, and Kleinfelder does not consider the presence of the Lavivrus chemicals to be a recognized environmental condition.

Kleinfelder noted chemical containers at or immediately around the large warehouse located at 302 NW 257th Way / NE Harlow Road. 55-gallon drums with unidentified contents were stored outside the building that may contain mostly rainwater; however, it is not known whether there is a mixture of rainwater and chemicals in some of the drums. Kleinfelder observed 12 to 15 plastic tubes of adhesive in an old box trailer parked at the loading dock. The tubes did not appear to be leaking. A compressed gas cylinder that may contain chlorine was present in a shed north of the large warehouse. Numerous small (up to 5 gallons) chemical containers were observed inside the large warehouse. The contents of the containers were not noted, as they were located in the area that had been condemned. Kleinfelder also observed three small hydraulic oil reservoirs and 5-gallon containers in a shed connected to the north side of the large warehouse.

8. **TRANSFORMERS:** Pole-mounted and pad-mounted transformers were located at the WWTP and the Eastwind Development properties. No staining or leakage was noted. The responsibility for handling and disposal of transformers is the owner's (electric utility) should they be taken out of service. Because no leakage was noted, Kleinfelder does not consider the transformers to be a recognized environmental condition.

9. **SEPTIC SYSTEM(s):** A septic system was likely once connected to the farmhouse located in the northeastern corner of the WWTP property. Mr. Mike Sorensen of the City of Troutdale believed that the house was demolished by the City of Troutdale in the late 1980s or early 1990s. He did not know for sure whether the septic system was decommissioned at the same time. There is a potential that a septic system is still present but is not an issue that requires further investigation unless a tank is encountered during future site development. On the basis of current information, there does not appear to be a recognized environmental condition associated with the septic system should it exist.

   The former slaughterhouse operation was present on the Eastwind Development as early as 1901. There was no municipal sanitary sewer connection until long after 1969. A clarifier may not have been installed at the facility until the 1920s. The

facility either had on-site septic systems or discharged all waste directly to the river. After the clarifiers were installed, it is possible that all wastewater could have been processed at the facility prior to discharge. There is a potential that a septic system is still present but is not an issue that requires further investigation unless a tank is encountered during future site development.

10. **FLUORESCENT LIGHT FIXTURES (PCBs & MERCURY):** There is a possibility that polychlorinated biphenyl (PCB) containing light ballasts may be present where older fluorescent light fixtures are present on-site. Non-PCB containing ballasts should be labeled as such. Unlabeled ballasts should be assumed to contain PCBs. Unless the ballasts are labeled as "non-PCB" containing, they will require special handling and disposal as TSCA[3] waste prior to site demolition. Kleinfelder does not consider this issue to represent a recognized environmental condition. Fluorescent light tubes can contain mercury vapor. It is commonly considered that light tubes with silver ends contain mercury. In general, mercury-containing light tubes should be properly disposed or recycled prior to demolition of the site buildings.

11. **ASBESTOS-CONTAINING MATERIALS & LEAD-CONTAINING PAINT:** During the site reconnaissance, Kleinfelder noted building materials that have the potential of containing asbestos, such as: floor coverings, drywall/joint compound, ceiling tiles, roofing materials. An asbestos survey has reportedly not been conducted for the site buildings. According to U.S. EPA regulations, building materials must be assumed to contain asbestos, and managed as such, unless they are sampled and proven otherwise (40 CFR 763). U.S. EPA, Oregon Department of Environmental Quality (DEQ), and Oregon OSHA regulations require that an asbestos survey be conducted of the site buildings prior to demolition or renovation.

    There is also a potential for the presence of lead-containing paint coatings, based on the age of the buildings. In the event the houses are demolished, the demolition contractor must be notified of the presence of lead-containing paints (should it be present) so that the contractor may use properly trained employees. Additionally, the disposal of building debris will be based on whether the building materials with lead-containing paint are considered hazardous or not.

12. **OFF-SITE LEAKING UST FACILITY INVESTIGATIONS:** Fifteen leaking UST facilities were located within 0.5 miles of the subject site. There were no off-site releases documented to have contaminated the site groundwater, and therefore, there is no documented recognized environmental condition related to the off-site facilities.

13. **OFF-SITE FACILITY INVESTIGATIONS:** One state hazardous waste investigation was located within 0.5 miles of the subject site. The facility was located

[3] TSCA: Toxic Substances Control Act

downgradient of the subject site. Kleinfelder does not consider this facility to represent a recognized environmental condition.

3.0 RECOMMENDATIONS

Kleinfelder's Phase I Environmental Site Assessment revealed environmental concerns resulting from current or historical on-site activities. The following recommendations are presented to assess the significance of the risk associated with these environmental conditions.

1. **LARGE WAREHOUSE (EASTWIND DEVELOPMENT SITE):** Kleinfelder recommends that a site visit of the large warehouse that was condemned by the City of Gresham Fire and Emergency Services be conducted. As mentioned above, Kleinfelder was not provided access to this structure. Kleinfelder considers the lack of access to be a data gap in this Phase I ESA, but one that can be performed at a later date upon clearance by the City of Gresham Fire and Emergency Services.

2. **FORMER TANNING AND SLAUGHTERHOUSE OPERATION (EASTWIND DEVELOPMENT SITE):** Kleinfelder recommends that the subsurface soil around the former settling pond, the former glue factory, and around the eastern side of the large warehouse (302 NW 257th Way) be assessed for the potential presence of metals (primarily chromium), VOCs, and semi-volatile organic compounds. The purpose of the assessment is to evaluate whether there are potential impacted areas based on concentrations of metals (primarily chromium) and VOCs in excess of the U.S. EPA Region 10 Preliminary Remediation Goals (PRGs). These PRGs are risk-based cleanup goals for various organic and inorganic compounds.

3. **WASTEWATER TREATMENT PLANT:** If the WWTP property will be redeveloped in the future, Kleinfelder recommends that the City of Troutdale confirm whether the wastewater treatment system (clarifiers, digester, headworks, contact basin, etc.) had been sufficiently flushed and disinfected so as to reduce potential health hazards related to pathogens that could be present in sludge or sediments. Additionally, the City of Troutdale may consider conducting an assessment of the subsurface soil beneath the former sludge holding ponds that were filled for metals and semi-volatile organic compounds.

4. **FUEL OIL UST:** Kleinfelder recommends that the UST system noted next to the 302 NE Harlow Road warehouse be decommissioned by removal. Proper decommissioning will include the collection and analysis of soil samples to assess whether the UST had leaked and contaminated subsurface soil and/or groundwater.

5. **ON-SITE SOLID WASTE DISPOSAL:** Kleinfelder recommends that when the debris piles are removed from the Eastwind Development site that caution be exercised in case chemical containers or stained soils are encountered. Should containers be encountered they should be separated from the debris and properly disposed or recycled. Stained soils, if present, may need further assessment before excavation occurs.

In regard to the particleboard debris encountered by USACE's contractor in 1993, Kleinfelder recommends that a geotechnical engineer be informed of this information prior to future geotechnical studies related to redevelopment. Caution should be exercised during site development when grubbing or excavating in this area occurs in the event chemical containers or stained soils are present.

Kleinfelder also recommends that a ground penetrating radar (GPR) survey be performed in the former particleboard disposal area along with the former settling pond and former glue factory building footprint to look for buried (metallic) chemical containers such as drums and tanks. A GPR survey is limited by various factors such as depth of buried objects, interferences by buildings and parked vehicles, and subsurface soil types. However, a survey is a relatively inexpensive screening tool to help reduce the risk associated with buried objects that could result in an environmental liability to the property owner.

Kleinfelder recommends that the sediments in building trenches, clarifiers, and the subsurface soil in the former settling pond be assessed for pathogens, metals, and VOCs. If elevated concentrations are present, then Kleinfelder may recommend (1) that the clarifiers be pumped and disinfected; (2) the sediments be vactored and properly disposed; and (3) subsurface soils be excavated and properly disposed.

6. **FORMER "OIL HOUSE" BUILDINGS (EASTWIND DEVELOPMENT SITE):** Kleinfelder recommends that a GPR survey, recommended above, include the former locations of these two oil houses (shown on the 1901 and 1909 Sanborn Maps). It should be noted that the location of the two former oil house buildings is heavily overgrown with vegetation. Some clearing by heavy equipment would be necessary to access the area for a GPR survey.

7. **CHEMICAL CONTAINERS:** Kleinfelder recommends that all chemical containers on the Eastwind Development site, including hydraulic oil reservoirs, be collected, properly packaged, and recycled or disposed. The chemical containers at the Lavivrus Woodworking warehouse were still in use and are not included in this recommendation. Prior to demolition of structures at the WWTP or the Eastwind Development site, all chemical containers should be properly recycled or disposed.

8. **ON-SITE WELLS:** If site groundwater will be used in the future, the groundwater should be sampled and analyzed in accordance with its intended use. If the three wells that were revealed during this assessment (two dewatering wells at the WWTP and one industrial well on the Eastwind Development site) will not be used, they should be capped and locked (preserved for future use) or abandoned in accordance with state regulations.

9. **SEPTIC SYSTEM:** If a septic system is encountered during site development, it should be abandoned in accordance with City of Portland requirements.

10. **PCB-CONTAINING LIGHT BALLASTS:** If present, PCB-containing ballasts must be properly handled and disposed prior to demolition of the site buildings or if the fixtures are replaced.

11. **MERCURY-CONTAINING LIGHT TUBES:** Fluorescent light tubes with silver ends are generally considered to contain mercury vapor; therefore, the preferable disposal option for these light tubes is recycling as universal waste prior to demolition of the site building.

12. **ASBESTOS-CONTAINING MATERIALS & LEAD-CONTAINING PAINT COATINGS:** Kleinfelder recommends that an asbestos survey be performed prior to demolition of the site buildings. If asbestos-containing building materials are present in the buildings, then an abatement plan must be designed and the materials removed by a qualified asbestos abatement contractor.

    Prior to demolition, paint samples should be collected and analyzed for the presence of lead. The purpose of the sampling is twofold: first, the results will indicate whether notification to the demolition contractor is necessary; second, if lead is present in the paint and the site buildings will be renovated or demolished, the results will help indicate whether abatement is necessary and whether or not the demolished building debris will be considered hazardous waste.

4.0 PURPOSE, LIMITATIONS, & SCOPE OF WORK

The following report summarizes work performed following the guidelines set forth in the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-00), 2000.

4.1 Purpose

The purpose of the work described in this report was to identify, to the extent feasible, *recognized environmental conditions* existing at the subject property in general accordance with ASTM E 1527-00. A *recognized environmental condition* is defined as, "the presence, or likely presence, of hazardous substances or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *recognized environmental conditions*."

4.2 Special Terms and Conditions

This report may be used only by City of Troutdale and Eastwind Development LLC, and only for the purposes stated within a reasonable time from its issuance, but in no event later than 180 days from the date of the report. Land or facility use, on and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. 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 client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

4.3 Limitations and Exceptions of Assessment

Phase I ESAs are non-comprehensive by nature and are unlikely to identify all environmental problems or eliminate all risk. The attached report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help to better understand and manage site risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level

of service that will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss the issue of risk further.

The scope of work on this project was presented in our October 27, 2005, proposal and subsequently approved by you as our client. Please be aware our scope of work was limited to those items specifically identified in the proposal. Environmental issues not specifically addressed in the proposal or this report were beyond the scope of our work and were not included in our evaluation.

Kleinfelder performed this environmental assessment in general accordance with the guidelines set forth in the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-00)*. The EDR Radius report, attached, is compliant with ASTM E 1527-05, which was approved at the end of November 2005 and the All Appropriate Inquiry (AAI) regulation that is effective November 1, 2006. If the client desires to upgrade this report to the E 1527-05 standard and AAI regulation to potentially qualify for one of requirements of the *innocent landowner defense* under CERCLA, then additional investigation may be required.

Land use, site conditions (both on-site and off-site) and other factors will change over time. Since site 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 site visit. This report should not be relied upon after 180 days from the date of its issuance (ASTM Standard E 1527-00, Section 4.6).

The property owner is solely responsible for notifying all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

No warranty, expressed or implied, is made.

4.4 Limiting Conditions and Methodology Used

The Phase I ESA generally follows the methodology set forth in ASTM Standard E 1527-00. The scope of work implemented for the Phase I ESA included the following:

- Review of federal, state, and local regulatory agency lists and databases of facilities that use, store, and/or generate hazardous chemicals, which would help reveal recognized environmental conditions;

- Site visit to assess visually obvious features or materials that may present the potential for recognized environmental conditions;

- General visual survey for readily visible suspect asbestos-containing materials (ACMs);
- Interviews of personnel with knowledge of the site's history; and
- Site historical sources review: aerial photographs, Sanborn Fire Insurance Maps, and business directories.

5.0 SITE DESCRIPTION

5.1 Site Location and Legal Descriptions

Site Name: City of Troutdale & Eastwind Development LLC Parcels
Site Address: 410 NE Harlow Road (a.k.a. 410 NE 257th Way); Tax Lot 400
320 NE Harlow Road (a.k.a. 320 NE 257th Way); Tax Lot 500
302 NE Harlow Road (a.k.a. 302 NE 257th Way); Tax Lots 100, & 600
City: Troutdale, OR
County: Multnomah County
Size: 19.6 acres
Tax Lot: See above
Township: 1 North *Range*: 3 East *Section*: 25
Willamette Meridian, (USGS Camas, Wash.—Oreg., 7.5' Quadrangle).

5.2 Physical Setting

The site is located immediately west of the Sandy River, which flows in a northwesterly direction past the site. The Sandy River connects with the Columbia River about 1.75 miles north of the site. The City of Troutdale is located to the north, west, and south of the site. The site elevation is approximately 30 to 40 feet above mean sea level (msl). The "old" town of Troutdale is located just to the south of the site, rising in elevation to approximately 250 feet (along parts of Troutdale Road). The topography in the vicinity of the site slopes slightly to the north-northwest, toward the Columbia River, but the topography in the vicinity of the site is relatively flat. The inferred direction of regional groundwater flow is to the north or northeast, toward the Sandy River, based on the topography (USGS Camas, Wash.—Oreg., 7.5' Quadrangle). It should be noted that site-specific groundwater flow may fluctuate based on local geology, local well use, and seasonal variations.

5.3 Available Radon Data

Radon is a radioactive gas, which occurs naturally in the environment and cannot be seen, smelled, or tasted. The human-health effect associated with exposure to elevated levels of radon is an increased risk of developing lung cancer. The U.S. EPA and US Centers for Disease Control are concerned about the increased risk of lung cancer developing in individuals exposed to above average levels of radon in their homes or offices. In order to address these concerns, the U.S. EPA conducted a radon survey and presented the results for all counties in 1990.

U.S. EPA's map of Radon Zones assigns each of the counties in the United States to one of three zones. The zone designations were determined by assessing five factors that are known to be important indicators of radon potential: indoor radon measurements, geology, aerial radioactivity surveys, soil parameters, and foundation types.

The Multnomah County site falls within the designation of Zone 2. Zone 2 counties have a predicted average indoor radon screening level between 2 picocuries per liter (pCi/l) and 4 pCi/l. On the basis of the survey results, the “living area” results averaged 1.53 pCi/l and the “basement” results averaged 2.63 pCi/l, which fall below the action level of 4 pCi/l.

Details of area radon information are provided in the Environmental Data Resources (EDR) report in Appendix B.

6.0 CLIENT PROVIDED INFORMATION

6.1 Information (if any) Reported by User

The client provided Kleinfelder site location information prior to commencing work. This information assisted Kleinfelder in identifying the site location, site contacts, and site borders. City of Troutdale provided Kleinfelder the contact for gaining information regarding the site history. The contacts were Jim Galloway (City of Troutdale Public Works Director), Mike Sorensen (Wastewater Services Superintendent), and Debra Bosworth (representative for Eastwind Development LLC). Kleinfelder did not have direct contact with Junki Yoshida.

6.2 Specialized Knowledge or Experience

Kleinfelder had not conducted work on this site prior to this Phase I ESA.

7.0 HISTORICAL USE INFORMATION

The following information regarding past and current uses of the site and adjoining properties was obtained from various public and private sources. Information available through these sources is usually incomplete but may provide a general outline of the site's historical uses.

7.1 City Directories

City directories are useful for researching past site occupants by address for various years where directories are available. City directories are typically researched at five-year intervals. Polk's City Directories did not list the site addresses for the directories researched between 1966 and 1996 for the following addresses: 410, 320, and 302 NE Harlow and 410, 320, and 302 NW 257th Way. The lack of information from the resource could be considered a *data gap*, as defined by ASTM E 1527. However, given the time period that the research covered, Kleinfelder does believe the other historical sources provide sufficient overlapping information for this Phase I ESA.

7.2 Sanborn Fire Insurance Maps

Sanborn Maps were drawn by the Sanborn Fire Insurance Company to assist in underwriting properties from the late 1800s to the mid 1900s. For certain time intervals, the maps show much detail of buildings, improvements, and land uses. However, the coverage of this resource is typically limited to older districts in established towns and cities. Sanborn Maps were available for a portion of the site in 1901,1909, 1925, and 1931 (Appendix A):

1901: The Sanborn Map shows the southern portion of the site as developed for and occupied by Union Meat Company's Abattoir (slaughterhouse). The property included the following features

- corrals and pasture
- road (unimproved Harlow Road)
- scale house
- shed west of corrals (unidentified use)
- loading platforms along rail spur
- "oil room" shed located at end of spur line
- pump house located in the "river bottom" area adjacent to the Sandy River (presumably this was at a lower elevation than the slaughterhouse)

The following features were located in the main slaughterhouse building that was located adjacent to the rail spur:

- killing floor (under roof)
- refrigeration room
- hide salting and storage area

- steam kettles and rendering room
- ammonia condenser
- three boilers
- cistern

The following features were located in the long, narrow building located at the top of the Sandy River bank (from south to north). The purpose of the building appeared to be related to the slaughterhouse operation.

- sweat room
- washing and pressing room
- water tower
- glue room
- fertilizer room
- warehouse
- small shed

There were "irregular cord wood" piles north of the fertilizer building. The purpose of the wood storage appears to be fuel for the slaughterhouse boilers.

1909 The Sanborn Map generally depicted similar site use as the 1901 map. Additional information indicated that sheds had been constructed in the corral area for cattle, hogs, and sheep. The shed west of the corrals noted in the 1901 map was used for "boarding." There also appeared to be three cabins located on the west and north sides of the stock yard. The main slaughterhouse indicated an additional (fourth) boiler. Some of the rooms indicated slightly different uses: laundry on third floor and cold storage on second floor of main warehouse. An addition to the building included additional kettles.

The "oil house" noted in 1901 was no longer present. The "oil house" was apparently moved into the pump house (about 75 feet north of the old location), which was shown on the 1901 map. A 25,000-gallon water tank was located adjacent to the new oil house location. There was a 10,000-gallon water tank in the southeastern corner of the site.

A new building indicated lime and acid storage. The building was located west of the previously noted long, narrow warehouse/fertilizer building. In 1909, this building was labeled with the following activities: wool pulling and bailing; glue factory; and fertilizer cooking, drying, and packing.

1925 The site configuration appears to have changed. The main site building was indicated to be adjacent to the rail spur, in a general east-west orientation. The building was labeled: Bissinger and Company, wool pullery. The coverage of the 1925 Sanborn Map did not show the previously described site buildings. It appears that the old slaughterhouse had undergone refurbishment or

reconstruction. The cattle, hog, and sheep sheds and the fertilizer/glue factory buildings may have been removed since they were not shown or covered by the Sanborn Map.

1931 The 1931 map was generally unchanged from the 1925 Sanborn Map.

7.3 USGS Quadrangle Map

USGS quadrangle maps can indicate very generalized land use information over a specific time interval. Kleinfelder reviewed the Camas, Wash.—Oreg. 7.5-minute quadrangle. The map was first drawn in 1961 and photorevised in 1970 and 1975. Photorevisions are color-coded in purple.

1961 The site was indicated to have a long, narrow warehouse located immediately north of a east-west Union Pacific Railroad line. A spur line served the on-site warehouse. The map indicates there was a water tower on-site. An unimproved road had crossed the railroad and winds northward across the site then along the top of the bank for the Sandy River. The road terminated just south of Interstate 84, which is an east-west interstate highway. This unimproved road appears to have been an extension of Harlow Road. The properties located south of the site appeared to be commercial type land uses.

1970/1975 Additional buildings had been constructed on the 410 and 320 NE Harlow Road properties (wastewater treatment plant). Two structures shown as round dots could be clarifiers that were in use by the City of Troutdale Wastewater Treatment Plant. A small warehouse had been constructed near the railroad track and west of the large warehouse noted on the 1961 map.

7.4 Aerial Photography Review

A review of historical aerial photography may indicate past activities at a property not documented by other means, or observed during a property visit. The effectiveness of this technique depends on the scale and quality of the photographs and the available coverage. Available aerial photographs providing coverage of the site were obtained from the U.S. Army Corps of Engineers in Portland, Oregon, and Metro's online GIS map. The following is a tabulation of the aerial photographs reviewed:

Date	Flight/Photo #	Scale	Color	Stereo
September 3, 1935	---	1:16,000	B/W	No
June 29, 1948	--- (1948 floor photo)	1:6,000	B/W	No
July 22, 1955	---	1:20,000	B/W	No
September 28, 1968	---	1:6,000	B/W	No
May 3, 1972	---	1:24,000	B/W	No

Date	Flight/Photo #	Scale	Color	Stereo
September 15, 1983	---	1:24,000	Infrared	No
February 9, 1996	--- (2/96 flood photo)	1:24,000	Color	No
July 2004	Metro-Region.org	---	Color	No

The results of our aerial photography review are presented below.

1935 The site was a combination of fields, warehouse buildings, and a rural residence. The fields covered most of the site except the southeastern quarter and the northeastern corner of the site. The site appeared to be served by a rail spur adjacent to the site's southern border. Harlow Road (unpaved) intersects the Union Pacific Railroad and then meanders across the site to the northeastern corner. The large warehouse structure is consistent with the 1931 Sanborn Map. There were two separate outbuildings west of the warehouse. A circular pond was located to the west of the warehouse (still present on-site). A water tower was located on the north side of the warehouse. No other "wool pullery" buildings were apparent. At the northeastern corner of the site, there was a rural dwelling. Downtown Troutdale was located south of the railroad. A warehouse was located south of the railroad and the site.

1948 The wool pullery buildings were generally unchanged from the 1935 aerial photograph. The rural dwelling (and two outbuildings) were still present on-site. A significant amount of ground disturbance was evident along the old Harlow Road, a couple branches east of the wool pullery, and another heading to the northwest. The reason for the disturbance was not indicated elsewhere in Kleinfelder's research, but our speculation is that the "branches" appear to be a levee system. Since the 1948 photograph was taken just after the 1948 Flood, it was apparent that the Sandy River did not reach the "levee" that was under construction. There were indications of the initial footing construction of the Interstate 84 bridge over the Sandy River, north of the site.

1955 The potential levee system noted in 1948 was only partially evident. The wool pullery and residential buildings were still present. Some of the fields appeared to have been cultivated. Interstate 84 and the associated bridge over the Sandy River was shown.

1968 A new warehouse had been constructed on-site, west of the wool pullery building. The construction of this smaller warehouse included a graded parking area between the two warehouses. A large, circular pond had also been constructed between the water tower and the Sandy River. There was evidence of a clarifier associated with the large warehouse. The three farm buildings were

still located in the northeastern corner of the site. Access to the farm buildings consisted of a new unpaved road across the site's northern border. This is the current northern alignment of NW 257th Way. A greater amount of the fields on-site showed evidence of hay cultivation. A second bridge for Interstate 84 had been constructed over the Sandy River.

1972 The 1972 aerial photograph showed the beginnings of development for the Troutdale WWTP in the northern half of the subject site. The two circular ponds and the water tower were still present on-site. Harlow Road was still evident on-site, but as an unpaved road. Warehouses were still present south of the railroad and the site.

1983 The early stage of the WWTP consisted of the aeration basin, a clarifier, chlorine contact basin, digester, and a sludge storage lagoon. The warehouse buildings were still present in the southern portion of the site. The aerial photograph showed various unidentified materials storage to the north and west of the large warehouse. The large circular pond appeared to have been filled, though there was still evidence of its former location. The rail spur was still present, but did not appear to be in use.

1996 The aerial photograph indicated that the WWTP had been expanded. The old sludge ponds had been filled and replaced with a larger pond in the southwestern corner of the site. The two old warehouses were still present. The Factory Outlet stores had been developed on the property to the west of the site.

2004 The site is generally shown as what was observed during the site reconnaissance in November 2005. The downtown core of Troutdale (south of the site) had been redeveloped for commercial retail and office uses.

NOTE: Aerial photographs only provide information on indications of land use and no conclusions can be drawn from the photographs alone. Stereo pairs are not typically available in the Army Corps of Engineers collection because the flight lines do not necessarily follow straight lines. In addition, the digital copies of aerial photography Kleinfelder requests for review and backup documentation do not readily allow for stereo pairs at consistent scales.

7.5 Chain-of-Title Report

A chain-of-title was not provided for review within the timeframe of this project.

7.6 Current Use and Ownership of the Property

The site is currently owned by:

City of Troutdale:

410 NE Harlow Road (a.k.a. 410 NE 257th Way); Tax Lot 400
320 NE Harlow Road (a.k.a. 320 NE 257th Way); Tax Lot 500

The site is currently used by the City of Troutdale for Facilities and Maintenance as an office and storage yard. The WWTP was shut down in November 2001 because a new WWTP had been constructed north of the Troutdale Airport.

Eastwind Development LLC

302 NE Harlow Road (a.k.a. 302 NE 257th Way); Tax Lots 100, & 600

The smaller warehouse is leased to a woodworker. The large warehouse is vacant and has been condemned by Gresham Fire and Emergency Services.

7.7 Interviews

410 and 320 NE Harlow Road/NW 257th Way

On November 16, 2005, Kleinfelder met with Mr. Mike Sorensen (Wastewater Services Superintendent) and James Galloway (City of Troutdale, Public Works Director). Mr. Sorensen has been involved with the WWTP since 1983.

The City of Troutdale purchased two parcels around 1969. The previous land use was farmland and a residence. The WWTP was built in 1969 with upgrade expansions in 1979 and 1992. Mr. Sorensen remembered that the City of Troutdale Parks Department occupied an old farmhouse on the property until it was demolished in the late 1980s or early 1990s. The WWTP was closed in November 2001. Since 2002, the City of Troutdale Parks and Facilities Department has utilized the shop building, the northern warehouse, a couple sheds, and some exterior storage areas.

The WWTP had previously used chlorine gas as a disinfectant in 150-pound cylinders and lube oil. Mr. Sorensen and Mr. Galloway knew of no underground storage tanks (USTs), aboveground storage tanks (ASTs), or dry wells.

There were two groundwater monitoring wells for dewatering around the clarifiers. The purpose of the dewatering was to protect the clarifiers. The wells were installed in 1969 and 1979. The clarifiers are about 15 feet deep. The facility is connected to the municipal water supply. There were no on-site septic systems associated with the WWTP.

Mr. Sorensen believes that Portland General Electric owns the on-site transformers.

The City of Troutdale knew of no environmental liens, judgments, citations, violations, or lawsuits related to the WWTP.

Mr. Sorensen stated that there have been pre-treatment ordinances by the City of Troutdale in place for several years that limit what wastewater can be discharged to the

City system. There are also Federal Clean Water Act limits that pre-date the City ordinances. Mr. Sorensen stated that the Reynolds Aluminum plant, which is north of the site, was not connected to the municipal system or the WWTP. Mr. Sorensen also stated that the large warehouse on the Eastwind Development site (302 NE Harlow/NW 257th Way) had its own clarifier.

Between 1969 and the late 1980s, the WWTP accepted septic waste by truck. The septic waste, by nature, was more concentrated than the waste that the WWTP received by pipe in the municipal system. For a time, there was a tenant (Wastewater Management, Inc.) that operated a separate septic pre-treatment business on-site (320 NE Harlow). The operations used chlorine treatment prior to discharge to the WWTP. The business had occasional problems with the WWTP that resulted in the WWTP shutting off their discharge in at least one instance.

A 21-inch pipeline enters the facility and is connected to the headworks, which is the preliminary pre-treatment. The wastewater is then routed to the primary clarifier then secondary clarifier. The next step is the digester. Treated water is then used for land application or routed to the disinfection basin. The WWTP disinfected treated wastewater with chlorine up until 1994. After 1994, the WWTP used ultraviolet light technology instead of the chlorine. Disinfected water was discharged to the river. Mr. Sorensen knew of no leaks or spills at the facility to soil or groundwater. However, sludge was discharged to an on-site settling pond. One of the WWTP expansions (1992) included closure of two unlined ponds and construction of a larger pond, which is still present.

Mr. Sorensen stated that there is still sludge present in the digesters and in the sludge lagoon. The WWTP is in the process of transporting the sludge off-site, and Mr. Sorensen is estimating the work will be complete by the Summer of 2006.

Mr. Sorensen believed that the depth to perched groundwater is approximately 6 feet in some areas of the facility.

<u>302 NE Harlow Road/NW 257th Way</u>

On December 13, 2005, Kleinfelder interviewed the tenant of the smaller warehouse located at 302 NE Harlow Road. It is Kleinfelder's opinion that Doug Jones, Lavivrus Woodworking, was the best available source for history of the Eastwind Development parcels because he has worked at this part of the site since 1997. Mr. Junki Yoshida, while a local resident, does not appear to have specific site history information, according to Kleinfelder's conversation with Ms. Debra Bosworth, Mr. Yoshida's representative.

Mr. Jones had heard that the site had been used as a ranch since the early 1900s and used for "winter sheep" processing. The warehouse was reportedly constructed in 1922. The large warehouse had an oil-fired boiler. Mr. Jones remembered there was

an approximately 300-gallon heating oil UST outside the western wall of the warehouse and north of the boiler room. He believes that the UST is still present. The clarifier had been present at the facility prior to 1972, according to Mr. Jones.

Mr. Jones stated that Don Bennett owned the 302 NE Harlow Road property between 1972 and 1991. The warehouse may have been vacant for a time prior to 1972. David Bennett owned the site from 1991 to 1999 or 2000. The Bennetts made cabinets, counter tops, and speaker boxes. Speaker manufacturing involved vinyl laminate. Mr. Jones stated that the housekeeping practices were considered to be "average." He does not remember that the woodworking businesses conducted much on-site finishing of products. Some speaker box manufacturing by a previous tenant may have included painting. Mr. Jones stated that most of the waste generated during the woodworking era was solid waste, which included used adhesive containers. Adhesive containers were not typically waste. Empty containers of adhesive were allowed to harden then they were disposed as solid waste.

Mr. Jones stated that he thought Mr. Yoshida owned the site since 2001. Mr. Yoshida and David Bennett may have had a mutual ownership interest between 2000 and 2003.

Mr. Jones does not remember DEQ involved with the 302 NE Harlow Road/NE 257th Way site.

On November 18, 2005, Kleinfelder followed up on information first mentioned by Mr. Galloway during our conversation about site history. Mr. Galloway remembered a project involving the U.S. Army Corps of Engineers (USACE) in 1993. Kleinfelder spoke with Mr. Dick Gamble of USACE. The 1993 project involved revetment (rock lining) of the Sandy River bank adjacent to the WWTP. During the excavation work, the contractor encountered buried waste on the bank. Ms. Jane Bolton, civil engineer for USACE, determined that the waste material was not a potential hazardous material issue. She documented the assessment in an August 13, 1993 memorandum, included in Appendix C. The August 1993 memorandum reported that the landfilled debris was 90-95% particleboard. Much of the material had a veneer finish, and other disposed materials included concrete, a tire, rubber gaskets, plastic containers, etc. Mr. Gamble stated to Kleinfelder that he did not believe the entire landfill had been excavated and disposed off-site.

8.0 RECORDS REVIEW

Public, agency, and company records are sources of information that may be useful in evaluating activities that may result in recognized environmental conditions. The following agencies, companies, and individuals were contacted for records concerning the subject property. Information obtained from these sources is presented in the following sections.

- U.S. Environmental Protection Agency (EPA): Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Emergency Response Notification System (ERNS), and Resource Conservation and Recovery Act (RCRA) databases

- Oregon Department of Environmental Quality (DEQ): Underground Storage Tank (UST) facilities, Leaking USTs, Confirmed Releases List (CRL), Environmental Cleanup Site Information (ECSI) database, and Solid Waste Active Disposal Permits databases

- Local Fire Department

- Local Building Division

- Oregon Water Resources Department, recorded well logs

8.1 Standard Environmental Record Sources

The following information was obtained from regulatory listings and contacted agencies and individuals. The databases reviewed by EDR and the associated areas of study are described below. EDR's report is included in Appendix B. The search distances from the site in the following sections are recommended by ASTM Standard E 1527-00. The EDR Radius report, attached, is compliant with ASTM E 1527-05, which was approved at the end of November 2005 and the All Appropriate Inquiry (AAI) regulation that is effective November 1, 2006.

It should be noted that the EDR Radius Map report occasionally lists facilities that are not within the search radius of the site due to poor location information in the source databases. Other facilities might be listed as "orphans" where the locations are not known and, therefore, they are not plotted. Kleinfelder might not review regulatory agency files for these facilities when: (1) Kleinfelder considers the information to not be readily ascertainable because the location of the facility can not be readily determined; (2) the off-site facility's impact to the site's soil and groundwater is unlikely due to the distance from the subject site; or (3) the number of files to be reviewed by Kleinfelder has been limited by the scope of work.

8.1.1 Federal

Environmental Protection Agency

The following lists from the Region 10 Office of the U.S. EPA were reviewed:

Federal NPL (National Priority List)

The NPL (Superfund) database is a subset of CERCLIS properties and identifies over 1,200 facilities for priority cleanup under the Superfund Program. There were no listed NPL facilities within 1.0 miles of the site.

Federal CERCLIS List

The CERCLIS list is a database of known and potentially hazardous waste facilities reported to the U.S. EPA by state and local agencies and the general public in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS database was reviewed for facilities within 0.5 miles of the site. There were no listed CERCLIS facilities within 0.5 miles of the site.

Federal RCRA List

The RCRA list identifies facilities that have obtained identification numbers from the U.S. EPA, which designate these businesses as generators, transporters, or storers/disposers of hazardous waste. Obtaining an identification number does not mean that any hazardous materials have been improperly handled at any of these facilities. The generator's list was reviewed for the site and adjacent facilities, and the Treatment, Storage, and Disposal (TSD) list was reviewed for facilities within 0.5 miles of the site. There were no TSD facilities within 0.5 miles of the site listed in the database.

The following facilities listed as RCRA generators were located on or adjacent to the site:

D and D Manufacturing (Third Dimension)
302 NW 257th Way
SUBJECT SITE

U.S. EPA summary information indicates that D and D Manufacturing was a Small Quantity Generator of hazardous waste. There were violations recorded:

TSD-Other Requirements: January 1992 determined; achieved compliance in April 1992. Enforcement Action: written informal in January 1992; Civil Action for Imminent Hazards in April 1992 (proposed monetary penalty).

Generator-General Requirements: December 1991 determined; achieved compliance in April 1992. Enforcement Action: written informal in January 1992; Civil Action for Imminent Hazards in March and April 1992 (proposed monetary penalty).

D and D Manufacturing was fined $2,100 for two violations. Further detail was not available.

Columbia Gorge Factory Stores
450 NW 257th Avenue
Adjacent to the west

The facility was listed as a Small Quantity Generator of hazardous waste. There were no violations reported.

Federal CORRACTS

The Corrective Action Report (CORRACTS) developed by U.S. EPA identifies hazardous waste handlers with RCRA corrective action activity. The database did not list facilities within 1.0 miles of the site.

Federal Emergency Response Notification System

The ERNS database records and stores information on reported releases of oil and hazardous substances. The database was checked for records of emergency responses for the subject site. No such listings were found.

8.1.2 State

The following summarizes the information obtained from the State of Oregon. Specified search distances are those identified in the ASTM standard.

Environmental Cleanup Site Information System (ECSI)

The ECSI system includes facilities entered into the DEQ database pursuant to the site discovery requirements of ORS 466.560. The list includes facilities where there has been a confirmed release of hazardous substances, facilities where investigation or cleanup has been initiated, and facilities suspected of a release of hazardous substances. The search radius for facilities listed in this database is 0.5 miles. One ECSI facility was located within the search radius for the database:

AAR Western Skyways
Troutdale Airport
Approximately 0.5 miles north of the site

The facility (aircraft maintenance) was listed on both the ECSI and the Confirmed Release List (CRL). The DEQ summary information indicates there were six 530-gallon USTs that contained used oil, paint thinner, spent solvents, and gasoline. Releases of solvents, either be surface releases or poured in a pipe drain, had reportedly occurred at the facility. In 1986, an UST that contained methylene chloride overflowed, spilling approximately 100 gallons. DEQ was notified but no action was initiated by DEQ. An independent investigation found that soils had been contaminated with cyanide, lead, chromium, and chlorinated solvents. The contamination and USTs were reportedly removed in 1990, but without oversight by DEQ. The facility was placed on the CRL after the cleanup had apparently occurred. DEQ has required a state level Preliminary Assessment. Because the facility is located downgradient of the subject site, further review of the facility file is not warranted.

Summary of Confirmed Release List (CRL)

This database is a listing of facilities by DEQ that are contaminated with hazardous wastes, petroleum products, and other hazardous substances. This database was reviewed for facilities on or within 1.0 miles of the site. Facilities picked up on this database are included on the ECSI database. The following CRL facility was located within the search radius for the database:

AAR Western Skyways
Troutdale Airport
Approximately 0.5 miles north of the site

See previous paragraph for detailed discussion.

Leaking Underground Storage Tank Incident Reports

This DEQ database is a listing of below-ground releases from petroleum underground storage tank (UST) systems or reportable surface spills. The list also includes aboveground releases to water which result in a sheen. The search radius for facilities listed in this database is 0.5 miles. There were 15 facilities within the search area listed on this database. None of the listed facilities were located immediately upgradient of the subject site and were considered to be a potential recognized environmental condition to the subject site. Kleinfelder does not believe further file review is warranted.

Registered Underground Storage Tank List

This DEQ database lists facilities with registered USTs in operation and decommissioned USTs. The search radius for facilities listed in this database is the site and adjoining properties. No registered USTs are listed for the subject site or the adjacent properties.

The heating oil UST that is reportedly located on the 302 NE Harlow subject property was not listed with DEQ because it is exempt.

State Landfill and/or Solid Waste Disposal Site Lists

No state landfills and/or solid waste disposal sites were located within 0.5 miles of the subject property. Although the site was not officially listed as a landfill site, comments from the USACE and Mr. Galloway indicate land filling has occurred at the site.

8.2 Well Logs, Fire Department, and Local Building Department

Oregon Water Resources Department

The Oregon Water Resources Department maintains records of well logs installed in the state of Oregon. The Department's records of the well logs are extensive; however, they do not necessarily reflect the actual number of water wells within the state.

There were two well logs recorded for the site. The well logs indicated that two monitoring wells (presumably temporary) were advanced to 12.5 feet adjacent to the water tower, which is north of the large warehouse. The wells were drilled in October 1994 by Paul Stroup. The geology is described as gravel fill in the upper 2 feet, underlain by “moist brown sand” between 2 and 8 feet bgs, and “wet brown sand” between 10 and 12.5 feet bgs. The holes were reportedly sampled then filled with bentonite.

City of Troutdale Building Department

The Building Department maintains records of building permits within the City. Building permits are not issued for USTs within the City. The following information was provided by the Building Department:

410 NW 257th Way, City of Troutdale, (Old Treatment Plant "Vacant"):

November 1978: Building permit for "new sewage treatment plant"
July 1980: Building permit for chlorine storage
February 1982: Grading permit for "fill"
April 1983: Building permit for alteration
April 1992: Building permit for expansion
June 1994: Building permit for sodium hypochlorite pretreatment
June 2003: Building permit for greenhouse

320 NW 257th Way, City of Troutdale, (Facilities Maintenance):

June 1984: Building permit for sludge drying bed
February and March1992: Development permit for paving and parking lot
August 1994: Building permit to modify drying bed
January 1996: Building permit to pave

302 NE [sic] 257th Way, Eastwind Development LLC, Yoshida Group (current owner):

July 1974: Building permit for re-roof
May 1979: Building permit for roof
January 1984: Building permit for storage building
October 1984: Building permit for addition
May 1992: Plumbing permit for storm line
October 1994: Public Works permit for back flow
November 1994: Building permit for cell phone antenna
November 1994: Plumbing permit for dry well storm line

The location of the dry well shown in the November 1994 plumbing permit record was not indicated.

City of Gresham Fire Department

The City of Troutdale contracts with the Gresham Fire & Emergency Services for fire protection within the city. According to Fire Marshall Gus Lian, the only hazardous material issues known were chemical containers noted in the large warehouse at 302 NE Harlow Road when the building was condemned by Gresham Fire. Mr. Lian knew of no emergency responses to hazardous material incidents at the site. Gresham Fire's records did not indicate the presence of USTs at the site.

City of Portland, Bureau of Development Services

A septic system could have been associated with the former farmhouse that was located in the northeastern corner of the WWTP property. There is no indication, at this

time, that when the City of Troutdale demolished the old farmhouse sometime between 1983 and 1996 a septic system had been abandoned. The address of the old farmhouse is not known. Mr. Phillip Crawford of the Sanitation Division of BDS stated that there were no records of septic systems on the site. Mr. Crawford stated that decommissioning records are generally maintained for the last seven years.

9.0 INFORMATION FROM SITE RECONNAISSANCE

A property visit was conducted on November 18, 2005, for the City of Troutdale properties and December 1, 2005, for the Eastwind Development properties. The purpose of the property visit was to look for obvious visual indications of historical or current operations that may have resulted in possible soil and/or groundwater contamination. The site visit included a visual evaluation of the grounds for indications of hazardous-waste storage and disposal areas, storm drainage, underground and aboveground storage tank locations, and hazardous-material storage and use areas. The site visit also included a general visual assessment of the potential presence of building materials suspected to contain asbestos. Refer to Figure 2, the Site Map, for locations of features referenced in this section.

9.1 Site and Vicinity Characteristics

City of Troutdale, 410 and 320 NW 257th Way / NE Harlow Road

The site was developed as a wastewater treatment plant (WWTP) by the City of Troutdale. The WWTP had been shut down due to the development of a new plant north of the site. The City of Troutdale Parks and Facilities Department was using six of the buildings (office/shop, three storage sheds, greenhouse, and the steel warehouse). The Police Department may also be using the grounds to store a few vehicles. According to Mike Sorensen, the WWTP still has operational components such as the capability to pump storm water from the sludge pond, aeration basin, and clarifiers.

The Parks and Facilities Department staff uses one of the site buildings for a combination office and shop. The shop had two flammables storage cabinets that contained gasoline. The staff employee stated that used oil collected for small engine servicing is collected in a drum and periodically taken off-site for recycling. Vehicle service work is conducted off-site. On the north side of the shop are three storage sheds, two of which are used to store pesticides and paint. A Parks staff employee stated that used pesticide containers and empty backpack sprayers are rinsed either on or off-site depending on the circumstances.

Kleinfelder's interview of Mr. Sorensen (summarized in Section 7.7) provides a brief description of the former WWTP operation, including a description of a former tenant's (Purifax) treatment operation on-site. Please refer to Section 7.7 for a description of the former WWTP's general operation.

Currently, various buildings (warehouse, laboratory, and digester building) and other structures (headworks, primary and secondary clarifiers, aeration basin, UV treatment/disinfection basin, digester, etc.) were still present on the subject site. The former chlorine contact basin (last used as UV disinfection treatment) formerly utilized chlorine gas to disinfect treated water prior to discharge to the river. Chlorine was

received in cylinders and used up in the process. There was no waste residue generated. UV lamps were cleaned occasionally with phosphoric acid.

The site's topography is generally flat with the exception of a large (one-million gallon) sludge storage lagoon. The lagoon is no longer in use, but it has collected storm water. Exterior portions of the WWTP facility were planted with some annual grasses, trees, and shrubs.

Eastwind Development LLC, 302 NW 257th Way / NE Harlow Road

A large warehouse was located in the south central portion of the Eastwind Development property. Reportedly, this building was constructed around 1922. Loading docks were located on the north and south sides of the warehouse. A rail spur adjacent to the southern loading platform appeared to be mostly overgrown with vegetation. Kleinfelder was able to view some areas of the eastern portion of this warehouse. However, because Gresham Fire had condemned the large warehouse, Kleinfelder did not have access to the western and central portions (including the boiler room) of the warehouse. Kleinfelder considers the inaccessibility of the site's main building as a data gap. In an effort to partially mitigate for the data gap, Kleinfelder requested information about the interior condition by Gus Lian of Gresham Fire. Mr. Lian indicated some chemical containers were noted during their inspection of the building. Moreover, Gresham Fire and City of Portland Fire have both used the building for training purposes, which may indicate that if leaking chemical containers were observed by personnel training on-site, the site owner would have been notified. Kleinfelder did note several chemical containers inside a door on the south wall of the building. The containers appeared to be organized into a limited area.

The large warehouse also had a boiler room on the western side of the building. A cut in the exterior concrete slab ran from the boiler room to a nearby vent pipe against the western wall. See below for discussion about the probability of a heating oil UST.

The smaller warehouse was occupied by a woodworking business, Lavivrus Woodworking. Mr. Doug Jones provided access to his shop on the date of the site visit. Kleinfelder noted storage of paints and thinners in the shop.

A small area of the property was a fenced compound where a cellular tower had been constructed. This is a leased area. The equipment in the compound appears to include a backup diesel generator, which is typical for such facilities. The diesel fuel is apparently stored in the equipment, aboveground.

Mr. Sorensen (City of Troutdale) indicated that he has observed two old clarifiers at the 302 NW 257th Way site. He believed the clarifiers may have been used during the days that the site operated as a wool pullery or slaughterhouse. One of the clarifiers (west of the large warehouse) contained large fish at one time. A chlorine "dispenser", piping,

pressurized cylinder, and two unlabeled 55-gallon drums were observed in a shed next to the northern clarifier.

The exterior portions of the Eastwind Development site consisted of gravel parking, concrete slabs (near the buildings), annual grasses, blackberries, and shrubs. Some debris piles were noted east of the gravel access road and north of the large warehouse. The debris consisted of wood and metal debris, some household furniture and appliances, and some tires. Not all parts of the debris piles were observed.

Kleinfelder viewed the eastern edge of the overall site as roughly the top of bank for the Sandy River.

The site was bounded by the following roads, improvements, or land uses:

North	Interstate 84; vacant land; Sandy River
East	Sandy River; Lewis & Clark State Park
South	Union Pacific Railroad; Old Troutdale (retail, office, restaurant land uses)
West	Troutdale Factory Stores (retail)

9.2 Descriptions of Structures, Roads and Other Improvements on the Site

City of Troutdale, 410 and 320 NW 257th Way / NE Harlow Road

Metal warehouse/shop: The Parks and Facilities Department used the building to store landscaping equipment (e.g., tractor, implements, other miscellaneous materials).

Digester Building: The building was centrally located and was formerly part of the wastewater treatment process at the facility. The digester was not operational. A sludge loading station was located outside the western side of the structure. The pumps in the building were electric and the boiler/heat exchangers were fired by natural gas. The building has a below grade level where some of the equipment is located.

Primary and Secondary Clarifiers: There are three clarifiers, which were circular pits partially filled with storm water. The clarifiers were not operational at the time of the site visit, but Mr. Sorensen stated that they have the capability of pumping out the storm water. Kleinfelder did not note obvious petroleum sheens on the water present in the clarifiers.

Aeration Basin: The aeration basin is an oval-shaped concrete-lined basin that was formerly used for secondary treatment of wastewater. Some standing water was present in the basin. Kleinfelder did not note obvious petroleum sheens on the water present in the basin.

Vac-on Station: The small area of the site located just east of the metal warehouse was used to collect sand grit. A storm drain is connected to the WWTP underground plumbing.

Chlorine Contact Basin: This basin was located on the eastern side of the WWTP. It was originally used to disinfect treated water prior to discharge to the Sandy River. The WWTP retrofitted the basin with UV lamp treatment system. This improvement includes a wash station for the UV lamps, which were occasionally cleaned with phosphoric acid. The cleaning solution was plumbed to the WWTP, according to Mr. Sorensen. The contact basin had collected some storm water. Kleinfelder did not note a petroleum sheen in the contact basin.

Laboratory Building: This small, square-shaped building on the eastern side of the treatment plant was formerly used by WWTP staff to analyze wastewater samples. Currently, the building appears to be used to store tools, supplies, some cleaning compounds, a can of paint, and two quarts of oil. The building had a concrete slab.

Sludge Storage Lagoon: A large, 1-million gallon lined sludge storage lagoon is located in the southwestern portion of the WWTP property. The pond no longer receives sludge from the WWTP, but the lagoon is partially filled with storm water. Kleinfelder did not note a petroleum sheen in the contact basin. The former sludge ponds (100,0000-gallon capacity) were located to the west of the digester building and north of this lagoon. The former sludge ponds were filled to grade and planted with grass.

Parks & Facilities Office/Shop (320 NW 257th Way): This building is currently occupied by the City of Troutdale Parks & Facilities and is used as an office and shop. The building was formerly used by the Purifax tenant. Outside the building are two holding tanks that were formerly used for septic waste and treated waste. Septic waste was formerly transported to the 320 NW 257th Way parcel when the Purifax wastewater management business was in operation. The building had a concrete slab.

Drying Beds: Purifax constructed this structure for use for their former operation. A low concrete wall surrounds the drying beds. There is no roof. The old drying beds are no longer in use.

<u>Eastwind Development, 302 NW 257th Way / NE Harlow Road</u>

Small Steel Warehouse: There is a rectangular steel warehouse in the western portion of the 302 NW 257th Way property. The warehouse was constructed on a concrete slab. The warehouse has overhead doors. There is a small office in the building. The building was used by a woodworking business.

Large Abandoned Warehouse: There was a large warehouse located on the 302 NW 257th Way property. The building appeared to have been constructed in stages because there was steel-sided, brick, and concrete wall construction evident. Gresham

Fire and Emergency Services condemned the warehouse; therefore, Kleinfelder did not have access to the interior of the building. Some interior spaces were viewed through unsecured doors on the eastern side of the building. Kleinfelder noted timber framing, wood siding, and concrete floors. Portions of the building were more than two stories tall. The building had a boiler room on the western end of the building. Adjacent to the boiler room was a single-story office building. The boiler room and office was locked and inaccessible. A small well pump room was open on the western side of the building. There appeared to be a turbine pump attached to a wellhead.

The building had loading docks on the northern side of the building. A large, covered truck port was also located on the northern side of the building. Concrete slabs were present outside the building's western door, under the truck port, and at the loading dock.

A loading platform was located on the southern side of the building. An old rail spur ran parallel to the loading platform. The rail spur was overgrown with vegetation, but it appeared that the rail spur was concrete paved.

Water Tower and Cellular Antenna: A large, steel water tower was located north of the large warehouse. It was not known whether the tower contained water. There were cellular antennas on the water tower. A small, fenced compound was located at the base of the tower for the antenna control room and backup generator.

Clarifiers: There were two concrete clarifiers to the west and north of the large warehouse. The clarifier on the west appeared to be older and the equipment normally seen on clarifiers was no longer present. The clarifier to the north of the warehouse appeared to be associated with subsurface vaults and chlorine contact equipment in adjacent sheds. Kleinfelder observed pooled oil and oil staining on pump equipment located in the shed attached to the large warehouse. Kleinfelder speculates that the pump is part of a system that formerly pumped wastewater from floor troughs in the condemned warehouse to the clarifier.

9.3 Labeled Hazardous Substances Containers

Kleinfelder noted the following chemical containers on the site:

CHEMICAL	QUANTITY	STORAGE CONTAINER & LOCATION	USE	HOW IS WASTE DISPOSED?
Gasoline	<10 gallons	Gas cans in flammables storage cabinet in Parks and Facilities shop (320 NW 257th Way)	Used in small engines for off-site activities	---
Used oil	<55 gallons	Steel drum in Parks and Facilities shop (320 NW 257th Way)	Servicing small engines	Periodically sent to recycler
Paint	---	1-5 gallon containers in storage shed with concrete floor (320 NW 257th Way)	Storage	Not indicated
Pesticides & herbicides	---	Various containers in storage shed with concrete floor (320 NW 257th Way)	Storage; use is at off-site City of Troutdale properties; used with backpack sprayers	Containers rinsed either on or off-site
Cleaning solutions	Small quantity	Typical containers stored in laboratory building (410 NW 257th Way)	Cleaning	Not indicated
Paint	<1 gallon	1-gallon paint can in laboratory building (410 NW 257th Way)	Storage	Not indicated
Motor oil	<2 quarts	Two 1-quart oil containers in laboratory building (410 NW 257th Way)	Storage	Not indicated
Various paints and thinner	<50 gallons	Various small containers up to 5-gallon buckets (302 NW 257th Way)	Used in woodworking	Apparently used up in process. Used paint containers allowed to dry then disposed as solid waste
Gasoline	<2 gallons	2.5-gallon can in shop (302 NW 257th Way)	---	---
Adhesive	---	Adhesive in 12-15 plastic tubes located in box trailer parked at loading dock (302 NW 257th Way)	Apparent adhesive from former cabinet manufacturing	Abandoned in box trailer

There was a car battery on a wood pallet outside the small warehouse (302 NW 257th Way). A vehicle gas tank (apparently empty) was also stored on the pallet.

9.4 Unidentified or Unlabeled Substance Containers

Kleinfelder noted the following chemical containers on the site where the contents could not be identified:

VISUAL DESCRIPTION OF CONTENTS	QUANTITY	STORAGE CONTAINER & LOCATION	USE	WASTE
Possible rain water residue	<10 gallons	Four steel 55-gallon drums with open bung tops; located off northwest corner of large warehouse (302 NW 257th Way)	Not apparent	Not apparent
Possible hydraulic oil	<20 gallons	Three 5-gallon containers located in open shed (with fire suppression riser) of large warehouse. Two box containers with hose fittings and oil stains (302 NW 257th Way)	Stored. Former use may have been for pneumatic equipment/tools.	Proper disposal required
Hydraulic oil	<20 gallons	Possible wastewater pump east of truck loading dock; staining and pooled oil on pump parts (302 NW 257th Way)	May have been related to former wastewater transfer from wool pullery to clarifier	Proper disposal required
Various chemical containers	<50 gallons	Up to 5-gallon sized containers located on concrete floor of large warehouse in condemned section (302 NW 257th Way)	Not apparent	The containers appeared to have been consolidated at this location. Proper disposal required.
Unknown	<100 gallons (drums could be empty)	Two steel 55-gallon drums in chlorine equipment shed next to northern clarifier (302 NW 257th Way)	Contents, if any, of drums not known	Proper disposal required

9.5 Chemical Storage Tanks

Kleinfelder observed a vent pipe attached to the western wall of the condemned warehouse (302 NW 257th Way). There was a concrete patch across the concrete pad from the general location of the vent pipe to the boiler room. Kleinfelder believes there is product piping for a fuel oil UST where the patched concrete was observed. Kleinfelder also believes that a fuel oil UST is present at the base of the vent pipe. Mr. Doug Jones of Lavivrus Woodworking thought an UST was still present at this location.

Kleinfelder also observed an abandoned gas cylinder in a shed next to the clarifier north of the large warehouse (302 NW 257th Way). This cylinder was present in the shed that had the chlorine gas equipment, presumably used for disinfection of wastewater. It was not known whether the cylinder in the shed contained chlorine gas.

9.6 Indications of PCBs

Some older electrical equipment, such as transformers and capacitors, occasionally contained cooling oil with polychlorinated biphenyls (PCBs). PCBs can also be present in old hydraulic oil.

Kleinfelder observed pad-mounted transformers at the WWTP plant. Mr. Sorensen believed that the transformers were owned by the electric utility. Pole-mounted transformers were located on the Eastwind Development site. The transformers did not appear to be leaking.

Kleinfelder observed fluorescent light fixtures is site buildings. Older, unlabeled light ballasts on the fixtures have the potential of containing PCBs.

Kleinfelder observed hydraulic oil related to the pump and the box reservoirs that are described in Section 9.4. Kleinfelder also observed a possible hydraulic lift ramp on the loading dock under a metal plate.

9.7 Land Conditions

City of Troutdale, 410 and 320 NW 257th Way / NE Harlow Road

Kleinfelder did not note soil staining or obvious indications of spills/releases of hazardous substances to the site soil. Kleinfelder did not note significant areas of stressed vegetation. This property is the former WWTP for the City of Troutdale; therefore, there are features about the property, such as the sludge storage lagoon, clarifiers, and aeration basin that received or treated wastewater.

Eastwind Development, 302 NW 257th Way / NE Harlow Road

Kleinfelder did note oil staining on pump equipment located in a shed attached to the large warehouse. Kleinfelder visited the site during the wet season; therefore, the potential for observing minor surface soil staining is reduced. Kleinfelder did not observe significant surface soil staining on the Eastwind Development property.

9.8 Wells, Septic Systems, and Wastewater Discharge

Both properties appear to be connected to the municipal water supply and sanitary sewer. Mr. Sorensen thought there is a possibility that an old septic system associated with the farmhouse (formerly located on the WWTP property) had been abandoned, but he could not confirm this information.

According to Mr. Sorensen, the warehouses on the Eastwind Development site were connected to the on-site WWTP. The Eastwind Development site was later connected to the new WWTP to the north. Presumably, warehouses on the Eastwind Development site were once connected to a septic system(s) or they once utilized their wastewater treatment system in lieu of a septic system.

According to Mr. Sorensen, the WWTP and the former farmhouse were connected to the City of Troutdale municipal water supply. Mr. Kevin Rauch of the City of Troutdale Water Division stated that there is a municipal water account for the 302 NE Harlow Road (NW 257th Way) property. The account is currently active. It was not clear whether the connection included the large warehouse. Kleinfelder observed a turbine pump in a pump room on the western end of the large warehouse, which indicates the presence of a water well.

Storm water at the WWTP was discharged to the municipal storm system through catch basins and underground piping. It is not known whether there is a municipal storm water connection at the Eastwind Development site. Kleinfelder did not note obvious dry wells on the site.

As mentioned above, there were two clarifiers located on the Eastwind Development site that presumably operated during the former wool pullery operation. The clarifiers would have been used for animal processing wastewater. In addition to the clarifiers, Kleinfelder observed two concrete vaults: (1) in the shed attached to the large warehouse and (2) and exterior vault, which were both near the northern clarifier. A ladder leads into the vault located in the shed. The use of the vaults was not apparent, but they could be related to the former wool pullery operation and the handling of wastewater.

9.9 Indications of Solid Waste Disposal

Kleinfelder did not observe obvious indications of solid waste disposal at the WWTP site. As mentioned above, some debris piles were noted east of the gravel access road and north of the large warehouse. The debris consisted of wood and metal debris, some household furniture and appliances, and some tires. Not all parts of the debris piles were observed.

9.10 Potential Presence of Asbestos-containing Building Materials

An asbestos survey has not been conducted for the site buildings. Kleinfelder noted building materials suspected to contain asbestos in the roofing, wallboard, and flooring materials.

9.11 Previous Environmental Report Data Review

Previous environmental reports for the site were not disclosed by this assessment.

10.0 REFERENCES

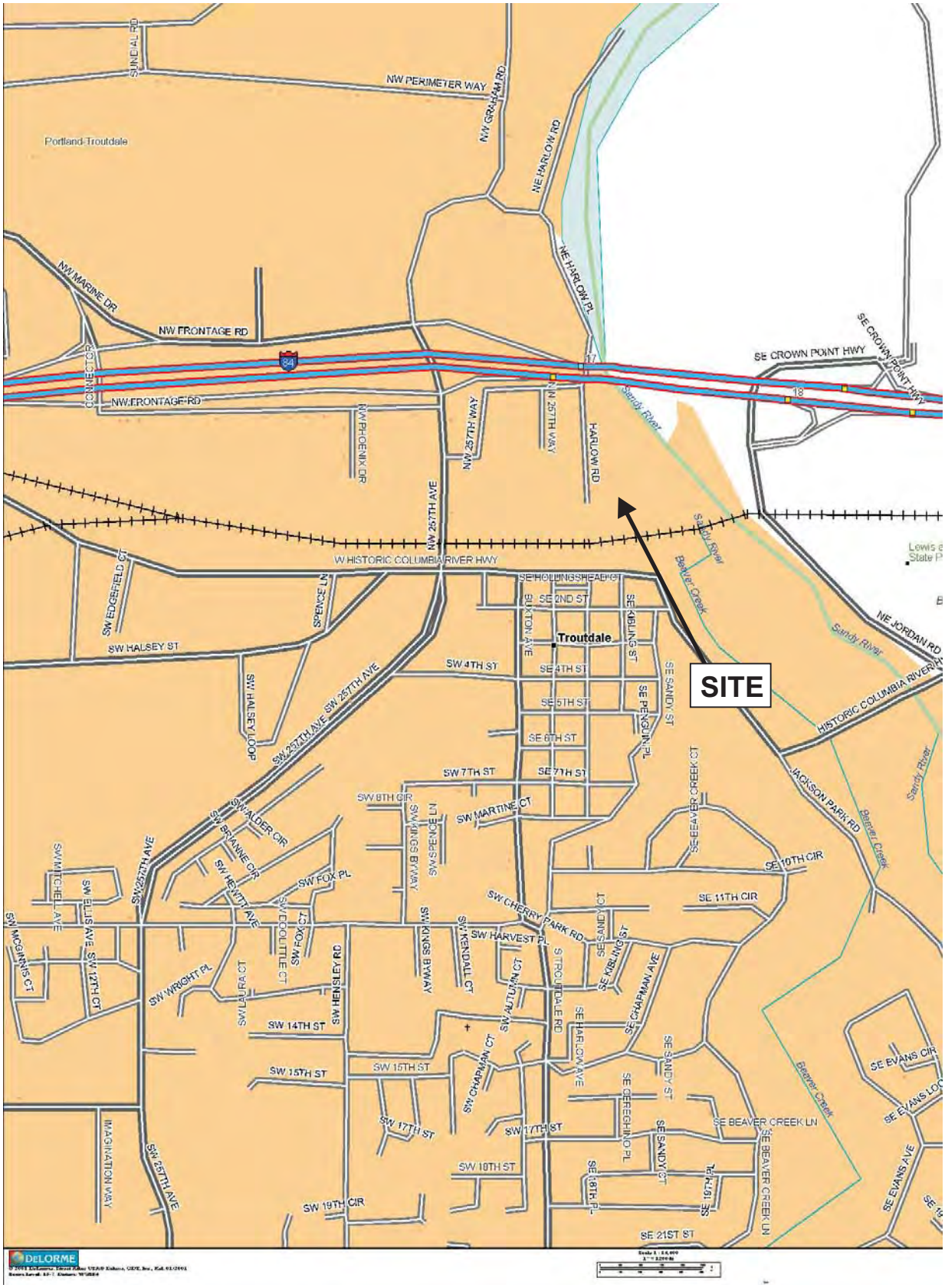
EDR provided available Sanborn Maps, which are included in Appendix A. Refer to the EDR report in Appendix B for detailed information regarding the regulatory agency database research. The EDR report includes an annotated description with dates for the databases reviewed. Appendix B also includes a copy of the City Directory Abstract.

Other references in this report are provided in the text as necessary.

11.0 PROFESSIONAL AUTHENTICATION

This report has been prepared and reviewed by the undersigned. **This report is void if original seal and signature are not present.**

Peter L. Stroud, C.E.G.
Principal Engineering Geologist



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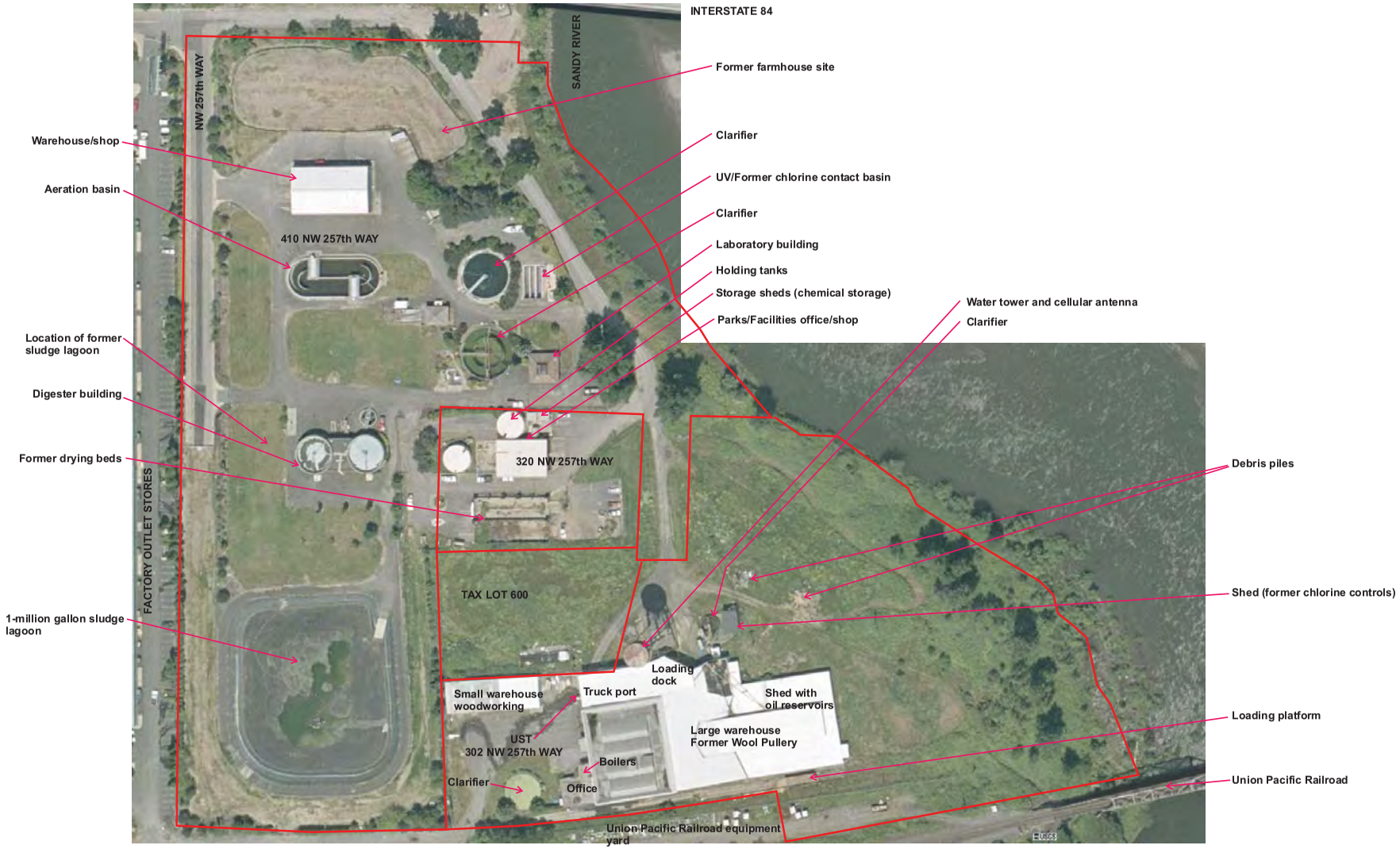
SITE LOCATION MAP
CITY OF TROUTDALE & EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY/NE HARLOW ROAD
TROUTDALE, OREGON

Project # 63608-A01

FIGURE 1



REF: 2002 aerial photograph, Terraserver-USA.com.
Lot lines are approximate.

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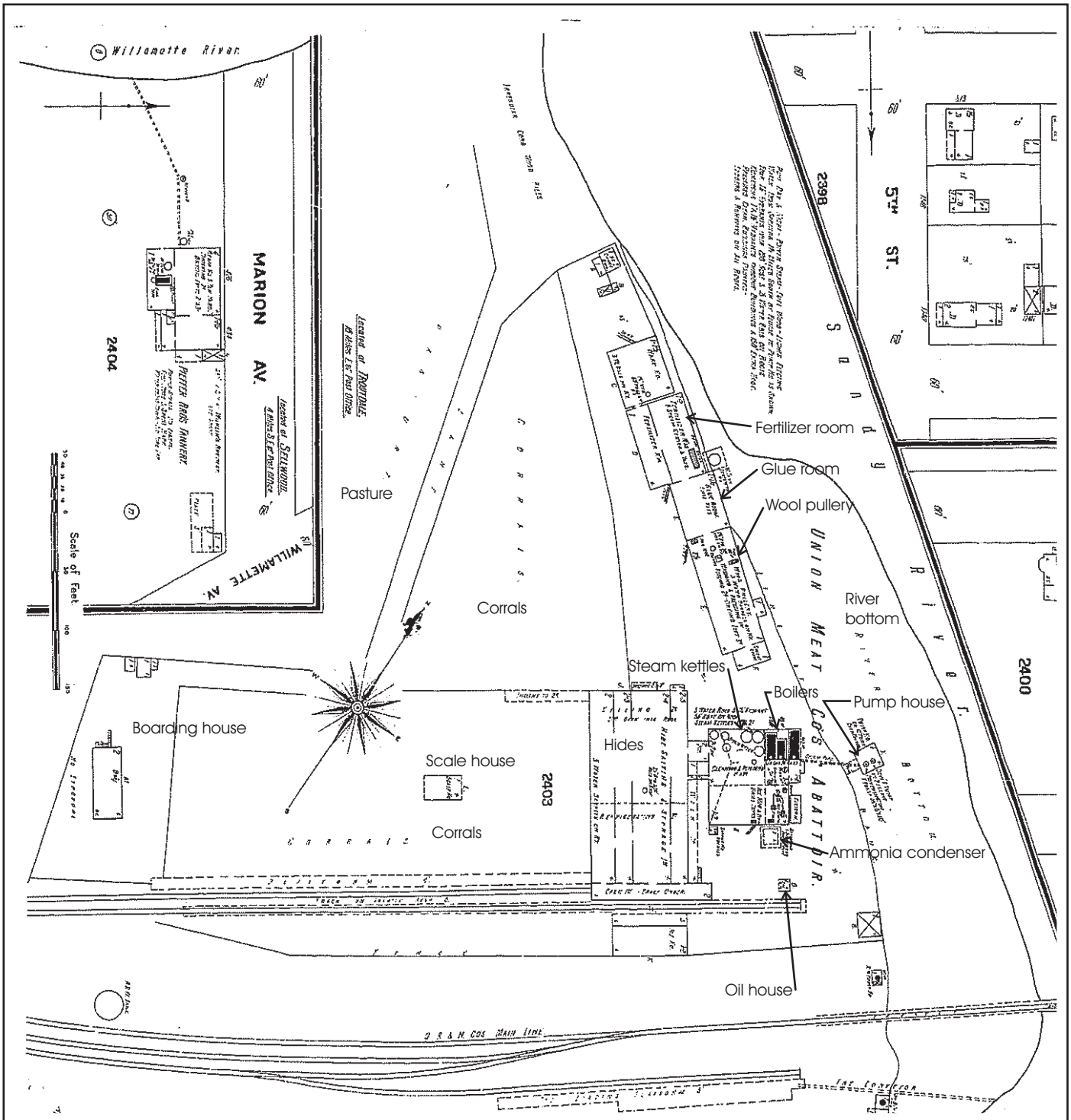
SITE MAP
CITY OF TROUTDALE & EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY/NE HARLOW ROAD
TROUTDALE, OREGON

Project # 63608-A01

FIGURE 2



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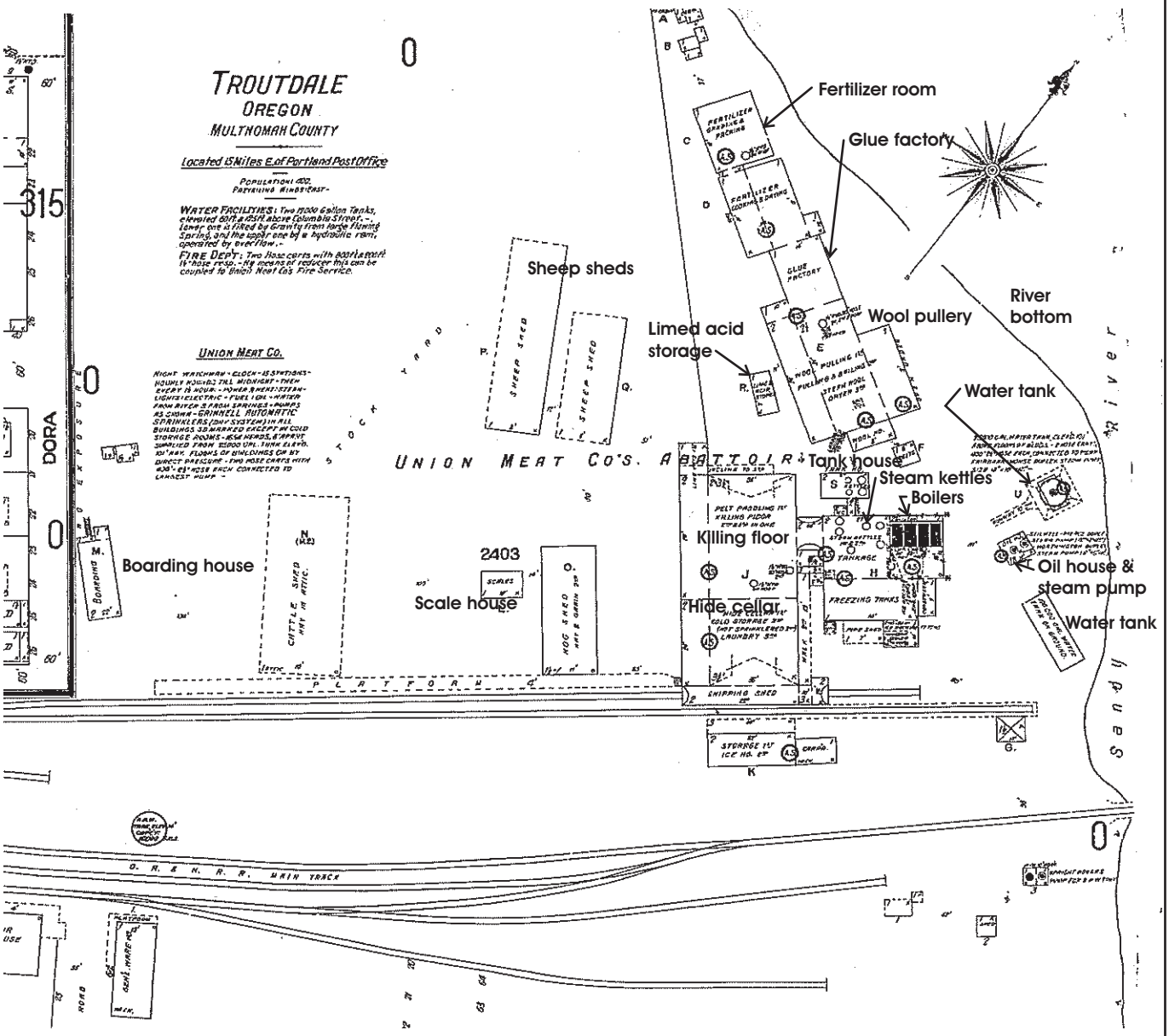
1901 SANBORN MAP
EASTWIND DEVELOPMENT LLC PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 3



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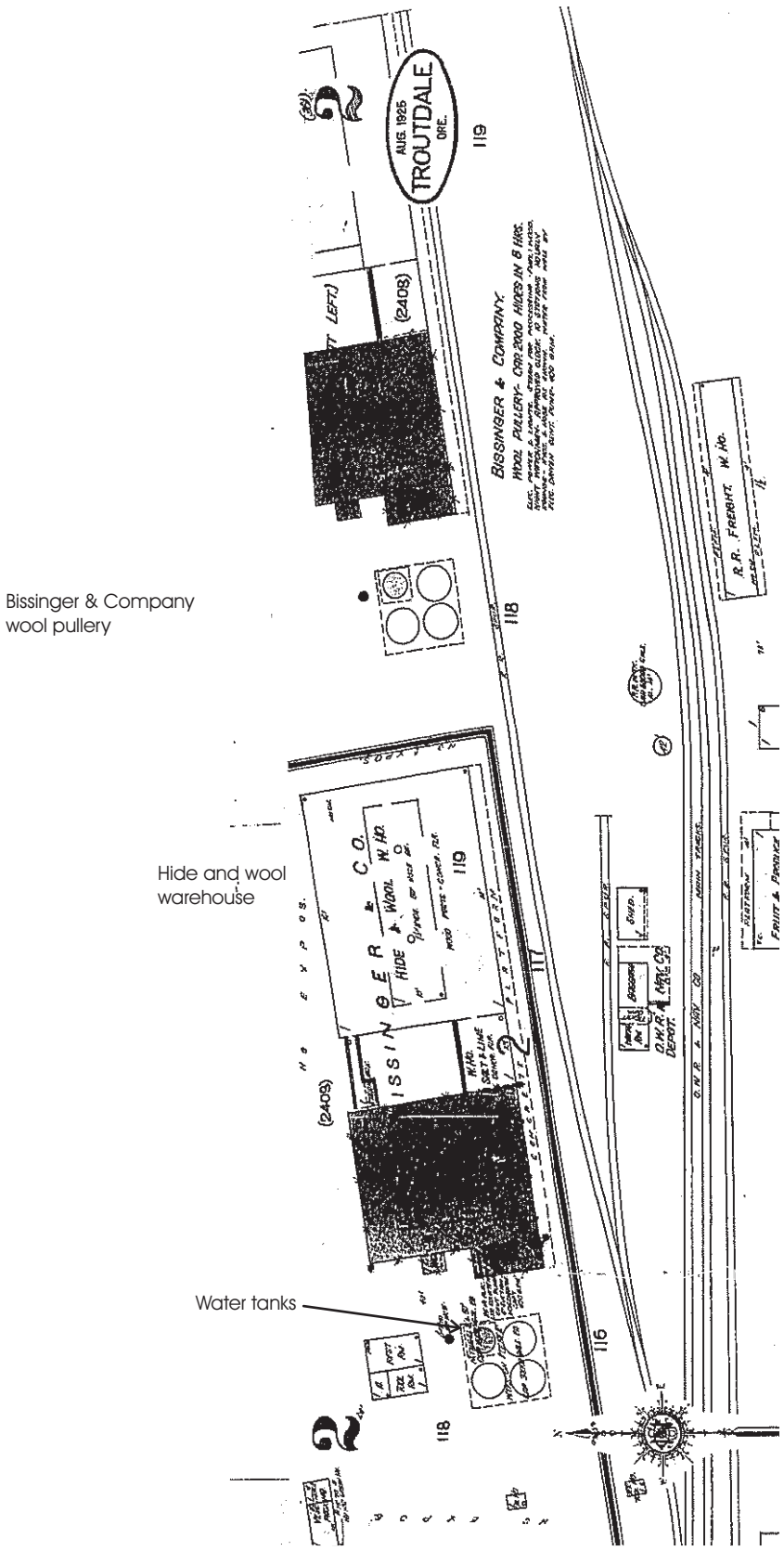
1909 SANBORN MAP
EASTWIND DEVELOPMENT LLC PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 4



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1925 & 1931 SANBORN MAPS
EASTWIND DEVELOPMENT LLC PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 5

1935 AERIAL PHOTOGRAPH

1948 AERIAL PHOTOGRAPH (flood photo)

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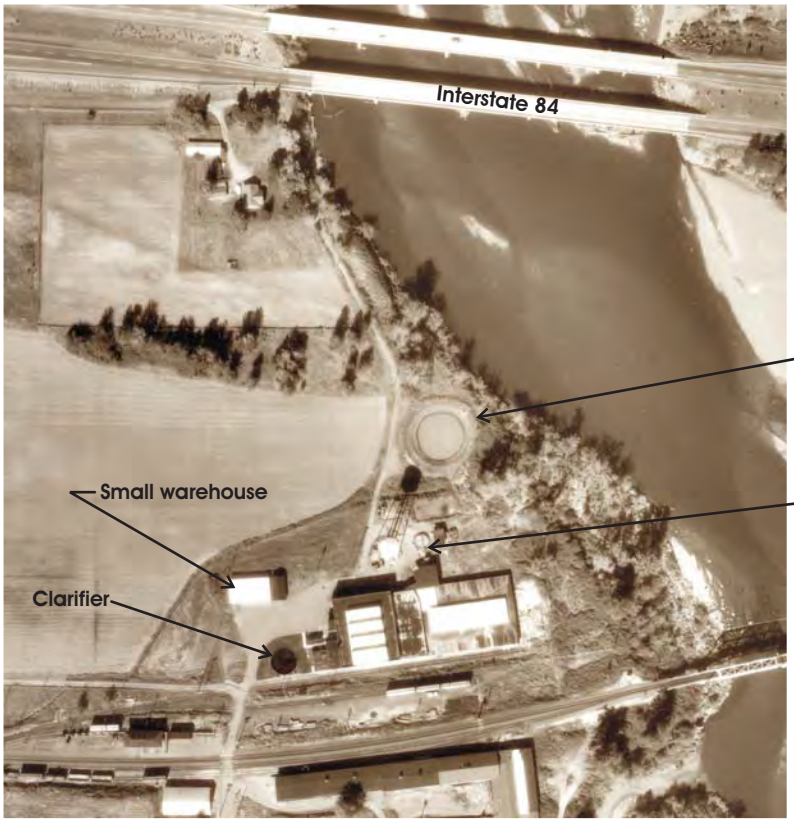
1935 & 1948 AERIAL PHOTOGRAPHS
CITY OF TROUTDALE &
EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

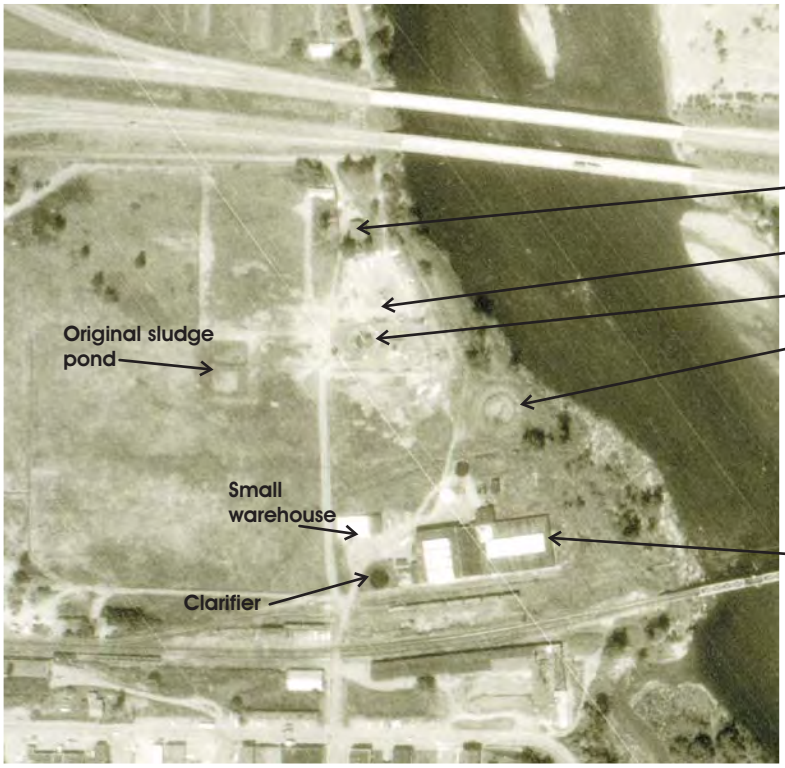
PROJECT # 63608-A01

FIGURE 6

1968 AERIAL PHOTOGRAPH



1972 AERIAL PHOTOGRAPH



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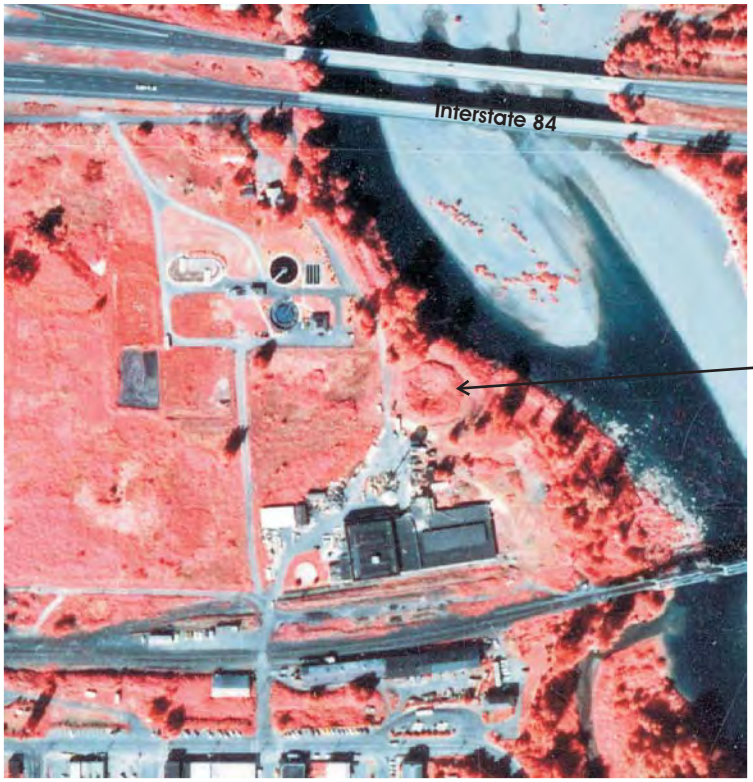
1968 & 1972 AERIAL PHOTOGRAPHS
CITY OF TROUTDALE &
EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 7



1983 AERIAL PHOTOGRAPH

Former settling pond

1996 AERIAL PHOTOGRAPH (flood photograph)

Wastewater treatment plant under construction

Sludge lagoon at WWTP

Small
warehouse

Large warehouse (cabinet manufacturing)

Downtown Troutdale

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1983 & 1996 AERIAL PHOTOGRAPHS
CITY OF TROUTDALE &
EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 8

View of warehouse on WWTP property; currently used by Parks & Facilities

Interior of warehouse; Parks & Facilities equipment storage

Wood debris; former location of farmhouse located northeast of warehouse

View of northern portion of WWTP site

Clarifier at WWTP; digester building in background

UV contact basin at WWTP

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SITE PHOTOGRAPHS PHOTOGRAPHS
CITY OF TROUTDALE PROPERTY
410 & 320 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 9

Laboratory building at WWTP

Interior of laboratory building

Typical chemical storage in laboratory building

Digester building and clarifier

Approximate location of former sludge ponds

1-million gallon sludge lagoon

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SITE PHOTOGRAPHS PHOTOGRAPHS
CITY OF TROUTDALE PROPERTY
410 & 320 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 10

Building occupied by Parks & Facilities; former Purifax plant; wastewater holding tanks no longer in use

Former Purifax drying beds south of 320 NW 257th Way building

Flammables storage cabinets in Parks & Facilities shop

Pesticide/herbicide storage in shed north of the Parks & Facilities building

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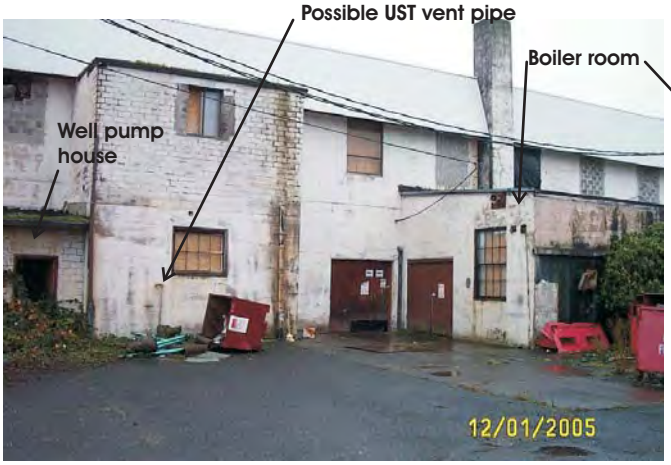
SITE PHOTOGRAPHS PHOTOGRAPHS
CITY OF TROUTDALE PROPERTY
410 & 320 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 11

Small warehouse occupied by woodworking business

View of large warehouse, facing east toward truck port



View of western end of large warehouse (former wool pullery and cabinet shop)

View of western end of large warehouse, boiler room, and office

Water-filled clarifier located west of large warehouse

View to the east along rail spur. Large warehouse located to left of spur.

KLEINFELDER

L:\2005\Projects\63608\63608-AF12.cdr 12/05 RAR

SITE PHOTOGRAPHS PHOTOGRAPHS
EASTWIND DEVELOPMENT PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 12

Small warehouse occupied by woodworking business

View to the east along rail spur and loading platform

View to the northeast, towards water tower

55-gallon drums outside western end of large warehouse

View through truck port towards loading dock

Clarifier and chlorine equipment control shed

KLEINFELDER

L:\2005\Projects\63608\63608-AF13.cdr 12/05 RAR

SITE PHOTOGRAPHS PHOTOGRAPHS
EASTWIND DEVELOPMENT PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 13

Subsurface vault located next to clarifier

Hydraulic oil reservoirs located in shed located off north wall of large warehouse

Vault with ladder located in shed off north wall of large warehouse

Pooled oil on pump located in shed off north wall of large warehouse

Chlorine gas control and storage cylinder located in shed just east of clarifier

Eastern end of large warehouse; overgrown vegetation

KLEINFELDER

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SITE PHOTOGRAPHS PHOTOGRAPHS
EASTWIND DEVELOPMENT PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 14

View of large warehouse, facing southwest

View of northern side of large warehouse and truck port

Debris pile located northeast of large warehouse

Southeastern portion of site, facing southeast

Old car fuel tank and battery located next to small warehouse

Cellular antenna controls compound under water tower

KLEINFELDER

L:\2005\Projects\63608\63608-AF15.cdr 12/05 RAR

SITE PHOTOGRAPHS PHOTOGRAPHS
EASTWIND DEVELOPMENT PROPERTY
302 NW 257th WAY / NE HARLOW ROAD
TROUTDALE, OREGON

PROJECT # 63608-A01

FIGURE 15

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Randy Reid
Kleinfelder, Inc.
15050 SW Koll Parkway
Beaverton, OR 97006

Order Date: 12/19/2005 **Completion Date:** 12/20/2005
Inquiry #: 1577798.3S
P.O. #: 63608-A01
Site Name: City of Troutdale - Eastwind Property
Address: 410 NE Harlow
City/State: Troutdale, OR 97060
Cross Streets:

Customer Project: 63608-A01
1153791BRU 503-644-9447

Based on client-supplied information, fire insurance maps for the following years were identified

1901 - 1 Map
1909 - 1 Map
1925 - 1 Map
1931 - 1 Map

Limited Permission to Photocopy Total Maps: 4

USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

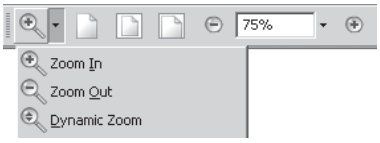
Reading Sanborn Maps

- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: http://www.edrnet.com/reports/samples/key.pdf

Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

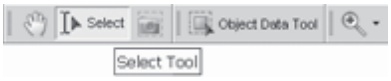


1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
   B. Or, use the magnifying tool and drag a box around the TP

Printing a Sanborn Map From the Electonic File

- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

<u>Acrobat Versions 6 and 7</u>



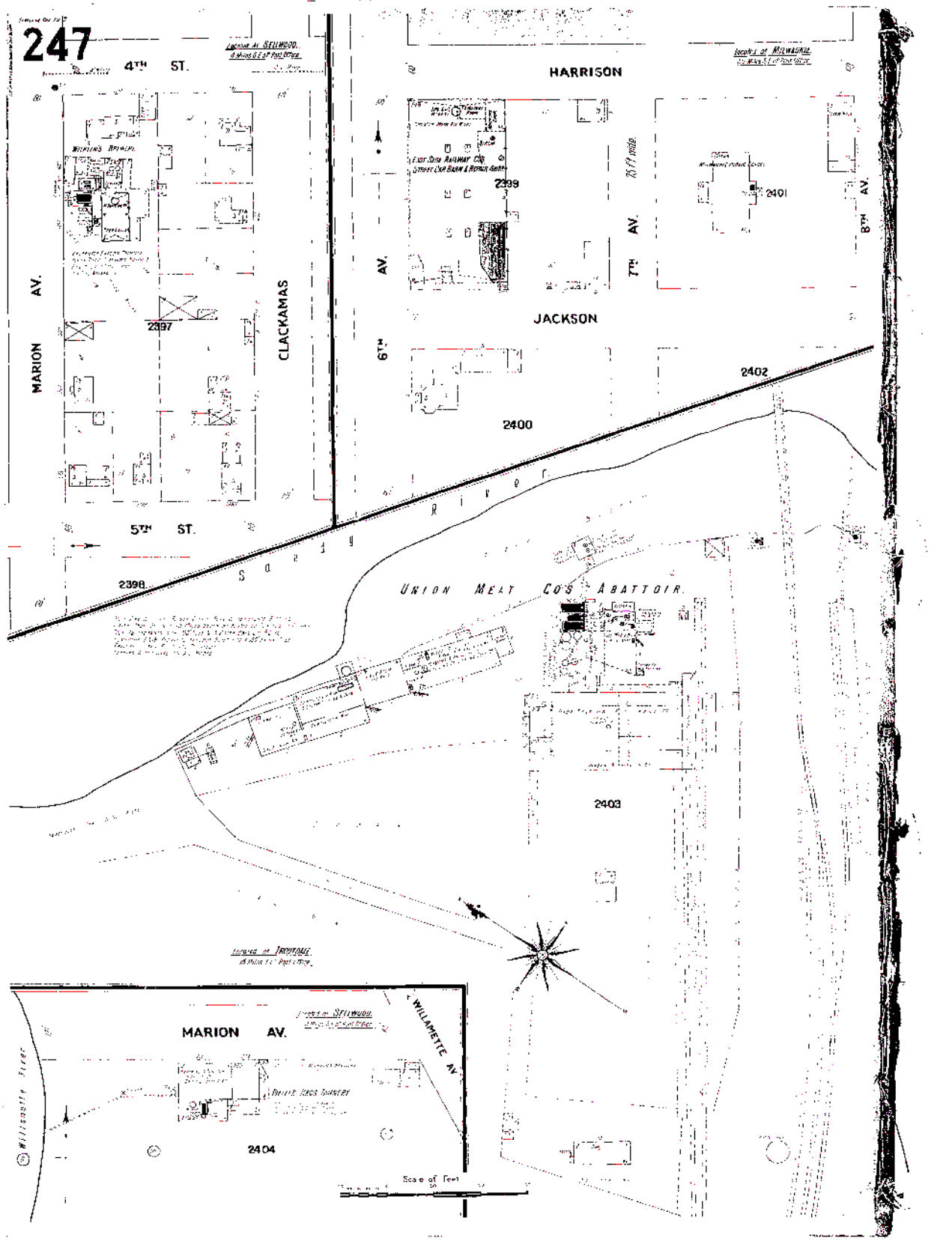
1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

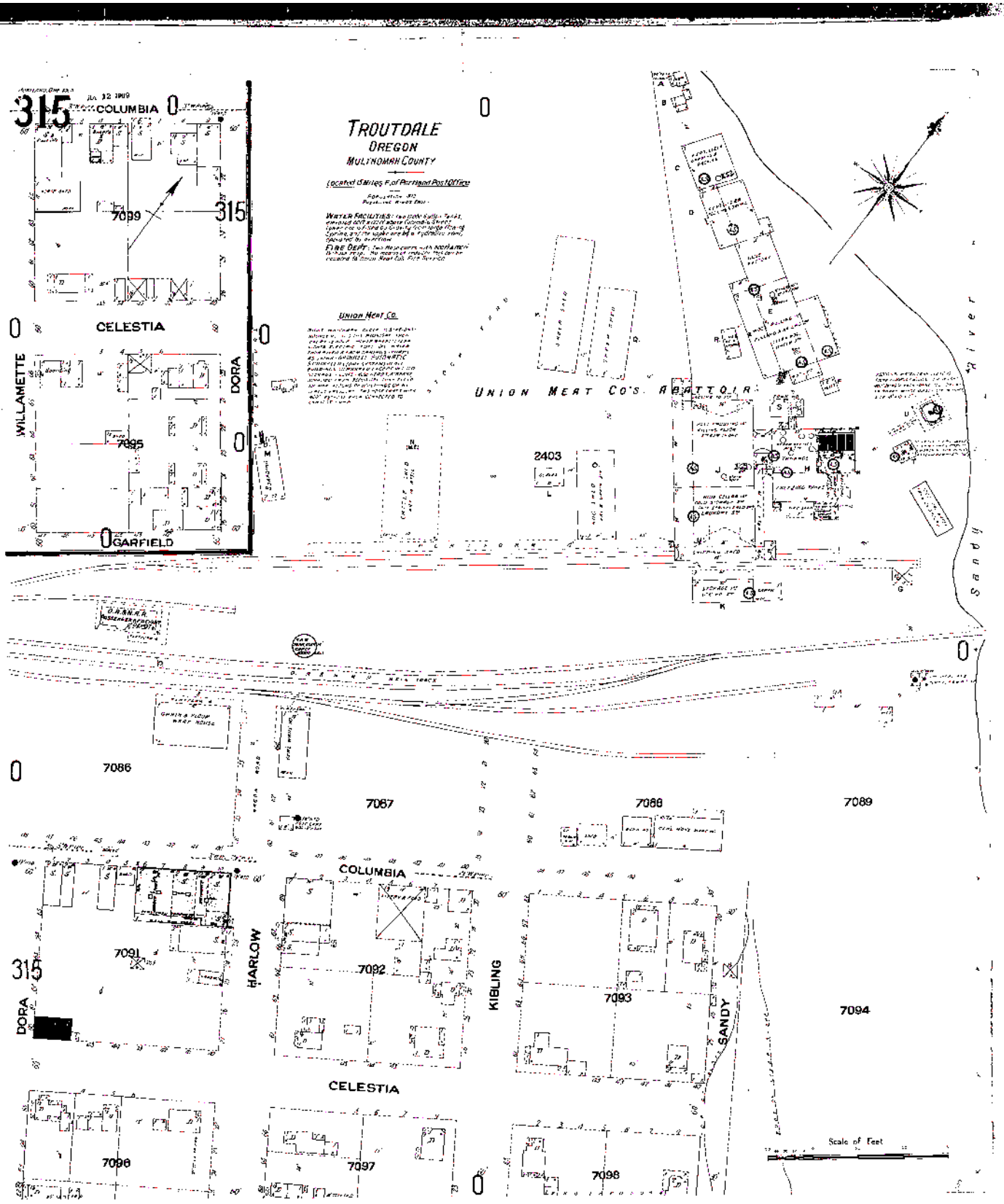
<u>Acrobat Version 5</u>

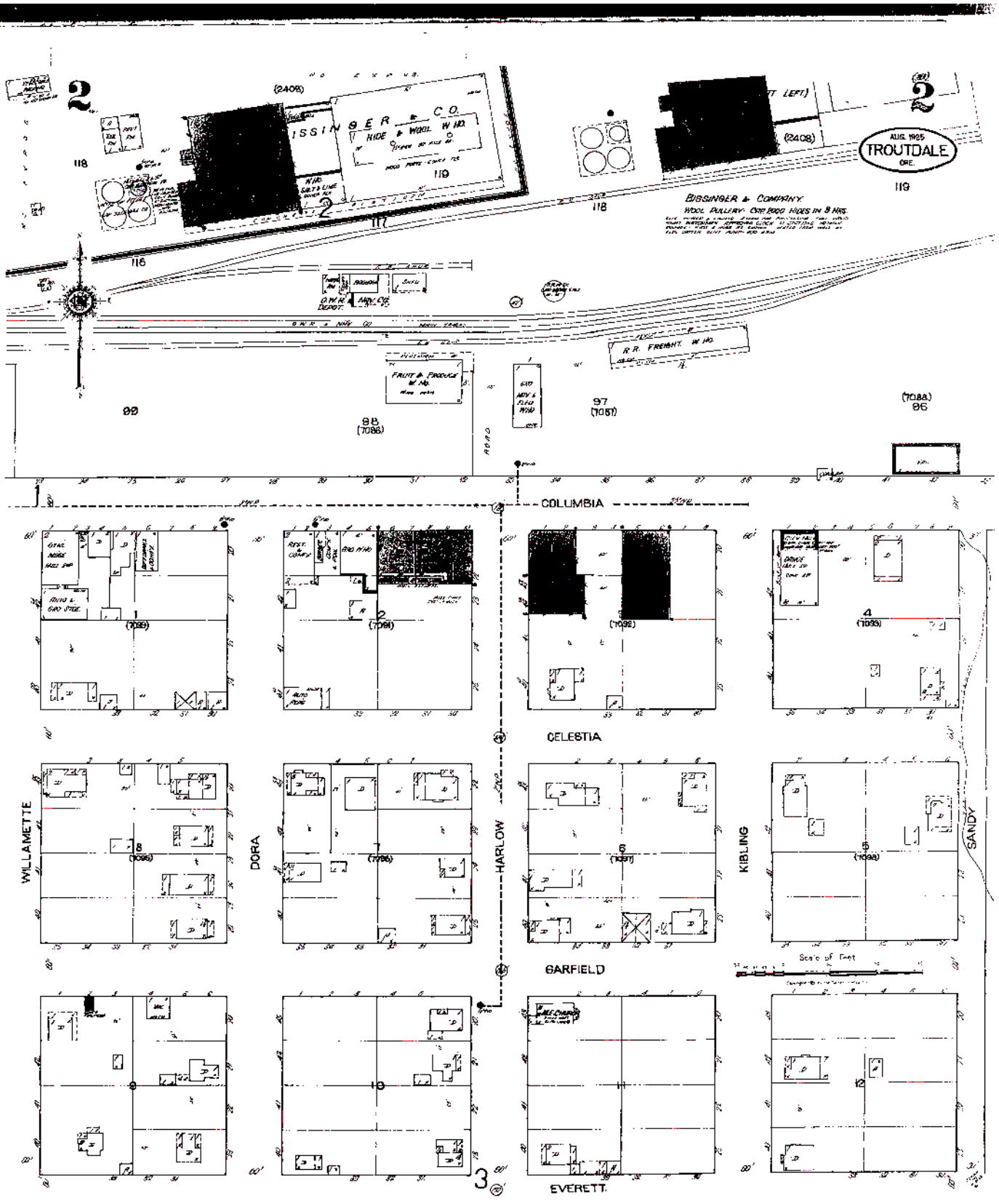
1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.

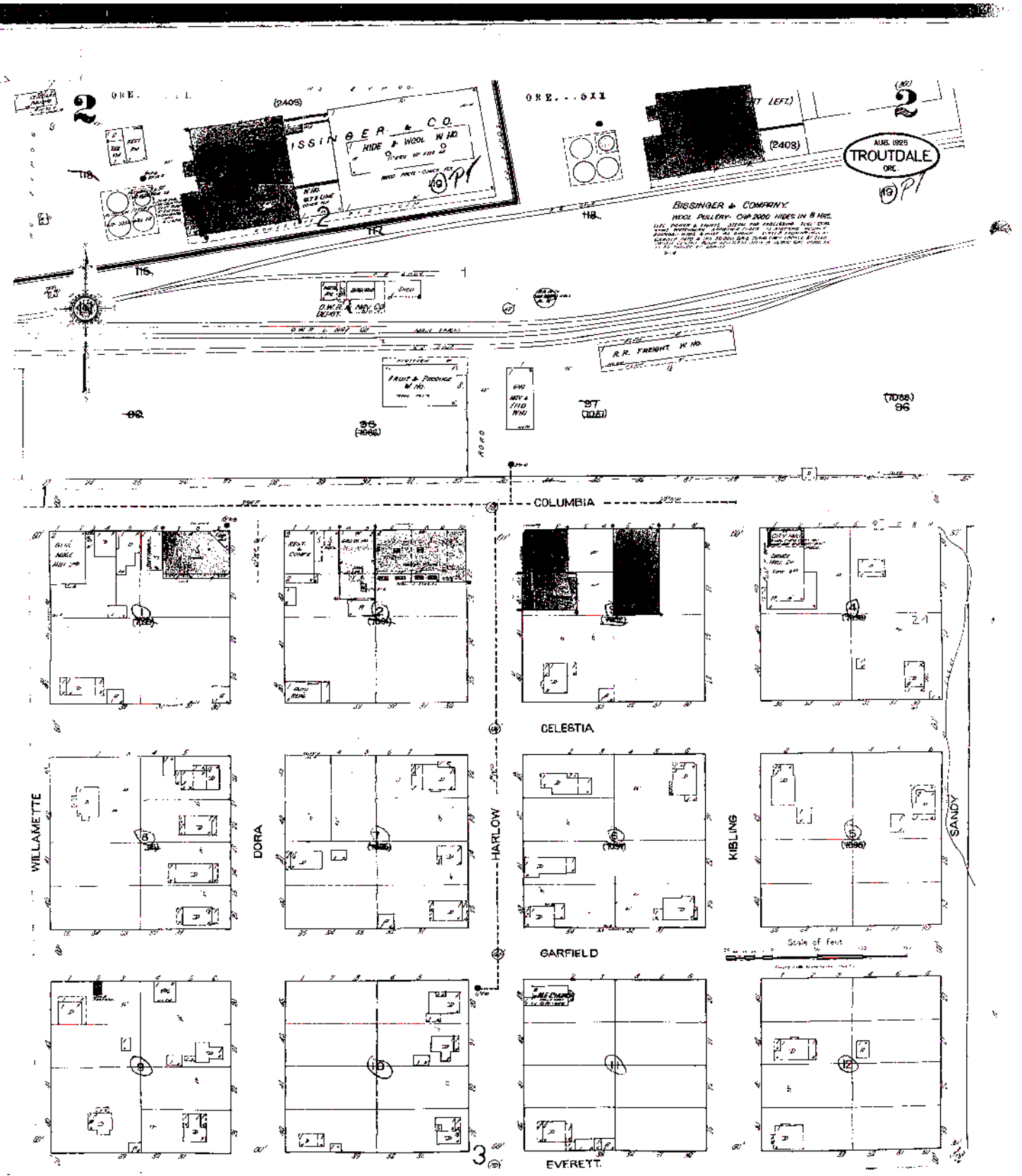
Important Information about Email Delivery of Electronic Sanborn Map Images

- Images are grouped intro one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as "1 of 3", "2 of 3", etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.









The EDR Radius Map
with GeoCheck®

City of Troutdale - Eastwind Property
410 NE Harlow
Troutdale, OR 97060

Inquiry Number: 1577798.2s

December 19, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

410 NE HARLOW
TROUTDALE, OR 97060

COORDINATES

Elevation: 43 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 45122-E4 CAMAS, WA OR
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available "reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL National Priority List
Proposed NPL Proposed National Priority List Sites
Delisted NPL National Priority List Deletions
NPL Liens Federal Superfund Liens
CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP CERCLIS No Further Remedial Action Planned
CORRACTS Corrective Action Report
RCRA-TSDF Resource Conservation and Recovery Act Information
RCRA-LQG Resource Conservation and Recovery Act Information
ERNS Emergency Response Notification System
HMIRS Hazardous Materials Information Reporting System
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls
DOD Department of Defense Sites

EXECUTIVE SUMMARY

FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SWF/LF	Solid Waste Facilities List
HIST LF	Old Closed SW Disposal Sites
AOC COL	Columbia Slough
OR SPILLS	Spill Data
OR HAZMAT	Hazmat/Incidents
ENG CONTROLS	Engineering Controls Recorded at ESCI Sites
INST CONTROL	Institutional Controls Recorded at ESCI Sites
VCS	Voluntary Cleanup Program Sites
DRYCLEANERS	Drycleaning Facilities
Brownfields	Brownfields Projects
CDL	Uninhabitable Drug Lab Properties
HSIS	Hazardous Substance Information Survey

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Coal Gas	Coal Gas

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

FEDERAL RECORDS

RCRAInfo:RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facil

A review of the RCRA-SQG list, as provided by EDR, and dated 10/14/2005 has revealed that there are 4 RCRA-SQG sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
D AND D MANUFACTURING INCORPOR	*302 NORTHWEST 257TH WAY*	*1/8 - 1/4 NNW*	*1*	*6*
COLUMBIA GORGE FACTORY STORES	*450 NW 257TH AVE*	*1/8 - 1/4 WNW*	*4*	*7*
TRANSCO INDUSTRIES INC	*115 W COLUMBIA*	*1/8 - 1/4 SW*	*B6*	*8*
TROUTDALE CITY OF PUBLIC WORKS	*342 SW 4TH ST*	*1/4 - 1/2 SW*	*13*	*10*

STATE AND LOCAL RECORDS

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the SHWS - ECSI list, as provided by EDR, has revealed that there are 3 SHWS - ECSI sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GOODMAN SANITATION	*1360 SW 257TH DR*	*1/2 - 1 SW*	*28*	*46*

Lower Elevation	Address	Dist / Dir	Map ID	Page
AAR WESTERN SKYWAYS INC	*CITY OF TROUTDALE/PORTL*	*1/4 - 1/2 NW*	*23*	*27*
US ARMY COE - N PACIFIC DIV. M	*1491 NW GRAHAM RD*	*1/2 - 1 NNW*	*27*	*37*

OR CRL: Sites that are or may be contaminated and may require cleanup.

A review of the OR CRL list, as provided by EDR, has revealed that there is 1 OR CRL site within approximately 1.125 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
AAR WESTERN SKYWAYS INC	*CITY OF TROUTDALE/PORTL*	*1/4 - 1/2 NW*	*23*	*27*

EXECUTIVE SUMMARY

OR UIC:DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

A review of the UIC list, as provided by EDR, and dated 10/24/2005 has revealed that there is 1 UIC site within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CITY OF TROUTDALE(OWNER:CITY O	104 SE KIBLING AVE.,	1/8 - 1/4 SSE	A3	7

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's LUST Database List.

A review of the LUST list, as provided by EDR, and dated 07/14/2005 has revealed that there are 15 LUST sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HANDY BROTHERS SERVICE	***146 W COLUMBIA***	***1/8 - 1/4 SW***	***B5***	***8***
NEDERHISER, L HOT	105 SW 2ND	1/8 - 1/4 SSW	7	9
EMC MORTGAGE	411 SE HARLOW AVE	1/4 - 1/2 S	8	9
WOOD, BILL	107 SW 4TH ST	1/4 - 1/2 SSW	9	9
FAHNER, CRAIG	245 SE 5TH STREET	1/4 - 1/2 S	11	9
TROUTDALE ELEMENTARY SHOP BUIL	648 SE HARLOW ST	1/4 - 1/2 S	20	21
POUNDER OIL SERVICE INC	***901 W COLUMBIA***	***1/4 - 1/2 WSW***	***22***	***27***
MONTGOMERY ESTATE	1012 SW HALSEY ST	1/2 - 1 WSW	26	37

Lower Elevation	Address	Dist / Dir	Map ID	Page
TROUTDALE SAND & GRAVEL/US MAR	645 E HISTORIC COLUMBIA	1/4 - 1/2 SE	C10	9
FLYING J TRAVEL PLAZA	***400 NW FRONTAGE RD***	***1/4 - 1/2 NW***	***E17***	***17***
BURNS BROTHERS	***650 NW FRONTAGE RD***	***1/4 - 1/2 WNW***	***F19***	***21***
TROUTDALE TRAVEL CENTER	***790 NW FRONTAGE RD***	***1/4 - 1/2 WNW***	***F21***	***22***
AAR WESTERN SKYWAYS INC	***CITY OF TROUTDALE/PORTL***	***1/4 - 1/2 NW***	***23***	***27***
CHEVRON USA INC - 95314	1260 NW FRONTAGE RD	1/2 - 1 WNW	G24	37
CHEVRON USA INC - 95314/CHEV.	1260 NW FRONTAGE RD	1/2 - 1 WNW	G25	37

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's UST List on Disk.

A review of the UST list, as provided by EDR, and dated 07/21/2005 has revealed that there are 7 UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
TROUTDALE, CITY OF	104 SE KIBLING	1/8 - 1/4 SSE	A2	7
HANDY BROTHERS SERVICE	***146 W COLUMBIA***	***1/8 - 1/4 SW***	***B5***	***8***
TESORA ALASKA CFN	521 SW HALSEY	1/4 - 1/2 WSW	D15	11
SHIRLEY, GERALDINE	ROUTE 1, BOX 157	1/4 - 1/2 WSW	D18	21

Lower Elevation	Address	Dist / Dir	Map ID	Page
TROUTDALE SAND & GRAVEL CO INC	E COLUMBIA ST	1/4 - 1/2 SE	12	10
TROUTDALE SAND & GRAVEL	645 E HISTORIC COLUMBIA	1/4 - 1/2 SE	C14	10
FLYING J TRAVEL PLAZA	***400 NW FRONTAGE RD***	***1/4 - 1/2 NW***	***E17***	***17***

EXECUTIVE SUMMARY

AST: The Aboveground Storage Tank database contains registered ASTs. The data comes from the list of ASTs reported to the Office of State Fire Marshal.

A review of the AST list, as provided by EDR, and dated 08/01/2005 has revealed that there is 1 AST site within approximately 0.375 miles of the target property.

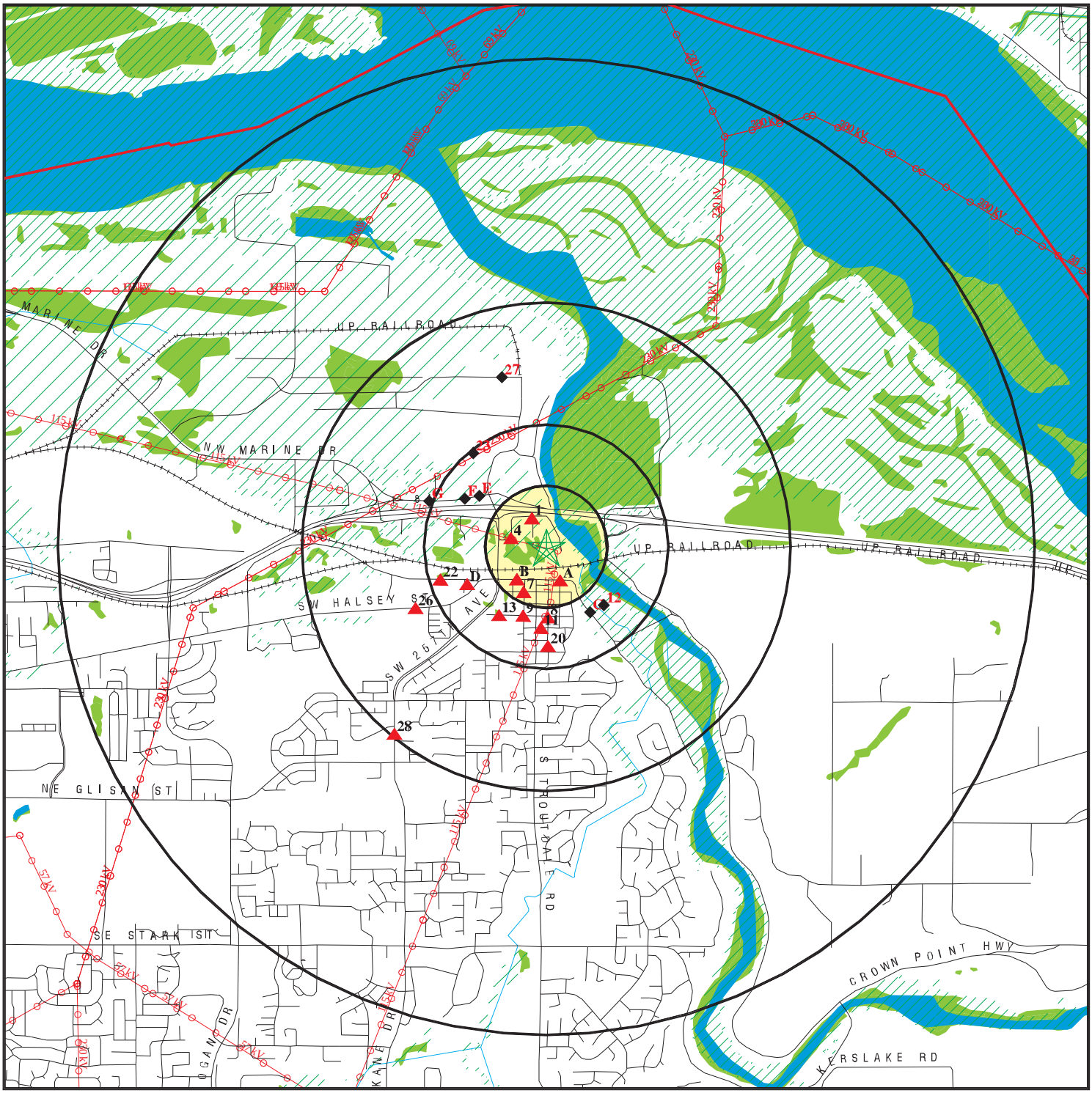
Lower Elevation	Address	Dist / Dir	Map ID	Page
FLYING J TRAVEL PLAZA	*400 NW FRONTAGE RD*	*1/4 - 1/2 NW*	*E16*	*11*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
FUJII FARMS	SHWS - ECSI, VCS
USDOE BPA TROUTDALE SUBSTATION	RCRA-SQG, FINDS, CERC-NFRAP
COMCAST CABLE COMMUNICATIONS	HSIS, AST
AAR WESTERN SKYWAYS	LUST
GRESHAM SAND & GRAVEL - SUNDIAL BE	LUST
SPRINT-UNITED TELEPHONE	LUST, UST
GSA - FEDERAL WAREHOUSE	UST
ODEQ TROUTDALE COLUMBIA BUXTON DRU	RCRA-SQG, FINDS
NATIONAL FABRICATION INC	RCRA-SQG, FINDS
ALAN SALMELA FIBERGLASS	RCRA-SQG, FINDS
TROUTDALE SUBSTATION	ERNS
TROUTDALE SUBSTATION 5200 NE SUNDA	ERNS
BENNETT PROPERTY	FINDS
PORTLAND TROUTDALE AIRPORT	FINDS
UNION PACIFIC RR - TROUTDALE	FINDS
GRESHAM SAND & GRAVEL - SUNDIAL BE	FINDS
TROUTDALE REDUCTION PLANT	FINDS
I-205 @ I-84	OR HAZMAT
790 S FRONTAGE	OR HAZMAT
N FRONTAGE RD @ 1-84	OR HAZMAT
NW FRONTAGE RD	OR HAZMAT
2999 NE JORDAN RD	OR HAZMAT
I-84 WB MP 18 N SIDE	OR HAZMAT
BURLINGAME EAST(OWNER:CITY OF TROU	UIC
MORGAN MEADOWS/ARBOR HEIGHTS (PHAS	UIC
USDL - SPRINGDALE JOB CORPS CENTER	UIC
SPRINGDALE JOB CENTER (US DEPARTME	UIC
WADE JOHNSON(OWNER:WADE JOHNSON)	UIC
HOME DEPOT(OWNER:HOME DEPOT)	UIC
STARK STREET CENTER(OWNER:POWELL D	UIC
MULTNOMAH COUNTY	HSIS
AMERIFLIGHT	HAZNET
TROUTDALE TRANSMISSION & AUTO	HSIS

OVERVIEW MAP - 1577798.2s - Kleinfelder, Inc.

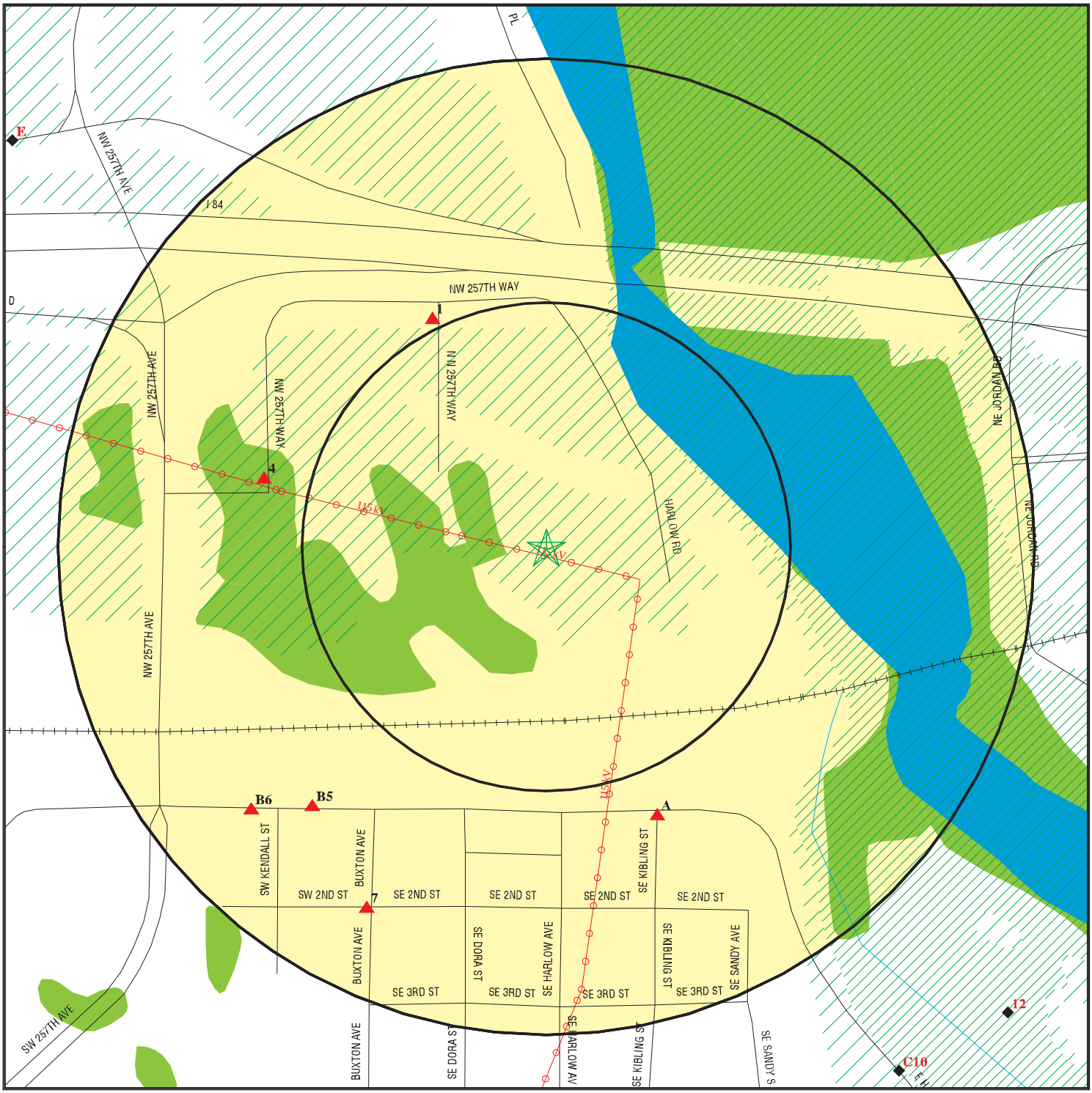


0 1/2 1 2 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Federal Wetlands
- Areas of Concern

TARGET PROPERTY:	City of Troutdale - Eastwind Property	CUSTOMER:	Kleinfelder, Inc.
ADDRESS:	410 NE Harlow	CONTACT:	Randy Reid
CITY/STATE:	Troutdale OR	INQUIRY #:	1577798.2s
ZIP:	97060	DATE:	December 19, 2005 2:05 pm

DETAIL MAP - 1577798.2s - Kleinfelder, Inc.



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Federal Wetlands
- Areas of Concern

TARGET PROPERTY:	City of Troutdale - Eastwind Property	CUSTOMER:	Kleinfelder, Inc.
ADDRESS:	410 NE Harlow	CONTACT:	Randy Reid
CITY/STATE:	Troutdale OR	INQUIRY #:	1577798.2s
ZIP:	97060	DATE:	December 19, 2005 2:05 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
Delisted NPL		1.125	0	0	0	0	0	0
NPL Liens		0.125	0	NR	NR	NR	NR	0
CERCLIS		0.625	0	0	0	0	NR	0
CERC-NFRAP		0.625	0	0	0	0	NR	0
CORRACTS		1.125	0	0	0	0	0	0
RCRA TSD		0.625	0	0	0	0	NR	0
RCRA Lg. Quan. Gen.		0.375	0	0	0	NR	NR	0
RCRA Sm. Quan. Gen.		0.375	0	3	1	NR	NR	4
ERNS		0.125	0	NR	NR	NR	NR	0
HMIRS		0.125	0	NR	NR	NR	NR	0
US ENG CONTROLS		0.625	0	0	0	0	NR	0
US INST CONTROL		0.625	0	0	0	0	NR	0
DOD		1.125	0	0	0	0	0	0
FUDS		1.125	0	0	0	0	0	0
US BROWNFIELDS		0.625	0	0	0	0	NR	0
CONSENT		1.125	0	0	0	0	0	0
ROD		1.125	0	0	0	0	0	0
UMTRA		0.625	0	0	0	0	NR	0
ODI		0.625	0	0	0	0	NR	0
TRIS		0.125	0	NR	NR	NR	NR	0
TSCA		0.125	0	NR	NR	NR	NR	0
FTTS		0.125	0	NR	NR	NR	NR	0
SSTS		0.125	0	NR	NR	NR	NR	0
PADS		0.125	0	NR	NR	NR	NR	0
MLTS		0.125	0	NR	NR	NR	NR	0
MINES		0.375	0	0	0	NR	NR	0
FINDS		0.125	0	NR	NR	NR	NR	0
RAATS		0.125	0	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste - ECSI		1.125	0	0	1	2	0	3
OR CRL		1.125	0	0	1	0	0	1
State Landfill		0.625	0	0	0	0	NR	0
UIC		0.375	0	1	0	NR	NR	1
HIST LF		0.625	0	0	0	0	NR	0
LUST		0.625	0	2	10	3	NR	15
AOC COL		1.125	0	0	0	0	0	0
UST		0.375	0	2	5	NR	NR	7
AST		0.375	0	0	1	NR	NR	1
OR SPILLS		0.125	0	NR	NR	NR	NR	0
OR HAZMAT		0.125	0	NR	NR	NR	NR	0
ENG CONTROLS		0.625	0	0	0	0	NR	0
INST CONTROL		0.625	0	0	0	0	NR	0
OR VCS		0.625	0	0	0	0	NR	0
DRYCLEANERS		0.375	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
BROWNFIELDS		0.625	0	0	0	0	NR	0
CDL		0.125	0	NR	NR	NR	NR	0
HSIS		0.125	0	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.125	0	0	0	0	0	0
INDIAN LUST		0.625	0	0	0	0	NR	0
INDIAN UST		0.375	0	0	0	NR	NR	0
EDR PROPRIETARY RECORDS								
COAL GAS		1.125	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1
NNW
1/8-1/4
690 ft.

D AND D MANUFACTURING INCORPORATED — **RCRA-SQG** **1000644636**
302 NORTHWEST 257TH WAY — **FINDS** **ORD987194776**
TROUTDALE, OR 97060

Relative:
Equal

Actual:
43 ft.

RCRAInfo:
Owner: THIRD DIMENSION INC
503 618 8711
EPA ID: ORD987194776
Contact: NO DATA ENTERED NO DATA ENTERED
NO DATA ENTERED
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 01/08/1992
Actual Date Achieved Compliance: 04/24/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/09/1992
Penalty Type: Proposed Monetary Penalty

Enforcement Action: CIVIL ACTION FOR IMMINENT HAZARDS
Enforcement Action Date: 04/08/1992
Penalty Type: Proposed Monetary Penalty

Regulation Violated: 262.11
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 12/12/1991
Actual Date Achieved Compliance: 04/24/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/09/1992
Penalty Type: Proposed Monetary Penalty

Enforcement Action: CIVIL ACTION FOR IMMINENT HAZARDS
Enforcement Action Date: 03/28/1992
Penalty Type: Proposed Monetary Penalty

Enforcement Action: CIVIL ACTION FOR IMMINENT HAZARDS
Enforcement Action Date: 04/08/1992
Penalty Type: Proposed Monetary Penalty

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final Monetary Penalty	4/8/1992	1300	STATE
Proposed Monetary Penalty	4/8/1992	1300	STATE
Final Monetary Penalty	3/28/1992	800	STATE
Proposed Monetary Penalty	3/28/1992	800	STATE

There are 2 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Other Evaluation	GENERATOR-GENERAL REQUIREMENTS	19920424
	TSD-OTHER REQUIREMENTS	19920424

D AND D MANUFACTURING INCORPORATED (Continued) **1000644636**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
OREGON-DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

A2
SSE
1/8-1/4
783 ft.

Relative:
Higher

Actual:
65 ft.

TROUTDALE, CITY OF **UST** **U000431075**
104 SE KIBLING **N/A**
TROUTDALE, OR 97060

Site 1 of 2 in cluster A

UST:

Facility ID:	5183
Facility Telephone:	(503) 665-5175
Permittee Name:	ERIC A JOHNSON, PUBLIC WORKS FOREMAN
Active Tanks:	Not reported
Decommissioned Tanks:	4
Number of Permitted Tanks:	Not reported
Number of Upgraded Tanks:	4

A3
SSE
1/8-1/4
783 ft.

Relative:
Higher

Actual:
65 ft.

CITY OF TROUTDALE(OWNER:CITY OF TROUTDAL **UIC** **S106770950**
104 SE KIBLING AVE., **N/A**
TROUTDALE, OR

Site 2 of 2 in cluster A

OR UIC:

UIC Number :	10036
Num Of UIC Wells :	135
Type :	5D2
Type Description :	Storm Water Drainage
Status :	Active
Facility Status :	Under Review
Lat/Long :	45.5258 / -122.4002
DEQ Permit :	No permit information is available.

4
WNW
1/8-1/4
784 ft.

Relative:
Equal

Actual:
43 ft.

COLUMBIA GORGE FACTORY STORES **RCRA-SQG** **1001225025**
450 NW 257TH AVE **FINDS** **ORQ000005751**
TROUTDALE, OR 97060

RCRAInfo:

Owner:	CHELSEA GCA REALTY PARTNERSHIP, LP (201) 228-6111
EPA ID:	ORQ000005751
Contact:	CHUCK JARRETT (503) 669-8060
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

COLUMBIA GORGE FACTORY STORES (Continued) **1001225025**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
OREGON-DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

B5
SW
1/8-1/4
941 ft.

HANDY BROTHERS SERVICE **LUST U000431057**
146 W COLUMBIA **UST N/A**
TROUTDALE, OR 97060

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
71 ft.

LUST:

Facility ID:	26-93-0222
Region:	North Western Region
Cleanup Start:	15-Dec-93
Closed Date:	2-Jun-94
Cleanup Complete:	10-Mar-94

UST:

Facility ID:	2362
Facility Telephone:	(503)665-4752
Permittee Name:	OWNER
Active Tanks:	Not reported
Decommissioned Tanks:	6
Number of Permitted Tanks:	Not reported
Number of Upgraded Tanks:	6

B6
SW
1/8-1/4
1065 ft.

TRANSCO INDUSTRIES INC **RCRA-SQG 1000319969**
115 W COLUMBIA **FINDS ORD980982748**
TROUTDALE, OR 97060

Site 2 of 2 in cluster B

Relative:
Higher

Actual:
75 ft.

RCRAInfo:

Owner:	JACK BROWN
EPA ID:	ORD980982748
Contact:	Not reported
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

7
SSW
1/8-1/4
1087 ft.

NEDERHISER, L HOT
105 SW 2ND
TROUTDALE, OR 97060

LUST

S100921459
N/A

Relative:
Higher

Actual:
97 ft.

LUST:

Facility ID:	26-94-5108
Region:	North Western Region
Cleanup Start:	3-May-94
Closed Date:	9-Nov-94
Cleanup Complete:	9-May-94

8
South
1/4-1/2
1526 ft.

EMC MORTGAGE
411 SE HARLOW AVE
TROUTDALE, OR 97060

LUST

S105463473
N/A

Relative:
Higher

Actual:
187 ft.

LUST:

Facility ID:	26-02-5508
Region:	North Western Region
Cleanup Start:	26-Mar-02
Closed Date:	Not reported
Cleanup Complete:	30-Jul-03

9
SSW
1/4-1/2
1569 ft.

WOOD, BILL
107 SW 4TH ST
TROUTDALE, OR 97060

LUST

S105463474
N/A

Relative:
Higher

Actual:
153 ft.

LUST:

Facility ID:	26-02-5944
Region:	North Western Region
Cleanup Start:	20-May-02
Closed Date:	25-Jul-02
Cleanup Complete:	25-Jul-02

C10
SE
1/4-1/2
1708 ft.

TROUTDALE SAND & GRAVEL/US MARSHALL
645 E HISTORIC COLUMBIA RIVER HWY
TROUTDALE, OR 97060

Site 1 of 2 in cluster C

LUST

S100675806
N/A

Relative:
Lower

Actual:
31 ft.

LUST:

Facility ID:	26-93-0122
Region:	North Western Region
Cleanup Start:	28-Oct-93
Closed Date:	10-Dec-93
Cleanup Complete:	28-Oct-93

11
South
1/4-1/2
1756 ft.

FAHNER, CRAIG
245 SE 5TH STREET
TROUTDALE, OR 97060

LUST

S106475826
N/A

Relative:
Higher

Actual:
217 ft.

LUST:

Facility ID:	26-04-0990
Region:	North Western Region
Cleanup Start:	28-May-04
Closed Date:	12-Nov-04

FAHNER, CRAIG (Continued) **S106475826**

Cleanup Complete: 12-Nov-04

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12 **TROUTDALE SAND & GRAVEL CO INC** **UST** **U000431073**
SE **E COLUMBIA ST** **N/A**
1/4-1/2 **TROUTDALE, OR 97060**
1774 ft.

Relative:
Lower

Actual:
35 ft.

UST:
Facility ID: 1819
Facility Telephone: (503) 665-4121
Permittee Name: CRAIG W WARNOCK, PRESIDENT
Active Tanks: Not reported
Decommissioned Tanks: 0
Number of Permitted Tanks: Not reported
Number of Upgraded Tanks: 3

---

13 **TROUTDALE CITY OF PUBLIC WORKS** **RCRA-SQG** **1004771412**
SW **342 SW 4TH ST** **FINDS** **ORQ000007872**
1/4-1/2 **TROUTDALE, OR 97060**
1793 ft.

Relative:
Higher

Actual:
132 ft.

RCRAInfo:
Owner: TROUTDALE, CITY OF
(503) 665-5175
EPA ID: ORQ000007872
Contact: AARON WILLIAMS
(503) 665-5175
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
OREGON-DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

C14 **TROUTDALE SAND & GRAVEL** **UST** **U001330318**
SE **645 E HISTORIC COLUMBIA RIVER HWY** **N/A**
1/4-1/2 **TROUTDALE, OR 97060**
1798 ft.

Site 2 of 2 in cluster C

Relative:
Lower

Actual:
34 ft.

UST:
Facility ID: 11245
Facility Telephone: (503)326-4194
Permittee Name: KERNAN BAGLEY, US MARSHAL
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Permitted Tanks: Not reported
Number of Upgraded Tanks: 1

D15 **TESORA ALASKA CFN** **UST** **U003158893**
WSW **521 SW HALSEY** **N/A**
1/4-1/2 **TROUTDALE, OR 97060**
1797 ft.

Site 1 of 2 in cluster D

Relative:
Higher

Actual:
92 ft.

UST:

Facility ID:	11659
Facility Telephone:	(503)695-2555
Permittee Name:	GERALD AND RICHARD CERRUTI
Active Tanks:	4
Decommissioned Tanks:	0
Number of Permitted Tanks:	4
Number of Upgraded Tanks:	4

E16 **FLYING J TRAVEL PLAZA** **FINDS** **1006863719**
NW **400 NW FRONTAGE RD** **HSIS** **110014265026**
1/4-1/2 **TROUTDALE, OR 97060** **OR SPILLS**
1813 ft. **OR HAZMAT**
AST

Site 1 of 2 in cluster E

Relative:
Lower

Actual:
42 ft.

FINDS:

Other Pertinent Environmental Activity Identified at Site:
OREGON-DEPARTMENT OF ENVIRONMENTAL QUALITY

HAZMAT:

Facility ID:	HM03-030161		
Incident District:	GRESHAM FIRE DEPT		
Incident Day:	WED	Dept Resp:	HAZMAT TEAM GRESHAM\\MULTNOMAH
Alarm Time:	12/30/1899	Arrival Time:	12/30/1899
Back in Service:	12/30/1899	Company:	FLYING J TRUCK STOP
Responsble Party:	DON ROGNON 1104 COUNTRY HILLS DR ODGEN, UT 84403		
RP Phone:	(801) 624-1000	RP Phone 2:	Not reported
Scene Type:	Not reported	Area Type:	Not reported
Wind Direction:	Not reported	Wind Speed:	Not reported
WFair:	False		
Num U Desc:	Not reported	Num U Fire:	1
Num U Local:	1	Num U State:	0
Num U Police:	0	Num U Public Wks:	0
Num U Amb:	0	Num U Agency:	0
Num U Federal:	0	Num U RR:	0
Num U Other:	0		
Act Secure Area:	False	Act Crowd Control:	False
Act Hot Zone:	False		
Act on Site:	False	Act Tansport:	False
Sol Com Vecicle:	False	Mi Fuel:	True
Chemical:	GASOLINE		
Num Cont 1:	0	Size Cont 1:	0
Num Cont 2:	0	Size Cont 2:	0
Num Cont 3:	0	Size Cont 3:	0
Num Cont 4:	0	Size Cont 4:	0
Num Cont 5:	0	Size Cont 5:	0
Amt Rsk G1:	90	Amt Rel G1:	90
Amt Rsk G2:	0	Amt Rel G2:	0
Amt Rsk G3:	0	Amt Rel G3:	0
Amt Rsk G4:	0	Amt Rel G4:	0
Amt Rsk G5:	0		
Mu Chem Trec:	False	Mu Ship Papers:	False
Mu Placards:	False	Mu On Scene Test:	False

FLYING J TRAVEL PLAZA (Continued) **1006863719**

Mu Other Desc:	GAS STATION		
Vehical Plus:	140	Fixed Property:	0
Fire Inj:	0	Fire Death:	0
Fire Decon:	0	Fire Treat:	0
Fire Hopital:	0		
Civ Inj:	0	Civ Death:	0
Civ Decon:	0	Civ Treat:	0
Civ Hopital:	0		
Other Inj:	0	Other Death:	0
Other Decon:	0	Other Treat:	0
Other Hopital:	0		
Person File:	MICHAEL E TRAEGER	Title Person File:	LIEUTENANT
Agency:	GRESHAM FIRE DEPT	Agency ID:	Not reported
Num U Deq:	0	Inc Num Short:	030161
Hazmat Team:	03	Hazmat local:	False
Hazmat State:	True	Agency Phone:	(503) 618-2590
ID Number:	Not reported	OERS Number:	2003-2356
Dept Rsp 2:	Not reported		
St Pub Road:	False	St Pub Struct:	False
St Pub Land:	False	St Forest:	False
St Other:	False		
St Pri Road:	True	St Pri Struct:	False
St Waterway:	False	St Pri Land:	False
A Industrial:	False	A Residential:	False
A Forest:	False	A commercial:	True
A Rural Agri:	False		
W Rain:	True	W Fog:	False
W Snow Ice:	False		
W Sunny:	False	W Other Desc:	Not reported
Act Activate Oers:	True	Act Traffic:	False
Act Exiting:	False	Act ID Hazmat:	False
Act Evcuate:	False	Act Decontam:	False
Act Evaluate:	False	Act Cleanup:	False
Act Pub Info:	False	Act Remote Haz:	False
Soi Drug Lab:	False	Soi Car:	False
Soi Fixed Facility:	False	Soi Train:	False
Soi Pipeline:	False	Soi Ship:	False
Soi Aircraft:	False	Soi Other:	T
Soi Desc:	T	Soi Other Desc:	GASOLINE
Mi Cargo:	False	Mi Product:	False
Mi Waste Mat:	False		
Coi Normal Op:	True	Coi Dur Fire:	False
Coi Dur Storage:	False	Coi Excavation:	False
Coi Railcar:	False	Coi MVA:	False
Coi Durmanuf:	False	Coi Unauthor:	False
Coi Derailment:	False	Coi Dur Repair:	False
Coi Abandon:	False	Coi in Transit:	False
Coi Docked:	False	Coi Mat not Rel:	False
Amt Rilb1:	0	Amt Ricf1:	0
Amt Rilb2:	0	Amt Ricf2:	0
Amt Rilb3:	0	Amt Ricf3:	0
Amt Rilb4:	0	Amt Ricf4:	0
Amt Rilb5:	0	Amt Ricf5:	0
A Other:	F	Num U State Ag:	0
Amt Rsk P1:	0	Amt Rsk C1:	0
Amt Rsk P2:	0	Amt Rsk C2:	0
Amt Rsk P3:	0	Amt Rsk C3:	0

FLYING J TRAVEL PLAZA (Continued) **1006863719**

Amt Rsk P4:	0	Amt Rsk C4:	0
Amt Rsk P5:	0	Amt Rsk C5:	0
Mu Sfm Hazcom:	False	Mu Off Scene:	False
Mu Text Book:	False	Mu Other:	True
Mu Resp Party:	False		
FD Id:	Not reported		
Incident Date:	10/22/2003		
Agency Report # :	Not reported		
Hmb Cont Fire:	False	Hmb Cause Fire:	False
In Route :	12/30/1899		
Date Added:	12/09/2003		
Unit:	Not reported		
Hmb Caus Explo:	False	Hmb Cont Explo:	False

Hmb Inert No React: False
Hmb Bec Airborne: False
Hmb Contam Area: False
Hmb Enterd Water: True
Comments: MOTOR HOME WAS FILLING WITH GASOLINE AT GAS STATION. THE PUMP HANDLE FAILED TO SHUT OFF AND IT WAS NOT NOTED UNTIL 90 GALLONS WERE RELEASED. GRESHAM FIRE ENGINE 75 ARRIVED AND CONSTRUCTED AN UNDERFLOW DAM IN THE EFFECTED WATERWAY. E73 ARRIVED AND APPLIED ABSORBANT PADS, KITTY LITTER, AND REMOVED IGNITION HAZARDS. NOTIFIED FACILITY TO CONTACT A CLEANUP COMPANY AND THEY COMPLIED.

OR SPILLS:

Facility ID:	05-0362	Spill Date:	Not reported
Material:	Not reported	Quantity:	Not reported
Release Date:	2005-02-20	Year:	Not reported
How Occurred:	Not reported		Not reported
Source:	Motor Vehicle - Commercial	Media	Pavement, Soil

Materials: 80 Gallons of Oil - Diesel
Location: Not reported
Description: Not reported
Responsible Company: Service Transport
Responsible Content: Not reported
Description : driver tried to drive over rocks as shortcut to fuel island

HSIS:

Emergency Contact:	GLEN MACKEY
Emergency Procedure:	FUEL DESK MGR OFFICE
Chemical Trade Name:	PROPANE
Manager Name:	Not reported
Mailing Address:	333 W CENTER ST NORTH SALT LAKE, UT 89054 - 0180
Mailing County:	WEBER
Day Phone:	5036657741
Employee File #:	022106
No. of Employees:	32
Placard:	No
Business Type:	TRAVEL PLAZA GASOLINE SERVICE STATION
Sprinkler System:	Yes
Business Phone:	5036657741
Department Or Division Of Company:	FOR TROUTDALE OREGON
Facility Has Written Emergency Plan:	Yes
Company Name:	FLYING J TRAVEL PLAZA
Fire Dept Code:	0144
Physical State :	Not reported
Physical State Of The Substance:	GAS

FLYING J TRAVEL PLAZA (Continued) **1006863719**

Average Amount Possessed During The Year Code:	04
Description Of The Avg Qnty Code:	50-199
Maximum Amount Possessed During The Year Code:	11
Description Of The Max Qnty Code:	500-999
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Storage Container:	
Type Code:	A
Description:	ABOVEGROUND TANK
Pressure of Hazardous Substance Code:	2
Pressure Description:	GREATER THAN NORMAL PRESSURE
Temperature of The Hazardous Substance Code:	6
Temperature Description:	LESS THAN NORMAL TEMPERATURE BUT NOT CRYOGENIC
Days The Hazardous Substance Is On Site During Year:	365
Is The Substance Protected A Trade Secret:	No
United Nations/north America 4 Digit Classification Number:	1075
Chemical Abstract Service Identifier Number:	74986
First Hazardous Classification Code For Chemical:	2.1
Hazard Classification 1 Of The Chemical:	Flammable Gases
Second Hazardous Classification Code For Chemical:	6.3
Hazard Classification 2 Of The Chemical:	Acute Health Hazard
Third Hazardous Classification Code For Chemical:	Not reported
Hazard Classification 3 Of The Chemical:	Not reported
Is Substance Pure Or Mixture:	Pure
Hazard Rank:	2
Chemical Is An Extremely Hazardous Substance (ehs):	Not reported
Does The Chemical Contain A 112r Chemical:	No
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Most Hazardous Ingridient:	PROPANE
Contains 112R :	No
Contains EHS:	No
Contains 313:	No
Fertilizer:	No
Pesticide:	No
NAICS Code 1:	447110
NAICS Desc 1:	GASOLINE STATIONS WITH CONVENIENCE STORES
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
Emergency Contact:	GLEN MACKEY
Emergency Procedure: FUEL DESK MGR OFFICE	
Chemical Trade Name:	GASOLINE
Manager Name:	Not reported
Mailing Address:	333 W CENTER ST NORTH SALT LAKE, UT 89054 - 0180
Mailing County:	WEBER
Day Phone:	5036657741
Employee File #:	022106
No. of Employees:	32
Placard:	No
Business Type:	TRAVEL PLAZA GASOLINE SERVICE STATION
Sprinkler System:	Yes
Business Phone:	5036657741
Department Or Division Of Company:	FOR TROUTDALE OREGON
Facility Has Written Emergency Plan:	Yes
Company Name:	FLYING J TRAVEL PLAZA

FLYING J TRAVEL PLAZA (Continued) **1006863719**

Fire Dept Code:	0144
Physical State :	Not reported
Physical State Of The Substance:	LIQUID
Average Amount Possessed During The Year Code:	21
Description Of The Avg Qnty Code:	5,000-9,999
Maximum Amount Possessed During The Year Code:	30
Description Of The Max Qnty Code:	10,000-49,999
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Storage Container:	
Type Code:	B
Description:	UNDERGROUND TANK
Pressure of Hazardous Substance Code:	1
Pressure Description:	NORMAL PRESSURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	NORMAL TEMPERATURE
Days The Hazardous Substance Is On Site During Year:	365
Is The Substance Protected A Trade Secret:	No
United Nations/north America 4 Digit Classification Number:	1203
Chemical Abstract Service Identifier Number:	8006619
First Hazardous Classification Code For Chemical:	3.1
Hazard Classification 1 Of The Chemical:	Flammable Liq.(FP<0F)
Second Hazardous Classification Code For Chemical:	6.3
Hazard Classification 2 Of The Chemical:	Acute Health Hazard
Third Hazardous Classification Code For Chemical:	6.4
Hazard Classification 3 Of The Chemical:	Chronic Health Hazard
Is Substance Pure Or Mixture:	Pure
Hazard Rank:	2
Chemical Is An Extremely Hazardous Substance (ehs):	Not reported
Does The Chemical Contain A 112r Chemical:	No
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Most Hazardous Ingridient:	PETROLEUM DISTILLATES
Contains 112R :	No
Contains EHS:	No
Contains 313:	Yes
Fertilizer:	No
Pesticide:	No
NAICS Code 1:	447110
NAICS Desc 1:	GASOLINE STATIONS WITH CONVENIENCE STORES
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
Emergency Contact:	GLEN MACKEY
Emergency Procedure: FUEL DESK MGR OFFICE	
Chemical Trade Name:	DIESEL
Manager Name:	Not reported
Mailing Address:	333 W CENTER ST NORTH SALT LAKE, UT 89054 - 0180
Mailing County:	WEBER
Day Phone:	5036657741
Employee File #:	022106
No. of Employees:	32
Placard:	No
Business Type:	TRAVEL PLAZA GASOLINE SERVICE STATION
Sprinkler System:	Yes
Business Phone:	5036657741

FLYING J TRAVEL PLAZA (Continued) **1006863719**

Department Or Division Of Company:	FOR TROUTDALE OREGON
Facility Has Written Emergency Plan:	Yes
Company Name:	FLYING J TRAVEL PLAZA
Fire Dept Code:	0144
Physical State :	Not reported
Physical State Of The Substance:	LIQUID
Average Amount Possessed During The Year Code:	30
Description Of The Avg Qnty Code:	10,000-49,999
Maximum Amount Possessed During The Year Code:	31
Description Of The Max Qnty Code:	50,000-99,999
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Storage Container:	
Type Code:	B
Description:	UNDERGROUND TANK
Pressure of Hazardous Substance Code:	1
Pressure Description:	NORMAL PRESSURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	NORMAL TEMPERATURE
Days The Hazardous Substance Is On Site During Year:	365
Is The Substance Protected A Trade Secret:	No
United Nations/north America 4 Digit Classification Number:	1202
Chemical Abstract Service Identifier Number:	68476346
First Hazardous Classification Code For Chemical:	3.3
Hazard Classification 1 Of The Chemical:	Flammable Liq. (73F<FP<141F)
Second Hazardous Classification Code For Chemical:	6.3
Hazard Classification 2 Of The Chemical:	Acute Health Hazard
Third Hazardous Classification Code For Chemical:	6.4
Hazard Classification 3 Of The Chemical:	Chronic Health Hazard
Is Substance Pure Or Mixture:	Mixture
Hazard Rank:	2
Chemical Is An Extremely Hazardous Substance (ehs):	Not reported
Does The Chemical Contain A 112r Chemical:	No
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Most Hazardous Ingridient:	PETROLEUM DISTILLATES
Contains 112R :	No
Contains EHS:	No
Contains 313:	Yes
Fertilizer:	No
Pesticide:	No
NAICS Code 1:	447110
NAICS Desc 1:	GASOLINE STATIONS WITH CONVENIENCE STORES
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported

AST:

Employer File Number:	022106
Hazardous Substance:	PROPANE
Reporting Quantities:	500-999
Quantity Units:	GALLONS
Physical State:	GAS
Storage 1:	ABOVEGROUND TANK

E17
NW
1/4-1/2
1813 ft.

Relative:
Lower

Actual:
42 ft.

FLYING J TRAVEL PLAZA
400 NW FRONTAGE RD
TROUTDALE, OR 97060

Database(s): LUST, OR SPILLS, UST, OR HAZMAT

EDR ID Number: U000431053
EPA ID Number: N/A

Site 2 of 2 in cluster E

LUST:

Facility ID:	26-91-0004
Region:	North Western Region
Cleanup Start:	1-Nov-90
Closed Date:	18-Sep-91
Cleanup Complete:	17-Sep-91

Facility ID:	26-03-2506
Region:	North Western Region
Cleanup Start:	3-Dec-03
Closed Date:	Not reported
Cleanup Complete:	Not reported

HAZMAT:

Facility ID:	HM03-960252		
Incident District:	TROUTDALE		
Incident Day:	Tue	Dept Resp:	HAZMAT TEAM GRESHAM\\MULTNOMAH
Alarm Time:	12/30/1899	Arrival Time:	12/30/1899
Back in Service:	12/30/1899	Company:	S.A.A.
Responsble Party:	B D R TRANSPORT CO 7994 US ROUTE 5 S WESTMINSTER, VT 01158		
RP Phone:	800-421-0126	RP Phone 2:	Not reported
Scene Type:	STORM DRAINS	Area Type:	Not reported
Wind Direction:	FR E	Wind Speed:	15
WFair:	False		
Num U Desc:	Not reported	Num U Fire:	2
Num U Local:	0	Num U State:	1
Num U Police:	0	Num U Public Wks:	0
Num U Amb:	0	Num U Agency:	1
Num U Federal:	0	Num U RR:	0
Num U Other:	0		
Act Secure Area:	False	Act Crowd Control:	True
Act Hot Zone:	False		
Act on Site:	False	Act Tansport:	False
Sol Com Vecicle:	True	Mi Fuel:	True
Chemical:	DIESEL		
Num Cont 1:	2	Size Cont 1:	150
Num Cont 2:	0	Size Cont 2:	0
Num Cont 3:	0	Size Cont 3:	0
Num Cont 4:	0	Size Cont 4:	0
Num Cont 5:	0	Size Cont 5:	0
Amt Rsk G1:	300	Amt Rel G1:	150
Amt Rsk G2:	0	Amt Rel G2:	0
Amt Rsk G3:	0	Amt Rel G3:	0
Amt Rsk G4:	0	Amt Rel G4:	0
Amt Rsk G5:	0		
Mu Chem Trec:	False	Mu Ship Papers:	False
Mu Placards:	False	Mu On Scene Test:	False
Mu Other Desc:	Not reported		
Vehical Plus:	160	Fixed Property:	0
Fire Inj:	0	Fire Death:	0
Fire Decon:	0	Fire Treat:	0
Fire Hopital:	0		

FLYING J TRAVEL PLAZA (Continued) **U000431053**

Civ Inj:	0	Civ Death:	0
Civ Decon:	0	Civ Treat:	0
Civ Hopital:	0		
Other Inj:	0	Other Death:	0
Other Decon:	0	Other Treat:	0
Other Hopital:	0		
Person File:	STEPEHEN V BEST	Title Person File:	LT
Agency:	GRESHAM FD	Agency ID:	Not reported
Num U Deq:	0	Inc Num Short:	960252
Hazmat Team:	03	Hazmat local:	True
Hazmat State:	False	Agency Phone:	503-618-2355
ID Number:	HM-03	OERS Number:	Not reported
Dept Rsp 2:	Not reported		
St Pub Road:	False	St Pub Struct:	False
St Pub Land:	False	St Forest:	False
St Other:	False		
St Pri Road:	False	St Pri Struct:	False
St Waterway:	True	St Pri Land:	True
A Industrial:	False	A Residential:	False
A Forest:	False	A commercial:	True
A Rural Agri:	False		
W Rain:	True	W Fog:	False
W Snow Ice:	False		
W Sunny:	False	W Other Desc:	Not reported
Act Activate Oers:	False	Act Traffic:	False
Act Exiting:	False	Act ID Hazmat:	True
Act Evcuate:	False	Act Decontam:	False
Act Evaluate:	False	Act Cleanup:	False
Act Pub Info:	False	Act Remote Haz:	False
Soi Drug Lab:	False	Soi Car:	False
Soi Fixed Facility:	False	Soi Train:	False
Soi Pipeline:	False	Soi Ship:	False
Soi Aircraft:	False	Soi Other:	F
Soi Desc:	F	Soi Other Desc:	Not reported
Mi Cargo:	False	Mi Product:	False
Mi Waste Mat:	False		
Coi Normal Op:	False	Coi Dur Fire:	False
Coi Dur Storage:	False	Coi Excavation:	False
Coi Railcar:	False	Coi MVA:	False
Coi Durmanuf:	False	Coi Unauthor:	False
Coi Derailment:	False	Coi Dur Repair:	False
Coi Abandon:	False	Coi in Transit:	True
Coi Docked:	False	Coi Mat not Rel:	False
Amt Rilb1:	0	Amt Ricf1:	0
Amt Rilb2:	0	Amt Ricf2:	0
Amt Rilb3:	0	Amt Ricf3:	0
Amt Rilb4:	0	Amt Ricf4:	0
Amt Rilb5:	0	Amt Ricf5:	0
A Other:	F	Num U State Ag:	1
Amt Rsk P1:	0	Amt Rsk C1:	0
Amt Rsk P2:	0	Amt Rsk C2:	0
Amt Rsk P3:	0	Amt Rsk C3:	0
Amt Rsk P4:	0	Amt Rsk C4:	0
Amt Rsk P5:	0	Amt Rsk C5:	0
Mu Sfm Hazcom:	False	Mu Off Scene:	False
Mu Text Book:	False	Mu Other:	False
Mu Resp Party:	True		

FLYING J TRAVEL PLAZA (Continued) **U000431053**

FD Id: -03
Incident Date: 11/19/1996
Agency Report # : 96-006998
Hmb Cont Fire: False
Hmb Cause Fire: False
In Route : 12/30/1899
Date Added: / /
Unit: Not reported
Hmb Caus Explo: False
Hmb Cont Explo: False
Hmb Inert No React: False
Hmb Bec Airborne: False
Hmb Contam Area: True
Hmb Enterd Water: False
Comments: HM3, E-75, 701 CALLED TO DIESEL SPILL AT FLYING J TRUCK STOP. ARRIVED AND FOUND SPILL OF 150 GALLONS OF DIESEL FUEL. HEAVY RAINS CAUSING FUEL TO BE SPREAD OVER LARGE AREA. HM3 & E-75 INVESTIGATED SPREAD OF FUEL, PLACED BOOMS IN DITCHES & NEAR STO
RM DRAIN OPENINGS TO CONTROL FLOW OF DIESEL TO MAJOR WATERWAYS LIKE COLUMBIA RIVER. PADS WERE PLACED UNDER TRUCK BY DRIVER AND TRUCK STOP PERSONNEL TO CONTROL RUN OFF. PRIOR TO OUR ARRIVAL, TRUCK DRIVER HAD CLOSED CROSS OVER LINE TO FUEL TANK TO S
TOP FLOW PRIOR TO OUR ARRIVAL. HM INITIATED COMMUNICATIONS AND FACILITATED THEM WITH OARS, DEQ, OWNER GREG GAY IN VT, AND MANAGER OF FLYING J TRUCK STOP.

OR SPILLS:
Facility ID: Not reported
Spill Date: Not reported
Material: Not reported
Quantity: Not reported
Release Date: 11/20/199
Year: 96
How Occurred: Not reported
Not reported
Source: Not reported
Media Not reported
Materials: Not reported
Location: A diesel additive storage tank behind main bldg.
Description: Secondary containment for UST
Responsible Company: Flying J Travel Plaza
Responsible Content: Not reported
Description : Not reported

Facility ID: Not reported
Spill Date: 04APR1997
Material: Not reported
Quantity: Not reported
Release Date: 04/04/1997
Year: 97
How Occurred: Not reported
Not reported
Source: Not reported
Media Not reported
Materials: Not reported
Location: Not reported
Description: 3 gallons diesel spilled onto the concrete- malfunctioning vent on tank on truck.
All cpatured in spill/water seperator.
Responsible Company: Flying J Truck Plaza
Responsible Content: Not reported
Description : Not reported

Facility ID: Not reported
Spill Date: 24MAY1997
Material: Not reported
Quantity: Not reported
Release Date: 05/24/1997
Year: 97
How Occurred: Not reported
Not reported
Source: Not reported
Media Not reported
Materials: Not reported
Location: Parking Lot
Description: Driver filling tank with a diesel additive. Over topped. Spill contained in parking

FLYING J TRAVEL PLAZA (Continued) **U000431053**

lot. Using absorbent material to clean up.
Responsible Company: Flying J Truck Stop
Responsible Content: Not reported
Description : Not reported

Facility ID: 03-2539 Spill Date: Not reported
Material: Not reported Quantity: Not reported
Release Date: 11/13/03 Year: 2003
How Occurred: Not reported Not reported
Source: UST Media Soil
Materials: Not reported
Location: Not reported
Description: Pressure test on fuel system shows a leak in the line to the UST. Have checked all the portions of the lines that are available but cannot identify the leak. They are trying to schedule a helium test for tommorow.
Responsible Company: Flying J Travel Plaza Glen Ma
Responsible Content: Not reported
Description : Not reported

Facility ID: 03-2356 Spill Date: Not reported
Material: Not reported Quantity: Not reported
Release Date: 10/22/03 Year: 2003
How Occurred: Not reported Not reported
Source: Motor Vehicle - Tank Truck Media Pavement, Surface Water
Materials: 90 Gallons of Oil - Gasoline
Location: Not reported
Description: 90 Gallons gasoline spill to pavement and storm drain.
Responsible Company: Flying J Travel Plaza Glen Ma
Responsible Content: Not reported
Description : Not reported

Facility ID: 05-0712 Spill Date: Not reported
Material: Not reported Quantity: Not reported
Release Date: 2005-04-05 Year: Not reported
How Occurred: Not reported Not reported
Source: Motor Vehicle - Commercial Media Pavement, Soil
Materials: 49 Gallons of Oil - Diesel
Location: Not reported
Description: Not reported
Responsible Company: Flying J Travel Plaza
Responsible Content: Glen Machey
Description : Estimated 49 gallon diesel spill to soil at the Flying J Travel Plaza in Troutdale. Spill occured after tank was ruptur

Facility ID: 05-0648 Spill Date: Not reported
Material: Not reported Quantity: Not reported
Release Date: 2005-03-26 Year: Not reported
How Occurred: Not reported Not reported
Source: Motor Vehicle - Commercial Media Pavement, Soil
Materials: 100 Gallons of Oil - Diesel
Location: Not reported
Description: Not reported
Responsible Company: Flying J Travel Plaza
Responsible Content: Glen Machey
Description : 100 gallon diesel spill at Flying J. Truck stop due to mechanical failure during fuel transfer. Spill to asphalt and me

FLYING J TRAVEL PLAZA (Continued) **U000431053**

UST:
Facility ID: 10668
Facility Telephone: (801)734-9416
Permittee Name: DONALD ROGNON
Active Tanks: 6
Decommissioned Tanks: 0
Number of Permitted Tanks: 6
Number of Upgraded Tanks: 6

D18
WSW
1/4-1/2
1888 ft.

Relative:
Higher

Actual:
94 ft.

SHIRLEY, GERALDINE **UST** **U000431065**
ROUTE 1, BOX 157 **N/A**
STANFIELD, OR 97875

Site 2 of 2 in cluster D

UST:
Facility ID: 10326
Facility Telephone: (503) 567-2322
Permittee Name: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Permitted Tanks: Not reported
Number of Upgraded Tanks: 1

F19
WNW
1/4-1/2
2043 ft.

Relative:
Lower

Actual:
42 ft.

BURNS BROTHERS **LUST** **U000431041**
650 NW FRONTAGE RD **UST** **N/A**
TROUTDALE, OR 97060

Site 1 of 2 in cluster F

LUST:
Facility ID: 26-88-0042
Region: North Western Region
Cleanup Start: 1-Aug-89
Closed Date: 1-Aug-89
Cleanup Complete: 1-Aug-89

UST:
Facility ID: 1743
Facility Telephone: (503) 850-1397
Permittee Name: BILL KIRKSEY, CAR - TRUCKSTOP MANAGER
Active Tanks: Not reported
Decommissioned Tanks: 10
Number of Permitted Tanks: Not reported
Number of Upgraded Tanks: 10

20
South
1/4-1/2
2147 ft.

Relative:
Higher

Actual:
229 ft.

TROUTDALE ELEMENTARY SHOP BUILDING **LUST** **S105075806**
648 SE HARLOW ST **N/A**
TROUTDALE, OR 97060

LUST:
Facility ID: 26-01-6529
Region: North Western Region
Cleanup Start: 23-Jul-01
Closed Date: 12-Oct-01
Cleanup Complete: 12-Oct-01

F21
WNW
1/4-1/2
2182 ft.

Relative:
Lower

Actual:
41 ft.

TROUTDALE TRAVEL CENTER
790 NW FRONTAGE RD
TROUTDALE, OR 97060

LUST
OR SPILLS
UST
OR HAZMAT

U000431042
N/A

Site 2 of 2 in cluster F

LUST:

Facility ID:	26-93-0043
Region:	North Western Region
Cleanup Start:	2-Feb-93
Closed Date:	19-Dec-02
Cleanup Complete:	7-Oct-02

HAZMAT:

Facility ID:	HM03-960032		
Incident District:	GRESHAM		
Incident Day:	Fri	Dept Resp:	HAZMAT TEAM GRESHAM\\MULTNOMAH
Alarm Time:	12/30/1899	Arrival Time:	12/30/1899
Back in Service:	12/30/1899	Company:	SWIFT TRANSPORTATION
Responsble Party:	Not reported 2021 NW SUNDIAL RD TROUTDALE, OR 97060		
RP Phone:	503-661-3031	RP Phone 2:	Not reported
Scene Type:	Not reported	Area Type:	Not reported
Wind Direction:	SW	Wind Speed:	5
WFair:	False		
Num U Desc:	Not reported	Num U Fire:	1
Num U Local:	0	Num U State:	1
Num U Police:	1	Num U Public Wks:	0
Num U Amb:	1	Num U Agency:	1
Num U Federal:	0	Num U RR:	0
Num U Other:	0		
Act Secure Area:	True	Act Crowd Control:	True
Act Hot Zone:	False		
Act on Site:	False	Act Tansport:	False
Sol Com Vecicle:	True	Mi Fuel:	True
Chemical:	DIESEL		
Num Cont 1:	2	Size Cont 1:	100
Num Cont 2:	0	Size Cont 2:	0
Num Cont 3:	0	Size Cont 3:	0
Num Cont 4:	0	Size Cont 4:	0
Num Cont 5:	0	Size Cont 5:	0
Amt Rsk G1:	0	Amt Rel G1:	0
Amt Rsk G2:	0	Amt Rel G2:	0
Amt Rsk G3:	0	Amt Rel G3:	0
Amt Rsk G4:	0	Amt Rel G4:	0
Amt Rsk G5:	0		
Mu Chem Trec:	False	Mu Ship Papers:	False
Mu Placards:	False	Mu On Scene Test:	False
Mu Other Desc:	Not reported		
Vehical Plus:	1500	Fixed Property:	0
Fire Inj:	0	Fire Death:	0
Fire Decon:	0	Fire Treat:	0
Fire Hopital:	0		
Civ Inj:	0	Civ Death:	0
Civ Decon:	0	Civ Treat:	0
Civ Hopital:	0		
Other Inj:	0	Other Death:	0
Other Decon:	0	Other Treat:	0
Other Hopital:	0		

TROUTDALE TRAVEL CENTER (Continued) **U000431042**

Person File:	DONALD PIERCE	Title Person File:	TM LDR
Agency:	GRESHAM FD	Agency ID:	Not reported
Num U Deq:	0	Inc Num Short:	960032
Hazmat Team:	03	Hazmat local:	False
Hazmat State:	True	Agency Phone:	503-618-2480
ID Number:	HM-03	OERS Number:	Not reported
Dept Rsp 2:	Not reported		
St Pub Road:	False	St Pub Struct:	False
St Pub Land:	False	St Forest:	False
St Other:	False		
St Pri Road:	False	St Pri Struct:	False
St Waterway:	False	St Pri Land:	True
A Industrial:	False	A Residential:	False
A Forest:	False	A commercial:	True
A Rural Agri:	False		
W Rain:	True	W Fog:	False
W Snow Ice:	False		
W Sunny:	False	W Other Desc:	Not reported
Act Activate Oers:	True	Act Traffic:	True
Act Exiting:	False	Act ID Hazmat:	True
Act Evcuate:	False	Act Decontam:	False
Act Evaluate:	True	Act Cleanup:	True
Act Pub Info:	False	Act Remote Haz:	False
Soi Drug Lab:	False	Soi Car:	False
Soi Fixed Facility:	False	Soi Train:	False
Soi Pipeline:	False	Soi Ship:	False
Soi Aircraft:	False	Soi Other:	F
Soi Desc:	F	Soi Other Desc:	Not reported
Mi Cargo:	False	Mi Product:	False
Mi Waste Mat:	False		
Coi Normal Op:	True	Coi Dur Fire:	False
Coi Dur Storage:	False	Coi Excavation:	False
Coi Railcar:	False	Coi MVA:	False
Coi Durmanuf:	False	Coi Unauthor:	False
Coi Derailment:	False	Coi Dur Repair:	False
Coi Abandon:	False	Coi in Transit:	False
Coi Docked:	False	Coi Mat not Rel:	False
Amt Rilb1:	0	Amt Ricf1:	0
Amt Rilb2:	0	Amt Ricf2:	0
Amt Rilb3:	0	Amt Ricf3:	0
Amt Rilb4:	0	Amt Ricf4:	0
Amt Rilb5:	0	Amt Ricf5:	0
A Other:	F	Num U State Ag:	1
Amt Rsk P1:	0	Amt Rsk C1:	0
Amt Rsk P2:	0	Amt Rsk C2:	0
Amt Rsk P3:	0	Amt Rsk C3:	0
Amt Rsk P4:	0	Amt Rsk C4:	0
Amt Rsk P5:	0	Amt Rsk C5:	0
Mu Sfm Hazcom:	False	Mu Off Scene:	False
Mu Text Book:	False	Mu Other:	False
Mu Resp Party:	False		
FD Id:	-03		
Incident Date:	04/12/1996		
Agency Report # :	96-2210		
Hmb Cont Fire:	False	Hmb Cause Fire:	False
In Route :	12/30/1899		
Date Added:	/ /		

TROUTDALE TRAVEL CENTER (Continued) **U000431042**

Unit:	Not reported		
Hmb Caus Explo:	False	Hmb Cont Explo:	False
Hmb Inert No React:	False		
Hmb Bec Airborne:	False		
Hmb Contam Area:	True		
Hmb Enterd Water:	False		

Comments: RESPONDED TO FUEL SPILL. A SWIFT TRANSPORTATION CO TRACTOR WITH NO TRAILER, WHO HAD ACCIDENT HIT A CONCRETE POST WITH A SADDLE FUEL TANK. TANK WAS LEAKING APPROX 1 GPM OF FUEL. ABSORBENT PADS WERE BEING PLACED TO CONTAIN FUEL RUN-OFF. THE ABOSRBENT
FIRE UNITS SECURED AREA TO DENY ENTRY. TROUTDALE PD INDICATED THAT THERE WAS REASON TO BLEIEVE THAT A METH LAB HAD BEEN WORKING IN THAT RM. RESIDENCE FLED IN A HURRY LEAVING 3 LB COFFEE CAN W/WHITE PASTE & WHITE CRYSTALLINE RESIDUE IN A GLASS ASHTRA
PADS
Y. HM

Facility ID:	HM03-950372		
Incident District:	TROUTDALE		
Incident Day:	Fri	Dept Resp:	HAZMAT TEAM GRESHAM\\MULTNOMAH
Alarm Time:	12/30/1899	Arrival Time:	12/30/1899
Back in Service:	12/30/1899	Company:	TROUTDALE POLICE DEP
Responsble Party:	OFFICER JOHN COPELAN		
	Not reported		
	TROUTDALE, OR 97060		
RP Phone:	503-665-5175	RP Phone 2:	Not reported
Scene Type:	Not reported	Area Type:	Not reported
Wind Direction:	NW	Wind Speed:	0-3
WFair:	True		
Num U Desc:	Not reported	Num U Fire:	2
Num U Local:	0	Num U State:	1
Num U Police:	1	Num U Public Wks:	0
Num U Amb:	0	Num U Agency:	1
Num U Federal:	0	Num U RR:	0
Num U Other:	0		
Act Secure Area:	False	Act Crowd Control:	True
Act Hot Zone:	True		
Act on Site:	False	Act Tansport:	False
Sol Com Vecicle:	False	Mi Fuel:	False
Chemical:	DRUG LAB CHEMICALS		
Num Cont 1:	1	Size Cont 1:	1
Num Cont 2:	0	Size Cont 2:	0
Num Cont 3:	0	Size Cont 3:	0
Num Cont 4:	0	Size Cont 4:	0
Num Cont 5:	0	Size Cont 5:	0
Amt Rsk G1:	0	Amt Rel G1:	0
Amt Rsk G2:	0	Amt Rel G2:	0
Amt Rsk G3:	0	Amt Rel G3:	0
Amt Rsk G4:	0	Amt Rel G4:	0
Amt Rsk G5:	0		
Mu Chem Trec:	False	Mu Ship Papers:	False
Mu Placards:	False	Mu On Scene Test:	False
Mu Other Desc:	Y		
Vehical Plus:	0	Fixed Property:	0
Fire Inj:	0	Fire Death:	0
Fire Decon:	0	Fire Treat:	0
Fire Hopital:	0		
Civ Inj:	0	Civ Death:	0

TROUTDALE TRAVEL CENTER (Continued) **U000431042**

Civ Decon:	0	Civ Treat:	0
Civ Hopital:	0		
Other Inj:	0	Other Death:	0
Other Decon:	0	Other Treat:	0
Other Hopital:	0		
Person File:	CLAYTON MARTIN	Title Person File:	CAPTAIN
Agency:	HM-03	Agency ID:	Not reported
Num U Deq:	0	Inc Num Short:	950372
Hazmat Team:	03	Hazmat local:	False
Hazmat State:	False	Agency Phone:	503-669-2590
ID Number:	HM-03	OERS Number:	Not reported
Dept Rsp 2:	Not reported		
St Pub Road:	False	St Pub Struct:	False
St Pub Land:	False	St Forest:	False
St Other:	False		
St Pri Road:	False	St Pri Struct:	True
St Waterway:	False	St Pri Land:	False
A Industrial:	False	A Residential:	False
A Forest:	False	A commercial:	True
A Rural Agri:	False		
W Rain:	False	W Fog:	False
W Snow Ice:	False		
W Sunny:	False	W Other Desc:	Not reported
Act Activate Oers:	False	Act Traffic:	False
Act Exiting:	False	Act ID Hazmat:	False
Act Evcuate:	True	Act Decontam:	True
Act Evaluate:	False	Act Cleanup:	False
Act Pub Info:	False	Act Remote Haz:	True
Soi Drug Lab:	True	Soi Car:	False
Soi Fixed Facility:	False	Soi Train:	False
Soi Pipeline:	False	Soi Ship:	False
Soi Aircraft:	False	Soi Other:	F
Soi Desc:	F	Soi Other Desc:	Not reported
Mi Cargo:	False	Mi Product:	True
Mi Waste Mat:	False		
Coi Normal Op:	False	Coi Dur Fire:	False
Coi Dur Storage:	False	Coi Excavation:	False
Coi Railcar:	False	Coi MVA:	False
Coi Durmanuf:	False	Coi Unauthor:	False
Coi Derailment:	False	Coi Dur Repair:	False
Coi Abandon:	True	Coi in Transit:	False
Coi Docked:	False	Coi Mat not Rel:	False
Amt Rilb1:	0	Amt Ricf1:	0
Amt Rilb2:	0	Amt Ricf2:	0
Amt Rilb3:	0	Amt Ricf3:	0
Amt Rilb4:	0	Amt Ricf4:	0
Amt Rilb5:	0	Amt Ricf5:	0
A Other:	F	Num U State Ag:	1
Amt Rsk P1:	0	Amt Rsk C1:	0
Amt Rsk P2:	0	Amt Rsk C2:	0
Amt Rsk P3:	0	Amt Rsk C3:	0
Amt Rsk P4:	0	Amt Rsk C4:	0
Amt Rsk P5:	0	Amt Rsk C5:	0
Mu Sfm Hazcom:	False	Mu Off Scene:	False
Mu Text Book:	False	Mu Other:	False
Mu Resp Party:	False		
FD Id:	-03		

TROUTDALE TRAVEL CENTER (Continued) **U000431042**

Incident Date: 06/02/1995
Agency Report # : Not reported
Hmb Cont Fire: False Hmb Cause Fire: False
In Route : 12/30/1899
Date Added: / /
Unit: Not reported
Hmb Caus Explo: False Hmb Cont Explo: False
Hmb Inert No React: False
Hmb Bec Airborne: False
Hmb Contam Area: False
Hmb Enterd Water: False
Comments: RESPONDED TO FUEL SPILL. A SWIFT TRANSPORTATION CO TRACTOR WITH NO TRAILER, WHO HAD ACCIDENT HIT A CONCRETE POST WITH A SADDLE FUEL TANK. TANK WAS LEAKING APPROX 1 GPM OF FUEL. ABSORBENT PADS WERE BEING PLACED TO CONTAIN FUEL RUN-OFF. THE ABOSRBENT
FIRE UNITS SECURED AREA TO DENY ENTRY. TROUTDALE PD INDICATED THAT THERE WAS REASON TO BLEIEVE THAT A METH LAB HAD BEEN WORKING IN THAT RM. RESIDENCE FLED IN A HURRY LEAVING 3 LB COFFEE CAN W/WHITE PASTE & WHITE CRYSTALLINE RESIDUE IN A GLASS ASHTRA
PADS
Y. HM

OR SPILLS:
Facility ID: Not reported Spill Date: Not reported
Material: Not reported Quantity: Not reported
Release Date: 04/12/199 Year: 96
How Occurred: Not reported Not reported
Source: Not reported Media Not reported
Materials: Not reported
Location: Not reported
Description: TRUCK RAN INTO LIGHT POLE STANTION, PUNCTURED SADDLE BAG
Responsible Company: BURNS BROS
Responsible Content: Not reported
Description : Not reported

Facility ID: 03-2756 Spill Date: Not reported
Material: Not reported Quantity: Not reported
Release Date: 12/10/03 Year: 2003
How Occurred: Not reported Not reported
Source: Motor Vehicle - Commercial Media Pavement
Materials: 125 Gallons of Oil - Diesel
Location: Not reported
Description: TRUCK DRIVER WITH DARK INTERNATIONAL ADVISING OF A SPILL OF 125 GALLONS OF DIESEL INTO THE PARKING LOT OF THE FLYING J TRAVEL CENTER. DRIVER CLAIMES HE LOST HALF HIS FUEL ESTIMATED 125 GALLONS OF DIESEL.
Responsible Company: Dart International Berle Tate
Responsible Content: Not reported
Description : Not reported

UST:
Facility ID: 9103
Facility Telephone: (503) 666-1588
Permittee Name: CURT PRICE, GENERAL MANAGER
Active Tanks: 8
Decommissioned Tanks: 0
Number of Permitted Tanks: 8
Number of Upgraded Tanks: 8

22
WSW
1/4-1/2
2394 ft.

POUNDER OIL SERVICE INC
901 W COLUMBIA
TROUTDALE, OR 97060

LUST **U000431066**
UST **N/A**

Relative:
Higher

Actual:
79 ft.

LUST:

Facility ID:	26-98-0796
Region:	North Western Region
Cleanup Start:	18-Sep-98
Closed Date:	17-Mar-00
Cleanup Complete:	28-Jan-00

UST:

Facility ID:	4769
Facility Telephone:	(503)695-2555
Permittee Name:	VICKY CERRUTI
Active Tanks:	Not reported
Decommissioned Tanks:	3
Number of Permitted Tanks:	Not reported
Number of Upgraded Tanks:	3

23
NW
1/4-1/2
2571 ft.

AAR WESTERN SKYWAYS INC
CITY OF TROUTDALE/PORTLAND TROUTDALE ARPRT
TROUTDALE, OR 97060

RCRA-SQG **1000136409**
SHWS - ECSI **ORD027802370**
FINDS
LUST
OR CRL

Relative:
Lower

Actual:
34 ft.

RCRAInfo:

Owner:	ART ALFONSO
	(312) 439-3939
EPA ID:	ORD027802370
Contact:	Not reported
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
OREGON-DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

ECSI:

State ID Number:	92	Brown ID	Not reported
Study Area:	False		
Cerclis ID:	Not reported	Tax Lots:	73,27,23,26,25,22,52
Size:	Not reported	NPL:	False
Orphan:	False	Region ID:	2
Lat/Long:	45.54830 / -122.397	Tax Lots:	73,27,23,26,25,22,52
Township Coord.:	1	Township Zone:	N
Range Coord.:	3	Range Zone:	E
Section Coord.:	23	Qtr Section:	Not reported
Legislative :	23	Further Action:	260
FACA ID :	39909	Score Value:	0
Update Date :	1998-05-12 00:00:00	Created Date:	CONV
Created Time :	/ /		
Updated By :	kpd		

HAZ RELEASED:

Quant. Released:	unknown
Date:	unknown

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Update Date: 1988-03-08 00:00:00
Update By: Not reported
Substance ID : 121671
Code : 7440-47-3
Substance Name : CHROMIUM
Substance Abbrev. : Not reported
Substance Categ ID : 8462
Substance Sub Categ : Inorganics
Category Level : Not reported
Created By : Not reported
Create Date : 2002-12-17 08:50:34.
Substance Alias ID : 318145
Sub Alias Name : CHROMIUM, INORGANIC
Substance Alias ID : 319294
Sub Alias Name : CHROMIUM, TOTAL
Rel Comment ID : 304635
Release Code : Data Sources
Release Comments : soil and groundwater investigation filed in RA5-500-ECD
Sampling Result ID : 346376
Feature Id : Not reported
Hazard Release Id : 382701
Medium Code Id : 703
Substance Id : Not reported
Unit Code : Not reported
Observation : False
Owner Operator : False
Lab Data : True
Sample Depth : Not reported
Start Date : Not reported
End Date : Not reported
Minimum Concentration : Not reported
Max Concentration : Not reported
Last Update By : CONV
Last Updated On : 1994-09-13 00:00:00
Sample Comment : 8.3 ppm
Quant. Released: unknown
Date: unknown
Update Date: 1988-03-08 00:00:00
Update By: Not reported
Substance ID : 121639
Code : 7439-92-1
Substance Name : LEAD
Substance Abbrev. : Not reported
Substance Categ ID : 8466
Substance Sub Categ : Inorganics
Category Level : Not reported
Created By : Not reported
Create Date : 2002-12-17 08:50:34.
Substance Alias ID : 319256
Sub Alias Name : PB
Rel Comment ID : 304633
Release Code : Data Sources
Release Comments : soil and groundwater investigation filed in RA5-500-ECD
Rel Comment ID : 304634
Release Code : Release Containment
Release Comments : Six 530-gal. tanks storing used oil (2), paint thinner (2), spent solvents, and spent solvents, and gasoline. One 1,040-gal. tank storing aviation fuel.

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Sampling Result ID : 345018
Feature Id : Not reported
Hazard Release Id : 382702
Medium Code Id : 703
Substance Id : Not reported
Unit Code : Not reported
Observation : False
Owner Operator : False
Lab Data : True
Sample Depth : Not reported
Start Date : Not reported
End Date : Not reported
Minimum Concentration : Not reported
Max Concentration : Not reported
Last Update By : CONV
Last Updated On : 1994-09-13 00:00:00
Sample Comment : 24 ppm
Quant. Released: unknown
Date: unknown
Update Date: 1988-03-08 00:00:00
Update By: Not reported
Substance ID : 121472
Code : 57-12-5
Substance Name : CYANIDE (AS ION)
Substance Abbrev. : Not reported
Substance Categ ID : 8465
Substance Sub Categ : Inorganics
Category Level : Not reported
Created By : Not reported
Create Date : 2002-12-17 08:50:34.
Substance Alias ID : 318818
Sub Alias Name : CN (AS ION)
Rel Comment ID : 304631
Release Code : Data Sources
Release Comments : soil and groundwater investigation filed in RA5-500-ECD
Sampling Result ID : 346377
Feature Id : Not reported
Hazard Release Id : 382731
Medium Code Id : 703
Substance Id : Not reported
Unit Code : Not reported
Observation : False
Owner Operator : False
Lab Data : True
Sample Depth : Not reported
Start Date : Not reported
End Date : Not reported
Minimum Concentration : Not reported
Max Concentration : Not reported
Last Update By : CONV
Last Updated On : 1994-09-13 00:00:00
Sample Comment : 193 ppm
Quant. Released: unknown
Date: unknown
Update Date: 1988-03-08 00:00:00
Update By: Not reported
Substance ID : 121781

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Code :	79-01-6
Substance Name :	TRICHLOROETHYLENE
Substance Abbrev. :	Not reported
Substance Categ ID :	8523
Substance Sub Categ :	Volatiles
Category Level :	Not reported
Created By :	Not reported
Create Date :	2002-12-17 08:50:34.
Substance Categ ID :	8545
Substance Sub Categ :	Solvents of interest to Milwaukie Area GW study
Category Level :	Not reported
Created By :	Not reported
Create Date :	2002-12-17 08:50:34.
Substance Alias ID :	317517
Sub Alias Name :	ETHINYL TRICHLORIDE
Substance Alias ID :	317518
Sub Alias Name :	ETHYLENE TRICHLORIDE
Substance Alias ID :	317519
Sub Alias Name :	TCE
Substance Alias ID :	317520
Sub Alias Name :	TRI-CLENE
Substance Alias ID :	317521
Sub Alias Name :	TRICHLOROETHENE
Rel Comment ID :	304636
Release Code :	Data Sources
Release Comments :	soil and groundwater investigation filed in RA5-500-ECD
Sampling Result ID :	345298
Feature Id :	Not reported
Hazard Release Id :	382732
Medium Code Id :	703
Substance Id :	Not reported
Unit Code :	Not reported
Observation :	False
Owner Operator :	False
Lab Data :	True
Sample Depth :	Not reported
Start Date :	Not reported
End Date :	Not reported
Minimum Concentration :	Not reported
Max Concentration :	Not reported
Last Update By :	CONV
Last Updated On :	1994-09-13 00:00:00
Sample Comment :	150 ppb

Alias Name: Custom Aircraft Refinishing
Troutdale Airport
Investigation Status: 207

NARR:
NARR ID: 5729720
NARR Code : Contamination
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR Comments: (8/4/92 KPD/SAS) Western Skyways operated an aircraft maintenance facility at the Portland-Troutdale Airport. Allegedly, used solvents were either dumped onto the open ground or poured down a drain pipe. By the 1980s, the solvents, oils,

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

and fuels w
ere stored in underground storage tanks. A tank holding spent methylene chloride overflowed in 1986, spilling about 100 gallons. DEQ was notified but no action was taken due to the small size of the spill. A site inspection by Hahn and Associates in
1987 found soils contaminated with cyanide, lead, and chromium. Small amounts of chromium and lead were also in groundwater. A 1988 "environmental assessment" found low levels of chlorinated solvents (generally 10 to 150 ppb) in the soils.
Abandoned Haz Waste Site Notebook; spill file; inspection reports; lab results; soil & groundwater investigation reports; UST decommissioning & contaminated soil removal reports (LUST log #26-87-0015).
cyanide, chromium, trichloroethylene, lead; TPH
May 1986 overflow/spill of 100 gallons of methylene chloride/wastewater mix. Also, allegedly poor waste-management practices.
The site is located at the Portland-Troutdale Airport, north of Troutdale. A lake/marsh is located about a quarter-mile northwest of the site; the Sandy River is about a half mile east. The Reynolds Metal Superfund site (ECSI #154) is due north of t
he site. With the exception of the Reynolds facility, the area around the airport is largely empty.
(8/4/92 KPD/SAS) The underground storage tanks and contaminated soil were removed in 1990. However, the cleanup was apparently performed without DEQ knowledge or supervision (the site was placed on the Confirmed Release List one year after the clean
up). Post-removal soil sampling revealed no detectable solvents, and TPH was <500 ppm (acceptable for a Matrix Level II cleanup). Cyanide, chromium, and lead were not sampled for. SAS recommends that a state Preliminary Assessment (PA) be performed
to evaluate the sufficiency of the cleanup.
Soil contamination.
Used oil 2 (530-gal.) tanks; Paint thinner 2 (530-gal.) tanks; spent solvents 1 (530-gal.) tank; gasoline 1 (530-gal.) tank; aviation fuel 1 (1,040-gal.) tank.

NARR ID: 5729721
NARR Code : Data Sources
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5729722
NARR Code : Hazardous Substance/Waste Types
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5729723
NARR Code : Manner of Release
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5729724
NARR Code : Pathways Other Hazards
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5729725

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

NARR Code : Remedial Action
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5729726
NARR Code : Health Threats
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5729727
NARR Code : Containment Units
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.

ECWQ:
Owner Site Num: 131494 FACA Id : 39909
Site Name: AAR Western Skyways
County Code : 26.00
Owner Name: AAR Western Skyways
Owner Address: Portland-Troutdale Airport
Troutdale, 97060
Lat/Long 45.5483 / -122.3974
Owner Code: LIS

PERMIT:
Permit Number: Not reported Permit Type: Not reported
Permit Agency: Not reported
Permit Comments: Not reported

ADMIN ACT:
Admin ID: 722357 Action ID: 9496
Agency ID : Dept Of Environmental Quality Start Date: 1992-08-04 00:00:00
Further Action: Low Region ID: Northwestern Region
Complete Date: 1992-08-04 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: GWISTAR Update Date: 2003-06-18 14:03:50.
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 301
Comments : Not reported
Administrative Action: State Basic Preliminary Assessment recommended (PA)
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : State Basic Preliminary Assessment recommended (PA)

Admin ID: 723440 Action ID: 9498
Agency ID : Dept Of Environmental Quality Start Date: 1990-12-14 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1990-12-14 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 518
Comments : Not reported
Administrative Action: Proposal for Confirmed Release List recommended

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Proposal for Confirmed Release List recommended

Admin ID: 723894 Action ID: 9465
Agency ID : Dept Of Environmental Quality Start Date: 1991-06-25 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1991-06-25 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 518
Comments : Not reported
Administrative Action: Facility proposed for Confirmed Release List
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Facility proposed for Confirmed Release List

Admin ID: 724031 Action ID: 9445
Agency ID : Dept Of Environmental Quality Start Date: 1988-11-30 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: Not reported Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: Not reported
Comments : Not reported
Administrative Action: Responsible party notified re 11/88 Inventory listing
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Responsible party notified re 11/88 Inventory listing

Admin ID: 724344 Action ID: 9488
Agency ID : Dept Of Environmental Quality Start Date: 1991-09-12 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1991-09-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 2319
Comments : Not reported
Administrative Action: Listing on Confirmed Release List recommended
Admin Action Category: Not reported
Admin Flag: False
Admin Action Code Flag: False
Admin Action : Listing on Confirmed Release List recommended

Admin ID: 724345 Action ID: 9438
Agency ID : Dept Of Environmental Quality Start Date: 1991-09-13 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1991-09-13 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Employee Id: 2319
Comments : Not reported
Administrative Action: Facility placed on Confirmed Release List
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Facility placed on Confirmed Release List

Admin ID: 715654 Action ID: 9425
Agency ID : Dept Of Environmental Quality Start Date: 1990-12-12 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1990-12-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 518
Comments : Not reported
Administrative Action: SITE EVALUATION
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : SITE EVALUATION

Admin ID: 715655 Action ID: 9448
Agency ID : Dept Of Environmental Quality Start Date: 1991-09-11 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1991-09-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 2319
Comments : Not reported
Administrative Action: Review for final listing
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Review for final listing

Admin ID: 715656 Action ID: 9426
Agency ID : Dept Of Environmental Quality Start Date: 1992-08-03 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1992-08-03 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: True
Updated By: kpd Update Date: 1995-08-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 301
Comments : Not reported
Administrative Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : SITE PRIORITY EVALUATION FOR FURTHER ACTION

Admin ID: 718166 Action ID: 9424
Agency ID : Dept Of Environmental Quality Start Date: 1988-08-03 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: Not reported Substance Code: SAS

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Rank Value:	0	Cleanup Flag:	False
Updated By:	kpd	Update Date:	1995-08-24 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	26		
Comments :	Not reported		
Administrative Action:	Site added to database		
Admin Action Category:	Not reported		
Admin Flag:	True		
Admin Action Code Flag:	False		
Admin Action :	Site added to database		

Admin ID:	720350	Action ID:	9437
Agency ID :	Dept Of Environmental Quality	Start Date:	1990-12-13 00:00:00
Further Action:	Not reported	Region ID:	Headquarters
Complete Date:	1990-12-13 00:00:00	Substance Code:	SAS
Rank Value:	0	Cleanup Flag:	False
Updated By:	kpd	Update Date:	1995-08-24 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	518		
Comments :	Not reported		
Administrative Action:	Listing Review completed		
Admin Action Category:	Not reported		
Admin Flag:	True		
Admin Action Code Flag:	False		
Admin Action :	Listing Review completed		

DISPOSAL:

Disposal ID:	Not reported	Feature ID:	Not reported
Medium :	Not reported		
Treatment :	Not reported		
Disposal Method:	Not reported		
Start Date:	Not reported	End Date:	Not reported
Disposal Flag:	Not reported	Disposal Qty:	Not reported
Unit Code:	Not reported		
Depth :	Not reported		
Monitor :	Not reported		
Manifest Num :	Not reported		
Removed By :	Not reported		
Loc Comments:	Not reported		
Disposal Sub ID:	Not reported		
Substance ID:	Not reported		
Created By:	Not reported		
Create Date:	Not reported		

FEATURE:

Feature Id :	Not reported
Site Id :	Not reported
Feature Code :	Not reported
Relative Position :	Not reported
Hazard Rel Id :	Not reported
Region Code :	Not reported
Lat Long Method :	Not reported
Lat Long Source :	Not reported
County Code :	Not reported
Refrence Id :	Not reported
Twnshp Coord :	Not reported
Township Zone :	Not reported
Range Coord :	Not reported

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Range Zone : Not reported
Section Coord : Not reported
Qtr Section Coord : Not reported
Address : Not reported
Not reported
Zip Plus : Not reported
Lat/Long : Not reported
Lat/Lon Decimal : Not reported
Feature Size : Not reported
Est Accuracy : Not reported
Created On Date : Not reported
Created By Prgm : Not reported
Last Updated By : Not reported
Last Updated On : Not reported
Comment : Not reported

WELL:
Well ID: Not reported
Water Resource Code: Not reported
Effective Date: Not reported
Aquifer Code: Not reported
Ground Station Key: Not reported

OPERATIONS:
Operation Id : 131494
Operation Status : Inactive
Common Name : AAR Western Skyways
Yrs of Operation : 1965-1988
Comments : 1965-1988
Updated By : kpd
Updated Date : 1995-08-24 00:00:00

Process Code ID: Not reported
Years Of Process: Not reported
Created By: Not reported
Created Date: Not reported

Operations SIC Id: 195513
SIC Code: 4581
Created By: Not reported
Created Date: 2002-12-17 08:50:34.
Operations SIC Id: 195823
SIC Code: 4500
Created By: Not reported
Created Date: 2002-12-17 08:50:34.

LUST:
Facility ID: 26-94-0186
Region: North Western Region
Cleanup Start: 6-Oct-94
Closed Date: 15-Dec-95
Cleanup Complete: 25-Sep-95

OR CRL:
Facility ID: 92
Location ID: 39909
Status Code: LIS
Facility Status: State Basic Preliminary Assessment recommended (PA)
Lat/Long: 45.5483 / -122.3974

G24
WNW
1/2-1
2716 ft.

Relative:
Lower

Actual:
38 ft.

CHEVRON USA INC - 95314
1260 NW FRONTAGE RD
TROUTDALE, OR 97060

Site 1 of 2 in cluster G

LUST:

Facility ID:	26-91-0230
Region:	North Western Region
Cleanup Start:	13-Jun-91
Closed Date:	19-Oct-94
Cleanup Complete:	8-Aug-94

LUST **U000431044**
N/A

G25
WNW
1/2-1
2716 ft.

Relative:
Lower

Actual:
38 ft.

CHEVRON USA INC - 95314/CHEV. STA.#95314
1260 NW FRONTAGE RD
TROUTDALE, OR 97060

Site 2 of 2 in cluster G

LUST:

Facility ID:	26-98-0170
Region:	North Western Region
Cleanup Start:	11-Mar-98
Closed Date:	31-Oct-00
Cleanup Complete:	6-Jul-00

LUST **1000644061**
N/A

26
WSW
1/2-1
3121 ft.

Relative:
Higher

Actual:
97 ft.

MONTGOMERY ESTATE
1012 SW HALSEY ST
TROUTDALE, OR 97060

LUST:

Facility ID:	26-01-8526
Region:	North Western Region
Cleanup Start:	30-Nov-01
Closed Date:	10-Jun-03
Cleanup Complete:	10-Jun-03

LUST **S105153857**
N/A

27
NNW
1/2-1
3791 ft.

Relative:
Lower

Actual:
34 ft.

US ARMY COE - N PACIFIC DIV. MATERIALS L
1491 NW GRAHAM RD
TROUTDALE, OR 97060

SHWS - ECSI **S106044974**
Brownfields **N/A**
VCS

ECSI:

State ID Number:	1390	Brown ID	0
Study Area:	False		
Cerclis ID:	1210800032	Tax Lots:	Not reported
Size:	5 ac.	NPL:	False
Orphan:	False	Region ID:	2
Lat/Long:	45.55140 / -122.389	Tax Lots:	Not reported
Township Coord.:	1	Township Zone:	N
Range Coord.:	3	Range Zone:	E
Section Coord.:	24	Qtr Section:	Not reported
Legislative :	24	Further Action:	0
FACA ID :	1400	Score Value:	0
Update Date :	2005-06-16 09:53:52.	Created Date:	CONV
Created Time :	/ /		
Updated By :	RSTRUCK		

HAZ RELEASED:

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Quant. Released: Not reported
Date: Not reported
Update Date: Not reported
Update By: Not reported

Substance ID :	Not reported
Code :	Not reported
Substance Name :	Not reported
Substance Abbrev. :	Not reported
Substance Categ ID :	Not reported
Substance Sub Categ :	Not reported
Category Level :	Not reported
Created By :	Not reported
Create Date :	Not reported
Substance Alias ID :	Not reported
Sub Alias Name :	Not reported
Rel Comment ID :	Not reported
Release Code :	Not reported
Release Comments :	Not reported
Sampling Result ID :	Not reported
Feature Id :	Not reported
Hazard Release Id :	Not reported
Medium Code Id :	Not reported
Substance Id :	Not reported
Unit Code :	Not reported
Observation :	Not reported
Owner Operator :	Not reported
Lab Data :	Not reported
Sample Depth :	Not reported
Start Date :	Not reported
End Date :	Not reported
Minimum Concentration :	Not reported
Max Concentration :	Not reported
Last Update By :	Not reported
Last Updated On :	Not reported
Sample Comment :	Not reported

Alias Name: COE Civil North Pacific Div Matls Lab
Investigation Status: 206

NARR:
NARR ID: 5733011
NARR Code : Contamination
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR Comments: (12/15/99 RGS/VCP) Several potential contaminant sources have been identified on-site including: 1) a sump/drainage ditch on the east side of the building that received wastes from the chemistry and engineering labs; 2) a solid waste landfill on the north end of the property; 3) oil discovered in April 1996, within the casing of the on-site water supply well; 4) a shallow drywell used for the disposal of viscous and possibly corrosive wastes; and 5) a former heating oil tank. COE has sampled soil and groundwater near the ditch, drywell and landfill area. Low levels of petroleum hydrocarbons PCBs, VOCs, and metals were detected in selected samples. Analytical testing of oil in the well show it to be a lubricating oil, which probably origin

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

ated from the pump removed from over the well.
EPA correspondence; Preliminary Assessment prepared by ACOE 6/24/91; "ERGO Assessment Report" (environmental audit) prepared by Woodward-Clyde Consultants 1/95; DEQ site visit 8/28/96; Baseline Environmental Survey Report prepared by Tetra Tech, Nov
ember 1997; Supplemental Groundwater Investigation prepared by Tetra Tech, August 1998; Cleanup report prepared by Tetra Tech, May 1999; Draft Final "Site Investigation Report", URS, August 2002. "Removal Action Report - Landfill Removal",Farallo
n Consulting L.L.C., March 2004.
The Corps began using the site in July 1949 to test the engineering properties of soils and concrete. From 1985 - 1998, the facility also operated an analytical lab for VOCs, PAHs, and inorganics.
Metals, VOCs, petroleum hydrocarbons.
On-site infiltration of wastewater from the engineering testing laboratory (practice began about 1949 when the lab began operations, and ended in 1996 when the lab's wastewater effluent was connected to the sanitary sewer system); disposal of solid
(and possibly other, unknown) wastes into a "landfill" on the north end of the property, between the 1950s and 1995; leakage of oil from pump into on-site well; on-site disposal of viscous waste into shallow drywell; release from on-site heating oil
tank.
Soil and groundwater were investigated as potential pathways of concern. A water supply well existed on-site until 1998. The City of Troutdale operates several municipal wells within about 0.75 mile south of the site, and there are a number of indus
trial/irrigation wells 0.5 mile to the WNW (Reynolds Metals Co.). The Sandy River flows approximately 500 feet east of the site, but a levee stands between the site and the river, so that surface water runoff from the site is not likely to enter the
river.
(12/15/99 RGS/VCP) The Corps of Engineers removed oil and water from the on-site well's casing prior to decommissioning the well in 1998. The Corps initiated independent characterization of soil & groundwater near the drywell, drainage ditch area an
d solid waste landfill in 1996. Based on results of this investigation, the COE independently removed soil in the vicinity of the drywell on a portion of the wastewater drainage ditch in 1999. (4/21/00 RGS/VCP) DEQ review of the independent investig
ation of cleanup indicated additional characterization is needed at the facility. (11/7/00 RGS/VCP) EPA NFRAP was rescinded 10/31/00. In a letter dated 10/23/00, EPA requested that the Corps of Engineers perform additional investigation at the site.
(4/2/01 RGS/VCP) COE submitted a preliminary Scope of Work (SOW) for additional investigation and a project schedule to EPA and DEQ in March 2001. (11/21/01 RGS/VCP) In May 2001, DEQ received a complaint that the NPD Lab may have tested soil from th
e Umatilla Army Depot and that site workers may have been exposed to the chemicals from UAD (e.g. nerve agents). DEQ and EPA requested additional information from the COE on this issue. Buckets of soil from UAD were discovered on-site and will be te
sted. In July 2001, the COE submitted a draft sampling plan to EPA and DEQ. The field investigation was conducted in September 2001. Results should be submitted to DEQ and EPA in early 2002. (12/23/02 RGS/VCP) The work plan for a site investigation
(SI) was submitted to DEQ and EPA in September 2001. Field work was conducted

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

in the fall of 2001. The final draft SI report was submitted to DEQ in October 2002. DEQ comments on the report were sent to the COE in December 2002. (06/16/05 RGS/VC
P) The COE cleaned the sump, removed contaminated ditch sediments, and removed the landfill debris from the site in the summer of 2003. Confirmation samples indicate that contaminants in on-site soil are below risk based concentrations. A 30-day p
ublic comment period was held on the proposed NFA in May 2005. No comments were received. The NFA was issued in June 2005.

NARR ID: 5733012
NARR Code : Data Sources
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: RSTRUCK
Updated Date: 2005-06-16 09:42:20.
NARR ID: 5733013
NARR Code : General Site Description
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5733014
NARR Code : Hazardous Substance/Waste Types
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5733015
NARR Code : Manner of Release
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5733016
NARR Code : Pathways Other Hazards
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: RSTRUCK
Updated Date: 2005-06-16 09:43:07.
NARR ID: 5733017
NARR Code : Remedial Action
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: RSTRUCK
Updated Date: 2005-06-16 09:49:34.

ECWQ:
Owner Site Num: 132704 FACA Id : 1400
Site Name: US Army COE - N Pacific Div. Materials Lab
County Code : 26.00
Owner Name: North Pacific Div. Materials Lab
Owner Address: 1491 NW Graham RD
Troutdale, 97060
Lat/Long 45.5514 / -122.3898
Owner Code: NFA

PERMIT:
Permit Number: Not reported Permit Type: Not reported

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Permit Agency: Not reported
Permit Comments: Not reported

ADMIN ACT:

Admin ID:	725071	Action ID:	9484
Agency ID :	Dept Of Environmental Quality	Start Date:	2002-03-07 00:00:00
Further Action:	0	Region ID:	Northwestern Region
Complete Date:	2005-04-29 09:39:01	Substance Code:	VCP
Rank Value:	Not reported	Cleanup Flag:	False
Updated By:	RSTRUCK	Update Date:	2005-06-16 09:50:33.
Created By:	JWAGGY	Create Date:	2003-01-03 11:21:29.
Employee Id:	705		

Comments : Not reported
Administrative Action: REMEDIAL INVESTIGATION
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : REMEDIAL INVESTIGATION

Admin ID:	725072	Action ID:	9486
Agency ID :	Dept Of Environmental Quality	Start Date:	2002-06-06 00:00:00
Further Action:	0	Region ID:	Northwestern Region
Complete Date:	2005-04-29 09:39:01	Substance Code:	VCP
Rank Value:	Not reported	Cleanup Flag:	False
Updated By:	RSTRUCK	Update Date:	2005-06-16 09:50:18.
Created By:	JWAGGY	Create Date:	2003-01-03 11:22:29.
Employee Id:	705		

Comments : Not reported
Administrative Action: RISK ASSESSMENT
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : RISK ASSESSMENT

Admin ID:	730439	Action ID:	9469
Agency ID :	Dept Of Environmental Quality	Start Date:	2003-06-01 00:00:00
Further Action:	0	Region ID:	Northwestern Region
Complete Date:	2005-04-29 00:00:00	Substance Code:	VCP
Rank Value:	Not reported	Cleanup Flag:	False
Updated By:	GWISTAR	Update Date:	2005-07-28 15:08:36.
Created By:	RSTRUCK	Create Date:	2005-06-16 09:52:37.
Employee Id:	705		

Comments : Landfill Removal, ditch sediment removal, etc.
Administrative Action: REMEDIAL ACTION
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : REMEDIAL ACTION

Admin ID:	730440	Action ID:	9443
Agency ID :	Dept Of Environmental Quality	Start Date:	2005-05-01 00:00:00
Further Action:	0	Region ID:	Northwestern Region
Complete Date:	2005-06-13 00:00:00	Substance Code:	VCP
Rank Value:	Not reported	Cleanup Flag:	False
Updated By:	GWISTAR	Update Date:	2005-07-28 15:08:41.
Created By:	RSTRUCK	Create Date:	2005-06-16 09:53:41.
Employee Id:	705		

Comments : Not reported

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Administrative Action: NO FURTHER STATE ACTION REQUIRED
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : NO FURTHER STATE ACTION REQUIRED

Admin ID:	707891	Action ID:	9440
Agency ID :	Dept Of Environmental Quality	Start Date:	1999-08-25 00:00:00
Further Action:	Not reported	Region ID:	Northwestern Region
Complete Date:	1999-08-25 00:00:00	Substance Code:	VCS
Rank Value:	0	Cleanup Flag:	False
Updated By:	jmw	Update Date:	1999-12-14 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	705		

Comments : Not reported
Administrative Action: Letter Agreement
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Letter Agreement

Admin ID:	707892	Action ID:	9435
Agency ID :	Dept Of Environmental Quality	Start Date:	1999-07-29 00:00:00
Further Action:	Not reported	Region ID:	Northwestern Region
Complete Date:	Not reported	Substance Code:	VCS
Rank Value:	0	Cleanup Flag:	False
Updated By:	jmw	Update Date:	2000-04-17 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	705		

Comments : Requested ICP.
Administrative Action: Independent Cleanup Program
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Independent Cleanup Program

Admin ID:	709595	Action ID:	9502
Agency ID :	Dept Of Environmental Quality	Start Date:	1996-09-24 00:00:00
Further Action:	Medium	Region ID:	Northwestern Region
Complete Date:	1996-09-24 00:00:00	Substance Code:	SAS
Rank Value:	0	Cleanup Flag:	False
Updated By:	kpd	Update Date:	1998-04-14 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	767		

Comments : Characterize drainage ditch and landfill.
Administrative Action: Remedial Investigation recommended (RI)
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Remedial Investigation recommended (RI)

Admin ID:	707460	Action ID:	9457
Agency ID :	Environmantal Protection Agency	Start Date:	1991-04-04 00:00:00
Further Action:	Not reported	Region ID:	Not reported
Complete Date:	1992-11-13 00:00:00	Substance Code:	Not reported
Rank Value:	0	Cleanup Flag:	False
Updated By:	gmw	Update Date:	1999-10-12 00:00:00

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: Not reported
Comments : Not reported
Administrative Action: EPA Basic Preliminary Assessment
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : EPA Basic Preliminary Assessment

Admin ID: 707461 Action ID: 9444
Agency ID : Environmantal Protection Agency Start Date: 1992-11-13 00:00:00
Further Action: Not reported Region ID: Not reported
Complete Date: 1992-11-13 00:00:00 Substance Code: Not reported
Rank Value: 0 Cleanup Flag: False
Updated By: gmw Update Date: 2000-10-31 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: Not reported
Comments : NOTE: EPA Region 10 rescinded this NFRAP in a 10/23/00 letter to the Corps.
Administrative Action: No Further Remedial Action Planned under Federal program
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : No Further Remedial Action Planned under Federal program

Admin ID: 710960 Action ID: 9459
Agency ID : Dept Of Environmental Quality Start Date: 1996-08-21 00:00:00
Further Action: Not reported Region ID: Northwestern Region
Complete Date: 1996-09-24 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1997-11-19 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 767
Comments : Review of Army COE PA Report
Administrative Action: PRELIMINARY ASSESSMENT EQUIVALENT
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : PRELIMINARY ASSESSMENT EQUIVALENT

Admin ID: 713067 Action ID: 9425
Agency ID : Dept Of Environmental Quality Start Date: 1996-08-21 00:00:00
Further Action: Not reported Region ID: Northwestern Region
Complete Date: 1996-09-24 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: gmw Update Date: 1996-09-24 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 767
Comments : State screening.
Administrative Action: SITE EVALUATION
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : SITE EVALUATION

Admin ID: 713107 Action ID: 9421
Agency ID : Environmantal Protection Agency Start Date: 1989-09-15 00:00:00
Further Action: Not reported Region ID: Not reported

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Complete Date:	Not reported	Substance Code:	Not reported
Rank Value:	0	Cleanup Flag:	False
Updated By:	gmw	Update Date:	1996-09-03 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	Not reported		
Comments :	Not reported		
Administrative Action:	Site added to CERCLIS		
Admin Action Category:	Not reported		
Admin Flag:	True		
Admin Action Code Flag:	False		
Admin Action :	Site added to CERCLIS		

Admin ID:	716536	Action ID:	9424
Agency ID :	Dept Of Environmental Quality	Start Date:	1993-06-08 00:00:00
Further Action:	Not reported	Region ID:	Headquarters
Complete Date:	Not reported	Substance Code:	SAS
Rank Value:	0	Cleanup Flag:	False
Updated By:	kpd	Update Date:	1998-04-14 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	293		
Comments :	Not reported		
Administrative Action:	Site added to database		
Admin Action Category:	Not reported		
Admin Flag:	True		
Admin Action Code Flag:	False		
Admin Action :	Site added to database		

Admin ID:	719866	Action ID:	9508
Agency ID :	Dept Of Environmental Quality	Start Date:	1994-02-12 00:00:00
Further Action:	Not reported	Region ID:	Headquarters
Complete Date:	1994-02-12 00:00:00	Substance Code:	SAS
Rank Value:	0	Cleanup Flag:	False
Updated By:	kpd	Update Date:	1998-04-14 00:00:00
Created By:	Not reported	Create Date:	2002-12-17 08:50:22.
Employee Id:	293		
Comments :	Not reported		
Administrative Action:	Site Screening recommended (EV)		
Admin Action Category:	Not reported		
Admin Flag:	True		
Admin Action Code Flag:	False		
Admin Action :	Site Screening recommended (EV)		

DISPOSAL:

Disposal ID:	Not reported	Feature ID:	Not reported
Medium :	Not reported		
Treatment :	Not reported		
Disposal Method:	Not reported		
Start Date:	Not reported	End Date:	Not reported
Disposal Flag:	Not reported	Disposal Qty:	Not reported
Unit Code:	Not reported		
Depth :	Not reported		
Monitor :	Not reported		
Manifest Num :	Not reported		
Removed By :	Not reported		
Loc Comments:	Not reported		
Disposal Sub ID:	Not reported		
Substance ID:	Not reported		
Created By:	Not reported		

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Create Date: Not reported

FEATURE:
Feature Id : Not reported
Site Id : Not reported
Feature Code : Not reported
Relative Position : Not reported
Hazard Rel Id : Not reported
Region Code : Not reported
Lat Long Method : Not reported
Lat Long Source : Not reported
County Code : Not reported
Refrence Id : Not reported
Twnshp Coord : Not reported
Township Zone : Not reported
Range Coord : Not reported
Range Zone : Not reported
Section Coord : Not reported
Qtr Section Coord : Not reported
Address : Not reported
Not reported
Zip Plus : Not reported
Lat/Long : Not reported
Lat/Lon Decimal : Not reported
Feature Size : Not reported
Est Accuracy : Not reported
Created On Date : Not reported
Created By Prgm : Not reported
Last Updated By : Not reported
Last Updated On : Not reported
Comment : Not reported

WELL:
Well ID: Not reported
Water Resource Code: Not reported
Effective Date: Not reported
Aquifer Code: Not reported
Ground Station Key: Not reported

OPERATIONS:
Operation Id : 132704
Operation Status : Inactive
Common Name : North Pacific Div. Materials Lab
Yrs of Operation : 1949 - 1999
Comments : 1949 - 1999
Updated By : jmw
Updated Date : 2002-11-14 00:00:00

Process Code ID: Not reported
Years Of Process: Not reported
Created By: Not reported
Created Date: Not reported

Operations SIC Id: 196346
SIC Code: 8734
Created By: Not reported
Created Date: 2002-12-17 08:50:34.

OR BROWNFIELD:
Facility Region: NORTHWESTERN REGION

US ARMY COE - N PACIFIC DIV. MATERIALS L (Continued) **S106044974**

Manager: Rod Struck

OR VCS:

ECS Site ID:	1390
Action:	NO FURTHER STATE ACTION
Start Date:	2005-05-01
End Date:	Not reported
Program:	VCP
CRL:	NFA
Facility Size:	5 ac.
Project Manager Last Name:	Struck
Project Manager First Name:	Rodney

---

28 **GOODMAN SANITATION** **SHWS - ECSI 1006857691**
SW **1360 SW 257TH DR** **FINDS 110014201283**
1/2-1 **TROUTDALE, OR 97060**
5206 ft.

Relative: Higher

Actual: 302 ft.

FINDS:

Other Pertinent Environmental Activity Identified at Site:
OREGON-DEPARTMENT OF ENVIRONMENTAL QUALITY

ECSI:

State ID Number:	119	Brown ID	Not reported
Study Area:	False		
Cerclis ID:	Not reported	Tax Lots:	Not reported
Size:	5 acres	NPL:	False
Orphan:	False	Region ID:	2
Lat/Long:	45.53160 / -122.399	Tax Lots:	Not reported
Township Coord.:	1	Township Zone:	N
Range Coord.:	3	Range Zone:	E
Section Coord.:	36	Qtr Section:	Not reported
Legislative :	36	Further Action:	260
FACA ID :	8802	Score Value:	0
Update Date :	1998-05-12 00:00:00	Created Date:	CONV
Created Time :	/ /		
Updated By :	kpd		

HAZ RELEASED:

Quant. Released:	1800 gals
Date:	11-11-80
Update Date:	1988-03-08 00:00:00
Update By:	Not reported
Substance ID :	121992
Code :	ECD211
Substance Name :	PAINT WASTES AND SOLVENTS
Substance Abbrev. :	Not reported
Substance Categ ID :	Not reported
Substance Sub Categ :	Not reported
Category Level :	Not reported
Created By :	Not reported
Create Date :	Not reported
Substance Alias ID :	Not reported
Sub Alias Name :	Not reported
Rel Comment ID :	302810
Release Code :	Data Sources
Release Comments :	NWR General file
Sampling Result ID :	347024
Feature Id :	Not reported
Hazard Release Id :	382793

GOODMAN SANITATION (Continued) **1006857691**

Medium Code Id :	703
Substance Id :	Not reported
Unit Code :	Not reported
Observation :	False
Owner Operator :	False
Lab Data :	False
Sample Depth :	Not reported
Start Date :	Not reported
End Date :	Not reported
Minimum Concentration :	Not reported
Max Concentration :	Not reported
Last Update By :	CONV
Last Updated On :	1994-09-13 00:00:00
Sample Comment :	Sample collected from unknown location 11/20/80; results not available

Alias Name: Not reported
Investigation Status: 208

NARR:

NARR ID:	5730203
NARR Code :	Contamination
Created By:	Not reported
Create Date:	2002-12-17 08:50:04.
Updated By:	Not reported
Updated Date:	2002-12-17 08:50:04.
NARR Comments	On Nov 11, 1980, Goodman Sanitation pumped 1800 gals of paint wastes from tanks at D & M Wood Products, Inc., (PO Box 20037, Portland, OR 97220). The waste was disposed of in a pit on property operated by Goodman Sanitation. The disposal location wa s the southern portion of the Goodman property, between a fence and two underground septic waste disposal tanks. Correspondence from owner and/or operator; Notice of Violation Letter; 6/29/94 phone conversation with Albert Mauck. paint thinners and paint residues Soil contamination, possible groundwater contamination. Pit dimensions were approximately 25 feet by 10 feet by 10 feet deep. Soon after the 1,800 gallons of paint waste and thinner were dumped at the site, the affected soils were excavated and allegedly disposed of in Arlington as a hazardous waste. Albert Hanson of the PUC collected and submitted a sample to the DEQ lab in 11/80, but no information is available on the sample location or analytical results. In addition no documentation remains of soil disposal at Arlington. pit
NARR ID:	5730204
NARR Code :	Data Sources
Created By:	Not reported
Create Date:	2002-12-17 08:50:04.
Updated By:	Not reported
Updated Date:	2002-12-17 08:50:04.
NARR ID:	5730205
NARR Code :	Hazardous Substance/Waste Types
Created By:	Not reported
Create Date:	2002-12-17 08:50:04.
Updated By:	Not reported
Updated Date:	2002-12-17 08:50:04.
NARR ID:	5730206
NARR Code :	Pathways Other Hazards
Created By:	Not reported

GOODMAN SANITATION (Continued) **1006857691**

Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5730207
NARR Code : Remedial Action
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.
NARR ID: 5730208
NARR Code : Containment Units
Created By: Not reported
Create Date: 2002-12-17 08:50:04.
Updated By: Not reported
Updated Date: 2002-12-17 08:50:04.

ECWQ:
Owner Site Num: 131523 FACA Id : 8802
Site Name: Goodman Sanitation
County Code : 26.00
Owner Name: Goodman Sanitation
Owner Address: 1360 SW 257th DR
Troutdale, 97060
Lat/Long 45.5316 / -122.3994
Owner Code: SUS

PERMIT:
Permit Number: Not reported Permit Type: Not reported
Permit Agency: Not reported
Permit Comments: Not reported

ADMIN ACT:
Admin ID: 722251 Action ID: 9508
Agency ID : Dept Of Environmental Quality Start Date: 1994-02-12 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: 1994-02-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1998-03-26 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 293
Comments : Not reported
Administrative Action: Site Screening recommended (EV)
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Site Screening recommended (EV)

Admin ID: 718159 Action ID: 9424
Agency ID : Dept Of Environmental Quality Start Date: 1988-08-03 00:00:00
Further Action: Not reported Region ID: Headquarters
Complete Date: Not reported Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1998-03-26 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 1804
Comments : Not reported
Administrative Action: Site added to database
Admin Action Category: Not reported
Admin Flag: True

GOODMAN SANITATION (Continued) **1006857691**

Admin Action Code Flag: False
Admin Action : Site added to database

Admin ID: 719114 Action ID: 9425
Agency ID : Dept Of Environmental Quality Start Date: 1994-06-29 00:00:00
Further Action: Not reported Region ID: Northwestern Region
Complete Date: 1994-07-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: CONV Update Date: 1994-09-13 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 767
Comments : Not reported
Administrative Action: SITE EVALUATION
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : SITE EVALUATION

Admin ID: 719115 Action ID: 9505
Agency ID : Dept Of Environmental Quality Start Date: 1994-07-12 00:00:00
Further Action: Low Region ID: Northwestern Region
Complete Date: 1994-07-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: dmc Update Date: 1997-10-06 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 767
Comments : Not reported
Administrative Action: Site Confirmatory Sampling recommended
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Site Confirmatory Sampling recommended

Admin ID: 717257 Action ID: 9437
Agency ID : Dept Of Environmental Quality Start Date: 1994-07-12 00:00:00
Further Action: Not reported Region ID: Northwestern Region
Complete Date: 1994-07-12 00:00:00 Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1998-03-26 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 767
Comments : Not reported
Administrative Action: Listing Review completed
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Listing Review completed

Admin ID: 717258 Action ID: 9449
Agency ID : Dept Of Environmental Quality Start Date: 1994-07-12 00:00:00
Further Action: Not reported Region ID: Northwestern Region
Complete Date: Not reported Substance Code: SAS
Rank Value: 0 Cleanup Flag: False
Updated By: kpd Update Date: 1998-03-26 00:00:00
Created By: Not reported Create Date: 2002-12-17 08:50:22.
Employee Id: 767
Comments : Not reported

GOODMAN SANITATION (Continued) **1006857691**

Administrative Action: Insufficient information to list
Admin Action Category: Not reported
Admin Flag: True
Admin Action Code Flag: False
Admin Action : Insufficient information to list

DISPOSAL:

Disposal ID:	Not reported	Feature ID:	Not reported
Medium :	Not reported		
Treatment :	Not reported		
Disposal Method:	Not reported		
Start Date:	Not reported	End Date:	Not reported
Disposal Flag:	Not reported	Disposal Qty:	Not reported
Unit Code:	Not reported		
Depth :	Not reported		
Monitor :	Not reported		
Manifest Num :	Not reported		
Removed By :	Not reported		
Loc Comments:	Not reported		
Disposal Sub ID:	Not reported		
Substance ID:	Not reported		
Created By:	Not reported		
Create Date:	Not reported		

FEATURE:

Feature Id :	Not reported
Site Id :	Not reported
Feature Code :	Not reported
Relative Position :	Not reported
Hazard Rel Id :	Not reported
Region Code :	Not reported
Lat Long Method :	Not reported
Lat Long Source :	Not reported
County Code :	Not reported
Refrence Id :	Not reported
Twnshp Coord :	Not reported
Township Zone :	Not reported
Range Coord :	Not reported
Range Zone :	Not reported
Section Coord :	Not reported
Qtr Section Coord :	Not reported
Address :	Not reported
	Not reported
Zip Plus :	Not reported
Lat/Long :	Not reported
Lat/Lon Decimal :	Not reported
Feature Size :	Not reported
Est Accuracy :	Not reported
Created On Date :	Not reported
Created By Prgm :	Not reported
Last Updated By :	Not reported
Last Updated On :	Not reported
Comment :	Not reported

WELL:

Well ID:	Not reported
Water Resource Code:	Not reported
Effective Date:	Not reported
Aquifer Code:	Not reported

GOODMAN SANITATION (Continued) **1006857691**

Ground Station Key: Not reported

OPERATIONS:
Operation Id : 131523
Operation Status : Active
Common Name : Goodman Sanitation
Yrs of Operation : Not reported
Comments : Not reported
Updated By : jxh
Updated Date : 1995-03-07 00:00:00

Process Code ID: Not reported
Years Of Process: Not reported
Created By: Not reported
Created Date: Not reported

Operations SIC Id: 195591
SIC Code: 7699
Created By: Not reported
Created Date: 2002-12-17 08:50:34.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
PORTLAND	S105526209		I-205 @ I-84	97060	OR HAZMAT
PORTLAND	S105011420		790 S FRONTAGE	97060	OR HAZMAT
TROUTDALE	1006854637	BENNETT PROPERTY	1N/3E/S25	97060	FINDS
TROUTDALE	U000431056	GSA - FEDERAL WAREHOUSE	ROUTE 2, BOX 13, GRAHM RD	97060	UST
TROUTDALE	S106770923	BURLINGAME EAST(OWNER:CITY OF TROU	SW 29TH AND LUCAS,	97060	UIC
TROUTDALE	1006862112	PORTLAND TROUTDALE AIRPORT	920 N.W. AIRPORT ROAD	97060	FINDS
TROUTDALE	S100496560	AAR WESTERN SKYWAYS	920 N.W. AIRPORT ROAD	97060	LUST
TROUTDALE	1000350490	ODEQ TROUTDALE COLUMBIA BUXTON DRU	NE COLUBMIA BLVD & BURTON RD	97060	RCRA-SQG, FINDS
TROUTDALE	1005417869	NATIONAL FABRICATION INC	1075 W COLUMBIA RIV HWY	97060	RCRA-SQG, FINDS
TROUTDALE	S103419120	MULTNOMAH COUNTY	1700 W COLUMBIA HWY	97060	HSIS
TROUTDALE	1006852134	UNION PACIFIC RR - TROUTDALE	MP CPS 15	97060	FINDS
TROUTDALE	S106497167	FUJII FARMS	250 FEET EAST-SOUTHEAST OF SW	97060	SHWS - ECSI, VCS
TROUTDALE	S103422296	GRESHAM SAND & GRAVEL - SUNDIAL BE	FOOT OF SUNDIAL RD	97060	LUST
TROUTDALE	1006848672	GRESHAM SAND & GRAVEL - SUNDIAL BE	FOOT OF SUNDIAL RD	97060	FINDS
TROUTDALE	S105522757		N FRONTAGE RD @ 1-84	97060	OR HAZMAT
TROUTDALE	S105525219		NW FRONTAGE RD	97060	OR HAZMAT
TROUTDALE	S103950005	AMERIFLIGHT	9111 NW GRAHAM RD	97060	HAZNET
TROUTDALE	S105746357	COMCAST CABLE COMMUNICATIONS	540 SW HALSEY	97060	HSIS, AST
TROUTDALE	S106770196	MORGAN MEADOWS/ARBOR HEIGHTS (PHAS	NE HALSEY ROAD / SE 16TH,	97060	UIC
TROUTDALE	S104900295	TROUTDALE TRANSMISSION & AUTO	432 W HISTC COLUMBIA RVR HWY	97060	HSIS
TROUTDALE	S106770551	USDL - SPRINGDALE JOB CORPS CENTER	31224 E. HISTORIC COLUMBIA RIV	97060	UIC
TROUTDALE	S106770552	SPRINGDALE JOB CENTER (US DEPARTME	31224 E. HISTORIC COLUMBIA RIV	97060	UIC
TROUTDALE	S106860728	WADE JOHNSON(OWNER:WADE JOHNSON)	1969 E HISTORIC COLUMBIA RIVER	97060	UIC
TROUTDALE	S105622170		2999 NE JORDAN RD	97060	OR HAZMAT
TROUTDALE	U003115486	SPRINT-UNITED TELEPHONE	MILE POST 33 - SCENIC HIGHWAY	97060	LUST, UST
TROUTDALE	1001493782	ALAN SALMELA FIBERGLASS	22901 NE SANDY BLVD BLDG B	97060	RCRA-SQG, FINDS
TROUTDALE	S106771234	HOME DEPOT(OWNER:HOME DEPOT)	SE STARK / 257TH,	97060	UIC
TROUTDALE	S106771876	STARK STREET CENTER(OWNER:POWELL D	STARK / 257TH,	97060	UIC
TROUTDALE	1006847144	TROUTDALE REDUCTION PLANT	NE SUNDIAL RD	97060	FINDS
TROUTDALE	1000332305	USDOE BPA TROUTDALE SUBSTATION	5200 NE SUNDIAL RD N OF HWY 30	97060	RCRA-SQG, FINDS, CERC-NFRAP
TROUTDALE	94374520	TROUTDALE SUBSTATION	TROUTDALE SUBSTATION		ERNS
TROUTDALE	91200500	TROUTDALE SUBSTATION 5200 NE SUNDA	TROUTDALE SUBSTATION 5200 NE S		ERNS
TROUTDALE	S105527081		I-84 WB MP 18 N SIDE	97060	OR HAZMAT

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/01/05
Date Data Arrived at EDR: 11/02/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/02/05
Next Scheduled EDR Contact: 01/30/06
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/27/05
Date Data Arrived at EDR: 11/02/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/02/05
Next Scheduled EDR Contact: 01/30/06
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/01/05
Date Data Arrived at EDR: 11/02/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/02/05
Next Scheduled EDR Contact: 01/30/06
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Date Data Arrived at EDR: 02/02/94
Date Made Active in Reports: 03/30/94
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/22/05
Next Scheduled EDR Contact: 11/21/05
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/19/05
Date Data Arrived at EDR: 10/21/05
Date Made Active in Reports: 10/27/05
Number of Days to Update: 6

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 10/21/05
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 08/22/05
Date Data Arrived at EDR: 09/20/05
Date Made Active in Reports: 10/27/05
Number of Days to Update: 37

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 09/20/05
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 10/13/05
Date Data Arrived at EDR: 10/27/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 41

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/06/05
Next Scheduled EDR Contact: 01/16/06
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 10/14/05
Date Data Arrived at EDR: 10/27/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 41

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/27/05
Next Scheduled EDR Contact: 12/26/05
Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/04
Date Data Arrived at EDR: 01/27/05
Date Made Active in Reports: 03/24/05
Number of Days to Update: 56

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 01/27/05
Next Scheduled EDR Contact: 10/24/05
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/05
Date Data Arrived at EDR: 10/18/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 50

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/18/05
Next Scheduled EDR Contact: 01/16/06
Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/02/05
Date Data Arrived at EDR: 08/12/05
Date Made Active in Reports: 10/06/05
Number of Days to Update: 55

Source: Environmental Protection Agency
Telephone: 703-603-8867
Last EDR Contact: 07/05/05
Next Scheduled EDR Contact: 01/02/06
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/10/05
Date Data Arrived at EDR: 02/11/05
Date Made Active in Reports: 04/06/05
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 703-603-8867
Last EDR Contact: 01/03/05
Next Scheduled EDR Contact: 10/03/05
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Date Data Arrived at EDR: 11/12/03
Date Made Active in Reports: 11/21/03
Number of Days to Update: 9

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 08/09/05
Next Scheduled EDR Contact: 11/07/05
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/04
Date Data Arrived at EDR: 06/29/05
Date Made Active in Reports: 08/08/05
Number of Days to Update: 40

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/29/05
Next Scheduled EDR Contact: 10/03/05
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 08/18/05
Date Data Arrived at EDR: 08/18/05
Date Made Active in Reports: 10/06/05
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/11/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/04
Date Data Arrived at EDR: 02/15/05
Date Made Active in Reports: 04/25/05
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/27/05
Next Scheduled EDR Contact: 10/24/05
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/08/05
Date Data Arrived at EDR: 10/20/05
Date Made Active in Reports: 12/07/05
Number of Days to Update: 48

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/06/05
Next Scheduled EDR Contact: 01/02/06
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 12/29/04
Date Data Arrived at EDR: 01/07/05
Date Made Active in Reports: 03/14/05
Number of Days to Update: 66

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/21/04
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/85
Date Data Arrived at EDR: 08/09/04
Date Made Active in Reports: 09/17/04
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 05/23/95
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/03
Date Data Arrived at EDR: 07/13/05
Date Made Active in Reports: 08/17/05
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 07/13/05
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02
Date Data Arrived at EDR: 04/27/04
Date Made Active in Reports: 05/21/04
Number of Days to Update: 24

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/18/05
Next Scheduled EDR Contact: 10/17/05
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/15/05
Date Data Arrived at EDR: 07/25/05
Date Made Active in Reports: 08/22/05
Number of Days to Update: 28

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/20/05
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/15/05
Date Data Arrived at EDR: 07/25/05
Date Made Active in Reports: 08/22/05
Number of Days to Update: 28

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/20/05
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/03
Date Data Arrived at EDR: 01/03/05
Date Made Active in Reports: 01/25/05
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/29/04
Next Scheduled EDR Contact: 10/17/05
Data Release Frequency: Annually

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 08/30/05
Date Data Arrived at EDR: 09/13/05
Date Made Active in Reports: 10/27/05
Number of Days to Update: 44

Source: EPA
Telephone: 202-564-3887
Last EDR Contact: 09/13/05
Next Scheduled EDR Contact: 11/07/05
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/05
Date Data Arrived at EDR: 07/22/05
Date Made Active in Reports: 08/22/05
Number of Days to Update: 31

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/05/05
Next Scheduled EDR Contact: 10/03/05
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/12/05
Date Data Arrived at EDR: 09/27/05
Date Made Active in Reports: 11/14/05
Number of Days to Update: 48

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/27/05
Next Scheduled EDR Contact: 12/26/05
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 09/29/05
Date Data Arrived at EDR: 10/04/05
Date Made Active in Reports: 11/14/05
Number of Days to Update: 41

Source: EPA
Telephone: N/A
Last EDR Contact: 08/29/05
Next Scheduled EDR Contact: 01/02/06
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Date Data Arrived at EDR: 07/03/95
Date Made Active in Reports: 08/07/95
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 09/06/05
Next Scheduled EDR Contact: 12/05/05
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/03
Date Data Arrived at EDR: 06/17/05
Date Made Active in Reports: 08/04/05
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/17/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS - ECSI: Environmental Cleanup Site Information System

Sites that are or may be contaminated and may require cleanup.

Date of Government Version: 08/01/05
Date Data Arrived at EDR: 08/16/05
Date Made Active in Reports: 09/14/05
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 08/16/05
Next Scheduled EDR Contact: 11/14/05
Data Release Frequency: Quarterly

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 09/13/05
Date Data Arrived at EDR: 09/13/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 09/13/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Quarterly

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/04/05
Date Data Arrived at EDR: 10/04/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 10/03/05
Next Scheduled EDR Contact: 12/19/05
Data Release Frequency: Semi-Annually

UIC: Underground Injection Control Program Database

DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

Date of Government Version: 10/24/05
Date Data Arrived at EDR: 10/24/05
Date Made Active in Reports: 11/08/05
Number of Days to Update: 15

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 10/24/05
Next Scheduled EDR Contact: 01/23/06
Data Release Frequency: Varies

HIST LF: Old Closed SW Disposal Sites
A list of solid waste disposal sites that have been closed for a long while.

Date of Government Version: 04/01/00
Date Data Arrived at EDR: 07/08/03
Date Made Active in Reports: 07/18/03
Number of Days to Update: 10

Source: Department of Environmental Quality
Telephone: 503-229-5409
Last EDR Contact: 07/08/03
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/14/05
Date Data Arrived at EDR: 09/13/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 09/13/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Quarterly

AOC COL: Columbia Slough
Columbia Slough waterway boundaries.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/03/02
Date Made Active in Reports: 10/22/02
Number of Days to Update: 19

Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 08/26/02
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/21/05
Date Data Arrived at EDR: 09/13/05
Date Made Active in Reports: 10/07/05
Number of Days to Update: 24

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 09/13/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Quarterly

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: N/A
Date Data Arrived at EDR: 10/07/02
Date Made Active in Reports: 10/22/02
Number of Days to Update: 15

Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 08/26/02
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Storage Tanks
Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 08/01/05
Date Data Arrived at EDR: 09/14/05
Date Made Active in Reports: 10/07/05
Number of Days to Update: 23

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 08/29/05
Next Scheduled EDR Contact: 11/28/05
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS: Spill Data

Date of Government Version: 09/13/05
Date Data Arrived at EDR: 09/14/05
Date Made Active in Reports: 11/08/05
Number of Days to Update: 55

Source: Department of Environmental Quality
Telephone: 503-229-5731
Last EDR Contact: 09/12/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents

Hazardous material incidents reported to the State Fire Marshal by emergency responders. The hazardous material may or may not have been released.

Date of Government Version: 08/31/04
Date Data Arrived at EDR: 10/12/04
Date Made Active in Reports: 11/05/04
Number of Days to Update: 24

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 08/22/05
Next Scheduled EDR Contact: 11/21/05
Data Release Frequency: Semi-Annually

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances. Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

Date of Government Version: 08/01/05
Date Data Arrived at EDR: 08/16/05
Date Made Active in Reports: 09/14/05
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 08/16/05
Next Scheduled EDR Contact: 11/14/05
Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

An institutional control is a legal or administrative tool or action taken to reduce the potential for exposure to hazardous substances. Institutional controls may include, but are not limited to, use restrictions, environmental monitoring requirements, and site access and security measures.

Date of Government Version: 08/01/05
Date Data Arrived at EDR: 08/16/05
Date Made Active in Reports: 09/14/05
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 08/16/05
Next Scheduled EDR Contact: 11/14/05
Data Release Frequency: Quarterly

VCS: Voluntary Cleanup Program Sites

Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

Date of Government Version: 08/09/05
Date Data Arrived at EDR: 08/10/05
Date Made Active in Reports: 09/08/05
Number of Days to Update: 29

Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 08/01/05
Next Scheduled EDR Contact: 10/31/05
Data Release Frequency: Quarterly

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 09/15/05
Date Data Arrived at EDR: 09/16/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 40

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 09/12/05
Next Scheduled EDR Contact: 11/28/05
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Brownfields Projects

Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 09/13/05
Date Data Arrived at EDR: 09/14/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 42

Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 09/14/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Semi-Annually

CDL: Uninhabitable Drug Lab Properties

The properties listed on these county pages have been declared by a law enforcement agency to be unfit for use due to meth lab and/or storage activities. The properties are considered uninhabitable until cleaned up by a state certified decontamination contractor and a certificate of fitness is issued by the Oregon Health Division.

Date of Government Version: 09/27/05
Date Data Arrived at EDR: 10/11/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 15

Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 09/29/05
Next Scheduled EDR Contact: 12/12/05
Data Release Frequency: Varies

HSIS: Hazardous Substance Information Survey

Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 08/01/05
Date Data Arrived at EDR: 09/14/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 42

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 08/29/05
Next Scheduled EDR Contact: 11/28/05
Data Release Frequency: Semi-Annually

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Date Data Arrived at EDR: 11/12/03
Date Made Active in Reports: 11/21/03
Number of Days to Update: 9

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/09/05
Next Scheduled EDR Contact: 11/07/05
Data Release Frequency: Semi-Annually

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/07/05
Date Data Arrived at EDR: 09/08/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 48

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/25/05
Next Scheduled EDR Contact: 11/21/05
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 09/07/05
Date Data Arrived at EDR: 09/08/05
Date Made Active in Reports: 10/26/05
Number of Days to Update: 48

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/25/05
Next Scheduled EDR Contact: 11/21/05
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listings
Source: Employment Department
Telephone: 503-947-1420

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CITY OF TROUTDALE - EASTWIND PROPERTY
410 NE HARLOW
TROUTDALE, OR 97060

TARGET PROPERTY COORDINATES

Elevation: 43 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with EPA's Standards and Practices for All Appropriate Inquiries (AAI) and ASTM E 1527-05, Section 8.2.3.

Section 8.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

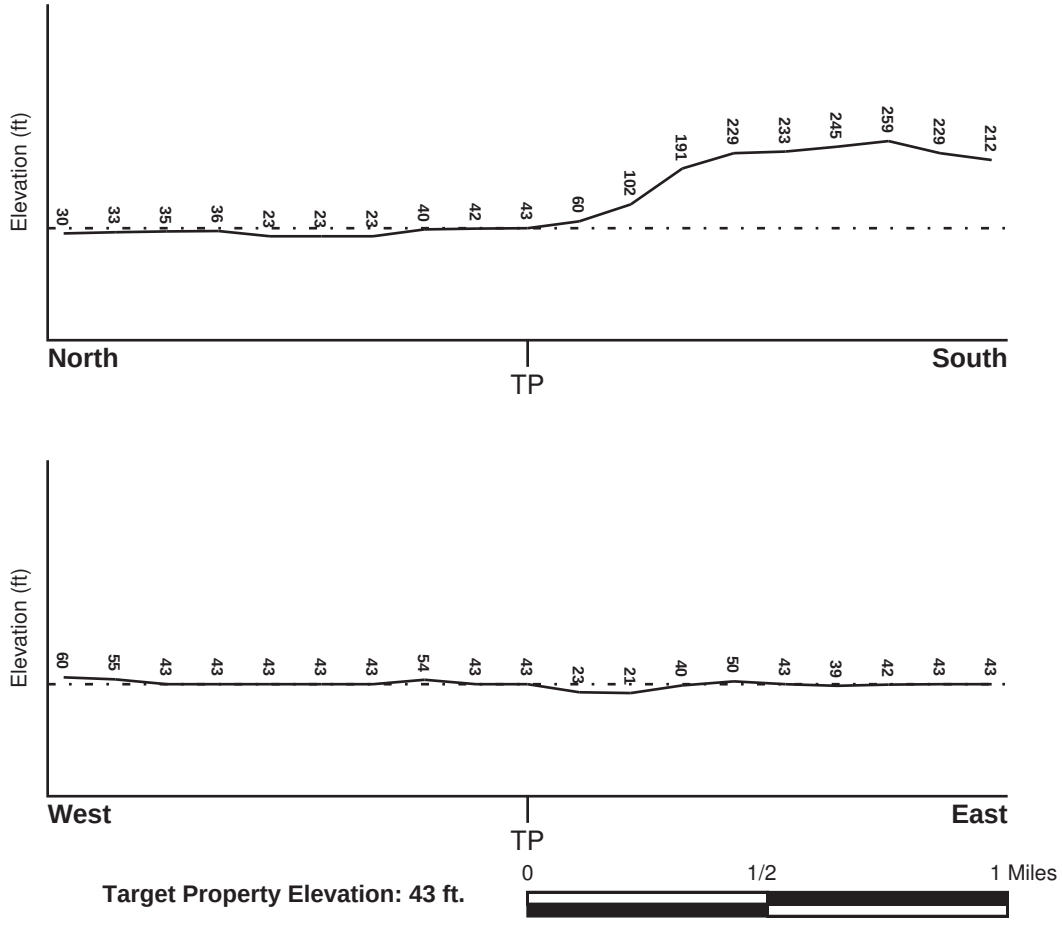
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map:	45122-E4 CAMAS, WA OR
General Topographic Gradient:	General NNE
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
MULTNOMAH, OR	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 4101840005C

Additional Panels in search area: 4101790217B
4101790240A

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CAMAS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	SAUVIE
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	15 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.60 Min: 0.20	Max: 6.50 Min: 5.60
2	15 inches	39 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.60 Min: 0.20	Max: 6.50 Min: 5.60
3	39 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 6.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loamy fine sand
fine sandy loam
sand
silty clay loam
loam
gravelly - loam

Surficial Soil Types: loamy fine sand
fine sandy loam
sand
silty clay loam
loam
gravelly - loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: gravelly - sand
loamy fine sand
fine sandy loam
silty clay
very gravelly - loamy coarse sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

According to ASTM E 1527-05, Section 8.2.2, "To enhance and supplement the standard environmental record sources in 8.2.1, local records and/or additional state or tribal records shall be checked when, in the judgment of the environmental professional, such additional records (1) are reasonably ascertainable, (2) are sufficiently useful, accurate, and complete in light of the objective of the records review (see 8.1.1), and (3) are generally obtained, pursuant to local good commercial or customary practice, in initial environmental site assessments in the type of commercial real estate transaction involved." One of the records sources listed in 8.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	USGS3243498	1/4 - 1/2 Mile SW
5	USGS3244923	1/4 - 1/2 Mile NW
6	USGS3243493	1/2 - 1 Mile SW
D19	USGS3243547	1/2 - 1 Mile NNW
21	USGS3243539	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OR4194014	1/4 - 1/2 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

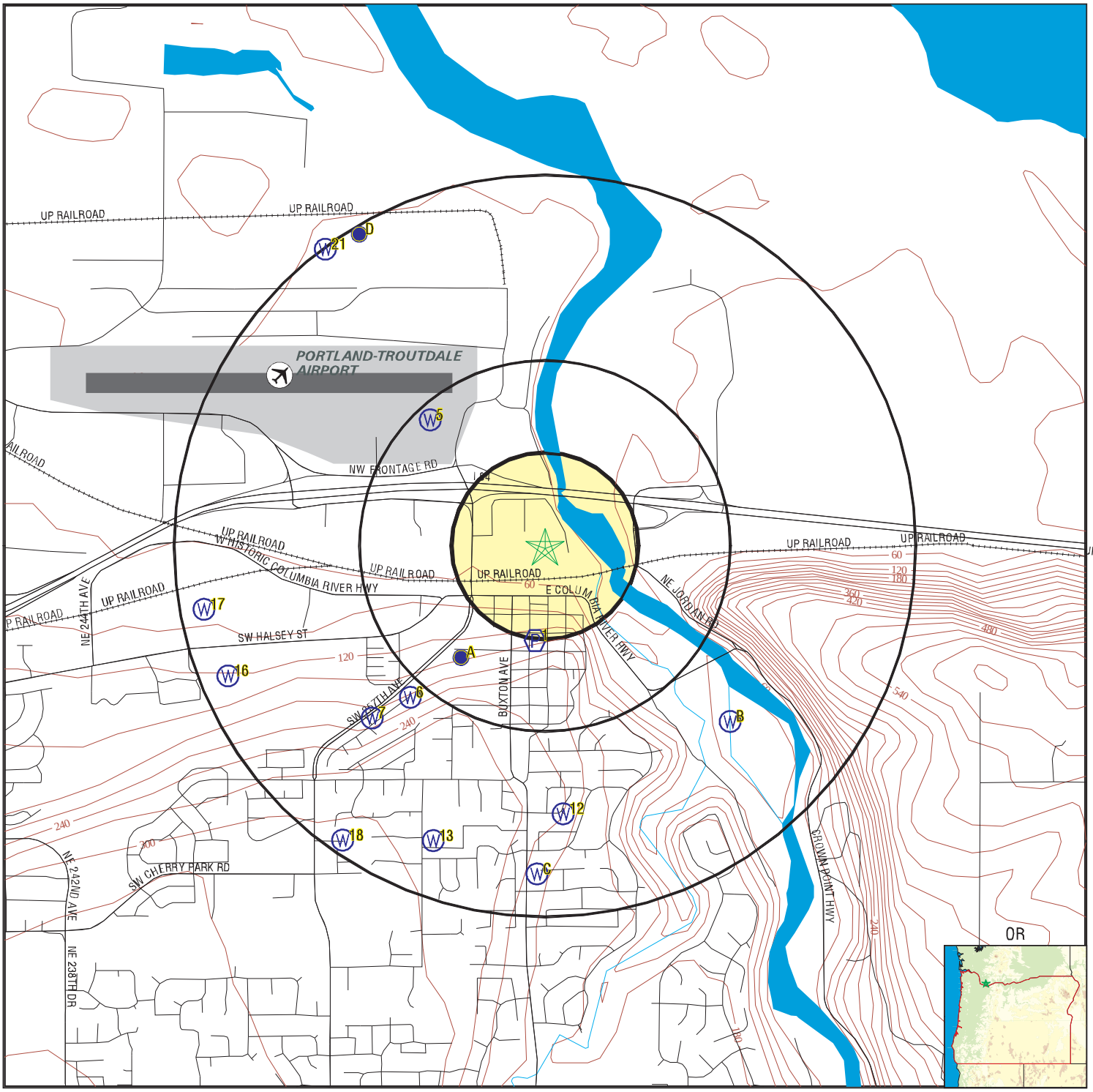
MAP ID	WELL ID	LOCATION FROM TP
A2	OR00001372	1/4 - 1/2 Mile SW
A3	OR00001371	1/4 - 1/2 Mile SW
7	OR00001400	1/2 - 1 Mile SW
B8	OR00001406	1/2 - 1 Mile SE
B9	OR00001407	1/2 - 1 Mile SE
B10	OR00001404	1/2 - 1 Mile SE
B11	OR00001405	1/2 - 1 Mile SE
12	OR00001446	1/2 - 1 Mile South
13	OR00001451	1/2 - 1 Mile SSW
C14	OR00001458	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C15	OR00001459	1/2 - 1 Mile South
16	OR00001382	1/2 - 1 Mile WSW
17	OR00001351	1/2 - 1 Mile West
18	OR00001450	1/2 - 1 Mile SW
D20	OR00001265	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 1577798.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

N

TARGET PROPERTY:	City of Troutdale - Eastwind Property	CUSTOMER:	Kleinfelder, Inc.
ADDRESS:	410 NE Harlow	CONTACT:	Randy Reid
CITY/STATE:	Troutdale OR	INQUIRY #:	1577798.2s
ZIP:	97060	DATE:	December 19, 2005 2:05 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
South
1/4 - 1/2 Mile
Higher | **FRDS PWS** | **OR4194014**

PWS ID:	OR4194014	PWS Status:	Active
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	USFS WYETH CAMPGROUND TROUTDALE, OR 97060		
Addressee / Facility:	Not Reported		
Facility Latitude:	45 32 21	Facility Longitude:	122 23 09
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000060

PWS currently has or had major violation(s) or enforcement: Yes

VIOLATIONS INFORMATION:

Violation ID:	9334794	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	07/01/93	Vio. end Date:	09/30/93	Vio. Period:	003 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Minor (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

ENFORCEMENT INFORMATION:

System Name:	USFS WYETH CAMPGROUND		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2000-04-01 - 2000-06-30	Analytical Value:	0
Violation ID:	0003374	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2000-04-01 - 2000-06-30	Analytical Value:	0
Violation ID:	0003374	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2000-07-01 - 2000-09-30	Analytical Value:	0
Violation ID:	0004925	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2000-07-01 - 2000-09-30	Analytical Value:	0
Violation ID:	0004925	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

ENFORCEMENT INFORMATION:

System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	2001-01-01 - 2001-12-31	Analytical Value:	0
Violation ID:	0106156	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	2001-01-01 - 2001-12-31	Analytical Value:	0
Violation ID:	0106156	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2003-07-01 - 2003-09-30	Analytical Value:	0
Violation ID:	0434799	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2003-07-01 - 2003-09-30	Analytical Value:	0
Violation ID:	0434799	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2003-10-01 - 2003-10-31	Analytical Value:	0
Violation ID:	0434800	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2003-10-01 - 2003-10-31	Analytical Value:	0
Violation ID:	0434800	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	2003-01-01 - 2003-12-31	Analytical Value:	0
Violation ID:	0434801	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-10-01 - 1995-12-31	Analytical Value:	00000000.00
Violation ID:	9601023	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-10-01 - 1998-12-31	Analytical Value:	0000000.000000000
Violation ID:	99000717	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

ENFORCEMENT INFORMATION:

System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1999-01-01 - 1999-12-31	Analytical Value:	0000000.000000000
Violation ID:	9908835	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

A2
SW
1/4 - 1/2 Mile
Higher

OR WELLS **OR00001372**

Well ID:	Not Reported		
Application Number:	G 9583	Certificate Number:	0
Permit Number:	G 9866	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	25
Source:	Not Reported	Use:	Municipal
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

A3
SW
1/4 - 1/2 Mile
Higher

OR WELLS **OR00001371**

Well ID:	Not Reported		
Application Number:	G 9583	Certificate Number:	0
Permit Number:	G 9866	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	25
Source:	Not Reported	Use:	Municipal
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

A4
SW
1/4 - 1/2 Mile
Higher

FED USGS **USGS3243498**

Agency cd:	USGS	Site no:	453219122232501
Site name:	01N/03E-25CBC1		
Latitude:	453219		
Longitude:	1222325	Dec lat:	45.53845291
Dec lon:	-122.39148004	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	41
State:	41	County:	051
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	135.	Altitude method:	M
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	Lower Willamette. Oregon. Area = 407 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19800401
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	571.	Hole depth:	573.
Source of depth data:	driller	Project number:	4741-14300
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1980-07-30	Ground water data end date:	1989-03-28
Ground water data count:	4		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-28	115.5		1988-04-06	118.3	
1987-03-10	116.3		1980-07-30	118	

5
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS3244923**

Agency cd:	USGS	Site no:	433652122233001
Site name:	02N/03E-26E01		
Latitude:	453252		
Longitude:	1222330	Dec lat:	45.54761941
Dec lon:	-122.39286906	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	011
Country:	US	Land net:	SW NW S26 T02N R03E W
Location map:	CAMAS	Map scale:	24000
Altitude:	9999.99	Altitude method:	U
Altitude accuracy:	999	Altitude datum:	NGVD29
Hydrologic:	Lower ColumbiaSandy. Oregon, Washington. Area = 1110 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19740424
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	126	Hole depth:	Not Reported
Source of depth data:	driller	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1974-04-24	Ground water data end date:	1974-04-24
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1974-04-24	104	

6
SW
1/2 - 1 Mile
Higher

FED USGS **USGS3243493**

Agency cd:	USGS	Site no:	453213122233401
Site name:	01N/03E-26ADD-S		
Latitude:	453213		
Longitude:	1222334	Dec lat:	45.53678627
Dec lon:	-122.39398003	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	41
State:	41	County:	051
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported	Altitude method:	Not Reported
Altitude accuracy:	Not Reported	Altitude datum:	Not Reported
Hydrologic:	Lower Willamette. Oregon. Area = 407 sq.mi.		
Topographic:	Not Reported		
Site type:	Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Spring		
Aquifer Type:	Not Reported		
Aquifer:	TROUTDALE FORMATION		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1977-09-21
Water quality data end date:	1977-09-21	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

7
SW
1/2 - 1 Mile
Higher

OR WELLS **OR00001400**

Well ID:	Not Reported		
Application Number:	GR 2425	Certificate Number:	0
Permit Number:	GR 2303	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	26
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

B8
SE
1/2 - 1 Mile
Lower

OR WELLS **OR00001406**

Well ID:	Not Reported		
Application Number:	Not Reported	Certificate Number:	Not Reported
Permit Number:	Not Reported	Point of Division Num.:	0
Map Name:	1.00N 3.00E	Section:	25
Source:	Not Reported	Use:	Not Reported
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

B9
SE
1/2 - 1 Mile
Lower

OR WELLS **OR00001407**

Well ID:	Not Reported		
Application Number:	Not Reported	Certificate Number:	Not Reported
Permit Number:	Not Reported	Point of Division Num.:	0
Map Name:	1.00N 3.00E	Section:	25
Source:	Not Reported	Use:	Not Reported
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

B10
SE
1/2 - 1 Mile
Lower

OR WELLS **OR00001404**

Well ID:	Not Reported		
Application Number:	Not Reported	Certificate Number:	Not Reported
Permit Number:	Not Reported	Point of Division Num.:	0
Map Name:	1.00N 3.00E	Section:	25
Source:	Not Reported	Use:	Not Reported
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

B11
SE
1/2 - 1 Mile
Lower

OR WELLS **OR00001405**

Well ID:	Not Reported		
Application Number:	Not Reported	Certificate Number:	Not Reported
Permit Number:	Not Reported	Point of Division Num.:	0
Map Name:	1.00N 3.00E	Section:	25
Source:	Not Reported	Use:	Not Reported
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

12
South
1/2 - 1 Mile
Higher

OR WELLS **OR00001446**

Well ID:	Not Reported		
Application Number:	G 1162	Certificate Number:	28259
Permit Number:	G 1179	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	36
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

13
SSW
1/2 - 1 Mile
Higher

OR WELLS **OR00001451**

Well ID:	Not Reported		
Application Number:	G 1200	Certificate Number:	30027
Permit Number:	G 970	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	36
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

C14
South
1/2 - 1 Mile
Higher

OR WELLS **OR00001458**

Well ID:	Not Reported		
Application Number:	GR 4264	Certificate Number:	0
Permit Number:	GR 4115	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	36
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

C15
South
1/2 - 1 Mile
Higher

OR WELLS **OR00001459**

Well ID:	Not Reported		
Application Number:	GR 2807	Certificate Number:	0
Permit Number:	GR 2649	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	36
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

16
WSW
1/2 - 1 Mile
Higher

OR WELLS **OR00001382**

Well ID:	Not Reported		
Application Number:	GR 4131	Certificate Number:	0
Permit Number:	GR 3708	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	26
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

17
West
1/2 - 1 Mile
Higher | **OR WELLS** | **OR00001351**

Well ID:	Not Reported		
Application Number:	GR 2955	Certificate Number:	0
Permit Number:	GR 2773	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	26
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

18
SW
1/2 - 1 Mile
Higher | **OR WELLS** | **OR00001450**

Well ID:	Not Reported		
Application Number:	G 1161	Certificate Number:	28258
Permit Number:	G 1105	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	35
Source:	Not Reported	Use:	Irrigation
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

D19
NNW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS3243547**

Agency cd:	USGS	Site no:	453318122234301
Site name:	01N/03E-23DABA1		
Latitude:	453318		
Longitude:	1222343	Dec lat:	45.5548415
Dec lon:	-122.39648029	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	41
State:	41	County:	051
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

Altitude:	27.	Altitude method:	M
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	Lower ColumbiaSandy. Oregon, Washington. Area = 1110 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19530430
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	275.	Hole depth:	275.
Source of depth data:	driller	Project number:	4741-14300
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1953-04-30	Ground water data end date:	1953-04-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1953-04-30	41.0	

D20
NNW
1/2 - 1 Mile
Lower

OR WELLS **OR00001265**

Well ID:	Not Reported		
Application Number:	G 5069	Certificate Number:	41558
Permit Number:	G 4786	Point of Division Num.:	1
Map Name:	1.00N 3.00E	Section:	23
Source:	Not Reported	Use:	/Manufacturing
List:	0	Station:	0
X Coordinate:	0	Y Coordinate:	0
Latitude:	0	Longitude:	0
Aquifer Type:	Not Reported	Data Source:	Not Reported
Water Use:	Not Reported	Altitude:	0
Well Type:	Not Reported	Depth:	0
Description:	Not Reported	County Code:	Not Reported
Water Level:	0		
Well:	0		

21
NW
1/2 - 1 Mile
Lower

FED USGS **USGS3243539**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	453316122235102
Site name:	01N/03E-23DBAD2		
Latitude:	453316		
Longitude:	1222351	Dec lat:	45.55428595
Dec lon:	-122.39870252	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	41
State:	41	County:	051
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	28.	Altitude method:	M
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	Lower Willamette. Oregon. Area = 407 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19490901
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	195.	Hole depth:	195.
Source of depth data:	driller	Project number:	4741-14300
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1949-09-01	Ground water data end date:	1949-09-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-09-01	24.0	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OR Radon

Radon Test Results

Zip	Total Sites	Min pCi/L	Max pCi/L	Avg pCi/L	>4 pCi/L
97060	14	0.1	3.4	1.6	0

Federal EPA Radon Zone for MULTNOMAH County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MULTNOMAH COUNTY, OR

Number of sites tested: 33

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.530 pCi/L	91%	9%	0%
Basement	2.630 pCi/L	57%	43%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Oregon Digitized Wells
Source: Water Resources Department
Telephone: 503-378-8455

OTHER STATE DATABASE INFORMATION

RADON

State Database: OR Radon
Source: Oregon Health Services
Telephone: 503-731-4272
Radon Levels in Orgeon

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

The EDR-City Directory
Abstract

City of Troutdale - Eastwind Property
410 NE Harlow
Troutdale, OR 97060

Inquiry Number: 1577798.4

Wednesday, December 21, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. The city directory is a sophisticated tool for locating individuals and businesses. With each address, the directory lists the name of the corresponding occupant.

References

To meet the prior use requirements of ASTM E 1527-05, Section 8.3.2, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-05, Section 8.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. ASTM E 1527-05 requires *"All obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historcal sources as are necessary and both reasonably ascertainable and likely to be useful."* (ASTM E 1527-05, Section 8.3.2) *Reasonably ascertainable means information that is publicly available, obtainable from a source within reasonable time and cost constraints, and practically reviewable.*

EPA's Standards and Practices for All Appropriate Inquiries (AAI), Section § 312.24, identifies the historical sources of information necessary to achieve the objectives and performance factors of § 312.20. According to AAI, *"historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."*

Data Gaps

In order to address data gaps, additional sources of information may be consulted. According the AAI, Section § 312.20 (g), *"to the extent there are data gaps (as defined in § 312.10) in the information developed...that affect the ability of persons (including the environmental professional) conducting the all appropriate inquiries to identify conditions indicative of releases or threatened releases...such persons should identify such data gaps, identify the sources of information consulted to address such data gaps, and comment upon the significance of such data gaps."* According to ASTM E 1527-05, Section 8.3.2.3, *"historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met....If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for their exclusion."*

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1966 through 1996. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: 12/21/2005

Target Property:
410 NE Harlow
Troutdale, OR 97060

Year	Uses	NAICS	Source
1966	Street Not Listed in Research Source	N/A	Polk's City Directory
1970	Street Not Listed in Research Source	N/A	Polk's City Directory
1974	Street Not Listed in Research Source	N/A	Polk's City Directory
1979	Street Not Listed in Research Source	N/A	Polk's City Directory
1984	Street Not Listed in Research Source	N/A	Polk's City Directory
1996	Street Not Listed in Research Source	N/A	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Troutdale, OR 97060

Year	Uses	NAICS	Source
1966	Street Not Listed in Research Source	N/A	Polk's City Directory
1970	Street Not Listed in Research Source	N/A	Polk's City Directory
1974	Street Not Listed in Research Source	N/A	Polk's City Directory
1979	Street Not Listed in Research Source	N/A	Polk's City Directory
1984	Street Not Listed in Research Source	N/A	Polk's City Directory
1996	Street Not Listed in Research Source	N/A	Polk's City Directory

The EDR-City Directory
Abstract

City of Troutdale - Eastwind Property
410 NW 257th Way
Troutdale, OR 97060

Inquiry Number: 1580163.1

Friday, December 23, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. The city directory is a sophisticated tool for locating individuals and businesses. With each address, the directory lists the name of the corresponding occupant.

References

To meet the prior use requirements of ASTM E 1527-05, Section 8.3.2, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-05, Section 8.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. ASTM E 1527-05 requires *"All obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historcal sources as are necessary and both reasonably ascertainable and likely to be useful."* (ASTM E 1527-05, Section 8.3.2) *Reasonably ascertainable means information that is publicly available, obtainable from a source within reasonable time and cost constraints, and practically reviewable.*

EPA's Standards and Practices for All Appropriate Inquiries (AAI), Section § 312.24, identifies the historical sources of information necessary to achieve the objectives and performance factors of § 312.20. According to AAI, *"historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."*

Data Gaps

In order to address data gaps, additional sources of information may be consulted. According the AAI, Section § 312.20 (g), *"to the extent there are data gaps (as defined in § 312.10) in the information developed...that affect the ability of persons (including the environmental professional) conducting the all appropriate inquiries to identify conditions indicative of releases or threatened releases...such persons should identify such data gaps, identify the sources of information consulted to address such data gaps, and comment upon the significance of such data gaps."* According to ASTM E 1527-05, Section 8.3.2.3, *"historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met....If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for their exclusion."*

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1967 through 1996. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: 12/23/2005

Target Property:
410 NW 257th Way
Troutdale, OR 97060

Year	*Uses*	*NAICS*	*Source*
1967	Street Not Listed in Research Source	N/A	Polk's City Directory
1973	Street Not Listed in Research Source	N/A	Polk's City Directory
1979	Street Not Listed in Research Source	N/A	Polk's City Directory
1984	Street Not Listed in Research Source	N/A	Polk's City Directory
1996	Street Not Listed in Research Source	N/A	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Troutdale, OR 97060

Year	*Uses*	*NAICS*	*Source*
1967	Street Not Listed in Research Source	N/A	Polk's City Directory
1973	Street Not Listed in Research Source	N/A	Polk's City Directory
1979	Street Not Listed in Research Source	N/A	Polk's City Directory
1984	Street Not Listed in Research Source	N/A	Polk's City Directory
1996	Street Not Listed in Research Source	N/A	Polk's City Directory

CENPP-PE-DC

13 Aug 93
Bolton/6490

MEMORANDUM FOR RECORD

SUBJECT: Trip Report, Sandy River Bank Revetment Construction

1. A site visit to the Sandy River Bank Revetment Construction was conducted on Thursday, 12 August 1993. The purpose of the visit was to examine trash and debris unexpectedly encountered during bank excavation to determine whether any hazardous, toxic, or radiological waste (HTRW) was potentially present.

2. I arrived at the site at approximately 12:10. The trash has been piled at the top of the bank on both sides of a temporary dirt access road leading from the top of the bank down to almost river level. I walked over the piles examining the material. Approximately 90-95% of the material is particleboard, most with a veneer finishing, starting to decompose at the edges. In the easternmost pile there is an area of what appears to be cement, some of which is very weakly fused, possibly by percolating rainwater. Other observed items were one tire, 2 rubber gaskets, a crushed WD-40 spray can, 4 or 5 crushed empty buckets (volumes of 2-5 gallons, labels missing or unreadable), several empty small (approximately 1 quart) plastic containers which probably held consumer automotive products (part of a Valvoline label was attached to one such container), a length of rebar, several pieces of plastic sheeting, a few small tar balls, and what appeared to be a metal Shelby tube filled with soil. I left the site at approximately 12:50.

3. On the basis of this surface examination (there is the possibility other materials could be buried within the piles), there is not a potential HTRW problem at this site. All the observed materials may be either landfilled or recycled.

Jane M. Bolton

Jane M. Bolton
Civil Engineer

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL # of pages ▶ 1

To COLLEEN MARTIN	From Dick Gamble
Dept./Agency KLIEN FEDDER	Phone #
Fax # 503 643-1905	Fax # COE

NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

KLEINFELDER
An employee owned company

TRANSMITTAL

Date: May 12, 2006
Kleinfelder Project Number: 63608

TO:

Mr. James E. Galloway
Public Works Director
City of Troutdale
342 SW 4th Street
Troutdale, OR 97060

Subject:

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT
CITY OF TROUTDALE WWTP PROPERTY AND
EASTWIND DEVELOPMENT, LLC PROPERTY
410, 320, AND 302 NW 257th WAY
TROUTDALE, OREGON

We are sending the following:

Four copies of the above-referenced report.

Remarks:

If you have any questions, please contact our office at (503) 644-9447.
Thank you.

By:

ORIGINAL SIGNED BY:

Shawn R. Rapp
Senior Project Manager

KLEINFELDER
An employee owned company

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT
CITY OF TROUTDALE WWTP PROPERTY AND EASTWIND DEVELOPMENT, LLC PROPERTY
410, 320, AND 302 NW 257th WAY
TROUTDALE, OREGON
KLEINFELDER PROJECT NO. 63608

May 12, 2006

KLEINFELDER
An employee owned company

Date: May 12, 2006
Kleinfelder Project Number: 63608

Mr. James E. Galloway
Public Works Director
City of Troutdale
342 SW 4th Street
Troutdale, OR 97060

Subject: Phase II Environmental Site Assessment Report
City of Troutdale WWTP Property and
Eastwind Development, LLC Property
410, 320, and 302 NW 257th Way
Troutdale, Oregon

Dear Mr. Galloway:

Kleinfelder is pleased to submit this report that summarizes the field activities and findings of a Phase II Environmental Site Assessment conducted at the above-referenced site in Troutdale, Oregon. We trust that the information contained in this report will meet your needs at this time.

Kleinfelder appreciates the opportunity to be of service on this project. Should you require additional information or have any questions regarding this report, please contact this office at your convenience.

Sincerely,

KLEINFELDER, INC.

ORIGINAL SIGNED BY:

Shawn R. Rapp
Senior Project Manager

ORIGINAL SIGNED BY:

Lon R. Yandell
Principal Geologist
Environmental Department Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

This report describes the field activities and findings of a Phase II Environmental Site Assessment (ESA) conducted on March 16, 2006, at the City of Troutdale Wastewater Treatment Plant (WWTP) property and Eastwind Development, LLC (Eastwind Development) property in Troutdale, Oregon (Figure 1). The assessment was conducted in accordance with applicable local, state, and federal laws and was performed in general accordance with the American Society of Testing and Materials (ASTM) Standard E 1903-97, *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, and Kleinfelder's Work Plan dated January 30, 2006. The objective of the Phase II ESA was to assess potential impacts to soil with respect to the potential environmental concerns identified in Kleinfelder's Phase I ESA (Kleinfelder, 2006).

The scope of work described in this report consisted of the following: decommissioning of a commercial underground heating oil tank (HOT), excavation of ten test pits, collection and analysis of soil samples, and data analysis and interpretation.

2.0 SITE DESCRIPTION

The site is located in the southeast quarter of the northwest quarter of Section 25, Township 1 North, Range 3 East, Willamette Meridian, Multnomah County, Oregon (U.S. Geological Survey, 1975). The site is bounded to the north by NW frontage Road and commercial businesses, to the south by Union Pacific Railroad, to the east by the Sandy River, and to the west by NW 257th Way and commercial businesses (Figure 1). The "old" town of Troutdale is located just south of the site across Union Pacific Railroad.

The site consists of three adjoining properties located at 410, 320, and 302 NW 257th Way in Troutdale, Oregon (Figure 2). The properties located at 410 (Tax Lot 400) and 320 (Tax Lot 500) NW 257th Way are owned by the City of Troutdale. The old WWTP located at 410 NW 257th Way was shut down in November 2001 because a new WWTP had been constructed north of the site.

The property located at 302 NW 257th Way (Tax Lots 100 and 600) is owned by Eastwind Development. Two warehouses are located in the southwestern portion of Tax Lot 100. The small warehouse has been leased to a woodworker, and the large

warehouse (former wool pullery) is vacant and has been condemned by Gresham Fire and Emergency Services.

The site is essentially level, and topography in the site vicinity slopes gently to the northeast towards the Sandy River, which borders the east side of the site. The Sandy River flows in a northwesterly direction past the site and joins the Columbia River approximately 1.75 miles north of the site. The site elevation is approximately 30 to 40 feet above mean sea level. The inferred direction of regional groundwater flow is to the northeast, toward the Sandy River, based on topography (U.S. Geological Survey, 1975).

3.0 BACKGROUND

Kleinfelder conducted a Phase I ESA for the site at the request of the City of Troutdale (Kleinfelder, 2006). The following background information has been summarized from the Phase I ESA.

City of Troutdale WWTP Property

The City of Troutdale WWTP property was initially developed, at least in the southwestern portion, as a boarding building for employees of the Union Meat Company's slaughterhouse in 1901. In 1969, construction of the WWTP began after the City of Troutdale obtained ownership of the property. The WWTP has a former, approximately 100,000-gallon capacity, unlined sludge storage lagoon (see Figure 2 for location of the lagoon). There is a potential that the soil beneath the unlined lagoon could have accumulated concentrations of metals and semi-volatile organic compounds (SVOCs).

There were reportedly no releases of hazardous substances to the soil or groundwater at the City of Troutdale property. There were no known underground storage tanks (USTs) at the property.

Eastwind Development Property

In 1901, two warehouses were constructed in the southwestern portion of Tax Lot 100 by Union Meat Company. The warehouses were used for processing livestock, including a rendering and glue plant. Two "oil house" buildings were present east of the large warehouse, presumably to store oil containers for onsite machinery.

The present-day Eastwind Development property had changed many times between its original construction in 1901 and the shut down of the wool pullery around 1970;

however, the business use of the property during that period appears to have remained consistent as a slaughterhouse, hide processor, and/or wool pullery.

There is a potential that the former slaughterhouse activities (tanning) may have resulted in the presence of chromium and volatile organic compounds (VOCs) in site soil and in sediment from the onsite clarifiers. A settling pond was located north of the large warehouse that could have been used for wastewater discharge after primary treatment in the onsite clarifiers.

D&D Manufacturing/Third Dimension operated at the present-day Eastwind Development property from the early 1970s to the late 1990s. The business was considered a "Small Quantity Generator" of hazardous waste under the Resource Conservation and Recovery Act (RCRA). There were violations reported by the U.S. Environmental Protection Agency (EPA) for citations that had occurred during 1991-1992. The details of the violations were not known, but they were likely due to waste storage practices and/or administrative issues. For example, several chemical containers, from plastic tubes to 55-gallon drums, with unidentified liquids were observed at the property during the Phase I ESA activities. The presence of chemical containers is considered an environmental concern. Additionally, the cabinet making business likely used adhesive and resins. Other than the listing for D&D Manufacturing/Third Dimension as a RCRA Small Quantity Generator, the present-day Eastwind Development property was not listed on the various federal and state environmental cleanup databases researched for the Phase I ESA.

4.0 SITE GEOLOGY AND HYDROGELOGY

The site is situated in the Sandy River Delta. The site vicinity is underlain by Quaternary-aged Missoula flood deposits consisting of silt, sand, cobbles, and boulders. These flood deposits are underlain by Tertiary-aged Troutdale Formation, which consists of partially cemented conglomerate and sandstone (Rapp, 2005).

Soils encountered by Kleinfelder during excavation activities at the site generally consisted of silty sand underlain by sand with cobbles and boulders. Groundwater was not encountered during the excavation activities at the site.

5.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT

On March 16, 2006, the Phase II ESA activities included the following: 1) at the City of Troutdale WWTP property - collection of soil samples from two test pits; and 2) at

Eastwind Development property - geophysical survey, decommissioning of an underground HOT and collection of soil samples, and collection of soil samples from eight test pits.

A backhoe excavator was used to decommission the underground HOT and excavate the test pits. The HOT was located west of the large warehouse at the Eastwind Development property. The test pit locations were selected based on the known site history and results of the geophysical survey discussed in Section 5.2.1. The HOT and test pit locations are shown in Figure 2. Groundwater was not encountered in the HOT excavation and test pits during excavation activities. A licensed HOT supervisor was present and observed the HOT decommissioning, field operations, collected samples, and logged the test pits. Test pit logs are provided in Appendix A.

Soil samples were placed in ice-chilled coolers and transported under chain-of-custody documentation to Specialty Analytical in Tualatin, Oregon for analysis. Following collection of soil samples, the HOT excavation and test pits were backfilled with the excavated soils.

5.1 CITY OF TROUTDALE WWTP PROPERTY

Two test pits (TP-1 and TP-2) were excavated to approximately 5.5-6 feet below the ground surface (bgs) within the apparent boundary of the former unlined sludge lagoon. No visual or olfactory evidence of impacts were detected in soils from these test pits. One soil sample was collected from each test pit for laboratory analysis.

5.2 EASTWIND DEVELOPMENT PROPERTY

The activities conducted at Eastwind Development property are described in the following subsections.

5.2.1 Geophysical Survey

On March 16, 2006, GeoPotential, located in Gresham, Oregon, conducted a geophysical survey using a magnetometer in the area east and north of the large warehouse. The survey was conducted for the purpose of detecting metallic debris that could be remnants of the foundations of three buildings (two “oil houses” and a large building) historically occupying this portion of the site, as well as detecting possible waste drums.

Eleven magnetic anomalies (A through K; see Figure 2 of the geophysical survey report provided in Appendix B) were detected during the survey. Anomaly A was interpreted

to be caused by a small metallic object that may be a drum(s) or other metallic debris. Anomaly B was also interpreted to be caused by a small metallic object; however, later excavation at Anomaly B location unearthed a concrete pad overlying malodorous soil containing oil. Anomaly C, when excavated, showed similar characteristics as Anomaly B without the oil. Anomalies B and C appeared to be the locations of the former two "oil houses". Anomaly D appeared to be a broken up foundation pad or a debris zone. Anomalies E, G, H, and I appeared to be caused by small metallic objects that may be debris or drums. Anomaly F, when excavated during the survey, was found to be caused by scattered drywall nails. Anomaly J was interpreted to be caused by small and scattered metallic objects. Anomaly K, when excavated during the survey, was found to be caused by miscellaneous metallic debris. A copy of the geophysical survey report is provided in Appendix B.

5.2.2 HOT Decommissioning

An approximately 675-gallon underground HOT was decommissioned by removal in general accordance with Oregon Department of Environmental Quality (DEQ) regulations. Petroleum hydrocarbon odor or staining was not observed in excavated backfill material or in native soil exposed along the excavation sidewalls and floor. Groundwater was not encountered during decommissioning activities. Two soil samples were collected from beneath the two ends of the HOT after its removal. The excavation was backfilled with the excavated soils.

5.2.3 Test Pit Excavation

Eight test pits (TP-3 through TP-10) were excavated north and east of the large warehouse. The test pits were excavated to depths ranging from 9 to 15 feet bgs, and were intended to assess soil at historic locations with potential environmental concerns (i.e., former oil houses, settling pond, and glue factory) and areas interpreted/determined to contain metallic debris during the geophysical survey. One soil sample was collected from each test pit for laboratory analysis. Two onsite clarifiers and drainage trenches inside the former slaughterhouse/large warehouse did not have sufficient sediment; therefore, sediment samples were not collected from these locations.

Test pit TP-3 was excavated within the apparent boundary of the former settling pond. No visual or olfactory evidence of impacts was detected in soils from test pit TP-3. Test pits TP-4 and TP-5 were excavated at the locations of magnetic anomalies C and B,

respectively, that were believed to be the sites of the former oil houses. The following materials were found beneath the buried concrete pad in test pits TP-4 and TP-5: black fibrous material (of unknown source, possibly building material or animal hair), viscous sludge(s) and oily liquids of unknown origin or composition, with an extremely strong, undetermined odor that could be smelled several hundred feet away. Test pits TP-6 and TP-7 were excavated at the locations of magnetic anomalies K and J, respectively, that were interpreted to be caused by metallic debris. In test pit TP-6, trash was found; a soil sample was collected from beneath the trash. In test pit TP-7, two corroded, buried drums with undetermined contents were found. Test pits TP-8, TP-9, and TP-10 were excavated in the area of the former glue factory. In test pits TP-8 and TP-9, buried wood/fiberboard debris was found; soil samples were collected from beneath the debris. In test pit TP-10, green rubbery material, possibly related to the glue factory or some other unknown source, was found; a soil sample was collected from beneath the rubbery material.

5.3 SOIL SAMPLE ANALYTICAL TEST METHODS

The analytical program for soil samples was developed based upon historic site operations. Samples were analyzed for one or more of the following constituents: petroleum hydrocarbon identification by Northwest Method NWTPH-HCID; diesel- and lube oil-range petroleum hydrocarbons (diesel and lube oil) by Northwest Method NWTPH-Dx; VOCs by EPA Method 8260B; SVOCs by EPA Method 8270D; total RCRA-8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) by EPA Method 6010/7471; e. coli by EPA Method 503D; fecal coliform by EPA Method 9222D; enteric viruses by ASTM Method D4994-89; and helminth ova by EPA Method 600/1-87/014.

Samples collected from the HOT excavation were analyzed for diesel and lube oil. Samples collected from test pits TP-1 and TP-2 were analyzed for SVOCs and RCRA-8 metals (total). The sample collected from test pit TP-1 was also analyzed for e. coli, fecal coliform, enteric viruses, and helminth ova. A sample collected from test pit TP-3 was analyzed for VOCS, SVOCs, and RCRA-8 metals (total). Samples collected from test pits TP-4 and TP-5 were analyzed for diesel, lube oil, VOCS, SVOCs, RCRA-8 metals (total), e. coli, and fecal coliform. Samples collected from test pits TP-6 and TP-7 were analyzed for petroleum hydrocarbon identification. The sample collected from test pit TP-6 was also analyzed for RCRA-8 metals (total). The sample collected from test pit TP-7 was also analyzed for VOCs and SVOCs. Samples collected from test pits

TP-8, TP-9, and TP-10 were analyzed for petroleum hydrocarbon identification. The sample collected from test pit TP-10 was also analyzed for diesel, lube oil, VOCS, SVOCs, and RCRA-8 metals (total). A copy of the laboratory report and chain-of-custody documentation is provided in Appendix C.

5.4 REGULATORY SCREENING LEVELS

A detailed conceptual site model (CSM) of potentially complete exposure pathways is not part of the approved scope of work and, accordingly, has not been completed for this site. However, based on our current knowledge of site conditions, *soil ingestion, dermal contact, and inhalation* for occupational, construction worker and excavation worker receptors; and *vapor intrusion into buildings* and *volatilization to outdoor air* for an occupational receptor appear to be potentially complete exposure pathways for soil at the site. Based on this preliminary CSM, analytical results of the petroleum hydrocarbon-related constituents in soil samples were compared to their respective generic risk-based concentrations (RBCs) listed in Appendix A of the DEQ's Risk-*Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (RBDM) guidance document (DEQ, 2003) for the above potentially complete exposure pathways. The generic RBCs used for comparison are listed in Table 1. Analytical results of the petroleum hydrocarbon-related constituents in soil samples for which generic RBCs have not been determined by DEQ (2003), were compared to the EPA Region 9 preliminary remediation goals (PRGs) for industrial soil (EPA, 2004). Analytical results of metals in soil samples were compared to the EPA Region 9 PRGs for industrial soil. The PRGs used for comparison are listed in Tables 1 and 2.

6.0 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

Analytical results of petroleum hydrocarbon identification, total petroleum hydrocarbon quantification (diesel and lube oil), VOCs, and SVOCs in soil samples are summarized in Table 1. Analytical results of metals, e. coli, fecal coliform, enteric viruses, and helminth ova in soil samples are summarized in Table 2.

6.1 City of Troutdale WWTP Property

Barium (ranging from 5.02 to 5.05 milligrams per kilogram (mg/Kg)) and chromium (ranging from 4.36 to 4.91 mg/Kg) were detected in soil samples collected from test pits TP-1 and TP-2. The detected barium and chromium concentrations are well below their respective EPA Region 9 PRG cleanup levels for industrial soil. SVOCs, e. coli, fecal coliform, enteric viruses, and helminth ova were not detected at or above their

respective laboratory method reporting limits (non-detect) in soil samples collected from test pits TP-1 and TP-2.

6.2 Eastwind Development Property

The soil sample results from the assessment of the Eastwind Development property are summarized in the following subsections.

6.2.1 HOT Decommissioning

Diesel and lube oil were non-detect in soil samples collected from the HOT excavation.

6.2.2 Former Settling Pond

Barium (21.8 mg/Kg) and chromium (2.8 mg/Kg) were detected in a soil sample collected from test pit TP-3. The detected barium and chromium concentrations are well below their respective EPA Region 9 PRG cleanup levels for industrial soil. VOCs and SVOCs were non-detect in the soil sample collected from test pit TP-3.

6.2.3 Former Oil Houses

The following constituents were detected in soil samples collected from test pits TP-4 and/or TP-5: diesel (ranging from 25,800 to 28,600 mg/Kg); lube oil (ranging from 7,450 to 9,810 mg/Kg); 2-hexanone (ranging from 0.0713 to 0.221 mg/Kg); 1,4-dichlorobenzene (ranging from 0.469 to 2.76 mg/Kg); 2-butanone (0.201 mg/Kg); acetone (ranging from 1.26 to 11.4 mg/Kg); carbon disulfide (0.0684 mg/Kg); chlorobenzene (0.011 mg/Kg); toluene (0.0162 mg/Kg); total xylenes (0.0593 mg/Kg); naphthalene (ranging from 0.18 to 21.7 mg/Kg); 2-methylnaphthalene (1.5 mg/Kg); 3-&4-methylphenol (ranging from 5.75 to 61.7 mg/Kg); phenol (ranging from 53.6 to 140 mg/Kg); arsenic (14.9 mg/Kg); barium (ranging from 21.8 to 51.3 mg/Kg); cadmium (0.102 mg/Kg); chromium (ranging from 1.11 to 2.8 mg/Kg); lead (11.0 mg/Kg); and mercury (0.0336 mg/Kg).

The detected diesel concentrations in soil samples collected from test pits TP-4 and TP-5 are above the generic RBC cleanup level for the *construction worker soil ingestion, dermal contact, and inhalation* exposure pathway (23,000 mg/Kg). The detected arsenic concentrations in soil samples collected from test pits TP-4 and TP-5 are above the EPA Region 9 PRG cleanup level for industrial soil (1.6 mg/Kg). The DEQ has determined that the maximum background soil concentration of arsenic in Oregon is 12 ± 2.84 mg/Kg (DEQ, 1994). Arsenic concentrations detected in soil samples collected from test pits TP-4 and TP-5 are comparable to the above background concentration.

The detected concentrations of the remaining constituents are well below their applicable generic RBC or EPA Region 9 PRG cleanup levels.

6.2.4 Former Glue Factory

Petroleum hydrocarbons were non-detect in soil samples collected from test pits TP-8 and TP-9. The following constituents were detected in a soil sample collected from test pit TP-10: diesel (30.1 mg/Kg); lube oil (141 mg/Kg); methylene chloride (0.0938 mg/Kg); benzoic acid (0.678 mg/Kg); bis(2-ethylhexyl)pthalate (6.09 mg/Kg); di-n-octylpthalate (0.284 mg/Kg); barium (20.9 mg/Kg); chromium (4.46 mg/Kg); lead (7.88 mg/Kg); and mercury (0.028 mg/Kg). All the detected constituent concentrations are well below their applicable generic RBC or EPA region 9 PRG cleanup levels.

6.2.5 Other Locations

Petroleum hydrocarbons were non-detect in a soil sample collected from test pit TP-6. Arsenic (2.33 mg/Kg), barium (28.8 mg/Kg), chromium (9.77 mg/Kg), lead (14.9 mg/Kg), and mercury (0.0198 mg/Kg) were detected in the soil sample collected from test pit TP-6. The following constituents were detected in a soil sample collected from test pit TP-7: 1,1,1-trichloroethane (6.27 mg/Kg); 1,1-dichloroethene (0.256 mg/Kg); tetrachloroethene (0.0371 mg/Kg); trichloroethene (0.0782 mg/Kg); and bis(2-ethylhexyl)pthalate (1.15 mg/Kg).

The detected arsenic concentration in the soil sample collected from test pit TP-6 is slightly above the EPA Region 9 PRG cleanup level for industrial soil; however, the detected arsenic concentration is well below the maximum background soil concentration of arsenic in Oregon as discussed in Section 6.2.3.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on Kleinfelder's knowledge of the subject property from site observations and information gathered during the Phase II ESA activities. The conclusions and recommendations are subject to the limitations presented in this report and may change if additional information becomes available.

A preliminary CSM has identified *soil ingestion, dermal contact, and inhalation* for occupation, construction worker, and excavation worker receptors; and *vapor intrusion into buildings and volatilization to outdoor air* for an occupational receptor as being potentially complete exposure pathways for soil at the site.

7.1 CITY OF TROUTDALE WWTP PROPERTY

Barium (ranging from 5.02 to 5.05 mg/Kg) and chromium (ranging from 4.36 to 4.91 mg/Kg) were detected in soil samples collected from test pits TP-1 and TP-2 excavated within the apparent boundary of the former unlined sludge lagoon. The detected barium and chromium concentrations are well below their respective EPA Region 9 PRG cleanup levels for industrial soil. SVOCs, e. coli, fecal coliform, enteric viruses, and helminth ova were non-detect in soil samples collected from test pits TP-1 and TP-2. No additional soil investigation or cleanup in this locality is recommended at this time.

7.2 EASTWIND DEVELOPMENT PROPERTY

7.2.1 HOT Decommissioning

Diesel and lube oil were non-detect in soil samples collected from the HOT excavation. This suggests that there does not appear to be a significant release associated with the underground HOT at the site. No additional soil investigation or cleanup in the former HOT vicinity appears warranted at this time. A HOT decommissioning report will be submitted to the DEQ.

7.2.2 Former Settling Pond

Barium (21.8 mg/Kg) and chromium (2.8 mg/Kg) were detected in a soil sample collected from test pit TP-3 excavated within the apparent boundary of the former settling pond. The detected barium and chromium concentrations are well below their respective EPA Region 9 PRG cleanup levels for industrial soil. VOCs and SVOCs were non-detect in the soil sample collected from test pit TP-3. No additional soil investigation or cleanup in this locality appears warranted at this time.

7.2.3 Former Oil Houses

The following constituents were detected in soil samples collected from test pits TP-4 and/or TP-5 excavated at the locations of the former oil houses: diesel (ranging from 25,800 to 28,600 mg/Kg); lube oil (ranging from 7,450 to 9,810 mg/Kg); 2-hexanone (ranging from 0.0713 to 0.221 mg/Kg); 1,4-dichlorobenzene (ranging from 0.469 to 2.76 mg/Kg); 2-butanone (0.201 mg/Kg); acetone (ranging from 1.26 to 11.4 mg/Kg); carbon disulfide (0.0684 mg/Kg); chlorobenzene (0.011 mg/Kg); toluene (0.0162 mg/Kg); total xylenes (0.0593 mg/Kg); naphthalene (ranging from 0.18 to 21.7 mg/Kg); 2-methylnaphthalene (1.5 mg/Kg); 3-&4-methylphenol (ranging from 5.75 to 61.7 mg/Kg); phenol (ranging from 53.6 to 140 mg/Kg); arsenic (14.9 mg/Kg); barium (ranging from

21.8 to 51.3 mg/Kg); cadmium (0.102 mg/Kg); chromium (ranging from 1.11 to 2.8 mg/Kg); lead (11.0 mg/Kg); and mercury (0.0336 mg/Kg).

The detected diesel concentrations in soil samples collected from test pits TP-4 and TP-5 are above the generic RBC cleanup level for the *construction worker soil ingestion, dermal contact, and inhalation* exposure pathway (23,000 mg/Kg). The detected arsenic concentrations in soil samples collected from test pits TP-4 and TP-5 are above the EPA Region 9 PRG cleanup level for industrial soil (1.6 mg/Kg). The DEQ has determined that the maximum background soil concentration of arsenic in Oregon is 12 ± 2.84 mg/Kg (DEQ, 1994). Arsenic concentrations detected in soil samples collected from test pits TP-4 and TP-5 are comparable to the above background concentration. The detected concentrations of the remaining constituents are well below their applicable generic RBC or EPA Region 9 PRG cleanup levels.

Recommendations for the area east and north of the large warehouse in general, which includes the former oil houses and former glue factory, have been made in Section 7.2.6.

7.2.4 Former Glue Factory

Test pits TP-8, TP-9, and TP-10 were excavated in the area of the former glue factory. Petroleum hydrocarbons were non-detect in soil samples collected from test pits TP-8 and TP-9. The following constituents were detected in a soil sample collected from test pit TP-10: diesel (30.1 mg/Kg); lube oil (141 mg/Kg); methylene chloride (0.0938 mg/Kg); benzoic acid (0.678 mg/Kg); bis(2-ethylhexyl)pthalate (6.09 mg/Kg); di-n-octylpthalate (0.284 mg/Kg); barium (20.9 mg/Kg); chromium (4.46 mg/Kg); lead (7.88 mg/Kg); and mercury (0.028 mg/Kg). The detected constituent concentrations are well below their applicable generic RBC or EPA Region 9 PRG cleanup levels.

7.2.5 Other Locations

Test pits TP-6 and TP-7 were excavated northeast of the large warehouse. Petroleum hydrocarbons were non-detect in a soil sample collected from test pit TP-6. Arsenic (2.33 mg/Kg), barium (28.8 mg/Kg), chromium (9.77 mg/Kg), lead (14.9 mg/Kg), and mercury (0.0198 mg/Kg) were detected in the soil sample collected from test pit TP-6. The following constituents were detected in a soil sample collected from test pit TP-7: 1,1,1-trichloroethane (6.27 mg/Kg); 1,1-dichloroethene (0.256 mg/Kg); tetrachloroethene (0.0371 mg/Kg); trichloroethene (0.0782 mg/Kg); and bis(2-ethylhexyl)pthalate (1.15 mg/Kg). The detected arsenic concentration in the soil sample

collected from test pit TP-6 is slightly above the EPA Region 9 PRG cleanup level for industrial soil; however, the detected arsenic concentration is well below the maximum background soil concentration of arsenic in Oregon as discussed in Section 7.2.3.

7.2.6 Recommendations for the Area North and East of the Large Warehouse

Black fibrous material of unknown source; and viscous sludges and oily liquids of unknown origin or composition, with an extremely strong, undetermined odor were found beneath the buried concrete pad (foundation of the former oil houses) in test pits TP-4 and TP-5. In test pit TP-7, two corroded, buried drums with undetermined contents were found. In test pit TP-10, green rubbery material, possibly related to the former glue factory or some other unknown source, was found. Kleinfelder recommends that additional laboratory testing be performed to identify the above substances so that they can be adequately characterized for safe handling and for potential disposal purposes. The potential analyses to be performed are being discussed with the laboratory, and specific analyses have yet to be determined. These analyses could potentially cost an additional $1,000 to $2,000.

Additional work should be performed to excavate the buried drums and debris, and investigate the remaining magnetic anomalies. This work will facilitate removal of the metallic debris from the subsurface, collection of buried containers for subcontractor disposal, and a better estimate of potential soil, sludge, and debris that may require excavation and disposal at an approved landfill facility. The additional cost for this work is estimated to be $2,500 to $3,500; and may vary depending on the additional laboratory analyses performed and any subsequent special handling or other considerations that may be required for the unknown sludge(s), oily liquids, fibrous materials, etc.

8.0 REFERENCES

Kleinfelder, Inc., 2006, Phase I Environmental Site Assessment, City of Troutdale & Eastwind Development LLC Parcels, 410, 320, & 302 NW 257th Way/NE Harlow Road, Tax Lots 400, 500, 100, & 600, Troutdale, Oregon, Kleinfelder Project No. 63608-A01, January 5, 2006.

Oregon Department of Environmental Quality (DEQ), 1994, Soil Cleanup Manual, under OAR 340-122-045 and 046, Waste Management and Cleanup Division, April 1994.

Oregon Department of Environmental Quality (DEQ), 2003, Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites, under OAR 340-122-0205 through 340-122-0360: Land Quality Division, Environmental Cleanup and Tanks Program.

Rapp, E.K., 2005, The Holocene Stratigraphy of the Sandy River Delta, Oregon, MS Thesis, Portland State University, unpublished.

U.S. Environmental Protection Agency (EPA), 2004, Region 9 Preliminary Remediation Goals (PRGs), Solid and Hazardous Waste Programs.

U.S. Geological Survey, 1975, Camas Quadrangle, Oregon and Washington, 7.5 Minute Topographic Series, scale 1:24,000.

9.0 LIMITATIONS

Kleinfelder has performed this work in accordance with the generally accepted standards of care that exist in the state of Oregon at the time of this 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 report. Our assessment of the property may also change as new data becomes available during additional site exploration, remediation, or development.

Since site 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 City of Troutdale, Eastwind Development, and the DEQ, and only for the purposes stated within a reasonable time from its issuance, but in no event later than one year from the date of the report. Land or facility use, on- and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the City of Troutdale, Eastwind Development, and the DEQ who wishes to use this report shall notify Kleinfelder of such intended use. 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 City of Troutdale, Eastwind Development or anyone else will release Kleinfelder from any liability resulting

from the use of this report by any unauthorized party and the City of Troutdale and Eastwind Development agree to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

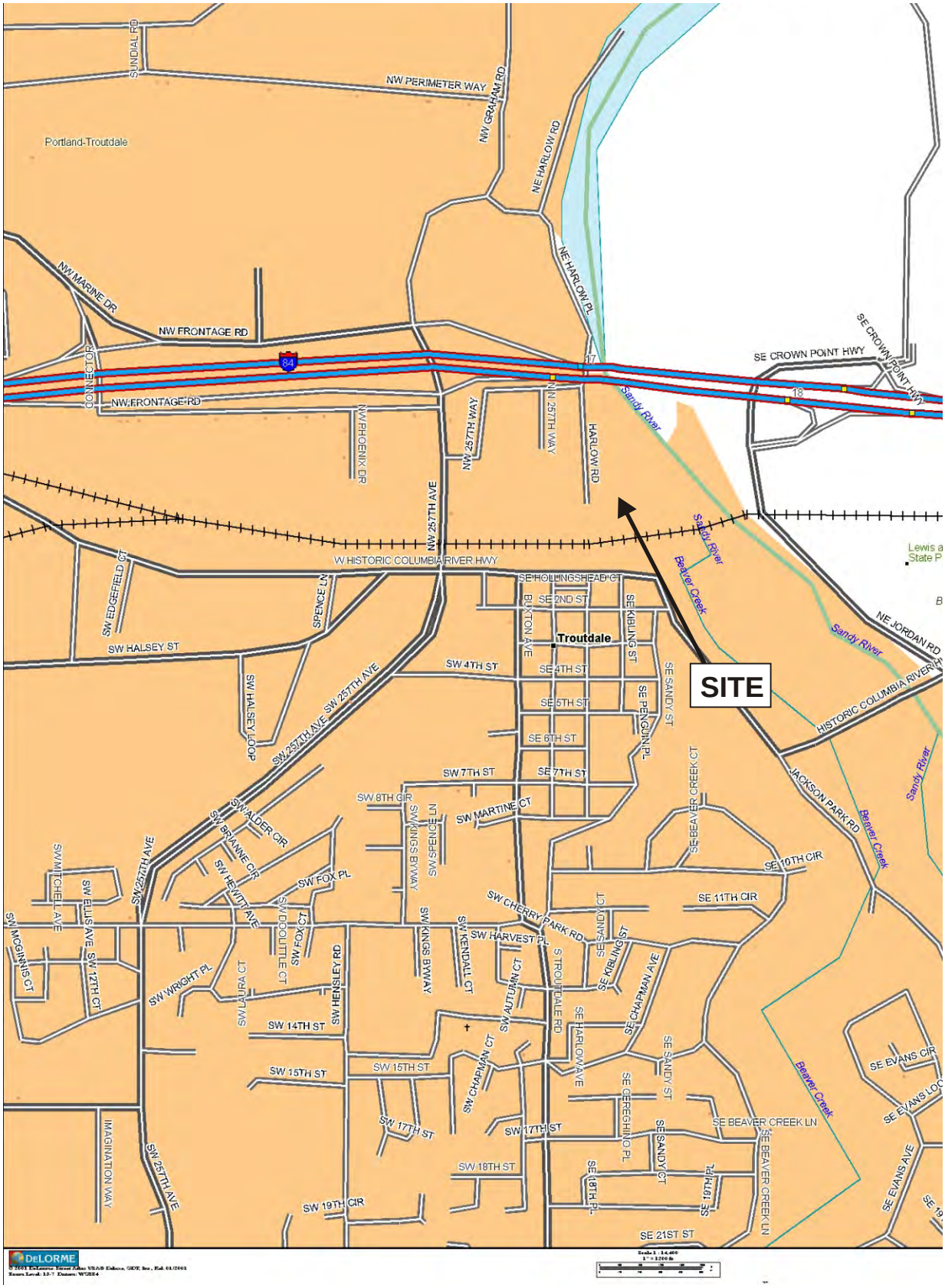
No warranty, expressed or implied, is made.

10.0 PROFESSIONAL AUTHENTICATION

This report has been prepared and reviewed by the undersigned. This report is void if original seal and signature are not present.

ORIGINAL SIGNED & STAMPED BY:

Lon R. Yandell, R.G.
Principal Geologist
Environmental Department Manager



KLEINFELDER

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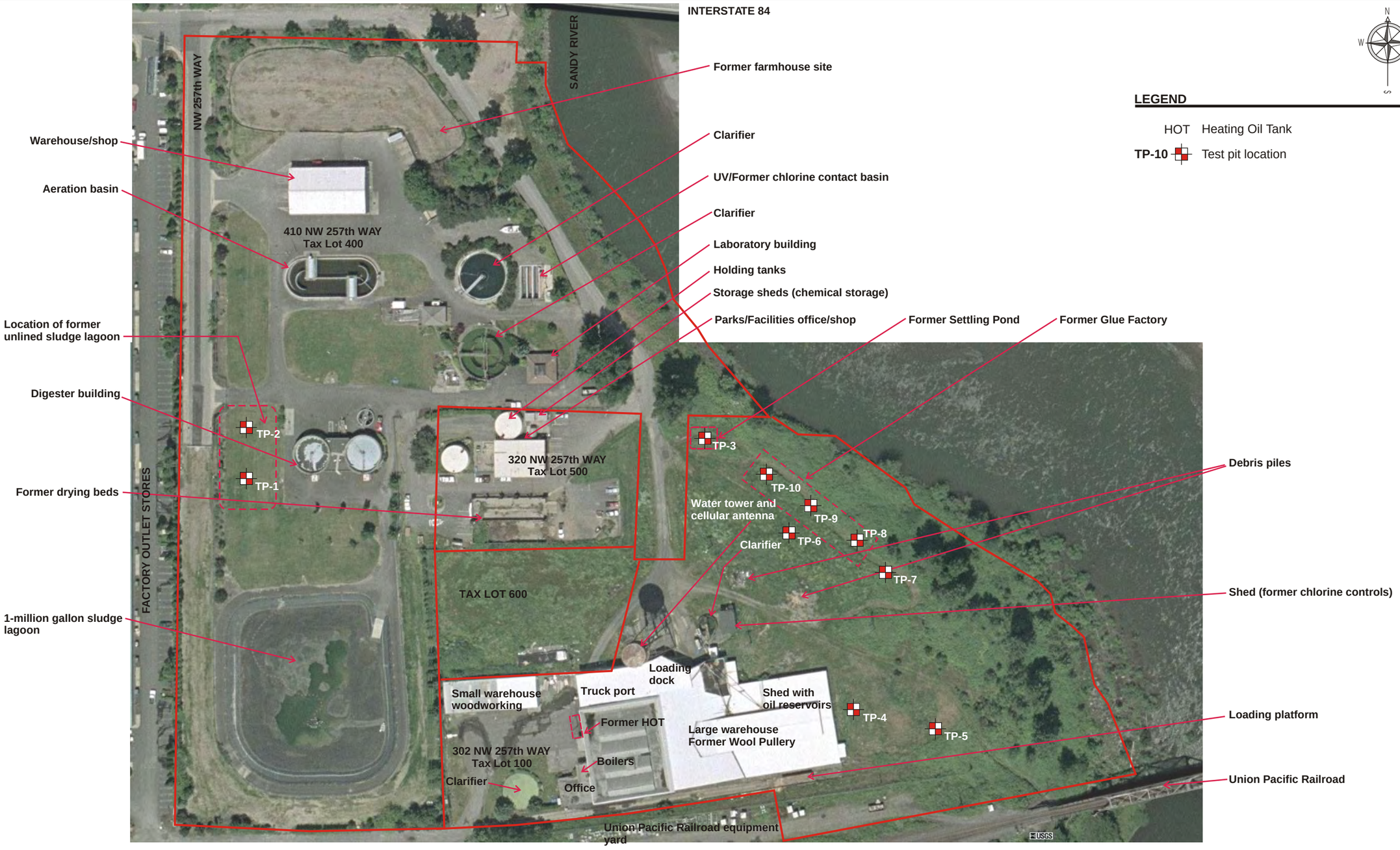
SITE LOCATION MAP
CITY OF TROUTDALE & EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY/NE HARLOW ROAD
TROUTDALE, OREGON

Project # 63608-B01

FIGURE 1



N
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LEGEND

HOT Heating Oil Tank

TP-10 Test pit location

REF: 2002 aerial photograph, Terraserver-USA.com.
Lot lines are approximate.

KLEINFELDER

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SITE MAP
CITY OF TROUTDALE & EASTWIND DEVELOPMENT LLC PROPERTIES
410, 320, & 302 NW 257th WAY/NE HARLOW ROAD
TROUTDALE, OREGON

Project # 63608-D01

FIGURE 2

APPENDIX A

TEST PIT LOGS

(SEE ORIGINAL BOUND REPORT)

GeoPotential

ENVIRONMENTAL & EXPLORATION GEOPHYSICS

22323 East Wild Fern Lane, Brightwood, Oregon 97011 • PH (503) 622-0154 • FAX (503) 622-0526
E-Mail: GeoPotential@aol.com

SUMMARY REPORT

SUBSURFACE MAPPING SURVEY TO DETECT BUILDING FOUNDATIONS AND METALLIC OBJECTS

FORMER UNION MEAT COMPANY ABATTOIR
302 NW 257TH WAY
TROUTDALE, OREGON

CLIENT:

Kleinfelder
15050 SW Koll Parkway, Suite L
Beaverton, Oregon 97006

March 16, 2006

GeoPotential Project Number 7490

CONTENTS

FIGURES

SUMMARY

A geophysical survey was conducted near the former City of Troutdale water treatment facility. The survey area was historically occupied by the slaughterhouse of Union Meat Company.

A magnetometer survey was conducted in order to detect metallic debris that could be remnants of the foundations of three buildings historically occupying the site, as well as to detect possible drums. Several anomalies were detected with this survey and were investigated with hand-held instruments. Several anomalies were investigated with a backhoe. Most of the anomalies appear to be caused by miscellaneous metallic debris. One anomaly in the southeast corner of the site is typical of a reinforced pad. Hand-held instrument investigation of this anomaly showed that this is probably an area of scattered metallic debris rather than a reinforced concrete pad.

INTRODUCTION

Subsurface mapping surveys are geophysical surveys utilizing geophysical methods and data to detect and locate natural and manmade subsurface features.

A Geonics EM-61 Metal Detector was originally proposed for this survey. This instrument is wheel-driven and because of the uneven ground surface and surface vegetation a Geometrics G-858 Cesium magnetometer was used in its place. The magnetometer is time driven and does not depend upon the rotation of a wheel to collect data. Both instruments are excellent at detecting buried ferrous objects including building foundations, metal tanks and buried drums.

Once suspicious magnetic anomalies are detected, small hand-held metal detectors are used to locate the peaks and edges of the magnetic anomalies.

SURVEY OBJECTIVES

The primary objective of this survey was to detect possible foundations of two former "oil houses" and a large building, all supposedly located to the northeast of the large warehouse located on 302 NW 257th Way. A secondary objective was to detect possible waste drums on the site.

SURVEY SITE

The survey was conducted at the soil-covered area east and north of the large warehouse, located at 302 NW 257th Way, in Troutdale, Oregon (Figure 1).

The area surveyed was approximately 1.2 acres. The site was slightly undulating with some mounds of soil, trees and recently cleared berry bushes. The bushes were cut and flattened, making the ground surface difficult to walk on. The survey site was relatively clear of large surface objects that could interfere with the effectiveness of the magnetic survey. Large metal surface features produce magnetic "noise" that can make the interpretation of magnetic data difficult or impossible. Buried objects of interest located within several feet of a large surface object can be missed. At this site, the warehouse building and power poles created magnetic interference. Other surface features included a debris pile, trees and berry bushes. No surface features indicated the existence of foundations.

TIMING

Jeff Mann and Nikos Tzetos conducted the fieldwork for GeoPotential on March 16, 2006. Messrs. Shawn Rapp and Dominic Norman of Kleinfelder coordinated and the fieldwork.

The report was written by Nikos Tzetos, reviewed by Jeff Mann and emailed in PDF format to Kleinfelder on March 21, 2006.

SURVEY EQUIPMENT AND LIMITATIONS

The following geophysical instruments were used to conduct the survey:

- GEOMETRICS G-858 CESIUM MAGNETOMETER (MAGNETIC SURVEY)
- AQUA -TRONICS A6 ELECTROMAGNETIC TRACER (EMA6 SURVEY)
- SCHONSTEDT GA92XTd MAGNETIC GRADIOMETER (GA92 SURVEY)

This equipment and the procedures used to meet the survey objectives of this project have been proven effective in detecting natural metallic ore bodies and manmade objects such as utilities, USTs and metallic debris.

A magnetometer is a very sensitive electronic instrument capable of detecting minute changes in the earth's local magnetic field. These "magnetic anomalies" are caused by **ferrous** (iron-bearing) objects on or below the ground surface. Surface objects can make the interpretation of a magnetometer survey difficult. A buried object of interest may be missed if it is too close to a large metallic surface object. Common surface objects that present interpretation problems include vehicles, buildings and fences.

The Tracer and Schonstedt hand-held metal detectors are used to locate the peaks of the magnetic anomalies and the edges of buried metallic objects. The Tracer is also excellent at detecting conductive utilities. The Tracer cannot detect non-conductive pipes and utilities however.

Geophysical techniques are excellent at detecting changes in the subsurface caused by natural and manmade objects; however, they are poor at actually identifying subsurface features. Complementary methods may be used to assist in the interpretation; however, the only sure way of identifying a buried feature is by excavation.

PROCEDURE

It was initially proposed to proceed with an electromagnetic survey (EM61) to investigate three separate areas. After inspecting the site it was decided that the undulating surface, covered with thorny "stubble" would be problematic for the EM61 antennas. In addition, the inherently faster magnetic method was chosen since the survey area had to be expanded because the three areas of interest could not be accurately located.

A right-hand orthogonal survey grid was established on the site using a measuring wheel and tapes. The origin (0,0) of the survey grid was located at the southwestern corner of the site, as shown in Figure 2. All geographic features shown on the accompanying map are measured from the origin.

Magnetic data were collected automatically at approximately 6-inch intervals along parallel traverses measured to be 5 feet apart. Data were downloaded to a laptop computer and processed in the field. Lastly, a contour map of the data was printed.

Figure 2 is a colored magnetic contour map contoured at an interval of 100 nT, an interval sufficient to detect rebar in concrete and other foundation debris. Magnetic "lows" are generally caused by objects located above the magnetometer sensor (normally carried about 3 feet high) and are shown in blue, and may also be hachured. At this site magnetic "lows" are produced by the warehouse building and the power poles and their supports. Magnetic "highs", shown in red, are generally produced by ferrous objects below the sensor and are of most importance since pipes, foundation debris, utilities and drums produce magnetic highs. A "high/low" pair of anomalies may be produced by buried objects depending upon the size, shape, and orientation of the buried object with respect to the earth's local magnetic field, and the depth of burial

of the object. Not all magnetic lows are shown in blue. The transition point from high (red) to low (blue) is arbitrary and can be adjusted. Its main use is to differentiate between highs and lows.

Anomalies produced by buried metallic objects were located on the site using a measuring wheel and were labeled on the contour map for further exploration using the other geophysical instruments. The magnetic anomaly peaks and the edges of the buried metallic objects causing them were then located using the Tracer and Schonstedt hand-held metal detectors.

A backhoe was available to excavate anomalous areas.

RESULTS

The Sanborne Maps provided by Kleinfelder showed several of the old slaughterhouse buildings dating back to circa 1900, including the "target" buildings. The more up to date aerial photographs showed newer buildings including the existing warehouse. Unfortunately, possible landmarks that could be used to locate the approximate locations of the "target" buildings could not be identified and the scope of the survey was altered to include a larger area. It is possible that the "target" building foundations are located outside of the survey site.

Eleven magnetic anomalies were detected with the survey and are shown in Figure 2 as A to K. Results were marked on the surface with orange flags. Based upon the magnetic survey and handheld instruments, no obvious foundation anomalies were detected with this survey.

Magnetic anomaly A is interpreted to be caused by a small metallic object that may be a drum or other metallic debris.

Magnetic anomaly B is located north of A and is also interpreted to be caused by a small metallic object. It is located within an approximately 80-foot by 50-foot area containing conductive metal (non-ferrous) discovered with the Tracer. Later excavation of B unearthed a concrete pad overlaying a malodorous soil zone also containing oil. It is believed that this may be the location of one of the two "oil houses".

Magnetic anomaly C was also determined to be within a conductive zone although smaller than B, which when excavated, showed similar characteristics without the oil.

Magnetic anomaly D is within an anomalous zone that shows abrupt edges and has the characteristic anomaly pattern of a reinforced pad; however, when explored with the Tracer, this zone did not appear to be a pad, but appeared to be composed of numerous distinct metallic objects. When investigated with the Schonstedt hand-held magnetic gradiometer it appeared to be a pad. It is possible that this area is a broken up foundation pad or a debris zone.

Anomalies E, G H and I appear to be caused by small metallic objects that may be debris or drums.

Anomaly F is interpreted to be caused by a metallic debris zone. It was excavated during this survey and was found to be caused by scattered drywall nails.

Anomaly J appeared scattered with the hand-held instruments and did not show a definite shape with the Tracer. It is interpreted to be caused by small and scattered metallic objects.

Anomaly K also appeared to contain scattered metallic objects with the handheld instruments, showing one distinct magnetic high peak and a separate Tracer high peak. When excavated during the survey, it appeared to be caused by miscellaneous metallic debris, and possibly pieces of a crushed drum under the Tracer high peak.

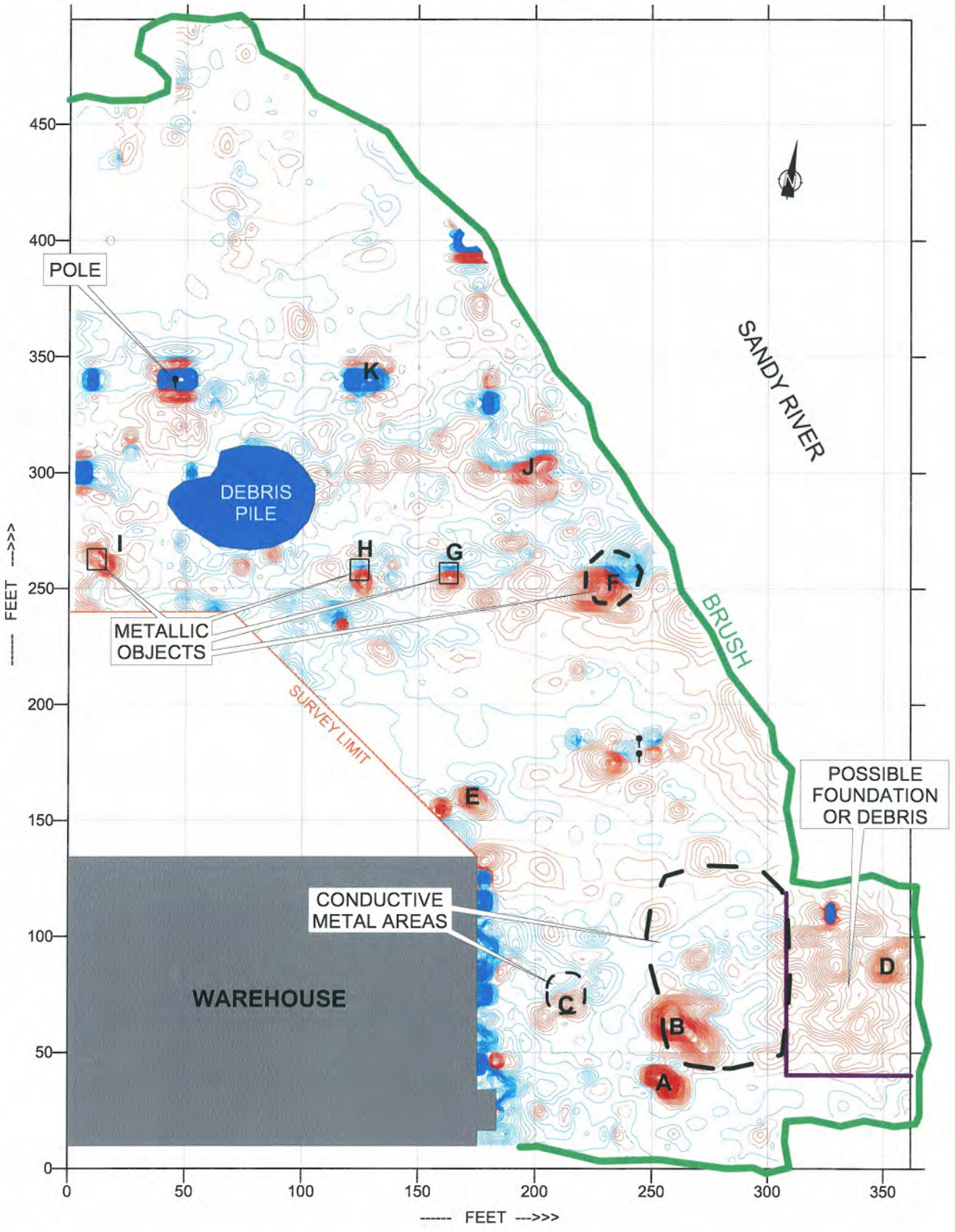
LIMITATIONS

Geophysical surveys consist of interpreting geophysical responses from subsurface features. Since a variety of subsurface features can produce identical geophysical responses, it is necessary to confirm the geophysical interpretation with intrusive investigations such as excavating or drilling. In addition, many subsurface features may produce no geophysical response. The use of this subsurface mapping survey is the sole responsibility of the client.

Ralph Soule **March 2006**
GeoPotential

Nikos Tzetos **March 2006**
GeoPotential

GeoPotential ENVIRONMENTAL & EXPLORATION GEOPHYSICS 22323 East Wild Fern Lane, Brightwood, Oregon 97011• PH (503) 622-0154• FAX (503) 622-0526 E-Mail: GeoPotential@aol.com	LOCATION: FORMER UNION MEAT CO. ABATTOIR 302 NW 257th Way Troutdale, Oregon	FIGURE 1. SURVEY LOCATION MAP
DATE: March 16, 2006 SUBSURFACE MAPPING SURVEY PROJECT No. 7490	CLIENT: Kleinfelder	



GeoPotential ENVIRONMENTAL & EXPLORATION GEOPHYSICS 22323 East Wild Fern Lane, Brightwood, Oregon 97011• PH (503) 622-0154• FAX (503) 622-0526 E-Mail: GeoPotential@aol.com	LOCATION: FORMER UNION MEAT CO. ABATTOIR 302 NW 257th Way Troutdale, Oregon	FIGURE 2. MAGNETIC AND INTERPRETATION MAP (C. I. = 100 nT)
DATE: March 16, 2006 SUBSURFACE MAPPING SURVEY PROJECT No. 7490	CLIENT: Kleinfelder	

APPENDIX
MAGNETOMETER SURVEYS

The earth's magnetic field, measured in "nano Teslas" (nT), behaves like a bar magnet, with the strongest magnetic field located at the poles, and the weakest field located near the equator. In the United States, the average field intensity varies widely; however, the average value is about 50,000 NT. Also, like the magnetic field around the bar magnet, the earth's magnetic field is inclined. This inclination varies between 60 and 75 degrees, generally depending upon the latitude of the measuring location. The earth's magnetic field varies constantly and, during sunspot activity, quite dramatically. A magnetometer is an electronic device that measures the intensity of the earth's magnetic field.

Naturally occurring geologic features and buried ferrous metal objects such as underground storage tanks, drums, ordnance, pipes and debris filled trenches produce both horizontal and vertical disturbances to the earth's local magnetic field. The objects causing these "anomalies" can be detected quickly and reliably using portable magnetometers.

The intensity of an anomaly is a function of the mass, size and depth of burial of the object. As a rule of thumb, single drums buried several feet below the surface produce anomalies of about 200 nT relative to the normal undisturbed background and can be detected at a horizontal distance of about 15 feet, while large caches of drums can produce anomalies of many thousands of nT and may be detectable 50 feet away.

Magnetometers generally measure horizontal variations in the local magnetic field. A magnetic gradiometer is a variant of the magnetometer that measures both the horizontal and the vertical magnetic field at each survey point. It consists of two identical sensors located vertically on a staff and having a fixed separation. The intensity of the magnetic field caused by a buried metal object varies inversely with the distance between the object and the sensor. The relative intensities measured simultaneously at each sensor are used to determine the relative depth of burial of an object.

Relative depth estimates of buried metal objects can be made using a single sensor. In general, for a given mass object, the deeper the object is buried, the lower the amplitude and the wider the anomaly. Shallowly buried objects produce higher amplitude anomalies with closely spaced contour lines.

Magnetic surveys can only detect **ferrous metal** objects and cannot be used to identify the buried object. Estimates of the total mass of a buried object are difficult due to the physical properties of the object and other factors. Interference caused by observed surface metal objects limits the accuracy of the survey. The anomalies produced by fences, power lines, cars and buildings can easily mask the anomaly caused by an underground target.

Magnetic surveys are cost effective. Using the standard "step and wait" magnetometer, data from approximately 1000 points can be obtained in one field day corresponding to between 1 acre and about 5 acres depending on site conditions and survey goals. More modern cesium magnetometers collect up to 10 readings per second continuously, thus the operator can proceed without stopping. Many modern magnetometers use an audible signal to call attention to anomalous data as it is obtained. At some sites metallic objects can be detected and marked in the field at the time of the survey.

The use of a second, automatically recording "base station" magnetometer is highly recommended due to temporal variations in the earth's magnetic field. These changes must be removed from the field data before an accurate interpretation can be made, particularly when searching for small-buried objects.

Magnetic data are most commonly presented in two contour maps. The TOTAL MAGNETIC FIELD CONTOUR MAP shows the horizontal magnetic field and, therefore, the areal extent of anomalies. The GRADIOMETER CONTOUR MAPS show the vertical magnetic field and indicate the relative depth of burial of the objects causing those anomalies. Color versions of these maps may be produced showing only the magnetic highs and lows.

Specialty Analytical

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(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

May 02, 2006

Shawn Rapp
Kleinfelder, Inc.
15050 S.W. Koll Parkway
Suite L
Beaverton, OR 97006

TEL: (503) 644-9447
FAX (503) 643-1905

RE: City of Troutdale

Dear Shawn Rapp:

Order No.: 0603087

Specialty Analytical received 16 samples on 3/20/2006 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	HOT-N-7
Lab Order:	0603087	**Collection Date:**	3/16/2006 10:20:00 AM
Project:	City of Troutdale		
Lab ID:	0603087-01	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **mkh**
Diesel	ND	20.2		mg/Kg-dry	1	3/22/2006
Lube Oil	ND	67.4		mg/Kg-dry	1	3/22/2006
Surr: o-Terphenyl	94.5	50-150		%REC	1	3/22/2006

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	HOT-S-7
Lab Order:	0603087	**Collection Date:**	3/16/2006 10:25:00 AM
Project:	City of Troutdale		
Lab ID:	0603087-02	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **mkh**
Diesel	ND	19.6		mg/Kg-dry	1	3/22/2006
Lube Oil	ND	65.4		mg/Kg-dry	1	3/22/2006
Surr: o-Terphenyl	65.1	50-150		%REC	1	3/22/2006

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-1@5
Lab Order: 0603087
Collection Date: 3/16/2006 11:53:00 AM
Project: City of Troutdale
Lab ID: 0603087-03
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	ND	1.96		mg/Kg	1	3/21/2006 2:40:16 PM
Barium	5.02	0.980		mg/Kg	1	3/21/2006 2:40:16 PM
Cadmium	ND	0.0980		mg/Kg	1	3/21/2006 2:40:16 PM
Chromium	4.91	0.490		mg/Kg	1	3/21/2006 2:40:16 PM
Lead	ND	1.96		mg/Kg	1	3/21/2006 2:40:16 PM
Selenium	ND	1.96		mg/Kg	1	3/21/2006 2:40:16 PM
Silver	ND	1.96		mg/Kg	1	3/21/2006 2:40:16 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	ND	0.0139		mg/Kg	1	3/21/2006
COLIFORM BACTERIA - SOLIDS		**EPA/503D**				Analyst: **jrp**
e. Coli	ND		HT	MPN/g-dry	1	3/21/2006
COLIFORM, FECAL		**SM9222D**				Analyst: **jrp**
Fecal Coliform	ND	2.28	HT	MPN/g-dry	1	3/21/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
1,2-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
1,3-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
1,4-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
2,4,5-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
2,4,6-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
2,4-Dichlorophenol	ND	200		µg/Kg	1	3/21/2006 5:21:00 PM
2,4-Dimethylphenol	ND	200		µg/Kg	1	3/21/2006 5:21:00 PM
2,4-Dinitrophenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
2,4-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
2,6-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
2-Chloronaphthalene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
2-Chlorophenol	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
2-Methylnaphthalene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
2-Methylphenol	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM
2-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
2-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
3,3-Dichlorobenzidine	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
3-&4-Methylphenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
3-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
4,6-Dinitro-2-methylphenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
4-Bromophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
4-Chloro-3-methylphenol	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM
4-Chloroaniline	ND	200		µg/Kg	1	3/21/2006 5:21:00 PM
4-Chlorophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-1@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 11:53:00 AM
Project:	City of Troutdale		
Lab ID:	0603087-03	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
4-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
4-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
Acenaphthene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Acenaphthylene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Anthracene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Benz(a)anthracene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Benzo(a)pyrene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Benzo(b)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Benzo(g,h,i)perylene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Benzo(k)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Benzoic Acid	ND	667		µg/Kg	1	3/21/2006 5:21:00 PM
Benzyl Alcohol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
Bis(2-chloroethoxy)methane	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Bis(2-chloroethyl)ether	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM
Bis(2-chloroisopropyl)ether	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Bis(2-ethylhexyl)phthalate	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Butyl benzyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Carbazole	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Chrysene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Di-n-butyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Di-n-octyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Dibenz(a,h)anthracene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Dibenzofuran	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Diethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Dimethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Fluorene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Hexachlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Hexachlorobutadiene	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM
Hexachlorocyclopentadiene	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
Hexachloroethane	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM
Indeno(1,2,3-cd)pyrene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Isophorone	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
N-Nitrosodi-n-propylamine	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM
N-Nitrosodimethylamine	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
N-Nitrosodiphenylamine	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Naphthalene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Nitrobenzene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Pentachlorophenol	ND	333		µg/Kg	1	3/21/2006 5:21:00 PM
Phenanthrene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Phenol	ND	133		µg/Kg	1	3/21/2006 5:21:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-1@5
Lab Order: 0603087
Collection Date: 3/16/2006 11:53:00 AM
Project: City of Troutdale
Lab ID: 0603087-03
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Pyrene	ND	66.7		µg/Kg	1	3/21/2006 5:21:00 PM
Surr: 2,4,6-Tribromophenol	25.4	57.8-119	S,MI	%REC	1	3/21/2006 5:21:00 PM
Surr: 2-Fluorobiphenyl	25.8	52.6-93.2	S,MI	%REC	1	3/21/2006 5:21:00 PM
Surr: 2-Fluorophenol	49.0	40.7-111		%REC	1	3/21/2006 5:21:00 PM
Surr: 4-Terphenyl-d14	69.6	49.8-118		%REC	1	3/21/2006 5:21:00 PM
Surr: Nitrobenzene-d5	38.6	44.8-103	S,MI	%REC	1	3/21/2006 5:21:00 PM
Surr: Phenol-d6	44.4	47.5-117	S,MI	%REC	1	3/21/2006 5:21:00 PM
HELMINTH OVA CULTURE ASSAY		**E625R92**				Analyst: **sub**
Helminth Ova Culture Assay	Subcontract Report				1	3/24/2006
ENTERIC VIRUS PLAQUE ASSAY		**D4994**				Analyst: **sub**
Enteric Virus Plaque Assay	Subcontract Report		HT		1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-2@4.5
Lab Order: 0603087
Collection Date: 3/16/2006 12:15:00 PM
Project: City of Troutdale
Lab ID: 0603087-04
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	ND	1.61		mg/Kg	1	3/21/2006 2:45:11 PM
Barium	5.05	0.806		mg/Kg	1	3/21/2006 2:45:11 PM
Cadmium	ND	0.0806		mg/Kg	1	3/21/2006 2:45:11 PM
Chromium	4.36	0.403		mg/Kg	1	3/21/2006 2:45:11 PM
Lead	ND	1.61		mg/Kg	1	3/21/2006 2:45:11 PM
Selenium	ND	1.61		mg/Kg	1	3/21/2006 2:45:11 PM
Silver	ND	1.61		mg/Kg	1	3/21/2006 2:45:11 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	ND	0.0152		mg/Kg	1	3/21/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
1,2-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
1,3-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
1,4-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
2,4,5-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
2,4,6-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
2,4-Dichlorophenol	ND	200		µg/Kg	1	3/21/2006 6:25:00 PM
2,4-Dimethylphenol	ND	200		µg/Kg	1	3/21/2006 6:25:00 PM
2,4-Dinitrophenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
2,4-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
2,6-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
2-Chloronaphthalene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
2-Chlorophenol	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
2-Methylnaphthalene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
2-Methylphenol	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
2-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
2-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
3,3-Dichlorobenzidine	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
3-&4-Methylphenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
3-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
4,6-Dinitro-2-methylphenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
4-Bromophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
4-Chloro-3-methylphenol	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
4-Chloroaniline	ND	200		µg/Kg	1	3/21/2006 6:25:00 PM
4-Chlorophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
4-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
4-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
Acenaphthene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Acenaphthylene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Anthracene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-2@4.5
Lab Order: 0603087
Collection Date: 3/16/2006 12:15:00 PM
Project: City of Troutdale
Lab ID: 0603087-04
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Benz(a)anthracene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Benzo(a)pyrene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Benzo(b)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Benzo(g,h,i)perylene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Benzo(k)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Benzoic Acid	ND	667		µg/Kg	1	3/21/2006 6:25:00 PM
Benzyl Alcohol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
Bis(2-chloroethoxy)methane	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Bis(2-chloroethyl)ether	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
Bis(2-chloroisopropyl)ether	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Bis(2-ethylhexyl)phthalate	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Butyl benzyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Carbazole	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Chrysene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Di-n-butyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Di-n-octyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Dibenz(a,h)anthracene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Dibenzofuran	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Diethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Dimethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Fluorene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Hexachlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Hexachlorobutadiene	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
Hexachlorocyclopentadiene	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
Hexachloroethane	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
Indeno(1,2,3-cd)pyrene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Isophorone	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
N-Nitrosodi-n-propylamine	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
N-Nitrosodimethylamine	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
N-Nitrosodiphenylamine	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Naphthalene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Nitrobenzene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Pentachlorophenol	ND	333		µg/Kg	1	3/21/2006 6:25:00 PM
Phenanthrene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Phenol	ND	133		µg/Kg	1	3/21/2006 6:25:00 PM
Pyrene	ND	66.7		µg/Kg	1	3/21/2006 6:25:00 PM
Surr: 2,4,6-Tribromophenol	14.8	57.8-119	S,MI	%REC	1	3/21/2006 6:25:00 PM
Surr: 2-Fluorobiphenyl	21.4	52.6-93.2	S,MI	%REC	1	3/21/2006 6:25:00 PM
Surr: 2-Fluorophenol	42.6	40.7-111		%REC	1	3/21/2006 6:25:00 PM
Surr: 4-Terphenyl-d14	70.5	49.8-118		%REC	1	3/21/2006 6:25:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-2@4.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 12:15:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-04	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Surr: Nitrobenzene-d5	35.0	44.8-103	S,MI	%REC	1	3/21/2006 6:25:00 PM
Surr: Phenol-d6	37.5	47.5-117	S,MI	%REC	1	3/21/2006 6:25:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-3@2.5
Lab Order: 0603087
Collection Date: 3/16/2006 12:40:00 PM
Project: City of Troutdale
Lab ID: 0603087-05
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	ND	1.92		mg/Kg	1	3/21/2006 2:50:07 PM
Barium	21.8	0.962		mg/Kg	1	3/21/2006 2:50:07 PM
Cadmium	ND	0.0962		mg/Kg	1	3/21/2006 2:50:07 PM
Chromium	2.80	0.481		mg/Kg	1	3/21/2006 2:50:07 PM
Lead	ND	1.92		mg/Kg	1	3/21/2006 2:50:07 PM
Selenium	ND	1.92		mg/Kg	1	3/21/2006 2:50:07 PM
Silver	ND	1.92		mg/Kg	1	3/21/2006 2:50:07 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	ND	0.0147		mg/Kg	1	3/21/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
1,2-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
1,3-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
1,4-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
2,4,5-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
2,4,6-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
2,4-Dichlorophenol	ND	200		µg/Kg	1	3/21/2006 7:28:00 PM
2,4-Dimethylphenol	ND	200		µg/Kg	1	3/21/2006 7:28:00 PM
2,4-Dinitrophenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
2,4-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
2,6-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
2-Chloronaphthalene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
2-Chlorophenol	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
2-Methylnaphthalene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
2-Methylphenol	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
2-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
2-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
3,3-Dichlorobenzidine	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
3-&4-Methylphenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
3-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
4,6-Dinitro-2-methylphenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
4-Bromophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
4-Chloro-3-methylphenol	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
4-Chloroaniline	ND	200		µg/Kg	1	3/21/2006 7:28:00 PM
4-Chlorophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
4-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
4-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
Acenaphthene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Acenaphthylene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Anthracene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-3@2.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 12:40:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-05	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Benz(a)anthracene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Benzo(a)pyrene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Benzo(b)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Benzo(g,h,i)perylene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Benzo(k)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Benzoic Acid	ND	667		µg/Kg	1	3/21/2006 7:28:00 PM
Benzyl Alcohol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
Bis(2-chloroethoxy)methane	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Bis(2-chloroethyl)ether	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
Bis(2-chloroisopropyl)ether	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Bis(2-ethylhexyl)phthalate	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Butyl benzyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Carbazole	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Chrysene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Di-n-butyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Di-n-octyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Dibenz(a,h)anthracene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Dibenzofuran	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Diethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Dimethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Fluorene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Hexachlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Hexachlorobutadiene	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
Hexachlorocyclopentadiene	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
Hexachloroethane	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
Indeno(1,2,3-cd)pyrene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Isophorone	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
N-Nitrosodi-n-propylamine	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
N-Nitrosodimethylamine	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
N-Nitrosodiphenylamine	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Naphthalene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Nitrobenzene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Pentachlorophenol	ND	333		µg/Kg	1	3/21/2006 7:28:00 PM
Phenanthrene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Phenol	ND	133		µg/Kg	1	3/21/2006 7:28:00 PM
Pyrene	ND	66.7		µg/Kg	1	3/21/2006 7:28:00 PM
Surr: 2,4,6-Tribromophenol	18.3	57.8-119	S,MI	%REC	1	3/21/2006 7:28:00 PM
Surr: 2-Fluorobiphenyl	22.0	52.6-93.2	S,MI	%REC	1	3/21/2006 7:28:00 PM
Surr: 2-Fluorophenol	40.4	40.7-111	S,MI	%REC	1	3/21/2006 7:28:00 PM
Surr: 4-Terphenyl-d14	73.3	49.8-118		%REC	1	3/21/2006 7:28:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-3@2.5
Lab Order: 0603087
Collection Date: 3/16/2006 12:40:00 PM
Project: City of Troutdale
Lab ID: 0603087-05
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Surr: Nitrobenzene-d5	38.1	44.8-103	S,MI	%REC	1	3/21/2006 7:28:00 PM
Surr: Phenol-d6	37.4	47.5-117	S,MI	%REC	1	3/21/2006 7:28:00 PM
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
1,1,1,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,1,1-Trichloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,1,2,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,1,2-Trichloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,1-Dichloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,1-Dichloroethene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,1-Dichloropropene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2,3-Trichlorobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2,3-Trichloropropane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2,4-Trichlorobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2,4-Trimethylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2-Dibromo-3-chloropropane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2-Dibromoethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2-Dichlorobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2-Dichloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,2-Dichloropropane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,3,5-Trimethylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,3-Dichlorobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,3-Dichloropropane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
1,4-Dichlorobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
2,2-Dichloropropane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
2-Butanone	ND	20.0		µg/Kg	1	3/22/2006 10:12:00 AM
2-Chlorotoluene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
2-Hexanone	ND	20.0		µg/Kg	1	3/22/2006 10:12:00 AM
4-Chlorotoluene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
4-Isopropyltoluene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
4-Methyl-2-pentanone	ND	20.0		µg/Kg	1	3/22/2006 10:12:00 AM
Acetone	ND	50.0		µg/Kg	1	3/22/2006 10:12:00 AM
Benzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Bromobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Bromochloromethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Bromodichloromethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Bromoform	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Bromomethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Carbon disulfide	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Carbon tetrachloride	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Chlorobenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-3@2.5
Lab Order: 0603087
Collection Date: 3/16/2006 12:40:00 PM
Project: City of Troutdale
Lab ID: 0603087-05
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Chloroethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Chloroform	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Chloromethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
cis-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
cis-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Dibromochloromethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Dibromomethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Dichlorodifluoromethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Ethylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Hexachlorobutadiene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Isopropylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
m,p-Xylene	ND	20.0		µg/Kg	1	3/22/2006 10:12:00 AM
Methyl tert-butyl ether	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Methylene chloride	ND	50.0		µg/Kg	1	3/22/2006 10:12:00 AM
n-Butylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
n-Propylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Naphthalene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
o-Xylene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
sec-Butylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Styrene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
tert-Butylbenzene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Tetrachloroethene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Toluene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
trans-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
trans-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Trichloroethene	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Trichlorofluoromethane	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Vinyl chloride	ND	10.0		µg/Kg	1	3/22/2006 10:12:00 AM
Surr: 1,2-Dichloroethane-d4	101	71.5-112		%REC	1	3/22/2006 10:12:00 AM
Surr: 4-Bromofluorobenzene	98.0	75.7-122		%REC	1	3/22/2006 10:12:00 AM
Surr: Dibromofluoromethane	102	64.3-124		%REC	1	3/22/2006 10:12:00 AM
Surr: Toluene-d8	110	74.9-120		%REC	1	3/22/2006 10:12:00 AM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-4@2
Lab Order:	0603087	**Collection Date:**	3/16/2006 4:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-06	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		**PER CLIENT**				Analyst: **ADM**
Hold	Hold			Date	1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-4@3
Lab Order:	0603087	**Collection Date:**	3/16/2006 4:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-07	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		**PER CLIENT**				Analyst: **ADM**
Hold	Hold			Date	1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-4@5
Lab Order: 0603087
Collection Date: 3/16/2006 4:30:00 PM
Project: City of Troutdale
Lab ID: 0603087-08
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **mkh**
Diesel	25800	276	A1	mg/Kg-dry	10	3/24/2006
Lube Oil	7450	921	A2	mg/Kg-dry	10	3/24/2006
Surr: o-Terphenyl	373	50-150	S,MI	%REC	10	3/24/2006
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	14.9	1.85		mg/Kg	1	3/21/2006 2:55:03 PM
Barium	51.3	4.63		mg/Kg	5	3/21/2006 4:29:02 PM
Cadmium	0.102	0.0926		mg/Kg	1	3/21/2006 2:55:03 PM
Chromium	1.11	0.463		mg/Kg	1	3/21/2006 2:55:03 PM
Lead	11.0	1.85		mg/Kg	1	3/21/2006 2:55:03 PM
Selenium	ND	1.85		mg/Kg	1	3/21/2006 2:55:03 PM
Silver	ND	1.85		mg/Kg	1	3/21/2006 2:55:03 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	ND	0.0157		mg/Kg	1	3/21/2006
COLIFORM BACTERIA - SOLIDS		**EPA/503D**				Analyst: **jrp**
e. Coli	ND		HT	MPN/g-dry	1	3/21/2006
COLIFORM, FECAL		**SM9222D**				Analyst: **jrp**
Fecal Coliform	ND	36.8	HT	MPN/g-dry	10	3/21/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
1,2-Dichlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
1,3-Dichlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
1,4-Dichlorobenzene	793	667		µg/Kg	1	3/22/2006 11:23:00 AM
2,4,5-Trichlorophenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
2,4,6-Trichlorophenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
2,4-Dichlorophenol	ND	2000		µg/Kg	1	3/22/2006 11:23:00 AM
2,4-Dimethylphenol	ND	2000		µg/Kg	1	3/22/2006 11:23:00 AM
2,4-Dinitrophenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
2,4-Dinitrotoluene	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
2,6-Dinitrotoluene	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
2-Chloronaphthalene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
2-Chlorophenol	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
2-Methylnaphthalene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
2-Methylphenol	ND	1330		µg/Kg	1	3/22/2006 11:23:00 AM
2-Nitroaniline	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
2-Nitrophenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
3,3-Dichlorobenzidine	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
3-&4-Methylphenol	5750	3330		µg/Kg	1	3/22/2006 11:23:00 AM
3-Nitroaniline	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM

CLIENT: Kleinfelder, Inc. **Client Sample ID:** TP-4@5
Lab Order: 0603087 **Collection Date:** 3/16/2006 4:30:00 PM
Project: City of Troutdale
Lab ID: 0603087-08 **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
4,6-Dinitro-2-methylphenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
4-Bromophenyl phenyl ether	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
4-Chloro-3-methylphenol	ND	1330		µg/Kg	1	3/22/2006 11:23:00 AM
4-Chloroaniline	ND	2000		µg/Kg	1	3/22/2006 11:23:00 AM
4-Chlorophenyl phenyl ether	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
4-Nitroaniline	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
4-Nitrophenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
Acenaphthene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Acenaphthylene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Anthracene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Benz(a)anthracene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Benzo(a)pyrene	ND	5340	Q	µg/Kg	8	3/22/2006 1:30:00 PM
Benzo(b)fluoranthene	ND	5340	Q	µg/Kg	8	3/22/2006 1:30:00 PM
Benzo(g,h,i)perylene	ND	5340	Q	µg/Kg	8	3/22/2006 1:30:00 PM
Benzo(k)fluoranthene	ND	5340	Q	µg/Kg	8	3/22/2006 1:30:00 PM
Benzoic Acid	ND	6670		µg/Kg	1	3/22/2006 11:23:00 AM
Benzyl Alcohol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
Bis(2-chloroethoxy)methane	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Bis(2-chloroethyl)ether	ND	1330		µg/Kg	1	3/22/2006 11:23:00 AM
Bis(2-chloroisopropyl)ether	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Bis(2-ethylhexyl)phthalate	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Butyl benzyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Carbazole	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Chrysene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Di-n-butyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Di-n-octyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Dibenz(a,h)anthracene	ND	5340	Q	µg/Kg	8	3/22/2006 1:30:00 PM
Dibenzofuran	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Diethyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Dimethyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Fluoranthene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Fluorene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Hexachlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Hexachlorobutadiene	ND	1330		µg/Kg	1	3/22/2006 11:23:00 AM
Hexachlorocyclopentadiene	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
Hexachloroethane	ND	1330		µg/Kg	1	3/22/2006 11:23:00 AM
Indeno(1,2,3-cd)pyrene	ND	5340	Q	µg/Kg	8	3/22/2006 1:30:00 PM
Isophorone	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
N-Nitrosodi-n-propylamine	ND	1330		µg/Kg	1	3/22/2006 11:23:00 AM
N-Nitrosodimethylamine	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
N-Nitrosodiphenylamine	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-4@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 4:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-08	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Naphthalene	20300	667		µg/Kg	1	3/22/2006 11:23:00 AM
Nitrobenzene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Pentachlorophenol	ND	3330		µg/Kg	1	3/22/2006 11:23:00 AM
Phenanthrene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Phenol	53600	10600		µg/Kg	8	3/22/2006 1:30:00 PM
Pyrene	ND	667		µg/Kg	1	3/22/2006 11:23:00 AM
Surr: 2,4,6-Tribromophenol	71.3	57.8-119		%REC	1	3/22/2006 11:23:00 AM
Surr: 2-Fluorobiphenyl	83.5	52.6-93.2		%REC	1	3/22/2006 11:23:00 AM
Surr: 2-Fluorophenol	75.4	40.7-111		%REC	1	3/22/2006 11:23:00 AM
Surr: 4-Terphenyl-d14	106	49.8-118		%REC	1	3/22/2006 11:23:00 AM
Surr: Nitrobenzene-d5	76.4	44.8-103		%REC	1	3/22/2006 11:23:00 AM
Surr: Phenol-d6	51.1	47.5-117		%REC	1	3/22/2006 11:23:00 AM
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
1,1,1,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,1,1-Trichloroethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,1,2,2-Tetrachloroethane	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,1,2-Trichloroethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,1-Dichloroethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,1-Dichloroethene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,1-Dichloropropene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,2,3-Trichlorobenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,2,3-Trichloropropane	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,2,4-Trichlorobenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,2,4-Trimethylbenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,2-Dibromo-3-chloropropane	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,2-Dibromoethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,2-Dichlorobenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,2-Dichloroethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,2-Dichloropropane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,3,5-Trimethylbenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,3-Dichlorobenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
1,3-Dichloropropane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
1,4-Dichlorobenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
2,2-Dichloropropane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
2-Butanone	ND	200	Q	µg/Kg	10	3/23/2006 1:51:00 PM
2-Chlorotoluene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
2-Hexanone	71.3	20.0		µg/Kg	1	3/22/2006 4:52:00 PM
4-Chlorotoluene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
4-Isopropyltoluene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
4-Methyl-2-pentanone	87.6	20.0		µg/Kg	1	3/22/2006 4:52:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-4@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 4:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-08	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Acetone	11400	2500		µg/Kg	50	3/22/2006 12:28:00 PM
Benzene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Bromobenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
Bromochloromethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Bromodichloromethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Bromoform	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Bromomethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Carbon disulfide	68.4	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Carbon tetrachloride	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Chlorobenzene	11.0	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Chloroethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Chloroform	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Chloromethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
cis-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
cis-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Dibromochloromethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Dibromomethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Dichlorodifluoromethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Ethylbenzene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Hexachlorobutadiene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
Isopropylbenzene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
m,p-Xylene	37.5	20.0		µg/Kg	1	3/22/2006 4:52:00 PM
Methyl tert-butyl ether	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Methylene chloride	ND	50.0		µg/Kg	1	3/22/2006 4:52:00 PM
n-Butylbenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
n-Propylbenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
Naphthalene	180	100		µg/Kg	10	3/23/2006 1:51:00 PM
o-Xylene	21.8	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
sec-Butylbenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
Styrene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
tert-Butylbenzene	ND	100	Q	µg/Kg	10	3/23/2006 1:51:00 PM
Tetrachloroethene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Toluene	16.2	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
trans-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
trans-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Trichloroethene	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Trichlorofluoromethane	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Vinyl chloride	ND	10.0		µg/Kg	1	3/22/2006 4:52:00 PM
Surr: 1,2-Dichloroethane-d4	137	71.5-112	S	%REC	1	3/22/2006 4:52:00 PM
Surr: 4-Bromofluorobenzene	72.1	75.7-122	S	%REC	1	3/22/2006 4:52:00 PM
Surr: Dibromofluoromethane	117	64.3-124		%REC	1	3/22/2006 4:52:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-4@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 4:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-08	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Surr: Toluene-d8	129	74.9-120	S	%REC	1	3/22/2006 4:52:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-4@8
Lab Order:	0603087	**Collection Date:**	3/16/2006 4:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-09	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		**PER CLIENT**				Analyst: **ADM**
Hold	Hold			Date	1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-5@2.5
Lab Order: 0603087
Collection Date: 3/16/2006 5:10:00 PM
Project: City of Troutdale
Lab ID: 0603087-10
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **mkh**
Diesel	28600	332	A1	mg/Kg-dry	10	3/24/2006
Lube Oil	9810	1110	A2	mg/Kg-dry	10	3/24/2006
Surr: o-Terphenyl	358	50-150	S,MI	%REC	10	3/24/2006
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	14.4	1.19		mg/Kg	1	3/21/2006 2:59:58 PM
Barium	39.5	0.595		mg/Kg	1	3/21/2006 2:59:58 PM
Cadmium	0.161	0.0595		mg/Kg	1	3/21/2006 2:59:58 PM
Chromium	2.89	0.298		mg/Kg	1	3/21/2006 2:59:58 PM
Lead	24.5	1.19		mg/Kg	1	3/21/2006 2:59:58 PM
Selenium	ND	1.19		mg/Kg	1	3/21/2006 2:59:58 PM
Silver	ND	1.19		mg/Kg	1	3/21/2006 2:59:58 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	0.0336	0.0119		mg/Kg	1	3/21/2006
COLIFORM BACTERIA - SOLIDS		**EPA/503D**				Analyst: **jrp**
e. Coli	ND		HT	MPN/g-dry	1	3/21/2006
COLIFORM, FECAL		**SM9222D**				Analyst: **jrp**
Fecal Coliform	ND	44.2	HT	MPN/g-dry	10	3/21/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
1,2-Dichlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
1,3-Dichlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
1,4-Dichlorobenzene	2760	667		µg/Kg	1	3/22/2006 11:55:00 AM
2,4,5-Trichlorophenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
2,4,6-Trichlorophenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
2,4-Dichlorophenol	ND	2000		µg/Kg	1	3/22/2006 11:55:00 AM
2,4-Dimethylphenol	ND	2000		µg/Kg	1	3/22/2006 11:55:00 AM
2,4-Dinitrophenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
2,4-Dinitrotoluene	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
2,6-Dinitrotoluene	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
2-Chloronaphthalene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
2-Chlorophenol	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
2-Methylnaphthalene	1500	667		µg/Kg	1	3/22/2006 11:55:00 AM
2-Methylphenol	ND	1330		µg/Kg	1	3/22/2006 11:55:00 AM
2-Nitroaniline	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
2-Nitrophenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
3,3-Dichlorobenzidine	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
3-&4-Methylphenol	61700	26600		µg/Kg	8	3/22/2006 3:06:00 PM
3-Nitroaniline	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM

CLIENT: Kleinfelder, Inc. **Client Sample ID:** TP-5@2.5
Lab Order: 0603087 **Collection Date:** 3/16/2006 5:10:00 PM
Project: City of Troutdale
Lab ID: 0603087-10 **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
4,6-Dinitro-2-methylphenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
4-Bromophenyl phenyl ether	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
4-Chloro-3-methylphenol	ND	1330		µg/Kg	1	3/22/2006 11:55:00 AM
4-Chloroaniline	ND	2000		µg/Kg	1	3/22/2006 11:55:00 AM
4-Chlorophenyl phenyl ether	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
4-Nitroaniline	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
4-Nitrophenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
Acenaphthene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Acenaphthylene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Anthracene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Benz(a)anthracene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Benzo(a)pyrene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Benzo(b)fluoranthene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Benzo(g,h,i)perylene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Benzo(k)fluoranthene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Benzoic Acid	ND	6670		µg/Kg	1	3/22/2006 11:55:00 AM
Benzyl Alcohol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
Bis(2-chloroethoxy)methane	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Bis(2-chloroethyl)ether	ND	1330		µg/Kg	1	3/22/2006 11:55:00 AM
Bis(2-chloroisopropyl)ether	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Bis(2-ethylhexyl)phthalate	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Butyl benzyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Carbazole	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Chrysene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Di-n-butyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Di-n-octyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Dibenz(a,h)anthracene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Dibenzofuran	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Diethyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Dimethyl phthalate	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Fluoranthene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Fluorene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Hexachlorobenzene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Hexachlorobutadiene	ND	1330		µg/Kg	1	3/22/2006 11:55:00 AM
Hexachlorocyclopentadiene	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
Hexachloroethane	ND	1330		µg/Kg	1	3/22/2006 11:55:00 AM
Indeno(1,2,3-cd)pyrene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Isophorone	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
N-Nitrosodi-n-propylamine	ND	1330		µg/Kg	1	3/22/2006 11:55:00 AM
N-Nitrosodimethylamine	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
N-Nitrosodiphenylamine	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-5@2.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 5:10:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-10	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Naphthalene	21700	667		µg/Kg	1	3/22/2006 11:55:00 AM
Nitrobenzene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Pentachlorophenol	ND	3330		µg/Kg	1	3/22/2006 11:55:00 AM
Phenanthrene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Phenol	140000	10600		µg/Kg	8	3/22/2006 3:06:00 PM
Pyrene	ND	667		µg/Kg	1	3/22/2006 11:55:00 AM
Surr: 2,4,6-Tribromophenol	70.1	57.8-119		%REC	1	3/22/2006 11:55:00 AM
Surr: 2-Fluorobiphenyl	89.6	52.6-93.2		%REC	1	3/22/2006 11:55:00 AM
Surr: 2-Fluorophenol	74.3	40.7-111		%REC	1	3/22/2006 11:55:00 AM
Surr: 4-Terphenyl-d14	115	49.8-118		%REC	1	3/22/2006 11:55:00 AM
Surr: Nitrobenzene-d5	83.2	44.8-103		%REC	1	3/22/2006 11:55:00 AM
Surr: Phenol-d6	54.7	47.5-117		%REC	1	3/22/2006 11:55:00 AM
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
1,1,1,2-Tetrachloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,1,1-Trichloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,1,2,2-Tetrachloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,1,2-Trichloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,1-Dichloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,1-Dichloroethene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,1-Dichloropropene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2,3-Trichlorobenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2,3-Trichloropropane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2,4-Trichlorobenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2,4-Trimethylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2-Dibromo-3-chloropropane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2-Dibromoethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2-Dichlorobenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2-Dichloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,2-Dichloropropane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,3,5-Trimethylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,3-Dichlorobenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,3-Dichloropropane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
1,4-Dichlorobenzene	469	100		µg/Kg	10	3/22/2006 3:05:00 PM
2,2-Dichloropropane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
2-Butanone	201	200		µg/Kg	10	3/22/2006 3:05:00 PM
2-Chlorotoluene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
2-Hexanone	221	200		µg/Kg	10	3/22/2006 3:05:00 PM
4-Chlorotoluene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
4-Isopropyltoluene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
4-Methyl-2-pentanone	ND	200	Q	µg/Kg	10	3/22/2006 3:05:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-5@2.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 5:10:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-10	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Acetone	1260	500		µg/Kg	10	3/22/2006 3:05:00 PM
Benzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Bromobenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Bromochloromethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Bromodichloromethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Bromoform	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Bromomethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Carbon disulfide	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Carbon tetrachloride	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Chlorobenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Chloroethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Chloroform	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Chloromethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
cis-1,2-Dichloroethene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
cis-1,3-Dichloropropene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Dibromochloromethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Dibromomethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Dichlorodifluoromethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Ethylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Hexachlorobutadiene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Isopropylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
m,p-Xylene	ND	200	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Methyl tert-butyl ether	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Methylene chloride	ND	500	Q	µg/Kg	10	3/22/2006 3:05:00 PM
n-Butylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
n-Propylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Naphthalene	6400	5000		µg/Kg	500	3/24/2006 11:47:00 AM
o-Xylene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
sec-Butylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Styrene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
tert-Butylbenzene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Tetrachloroethene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Toluene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
trans-1,2-Dichloroethene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
trans-1,3-Dichloropropene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Trichloroethene	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Trichlorofluoromethane	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Vinyl chloride	ND	100	Q	µg/Kg	10	3/22/2006 3:05:00 PM
Surr: 1,2-Dichloroethane-d4	105	71.5-112		%REC	10	3/22/2006 3:05:00 PM
Surr: 4-Bromofluorobenzene	109	75.7-122		%REC	10	3/22/2006 3:05:00 PM
Surr: Dibromofluoromethane	102	64.3-124		%REC	10	3/22/2006 3:05:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-5@2.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 5:10:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-10	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Surr: Toluene-d8	107	74.9-120		%REC	10	3/22/2006 3:05:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-5@5.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 5:10:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-11	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		**PER CLIENT**				Analyst: **ADM**
Hold	Hold			Date	1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Lab Order: 0603087
Project: City of Troutdale
Lab ID: 0603087-12

Client Sample ID: TP-6@3
Collection Date: 3/16/2006 5:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		**NWHCID**				Analyst: **mkh**
Gasoline	ND	23.4		mg/Kg-dry	1	3/24/2006
Mineral Spirits	ND	23.4		mg/Kg-dry	1	3/24/2006
Kerosene	ND	58.6		mg/Kg-dry	1	3/24/2006
Diesel	ND	58.6		mg/Kg-dry	1	3/24/2006
Lube Oil	ND	117		mg/Kg-dry	1	3/24/2006
Surr: BFB	62.3	50-150		%REC	1	3/24/2006
Surr: o-Terphenyl	85.7	50-150		%REC	1	3/24/2006
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	2.33	1.75		mg/Kg	1	3/21/2006 3:04:52 PM
Barium	28.8	0.877		mg/Kg	1	3/21/2006 3:04:52 PM
Cadmium	ND	0.0877		mg/Kg	1	3/21/2006 3:04:52 PM
Chromium	9.77	0.439		mg/Kg	1	3/21/2006 3:04:52 PM
Lead	14.9	1.75		mg/Kg	1	3/21/2006 3:04:52 PM
Selenium	ND	1.75		mg/Kg	1	3/21/2006 3:04:52 PM
Silver	ND	1.75		mg/Kg	1	3/21/2006 3:04:52 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	0.0198	0.0132		mg/Kg	1	3/21/2006

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-7@7.5
Lab Order: 0603087
Collection Date: 3/16/2006 5:50:00 PM
Project: City of Troutdale
Lab ID: 0603087-13
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		**NWHCID**				Analyst: **mkh**
Gasoline	ND	22.8		mg/Kg-dry	1	3/24/2006
Mineral Spirits	ND	22.8		mg/Kg-dry	1	3/24/2006
Kerosene	ND	56.9		mg/Kg-dry	1	3/24/2006
Diesel	ND	56.9		mg/Kg-dry	1	3/24/2006
Lube Oil	ND	114		mg/Kg-dry	1	3/24/2006
Surr: BFB	67.9	50-150		%REC	1	3/24/2006
Surr: o-Terphenyl	87.6	50-150		%REC	1	3/24/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
1,2-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
1,3-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
1,4-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
2,4,5-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
2,4,6-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
2,4-Dichlorophenol	ND	200		µg/Kg	1	3/21/2006 8:32:00 PM
2,4-Dimethylphenol	ND	200		µg/Kg	1	3/21/2006 8:32:00 PM
2,4-Dinitrophenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
2,4-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
2,6-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
2-Chloronaphthalene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
2-Chlorophenol	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
2-Methylnaphthalene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
2-Methylphenol	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
2-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
2-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
3,3-Dichlorobenzidine	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
3-&4-Methylphenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
3-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
4,6-Dinitro-2-methylphenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
4-Bromophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
4-Chloro-3-methylphenol	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
4-Chloroaniline	ND	200		µg/Kg	1	3/21/2006 8:32:00 PM
4-Chlorophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
4-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
4-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
Acenaphthene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Acenaphthylene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Anthracene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Benz(a)anthracene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Benzo(a)pyrene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-7@7.5
Lab Order: 0603087
Collection Date: 3/16/2006 5:50:00 PM
Project: City of Troutdale
Lab ID: 0603087-13
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Benzo(b)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Benzo(g,h,i)perylene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Benzo(k)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Benzoic Acid	ND	667		µg/Kg	1	3/21/2006 8:32:00 PM
Benzyl Alcohol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
Bis(2-chloroethoxy)methane	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Bis(2-chloroethyl)ether	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
Bis(2-chloroisopropyl)ether	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Bis(2-ethylhexyl)phthalate	1150	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Butyl benzyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Carbazole	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Chrysene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Di-n-butyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Di-n-octyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Dibenz(a,h)anthracene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Dibenzofuran	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Diethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Dimethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Fluorene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Hexachlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Hexachlorobutadiene	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
Hexachlorocyclopentadiene	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
Hexachloroethane	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Isophorone	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
N-Nitrosodi-n-propylamine	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
N-Nitrosodimethylamine	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
N-Nitrosodiphenylamine	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Naphthalene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Nitrobenzene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Pentachlorophenol	ND	333		µg/Kg	1	3/21/2006 8:32:00 PM
Phenanthrene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Phenol	ND	133		µg/Kg	1	3/21/2006 8:32:00 PM
Pyrene	ND	66.7		µg/Kg	1	3/21/2006 8:32:00 PM
Surr: 2,4,6-Tribromophenol	29.0	57.8-119	S,MI	%REC	1	3/21/2006 8:32:00 PM
Surr: 2-Fluorobiphenyl	24.4	52.6-93.2	S,MI	%REC	1	3/21/2006 8:32:00 PM
Surr: 2-Fluorophenol	41.8	40.7-111		%REC	1	3/21/2006 8:32:00 PM
Surr: 4-Terphenyl-d14	68.0	49.8-118		%REC	1	3/21/2006 8:32:00 PM
Surr: Nitrobenzene-d5	33.7	44.8-103	S,MI	%REC	1	3/21/2006 8:32:00 PM
Surr: Phenol-d6	41.0	47.5-117	S,MI	%REC	1	3/21/2006 8:32:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-7@7.5
Lab Order: 0603087
Collection Date: 3/16/2006 5:50:00 PM
Project: City of Troutdale
Lab ID: 0603087-13
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
1,1,1,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,1,1-Trichloroethane	6270	500		µg/Kg	50	3/22/2006 11:54:00 AM
1,1,2,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,1,2-Trichloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,1-Dichloroethane	256	100		µg/Kg	10	3/22/2006 11:20:00 AM
1,1-Dichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,1-Dichloropropene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2,3-Trichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2,3-Trichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2,4-Trichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2,4-Trimethylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2-Dibromo-3-chloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2-Dibromoethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2-Dichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2-Dichloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,2-Dichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,3,5-Trimethylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,3-Dichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,3-Dichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
1,4-Dichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
2,2-Dichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
2-Butanone	ND	20.0		µg/Kg	1	3/21/2006 5:24:00 PM
2-Chlorotoluene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
2-Hexanone	ND	20.0		µg/Kg	1	3/21/2006 5:24:00 PM
4-Chlorotoluene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
4-Isopropyltoluene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/Kg	1	3/21/2006 5:24:00 PM
Acetone	ND	50.0		µg/Kg	1	3/21/2006 5:24:00 PM
Benzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Bromobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Bromochloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Bromodichloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Bromoform	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Bromomethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Carbon disulfide	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Carbon tetrachloride	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Chlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Chloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Chloroform	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Chloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
cis-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-7@7.5
Lab Order: 0603087
Collection Date: 3/16/2006 5:50:00 PM
Project: City of Troutdale
Lab ID: 0603087-13
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
cis-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Dibromochloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Dibromomethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Dichlorodifluoromethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Ethylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Hexachlorobutadiene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Isopropylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
m,p-Xylene	ND	20.0		µg/Kg	1	3/21/2006 5:24:00 PM
Methyl tert-butyl ether	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Methylene chloride	ND	50.0		µg/Kg	1	3/21/2006 5:24:00 PM
n-Butylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
n-Propylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Naphthalene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
o-Xylene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
sec-Butylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Styrene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
tert-Butylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Tetrachloroethene	37.1	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Toluene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
trans-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
trans-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Trichloroethene	78.2	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Trichlorofluoromethane	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Vinyl chloride	ND	10.0		µg/Kg	1	3/21/2006 5:24:00 PM
Surr: 1,2-Dichloroethane-d4	98.2	71.5-112		%REC	1	3/21/2006 5:24:00 PM
Surr: 4-Bromofluorobenzene	101	75.7-122		%REC	1	3/21/2006 5:24:00 PM
Surr: Dibromofluoromethane	115	64.3-124		%REC	1	3/21/2006 5:24:00 PM
Surr: Toluene-d8	106	74.9-120		%REC	1	3/21/2006 5:24:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-8@3.5
Lab Order:	0603087	**Collection Date:**	3/16/2006 6:45:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-14	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		**NWHCID**				Analyst: **mkh**
Gasoline	ND	23.7		mg/Kg-dry	1	3/24/2006
Mineral Spirits	ND	23.7		mg/Kg-dry	1	3/24/2006
Kerosene	ND	59.3		mg/Kg-dry	1	3/24/2006
Diesel	ND	59.3		mg/Kg-dry	1	3/24/2006
Lube Oil	ND	119		mg/Kg-dry	1	3/24/2006
Surr: BFB	78.0	50-150		%REC	1	3/24/2006
Surr: o-Terphenyl	88.7	50-150		%REC	1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-9@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 6:30:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-15	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		**NWHCID**				Analyst: **mkh**
Gasoline	ND	23.4		mg/Kg-dry	1	3/24/2006
Mineral Spirits	ND	23.4		mg/Kg-dry	1	3/24/2006
Kerosene	ND	58.5		mg/Kg-dry	1	3/24/2006
Diesel	ND	58.5		mg/Kg-dry	1	3/24/2006
Lube Oil	ND	117		mg/Kg-dry	1	3/24/2006
Surr: BFB	70.0	50-150		%REC	1	3/24/2006
Surr: o-Terphenyl	88.3	50-150		%REC	1	3/24/2006

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-10@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 6:20:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-16	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-HCID		**NWHCID**				Analyst: **mkh**
Gasoline	ND	25.2		mg/Kg-dry	1	3/24/2006
Mineral Spirits	ND	25.2		mg/Kg-dry	1	3/24/2006
Kerosene	ND	63.0		mg/Kg-dry	1	3/24/2006
Diesel	ND	63.0		mg/Kg-dry	1	3/24/2006
Lube Oil	Lube Oil	126		mg/Kg-dry	1	3/24/2006
Surr: BFB	71.2	50-150		%REC	1	3/24/2006
Surr: o-Terphenyl	104	50-150		%REC	1	3/24/2006
NWTPH-DX		**NWTPH-DX**				Analyst: **mkh**
Diesel	30.1	18.9	A1	mg/Kg-dry	1	3/24/2006
Lube Oil	141	63.0	A2	mg/Kg-dry	1	3/24/2006
Surr: o-Terphenyl	94.3	50-150		%REC	1	3/24/2006
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	ND	1.64		mg/Kg	1	3/21/2006 3:09:47 PM
Barium	20.9	0.820		mg/Kg	1	3/21/2006 3:09:47 PM
Cadmium	ND	0.0820		mg/Kg	1	3/21/2006 3:09:47 PM
Chromium	4.46	0.410		mg/Kg	1	3/21/2006 3:09:47 PM
Lead	7.88	1.64		mg/Kg	1	3/21/2006 3:09:47 PM
Selenium	ND	1.64		mg/Kg	1	3/21/2006 3:09:47 PM
Silver	ND	1.64		mg/Kg	1	3/21/2006 3:09:47 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	0.0280	0.0135		mg/Kg	1	3/21/2006
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
1,2-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
1,3-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
1,4-Dichlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
2,4,5-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
2,4,6-Trichlorophenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
2,4-Dichlorophenol	ND	200		µg/Kg	1	3/21/2006 9:36:00 PM
2,4-Dimethylphenol	ND	200		µg/Kg	1	3/21/2006 9:36:00 PM
2,4-Dinitrophenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
2,4-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
2,6-Dinitrotoluene	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
2-Chloronaphthalene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
2-Chlorophenol	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
2-Methylnaphthalene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
2-Methylphenol	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
2-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
2-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-10@5
Lab Order: 0603087
Collection Date: 3/16/2006 6:20:00 PM
Project: City of Troutdale
Lab ID: 0603087-16
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
3,3-Dichlorobenzidine	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
3-&4-Methylphenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
3-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
4,6-Dinitro-2-methylphenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
4-Bromophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
4-Chloro-3-methylphenol	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
4-Chloroaniline	ND	200		µg/Kg	1	3/21/2006 9:36:00 PM
4-Chlorophenyl phenyl ether	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
4-Nitroaniline	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
4-Nitrophenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
Acenaphthene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Acenaphthylene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Anthracene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Benz(a)anthracene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Benzo(a)pyrene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Benzo(b)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Benzo(g,h,i)perylene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Benzo(k)fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Benzoic Acid	678	667		µg/Kg	1	3/21/2006 9:36:00 PM
Benzyl Alcohol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
Bis(2-chloroethoxy)methane	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Bis(2-chloroethyl)ether	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
Bis(2-chloroisopropyl)ether	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Bis(2-ethylhexyl)phthalate	6090	267		µg/Kg	4	3/22/2006 8:47:00 AM
Butyl benzyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Carbazole	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Chrysene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Di-n-butyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Di-n-octyl phthalate	284	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Dibenz(a,h)anthracene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Dibenzofuran	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Diethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Dimethyl phthalate	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Fluoranthene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Fluorene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Hexachlorobenzene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Hexachlorobutadiene	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
Hexachlorocyclopentadiene	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
Hexachloroethane	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Isophorone	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-10@5
Lab Order: 0603087
Collection Date: 3/16/2006 6:20:00 PM
Project: City of Troutdale
Lab ID: 0603087-16
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
N-Nitrosodi-n-propylamine	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
N-Nitrosodimethylamine	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
N-Nitrosodiphenylamine	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Naphthalene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Nitrobenzene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Pentachlorophenol	ND	333		µg/Kg	1	3/21/2006 9:36:00 PM
Phenanthrene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Phenol	ND	133		µg/Kg	1	3/21/2006 9:36:00 PM
Pyrene	ND	66.7		µg/Kg	1	3/21/2006 9:36:00 PM
Surr: 2,4,6-Tribromophenol	28.8	57.8-119	S,MI	%REC	1	3/21/2006 9:36:00 PM
Surr: 2-Fluorobiphenyl	25.0	52.6-93.2	S,MI	%REC	1	3/21/2006 9:36:00 PM
Surr: 2-Fluorophenol	36.2	40.7-111	S,MI	%REC	1	3/21/2006 9:36:00 PM
Surr: 4-Terphenyl-d14	64.3	49.8-118		%REC	1	3/21/2006 9:36:00 PM
Surr: Nitrobenzene-d5	33.2	44.8-103	S,MI	%REC	1	3/21/2006 9:36:00 PM
Surr: Phenol-d6	45.4	47.5-117	S,MI	%REC	1	3/21/2006 9:36:00 PM
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
1,1,1,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,1,1-Trichloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,1,2,2-Tetrachloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,1,2-Trichloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,1-Dichloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,1-Dichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,1-Dichloropropene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2,3-Trichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2,3-Trichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2,4-Trichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2,4-Trimethylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2-Dibromo-3-chloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2-Dibromoethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2-Dichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2-Dichloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,2-Dichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,3,5-Trimethylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,3-Dichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,3-Dichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
1,4-Dichlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
2,2-Dichloropropane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
2-Butanone	ND	20.0		µg/Kg	1	3/21/2006 5:58:00 PM
2-Chlorotoluene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
2-Hexanone	ND	20.0		µg/Kg	1	3/21/2006 5:58:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT: Kleinfelder, Inc.
Client Sample ID: TP-10@5
Lab Order: 0603087
Collection Date: 3/16/2006 6:20:00 PM
Project: City of Troutdale
Lab ID: 0603087-16
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
4-Chlorotoluene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
4-Isopropyltoluene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/Kg	1	3/21/2006 5:58:00 PM
Acetone	ND	50.0		µg/Kg	1	3/21/2006 5:58:00 PM
Benzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Bromobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Bromochloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Bromodichloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Bromoform	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Bromomethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Carbon disulfide	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Carbon tetrachloride	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Chlorobenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Chloroethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Chloroform	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Chloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
cis-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
cis-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Dibromochloromethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Dibromomethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Dichlorodifluoromethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Ethylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Hexachlorobutadiene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Isopropylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
m,p-Xylene	ND	20.0		µg/Kg	1	3/21/2006 5:58:00 PM
Methyl tert-butyl ether	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Methylene chloride	93.8	50.0		µg/Kg	1	3/21/2006 5:58:00 PM
n-Butylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
n-Propylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Naphthalene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
o-Xylene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
sec-Butylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Styrene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
tert-Butylbenzene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Tetrachloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Toluene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
trans-1,2-Dichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
trans-1,3-Dichloropropene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Trichloroethene	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Trichlorofluoromethane	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM
Vinyl chloride	ND	10.0		µg/Kg	1	3/21/2006 5:58:00 PM

Specialty Analytical

Date: *02-May-06*

CLIENT:	Kleinfelder, Inc.	**Client Sample ID:**	TP-10@5
Lab Order:	0603087	**Collection Date:**	3/16/2006 6:20:00 PM
Project:	City of Troutdale		
Lab ID:	0603087-16	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Surr: 1,2-Dichloroethane-d4	98.5	71.5-112		%REC	1	3/21/2006 5:58:00 PM
Surr: 4-Bromofluorobenzene	101	75.7-122		%REC	1	3/21/2006 5:58:00 PM
Surr: Dibromofluoromethane	99.8	64.3-124		%REC	1	3/21/2006 5:58:00 PM
Surr: Toluene-d8	108	74.9-120		%REC	1	3/21/2006 5:58:00 PM

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	MBLK-15417	SampType:	MBLK	TestCode:	6010_S	Units:	mg/Kg	Prep Date:		Run ID:	TJAIRIS_060321A
Client ID:	ZZZZZ	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380693

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	2.00									
Barium	ND	1.00									
Cadmium	ND	0.100									
Chromium	ND	0.500									
Lead	ND	2.00									
Selenium	ND	2.00									
Silver	ND	2.00									

Sample ID	LCS-15417	SampType:	LCS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	TJAIRIS_060321A
Client ID:	ZZZZZ	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380694

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	96.98	2.00	100	0	97	85.1	107	0	0		
Barium	47.84	1.00	50	0	95.7	85.7	110	0	0		
Cadmium	4.84	0.100	5	0	96.8	87.2	109	0	0		
Chromium	24.13	0.500	25	0	96.5	84	113	0	0		
Lead	98.23	2.00	100	0	98.2	84.9	109	0	0		
Selenium	96.38	2.00	100	0	96.4	88.7	111	0	0		
Silver	49.62	2.00	50	0	99.2	79.3	109	0	0		

Sample ID	0603087-03AMS	SampType:	MS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	TJAIRIS_060321A
Client ID:	TP-1@5	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380689

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	90.19	1.92	96.15	0	93.8	86.1	109	0	0		
Barium	50.92	0.962	48.08	5.02	95.5	75	125	0	0		
Cadmium	4.471	0.0962	4.808	0	93	86.4	113	0	0		
Chromium	27.96	0.481	24.04	4.912	95.9	75	121	0	0		
Lead	89.37	1.92	96.15	1.873	91	84.9	109	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	0603087-03AMS	SampType:	MS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	TJAIRIS_060321A
Client ID:	TP-1@5	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380689

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	88.96	1.92	96.15	0	92.5	77.7	116	0	0		
Silver	45.38	1.92	48.08	0	94.4	75	123	0	0		

Sample ID	0603087-03AMSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	TJAIRIS_060321A
Client ID:	TP-1@5	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380690

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	90.92	1.89	94.34	0	96.4	86.1	109	90.19	0.798	20	
Barium	52.86	0.943	47.17	5.02	101	75	125	50.92	3.73	20	
Cadmium	4.509	0.0943	4.717	0	95.6	86.4	113	4.471	0.853	20	
Chromium	27.55	0.472	23.58	4.912	96	75	121	27.96	1.49	20	
Lead	90.43	1.89	94.34	1.873	93.9	84.9	109	89.37	1.19	20	
Selenium	89.87	1.89	94.34	0	95.3	77.7	116	88.96	1.01	20	
Silver	45.3	1.89	47.17	0	96	75	123	45.38	0.161	20	

Sample ID	0603087-03ADUP	SampType:	DUP	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	TJAIRIS_060321A
Client ID:	TP-1@5	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380688

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.92	0	0	0	0	0	0	0	20	
Barium	5.183	0.962	0	0	0	0	0	5.02	3.20	20	
Cadmium	ND	0.0962	0	0	0	0	0	0	0	20	
Chromium	4.327	0.481	0	0	0	0	0	4.912	12.7	20	
Lead	ND	1.92	0	0	0	0	0	1.873	0	20	
Selenium	ND	1.92	0	0	0	0	0	0	0	20	
Silver	ND	1.92	0	0	0	0	0	0	0	20	

Sample ID	CCV	SampType:	CCV	TestCode:	6010_S	Units:	mg/Kg	Prep Date:		Run ID:	TJAIRIS_060321A
Client ID:	ZZZZZ	Batch ID:	15417	TestNo:	E6010			Analysis Date:	3/21/2006	SeqNo:	380686

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID **CCV** SampType: **CCV** TestCode: **6010_S** Units: **mg/Kg** Prep Date: Run ID: **TJAIRIS_060321A**
Client ID: **ZZZZZ** Batch ID: **15417** TestNo: **E6010** Analysis Date: **3/21/2006** SeqNo: **380686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	97.4	2.00	100	0	97.4	90	110	0	0		
Barium	48.71	1.00	50	0	97.4	90	110	0	0		
Cadmium	4.82	0.100	5	0	96.4	90	110	0	0		
Chromium	24.25	0.500	25	0	97	90	110	0	0		
Lead	99.31	2.00	100	0	99.3	90	110	0	0		
Selenium	96.57	2.00	100	0	96.6	90	110	0	0		
Silver	50.2	2.00	50	0	100	90	110	0	0		

Sample ID **CCV** SampType: **CCV** TestCode: **6010_S** Units: **mg/Kg** Prep Date: Run ID: **TJAIRIS_060321A**
Client ID: **ZZZZZ** Batch ID: **15417** TestNo: **E6010** Analysis Date: **3/21/2006** SeqNo: **380696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	98.51	2.00	100	0	98.5	90	110	0	0		
Barium	47.25	1.00	50	0	94.5	90	110	0	0		
Cadmium	4.83	0.100	5	0	96.6	90	110	0	0		
Chromium	23.78	0.500	25	0	95.1	90	110	0	0		
Lead	99.04	2.00	100	0	99	90	110	0	0		
Selenium	95.66	2.00	100	0	95.7	90	110	0	0		
Silver	48.87	2.00	50	0	97.7	90	110	0	0		

Sample ID **CCV** SampType: **CCV** TestCode: **6010_S** Units: **mg/Kg** Prep Date: Run ID: **TJAIRIS_060321A**
Client ID: **ZZZZZ** Batch ID: **15417** TestNo: **E6010** Analysis Date: **3/21/2006** SeqNo: **380701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	96.9	2.00	100	0	96.9	90	110	0	0		
Silver	48.88	2.00	50	0	97.8	90	110	0	0		

Sample ID **ICV** SampType: **ICV** TestCode: **6010_S** Units: **mg/Kg** Prep Date: Run ID: **TJAIRIS_060321A**
Client ID: **ZZZZZ** Batch ID: **15417** TestNo: **E6010** Analysis Date: **3/21/2006** SeqNo: **380675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID **ICV** SampType: **ICV** TestCode: **6010_S** Units: **mg/Kg** Prep Date: Run ID: **TJAIRIS_060321A**
Client ID: **ZZZZZ** Batch ID: **15417** TestNo: **E6010** Analysis Date: **3/21/2006** SeqNo: **380675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	103.6	2.00	100	0	104	90	110	0	0		
Barium	49.27	1.00	50	0	98.5	90	110	0	0		
Cadmium	5.09	0.100	5	0	102	90	110	0	0		
Chromium	24.78	0.500	25	0	99.1	90	110	0	0		
Lead	102.9	2.00	100	0	103	90	110	0	0		
Selenium	100.3	2.00	100	0	100	90	110	0	0		
Silver	50.62	2.00	50	0	101	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **MB** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973L_060320A**
Client ID: **ZZZZZ** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/21/2006** SeqNo: **380722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **MB** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973L_060320A**
Client ID: **ZZZZZ** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/21/2006** SeqNo: **380722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene chloride	ND	50.0									
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	ND	10.0									
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **MB** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973L_060320A**
Client ID: **ZZZZZ** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/21/2006** SeqNo: **380722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr:1,2-Dichloroethane-d4	98.96	0	100	0	99	71.5	112	0	0		
Surr:4-Bromofluorobenzene	102.2	0	100	0	102	75.7	122	0	0		
Surr:Dibromofluoromethane	96.66	0	100	0	96.7	64.3	124	0	0		
Surr: Toluene-d8	105.2	0	100	0	105	74.9	120	0	0		

Sample ID **LCS-15420** SampType: **LCS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973L_060320A**
Client ID: **ZZZZZ** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/21/2006** SeqNo: **380721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	67.77	10.0	60	0	113	65.4	133	0	0		
Benzene	64.56	10.0	60	0	108	78	123	0	0		
Chlorobenzene	61.49	10.0	60	0	102	79.5	125	0	0		
Toluene	63.01	10.0	60	0	105	77.5	132	0	0		
Trichloroethene	63.87	10.0	60	0	106	72.4	124	0	0		

Sample ID **0603087-05AMS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973L_060320A**
Client ID: **TP-3@2.5** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/21/2006** SeqNo: **380723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.7	10.0	20	0	73.5	69.2	158	0	0		
Benzene	16.07	10.0	20	0	80.4	71.7	147	0	0		
Chlorobenzene	13.9	10.0	20	0	69.5	75	148	0	0		S
Toluene	16.26	10.0	20	0	81.3	75.8	153	0	0		
Trichloroethene	14.91	10.0	20	0	74.6	77.1	138	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blan
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **0603087-05AMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973L_060320A**
Client ID: **TP-3@2.5** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/22/2006** SeqNo: **380923**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.06	10.0	20	0	75.3	69.2	158	14.7	2.42	20	
Benzene	17.16	10.0	20	0	85.8	71.7	147	16.07	6.56	20	
Chlorobenzene	16.63	10.0	20	0	83.2	75	148	13.9	17.9	20	
Toluene	17.75	10.0	20	0	88.8	75.8	153	16.26	8.76	20	
Trichloroethene	16.35	10.0	20	0	81.8	77.1	138	14.91	9.21	20	

Sample ID **CCV-15420** SampType: **CCV** TestCode: **8260_S** Units: **µg/Kg** Prep Date: Run ID: **5973L_060320A**
Client ID: **ZZZZZ** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/21/2006** SeqNo: **380720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	37.75	10.0	40	0	94.4	80	120	0	0		
1,2-Dichloropropane	37.58	10.0	40	0	94	80	120	0	0		
Chloroform	37.28	10.0	40	0	93.2	80	120	0	0		
Ethylbenzene	37.62	10.0	40	0	94.1	80	120	0	0		
Toluene	37.95	10.0	40	0	94.9	80	120	0	0		
Vinyl chloride	36.89	10.0	40	0	92.2	80	120	0	0		

Sample ID **CCV-15420** SampType: **CCV** TestCode: **8260_S** Units: **µg/Kg** Prep Date: Run ID: **5973L_060320A**
Client ID: **ZZZZZ** Batch ID: **15420** TestNo: **SW8260B** Analysis Date: **3/22/2006** SeqNo: **380920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	62.75	10.0	60	0	105	80	120	0	0		
1,2-Dichloropropane	65.78	10.0	60	0	110	80	120	0	0		
Chloroform	65.87	10.0	60	0	110	80	120	0	0		
Ethylbenzene	64.93	10.0	60	0	108	80	120	0	0		
Toluene	63.48	10.0	60	0	106	80	120	0	0		
Vinyl chloride	69.22	10.0	60	0	115	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	CCV-15420	SampType:	CCV	TestCode:	8260_S	Units:	µg/Kg	Prep Date:		Run ID:	5973L_060320A
Client ID:	ZZZZZ	Batch ID:	15420	TestNo:	SW8260B			Analysis Date:	3/23/2006	SeqNo:	381015

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.66	10.0	40	0	112	80	120	0	0		
1,2-Dichloropropane	40.49	10.0	40	0	101	80	120	0	0		
Chloroform	40.11	10.0	40	0	100	80	120	0	0		
Ethylbenzene	39.6	10.0	40	0	99	80	120	0	0		
Toluene	40.79	10.0	40	0	102	80	120	0	0		
Vinyl chloride	44.87	10.0	40	0	112	80	120	0	0		

Sample ID	CCV-15420	SampType:	CCV	TestCode:	8260_S	Units:	µg/Kg	Prep Date:		Run ID:	5973L_060320A
Client ID:	ZZZZZ	Batch ID:	15420	TestNo:	SW8260B			Analysis Date:	3/24/2006	SeqNo:	381237

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.04	10.0	40	0	110	80	120	0	0		
1,2-Dichloropropane	41.02	10.0	40	0	103	80	120	0	0		
Chloroform	40.26	10.0	40	0	101	80	120	0	0		
Ethylbenzene	39.86	10.0	40	0	99.7	80	120	0	0		
Toluene	40.4	10.0	40	0	101	80	120	0	0		
Vinyl chloride	42.42	10.0	40	0	106	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **MB-15415** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/20/2006** Run ID: **5973G_060321B**
Client ID: **ZZZZZ** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	66.7									
1,2-Dichlorobenzene	ND	66.7									
1,3-Dichlorobenzene	ND	66.7									
1,4-Dichlorobenzene	ND	66.7									
2,4,5-Trichlorophenol	ND	333									
2,4,6-Trichlorophenol	ND	333									
2,4-Dichlorophenol	ND	200									
2,4-Dimethylphenol	ND	200									
2,4-Dinitrophenol	ND	333									
2,4-Dinitrotoluene	ND	333									
2,6-Dinitrotoluene	ND	333									
2-Chloronaphthalene	ND	66.7									
2-Chlorophenol	ND	66.7									
2-Methylnaphthalene	ND	66.7									
2-Methylphenol	ND	133									
2-Nitroaniline	ND	333									
2-Nitrophenol	ND	333									
3,3-Dichlorobenzidine	ND	333									
3-&4-Methylphenol	ND	333									
3-Nitroaniline	ND	333									
4,6-Dinitro-2-methylphenol	ND	333									
4-Bromophenyl phenyl ether	ND	66.7									
4-Chloro-3-methylphenol	ND	133									
4-Chloroaniline	ND	200									
4-Chlorophenyl phenyl ether	ND	66.7									
4-Nitroaniline	ND	333									
4-Nitrophenol	ND	333									
Acenaphthene	ND	66.7									
Acenaphthylene	ND	66.7									
Anthracene	ND	66.7									
Benz(a)anthracene	ND	66.7									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **MB-15415** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/20/2006** Run ID: **5973G_060321B**
Client ID: **ZZZZZ** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	ND	66.7									
Benzo(b)fluoranthene	ND	66.7									
Benzo(g,h,i)perylene	ND	66.7									
Benzo(k)fluoranthene	ND	66.7									
Benzoic Acid	ND	667									
Benzyl Alcohol	ND	333									
Bis(2-chloroethoxy)methane	ND	66.7									
Bis(2-chloroethyl)ether	ND	133									
Bis(2-chloroisopropyl)ether	ND	66.7									
Bis(2-ethylhexyl)phthalate	ND	66.7									
Butyl benzyl phthalate	ND	66.7									
Carbazole	ND	66.7									
Chrysene	ND	66.7									
Di-n-butyl phthalate	ND	66.7									
Di-n-octyl phthalate	ND	66.7									
Dibenz(a,h)anthracene	ND	66.7									
Dibenzofuran	ND	66.7									
Diethyl phthalate	ND	66.7									
Dimethyl phthalate	ND	66.7									
Fluoranthene	ND	66.7									
Fluorene	ND	66.7									
Hexachlorobenzene	ND	66.7									
Hexachlorobutadiene	ND	133									
Hexachlorocyclopentadiene	ND	333									
Hexachloroethane	ND	133									
Indeno(1,2,3-cd)pyrene	ND	66.7									
Isophorone	ND	66.7									
N-Nitrosodi-n-propylamine	ND	133									
N-Nitrosodimethylamine	ND	66.7									
N-Nitrosodiphenylamine	ND	66.7									
Naphthalene	ND	66.7									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **MB-15415** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/20/2006** Run ID: **5973G_060321B**
Client ID: **ZZZZZ** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380665**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrobenzene	9.333	66.7									J
Pentachlorophenol	ND	333									
Phenanthrene	ND	66.7									
Phenol	ND	133									
Pyrene	ND	66.7									
Surr: 2,4,6-Tribromophenol	2102	0	3333	0	63.1	57.8	119	0	0		
Surr: 2-Fluorobiphenyl	2604	0	3333	0	78.1	52.6	93.2	0	0		
Surr: 2-Fluorophenol	2650	0	3333	0	79.5	40.7	111	0	0		
Surr: 4-Terphenyl-d14	2898	0	3333	0	86.9	49.8	118	0	0		
Surr: Nitrobenzene-d5	2785	0	3333	0	83.5	44.8	103	0	0		
Surr: Phenol-d6	2654	0	3333	0	79.6	47.5	117	0	0		

Sample ID **MB-15423** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **ZZZZZ** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	66.7									
1,2-Dichlorobenzene	ND	66.7									
1,3-Dichlorobenzene	ND	66.7									
1,4-Dichlorobenzene	ND	66.7									
2,4,5-Trichlorophenol	ND	333									
2,4,6-Trichlorophenol	ND	333									
2,4-Dichlorophenol	ND	200									
2,4-Dimethylphenol	ND	200									
2,4-Dinitrophenol	ND	333									
2,4-Dinitrotoluene	ND	333									
2,6-Dinitrotoluene	ND	333									
2-Chloronaphthalene	ND	66.7									
2-Chlorophenol	ND	66.7									
2-Methylnaphthalene	ND	66.7									
2-Methylphenol	ND	133									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **MB-15423** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **ZZZZZ** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Nitroaniline	ND	333									
2-Nitrophenol	ND	333									
3,3-Dichlorobenzidine	ND	333									
3-&4-Methylphenol	ND	333									
3-Nitroaniline	ND	333									
4,6-Dinitro-2-methylphenol	ND	333									
4-Bromophenyl phenyl ether	ND	66.7									
4-Chloro-3-methylphenol	ND	133									
4-Chloroaniline	ND	200									
4-Chlorophenyl phenyl ether	ND	66.7									
4-Nitroaniline	ND	333									
4-Nitrophenol	ND	333									
Acenaphthene	ND	66.7									
Acenaphthylene	ND	66.7									
Anthracene	ND	66.7									
Benz(a)anthracene	ND	66.7									
Benzo(a)pyrene	ND	66.7									
Benzo(b)fluoranthene	ND	66.7									
Benzo(g,h,i)perylene	ND	66.7									
Benzo(k)fluoranthene	ND	66.7									
Benzoic Acid	ND	667									
Benzyl Alcohol	ND	333									
Bis(2-chloroethoxy)methane	ND	66.7									
Bis(2-chloroethyl)ether	ND	133									
Bis(2-chloroisopropyl)ether	ND	66.7									
Bis(2-ethylhexyl)phthalate	ND	66.7									
Butyl benzyl phthalate	ND	66.7									
Carbazole	ND	66.7									
Chrysene	ND	66.7									
Di-n-butyl phthalate	ND	66.7									
Di-n-octyl phthalate	ND	66.7									

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **MB-15423** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **ZZZZZ** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	ND	66.7									
Dibenzofuran	ND	66.7									
Diethyl phthalate	ND	66.7									
Dimethyl phthalate	ND	66.7									
Fluoranthene	ND	66.7									
Fluorene	17.33	66.7									J
Hexachlorobenzene	ND	66.7									
Hexachlorobutadiene	ND	133									
Hexachlorocyclopentadiene	ND	333									
Hexachloroethane	ND	133									
Indeno(1,2,3-cd)pyrene	ND	66.7									
Isophorone	ND	66.7									
N-Nitrosodi-n-propylamine	ND	133									
N-Nitrosodimethylamine	ND	66.7									
N-Nitrosodiphenylamine	11.67	66.7									J
Naphthalene	ND	66.7									
Nitrobenzene	8.333	66.7									J
Pentachlorophenol	ND	333									
Phenanthrene	ND	66.7									
Phenol	ND	133									
Pyrene	ND	66.7									
Surr: 2,4,6-Tribromophenol	2537	0	3333	0	76.1	57.8	119	0	0		
Surr: 2-Fluorobiphenyl	2792	0	3333	0	83.8	52.6	93.2	0	0		
Surr: 2-Fluorophenol	2856	0	3333	0	85.7	40.7	111	0	0		
Surr: 4-Terphenyl-d14	2657	0	3333	0	79.7	49.8	118	0	0		
Surr: Nitrobenzene-d5	2921	0	3333	0	87.6	44.8	103	0	0		
Surr: Phenol-d6	2958	0	3333	0	88.8	47.5	117	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **LCS-15415** SampType: **LCS** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/20/2006** Run ID: **5973G_060321B**
Client ID: **ZZZZZ** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1206	66.7	1667	0	72.4	30.9	106	0	0		
1,4-Dichlorobenzene	1247	66.7	1667	0	74.8	31.4	98.2	0	0		
2,4-Dinitrotoluene	1443	333	1667	0	86.6	59.7	111	0	0		
2-Chlorophenol	1452	66.7	1667	0	87.1	46.2	105	0	0		
4-Chloro-3-methylphenol	1485	133	1667	0	89.1	47.4	114	0	0		
4-Nitrophenol	1398	333	1667	0	83.9	45.3	114	0	0		
Acenaphthene	1196	66.7	1667	0	71.8	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1341	133	1667	0	80.5	42.4	101	0	0		
Pentachlorophenol	890.3	333	1667	0	53.4	46.8	120	0	0		
Phenol	1400	133	1667	0	84	51.1	103	0	0		
Pyrene	1360	66.7	1667	0	81.6	56.7	130	0	0		

Sample ID **LCS-15423** SampType: **LCS** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **ZZZZZ** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1233	66.7	1667	0	74	30.9	106	0	0		
1,4-Dichlorobenzene	1279	66.7	1667	0	76.7	31.4	98.2	0	0		
2,4-Dinitrotoluene	1478	333	1667	0	88.7	59.7	111	0	0		
2-Chlorophenol	1486	66.7	1667	0	89.1	46.2	105	0	0		
4-Chloro-3-methylphenol	1589	133	1667	0	95.3	47.4	114	0	0		
4-Nitrophenol	1497	333	1667	0	89.8	45.3	114	0	0		
Acenaphthene	1224	66.7	1667	0	73.4	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1400	133	1667	0	84	42.4	101	0	0		
Pentachlorophenol	919	333	1667	0	55.1	46.8	120	0	0		
Phenol	1484	133	1667	0	89	51.1	103	0	0		
Pyrene	1238	66.7	1667	0	74.3	56.7	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **LCSD-15423** SampType: **LCSD** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **ZZZZZ** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380867**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1220	66.7	1667	0	73.2	30.9	106	1233	1.01	20	
1,4-Dichlorobenzene	1286	66.7	1667	0	77.1	31.4	98.2	1279	0.520	20	
2,4-Dinitrotoluene	1434	333	1667	0	86	59.7	111	1478	3.05	20	
2-Chlorophenol	1474	66.7	1667	0	88.5	46.2	105	1486	0.766	20	
4-Chloro-3-methylphenol	1560	133	1667	0	93.6	47.4	114	1589	1.82	20	
4-Nitrophenol	1328	333	1667	0	79.7	45.3	114	1497	11.9	20	
Acenaphthene	1210	66.7	1667	0	72.6	48.2	105	1224	1.10	20	
N-Nitrosodi-n-propylamine	1402	133	1667	0	84.1	42.4	101	1400	0.119	20	
Pentachlorophenol	844.7	333	1667	0	50.7	46.8	120	919	8.43	20	
Phenol	1470	133	1667	0	88.2	51.1	103	1484	0.948	20	
Pyrene	1196	66.7	1667	0	71.7	56.7	130	1238	3.48	20	

Sample ID **0603087-03AMS** SampType: **MS** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/20/2006** Run ID: **5973G_060321B**
Client ID: **TP-1@5** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1065	66.7	1667	0	63.9	31.1	92.7	0	0		
1,4-Dichlorobenzene	984.7	66.7	1667	0	59.1	16.5	85.6	0	0		
2,4-Dinitrotoluene	1300	333	1667	0	78	43.4	118	0	0		
2-Chlorophenol	1302	66.7	1667	0	78.1	36.8	103	0	0		
4-Chloro-3-methylphenol	1358	133	1667	0	81.5	49.5	119	0	0		
4-Nitrophenol	1294	333	1667	0	77.6	45	111	0	0		
Acenaphthene	1099	66.7	1667	0	65.9	45.1	102	0	0		
N-Nitrosodi-n-propylamine	1155	133	1667	0	69.3	45.6	94.1	0	0		
Pentachlorophenol	863.7	333	1667	0	51.8	36.6	112	0	0		
Phenol	1281	133	1667	0	76.9	37.7	107	0	0		
Pyrene	1154	66.7	1667	0	69.2	42.4	131	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **0603087-08AMS** SampType: **MS** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **TP-4@5** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	565.3	1070	1667	213.3	21.1	31.1	92.7	0	0		JSMI
1,4-Dichlorobenzene	762.7	1070	1667	793.3	-1.84	16.5	85.6	0	0		JSMI
2,4-Dinitrotoluene	181.3	5330	1667	80	6.08	43.4	118	0	0		JSMI
2-Chlorophenol	709.3	1070	1667	0	42.6	36.8	103	0	0		JMI
4-Chloro-3-methylphenol	602.7	2130	1667	0	36.2	49.5	119	0	0		JSMI
4-Nitrophenol	506.7	5330	1667	0	30.4	45	111	0	0		JSMI
Acenaphthene	480	1070	1667	0	28.8	45.1	102	0	0		JSMI
N-Nitrosodi-n-propylamine	672	2130	1667	106.7	33.9	45.6	94.1	0	0		JSMI
Pentachlorophenol	ND	5330	1667	0	0	36.6	112	0	0		SMI
Phenol	29550	2130	1667	65620	-2160	37.7	107	0	0		SMC
Pyrene	469.3	1070	1667	0	28.2	42.4	131	0	0		JSMI

Sample ID **0603087-03AMSD** SampType: **MSD** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/20/2006** Run ID: **5973G_060321B**
Client ID: **TP-1@5** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	654.3	66.7	1667	0	39.3	31.1	92.7	1065	47.8	20	R
1,4-Dichlorobenzene	541.3	66.7	1667	0	32.5	16.5	85.6	984.7	58.1	20	R
2,4-Dinitrotoluene	1061	333	1667	0	63.7	43.4	118	1300	20.2	20	R
2-Chlorophenol	920.7	66.7	1667	0	55.2	36.8	103	1302	34.3	20	R
4-Chloro-3-methylphenol	1070	133	1667	0	64.2	49.5	119	1358	23.7	20	R
4-Nitrophenol	1035	333	1667	0	62.1	45	111	1294	22.2	20	R
Acenaphthene	852	66.7	1667	0	51.1	45.1	102	1099	25.3	20	R
N-Nitrosodi-n-propylamine	826	133	1667	0	49.6	45.6	94.1	1155	33.2	20	R
Pentachlorophenol	648	333	1667	0	38.9	36.6	112	863.7	28.5	20	R
Phenol	982.3	133	1667	0	58.9	37.7	107	1281	26.4	20	R
Pyrene	951	66.7	1667	0	57.1	42.4	131	1154	19.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blan
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **0603087-08AMSD** SampType: **MSD** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **3/21/2006** Run ID: **5973G_060322B**
Client ID: **TP-4@5** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	746.7	5340	1667	213.3	32	31.1	92.7	565.3	0	20	JMI
1,4-Dichlorobenzene	ND	5340	1667	793.3	-47.6	16.5	85.6	762.7	0	20	SMI
2,4-Dinitrotoluene	373.3	26600	1667	80	17.6	43.4	118	181.3	0	20	JSMI
2-Chlorophenol	ND	5340	1667	0	0	36.8	103	709.3	0	20	SMI
4-Chloro-3-methylphenol	906.7	10600	1667	0	54.4	49.5	119	602.7	0	20	JMI
4-Nitrophenol	ND	26600	1667	0	0	45	111	506.7	0	20	SMI
Acenaphthene	693.3	5340	1667	0	41.6	45.1	102	480	0	20	JSMI
N-Nitrosodi-n-propylamine	773.3	10600	1667	106.7	40	45.6	94.1	672	0	20	JSMI
Pentachlorophenol	ND	26600	1667	0	0	36.6	112	0	0	20	SMC
Phenol	77970	10600	1667	65620	741	37.7	107	29550	90.1	20	SRMI
Pyrene	ND	5340	1667	0	0	42.4	131	469.3	0	20	S

Sample ID **CCV-15415** SampType: **CCV** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: Run ID: **5973G_060321B**
Client ID: **ZZZZZ** Batch ID: **15415** TestNo: **SW8270D** Analysis Date: **3/21/2006** SeqNo: **380664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1678	66.7	1667	0	101	80	120	0	0		
2,4,6-Trichlorophenol	1725	333	1667	0	104	80	120	0	0		
2,4-Dichlorophenol	1766	200	1667	0	106	80	120	0	0		
2-Nitrophenol	1911	333	1667	0	115	80	120	0	0		
4-Chloro-3-methylphenol	1875	133	1667	0	113	80	120	0	0		
Acenaphthene	1633	66.7	1667	0	98	80	120	0	0		
Benzo(a)pyrene	1974	66.7	1667	0	118	80	120	0	0		
Di-n-octylphthalate	1769	66.7	1667	0	106	80	120	0	0		
Fluoranthene	1778	66.7	1667	0	107	80	120	0	0		
Hexachlorobutadiene	1546	133	1667	0	92.7	80	120	0	0		
N-Nitrosodiphenylamine	1683	66.7	1667	0	101	80	120	0	0		
Pentachlorophenol	1432	333	1667	0	85.9	80	120	0	0		
Phenol	1797	133	1667	0	108	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **CCV-15423** SampType: **CCV** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: Run ID: **5973G_060322B**
Client ID: **ZZZZZ** Batch ID: **15423** TestNo: **SW8270D** Analysis Date: **3/22/2006** SeqNo: **380864**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1696	66.7	1667	0	102	80	120	0	0		
2,4,6-Trichlorophenol	1648	333	1667	0	98.9	80	120	0	0		
2,4-Dichlorophenol	1816	200	1667	0	109	80	120	0	0		
2-Nitrophenol	1928	333	1667	0	116	80	120	0	0		
4-Chloro-3-methylphenol	1936	133	1667	0	116	80	120	0	0		
Acenaphthene	1593	66.7	1667	0	95.6	80	120	0	0		
Benzo(a)pyrene	1991	66.7	1667	0	119	80	120	0	0		
Di-n-octylphthalate	1735	66.7	1667	0	104	80	120	0	0		
Fluoranthene	1793	66.7	1667	0	108	80	120	0	0		
Hexachlorobutadiene	1461	133	1667	0	87.7	80	120	0	0		
N-Nitrosodiphenylamine	1657	66.7	1667	0	99.4	80	120	0	0		
Pentachlorophenol	1414	333	1667	0	84.8	80	120	0	0		
Phenol	1899	133	1667	0	114	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: HCID_NW

Sample ID	MBLK	SampType:	MBLK	TestCode:	HCID_NW	Units:	mg/Kg	Prep Date:	3/20/2006	Run ID:	GC-M_060324E
Client ID:	ZZZZZ	Batch ID:	15413	TestNo:	NWHCID			Analysis Date:	3/24/2006	SeqNo:	381379

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	20.0									
Mineral Spirits	ND	20.0									
Kerosene	ND	50.0									
Diesel	ND	50.0									
Lube Oil	ND	100									
Surr: BFB	93.7	0	100	0	93.7	50	150	0	0		
Surr: o-Terphenyl	97.9	0	100	0	97.9	50	150	0	0		

Sample ID	0603087-12ADUP	SampType:	DUP	TestCode:	HCID_NW	Units:	mg/Kg-dry	Prep Date:	3/20/2006	Run ID:	GC-M_060324E
Client ID:	TP-6@3	Batch ID:	15413	TestNo:	NWHCID			Analysis Date:	3/24/2006	SeqNo:	381381

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	23.4	0	0	0	0	0	0	0		
Mineral Spirits	ND	23.4	0	0	0	0	0	0	0		
Kerosene	ND	58.6	0	0	0	0	0	0	0		
Diesel	ND	58.6	0	0	0	0	0	0	0		
Lube Oil	ND	117	0	0	0	0	0	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID	MB-15419	SampType:	MBLK	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	CVAA_060321A
Client ID:	ZZZZZ	Batch ID:	15419	TestNo:	SW7471			Analysis Date:	3/21/2006	SeqNo:	380617

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0167									

Sample ID	LCS-15419	SampType:	LCS	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	CVAA_060321A
Client ID:	ZZZZZ	Batch ID:	15419	TestNo:	SW7471			Analysis Date:	3/21/2006	SeqNo:	380616

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2108	0.0167	0.208	0	101	88.2	113	0	0		

Sample ID	0603087-04AMS	SampType:	MS	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	CVAA_060321A
Client ID:	TP-2@4.5	Batch ID:	15419	TestNo:	SW7471			Analysis Date:	3/21/2006	SeqNo:	380608

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2179	0.0157	0.195	0.002902	110	78.1	125	0	0		

Sample ID	0603087-04AMSD	SampType:	MSD	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	CVAA_060321A
Client ID:	TP-2@4.5	Batch ID:	15419	TestNo:	SW7471			Analysis Date:	3/21/2006	SeqNo:	380609

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.196	0.0162	0.2013	0.002902	95.9	78.1	125	0.2179	10.6	20	

Sample ID	0603087-04ADUP	SampType:	DUP	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	CVAA_060321A
Client ID:	TP-2@4.5	Batch ID:	15419	TestNo:	SW7471			Analysis Date:	3/21/2006	SeqNo:	380607

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.001945	0.0157	0	0	0	0	0	0.002902	0	20	J

Sample ID	CCV	SampType:	CCV	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:		Run ID:	CVAA_060321A
Client ID:	ZZZZZ	Batch ID:	15419	TestNo:	SW7471			Analysis Date:	3/21/2006	SeqNo:	380615

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID **CCV**	SampType: **CCV**	TestCode: **HG_CTS**	Units: **mg/Kg**	Prep Date:			Run ID: **CVAA_060321A**		
Client ID: **ZZZZZ**	Batch ID: **15419**	TestNo: **SW7471**		Analysis Date: **3/21/2006**			SeqNo: **380615**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2165	0.0167	0.208	0	104	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID	**MBLK**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **3/20/2006**	Run ID: **GC-M_060322A**
Client ID:	**ZZZZZ**	Batch ID: **15406**	TestNo: **NWTPH-Dx**		Analysis Date: **3/22/2006**	SeqNo: **380929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	31.4	0	33.33	0	94.2	50	150	0	0		

Sample ID	**MBLK**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **3/22/2006**	Run ID: **GC-M_060323A**
Client ID:	**ZZZZZ**	Batch ID: **15429**	TestNo: **NWTPH-Dx**		Analysis Date: **3/23/2006**	SeqNo: **381065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	10.5	50.0									J
Surr: o-Terphenyl	30.53	0	33.33	0	91.6	50	150	0	0		

Sample ID	**MBLK**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **3/21/2006**	Run ID: **GC-M_060323B**
Client ID:	**ZZZZZ**	Batch ID: **15421**	TestNo: **NWTPH-Dx**		Analysis Date: **3/23/2006**	SeqNo: **381072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	29.43	0	33.33	0	88.3	50	150	0	0		

Sample ID	**LCS**	SampType: **LCS**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **3/20/2006**	Run ID: **GC-M_060322A**
Client ID:	**ZZZZZ**	Batch ID: **15406**	TestNo: **NWTPH-Dx**		Analysis Date: **3/22/2006**	SeqNo: **380930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	173.6	15.0	167	0	104	76.3	125	0	0		
Lube Oil	185.3	50.0	167	0	111	69.9	127	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID	LCS	SampType:	LCS	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:	3/22/2006	Run ID:	GC-M_060323A
Client ID:	ZZZZZ	Batch ID:	15429	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381066

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	163.7	15.0	167	0	98	76.3	125	0	0		
Lube Oil	189.3	50.0	167	10.5	107	69.9	127	0	0		

Sample ID	LCS	SampType:	LCS	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:	3/21/2006	Run ID:	GC-M_060323B
Client ID:	ZZZZZ	Batch ID:	15421	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381073

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	180	15.0	167	0	108	76.3	125	0	0		
Lube Oil	213	50.0	167	0	128	69.9	127	0	0		SC

Sample ID	0603084-02ADUP	SampType:	DUP	TestCode:	NWTPHDX_S	Units:	mg/Kg-dry	Prep Date:	3/20/2006	Run ID:	GC-M_060322A
Client ID:	ZZZZZ	Batch ID:	15406	TestNo:	NWTPH-Dx			Analysis Date:	3/22/2006	SeqNo:	380934

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	20.2	0	0	0	0	0	0	0	20	
Lube Oil	ND	67.5	0	0	0	0	0	0	0	20	

Sample ID	0603097-01ADUP	SampType:	DUP	TestCode:	NWTPHDX_S	Units:	mg/Kg-dry	Prep Date:	3/22/2006	Run ID:	GC-M_060323A
Client ID:	ZZZZZ	Batch ID:	15429	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381069

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1115	17.5	0	0	0	0	0	1157	3.73	20	
Lube Oil	58.28	58.3	0	0	0	0	0	52.06	0	20	J

Sample ID	0603092-02ADUP	SampType:	DUP	TestCode:	NWTPHDX_S	Units:	mg/Kg-dry	Prep Date:	3/21/2006	Run ID:	GC-M_060323B
Client ID:	ZZZZZ	Batch ID:	15421	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381077

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.4	0	0	0	0	0	0	0	20	
Lube Oil	10.78	51.2	0	0	0	0	0	13.34	0	20	J

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID	CCV	SampType:	CCV	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:		Run ID:	GC-M_060322A
Client ID:	ZZZZZ	Batch ID:	15406	TestNo:	NWTPH-Dx			Analysis Date:	3/22/2006	SeqNo:	380931

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	327.6	15.0	333.3	0	98.3	85	115	0	0		
Lube Oil	258.6	50.0	233.3	0	111	85	115	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:		Run ID:	GC-M_060322A
Client ID:	ZZZZZ	Batch ID:	15406	TestNo:	NWTPH-Dx			Analysis Date:	3/22/2006	SeqNo:	380940

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	685.6	15.0	666.6	0	103	85	115	0	0		
Lube Oil	375	50.0	333.3	0	112	85	115	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:		Run ID:	GC-M_060323A
Client ID:	ZZZZZ	Batch ID:	15429	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381067

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	744.9	15.0	799.9	0	93.1	85	115	0	0		
Lube Oil	356.3	50.0	333.3	0	107	85	115	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:		Run ID:	GC-M_060323A
Client ID:	ZZZZZ	Batch ID:	15429	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381071

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	374	15.0	400	0	93.5	85	115	0	0		
Lube Oil	296.3	50.0	266.6	0	111	85	115	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	NWTPHDX_S	Units:	mg/Kg	Prep Date:		Run ID:	GC-M_060323B
Client ID:	ZZZZZ	Batch ID:	15421	TestNo:	NWTPH-Dx			Analysis Date:	3/23/2006	SeqNo:	381074

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	744.9	15.0	799.9	0	93.1	85	115	0	0		
Lube Oil	356	50.0	333.3	0	107	85	115	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

CLIENT: Kleinfelder, Inc.
Work Order: 0603087
Project: City of Troutdale

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDX_S

Sample ID **CCV** SampType: **CCV** TestCode: **NWTPHDX_S** Units: **mg/Kg** Prep Date: Run ID: **GC-M_060323B**
Client ID: **ZZZZZ** Batch ID: **15421** TestNo: **NWTPH-Dx** Analysis Date: **3/23/2006** SeqNo: **381078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	374	15.0	400	0	93.5	85	115	0	0		
Lube Oil	296.3	50.0	266.6	0	111	85	115	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

KEY TO FLAGS

A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.

A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.

A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.

A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.

B The blank exhibited a positive result greater than the reporting limit for this compound.

CN See Case Narrative.

D Result is based from a dilution.

E Result exceeds the calibration range for this compound. The result should be considered as estimate.

F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.

H Sample was analyzed outside recommended hold time.

HT At clients request, sample was analyzed outside recommended hold time.

J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.

K Diesel result is biased high due to amount of Oil contained in the sample.

L Diesel result is biased high due to amount of Gasoline contained in the sample.

M Oil result is biased high due to amount of Diesel contained in the sample.

N Gasoline result is biased high due to amount of Diesel contained in the sample.

MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.

MI Result is outside control limits due to matrix interference.

MSA Value determined by Method of Standard Addition.

O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.

P Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.

Q Detection levels elevated due to sample matrix.

R RPD control limits were exceeded.

RF Duplicate failed due to result being at or near the method-reporting limit.

RP Matrix spike values exceed established QC limits, post digestion spike is in control.

S Recovery is outside control limits.

SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.

* The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

BioVir Laboratories, Inc.

NELAC #05234CA
EPA ID #01401, CA-ELAP # 1795

685 Stone Road, Unit 6 · Benicia, CA 94510 · (707) 747-5906 · 1-800-GIARDIA · FAX (707) 747-1751 · WEB: www.biovir.com

REPORT OF SAMPLE EVALUATION

REPORT NO.: 060502-1

PAGE NO.: 1 of 1

CLIENT ADDRESS: Specialty Analytical
19761 S. W. 95th Avenue
Tualatin, OR 97062

CLIENT NO.: SPE003

SAMPLE INFORMATION:

Name of Sampler:	Dominic Norman	Sample Date:	03/16/06
Sample Source:	BioSolids	Sample Time:	11:53
Sample ID#:	0603087-03	Sample Volume (Wet Weight):	595 Grams
		Comments:	Analyze past hold time.

Sample Received Date: 03/21/06
Sample Received Time: 08:45
Sample Received Temp.: 8.3 C

ASSAY RESULTS:

1. Helminth Ova Assay: (EPA 600/1-87/014) <1 Viable Helminth Ova / 4 grams total solids.
Analysis Begun Date: 03/28/06 Time: 08:35 Analyst Initials: GW

2. Enteric Virus Assay: (ASTM D 4994-89) <1 PFU / 4 grams total solids.
Analysis Begun Date: 03/24/06 Time: 10:00 Analyst Initials: ES

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.

COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or otner material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or otherwise disposed.

MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period.

04.24.2006
COMPLETION DATE

SIGNATURE/DATE 04.27.2006
YB

CHAIN OF CUSTODY RECORD

Specialty Analytical

19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: Shawn Rapp
Company: Kleinfelder
Address: 15050 SW Koll Parkway
Beaverton, OR 97006
Phone: 503-644-9447 Fax: 503-643-1905
Project No.: _____ Project Name: City Trout Dace
Invoice To: _____ P.O. No.: _____

Collected By:
Signature: _____
Printed: Dominic Norman

Signature: _____
Printed: _____

Turn Around Time
☐ Normal
☐ Rush _____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. Q0030881
Shipped Via Specialty
Air Bill No. _____
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	RCRA 8 METALS*	SVOCs - 8270 M	NW TPH - HCID + NO	NW TPH - Dx	Fecal Coliform / E.Coli		ENTERIC VIRUSES	HETEROPHILIN DNA	VOCs - 8260 B	Comments	Lab I.D.
3/16/06	1020	HOT-N-7	SOIL	2			X	X						* BARIUM, CADMIUM,	
	1025	HOT-S-7		2			X	X						CHROMIUM, SILVER, MERCURY	
	1153	TP-1@5		2	X	X			X	X	X	X		LEAD, ARSENIC, SELENIUM	
	1215	TP-2@4.5		2	X	X									
	1240	TP-3@2.5		2	X	X							YES		
	1630	TP-4@2		2										HOLD	
	1630	TP-4@3		2										HOLD	
	1630	TP-4@5		2	X	X		X	X	X			X		
	1630	TP-4@8		2										HOLD	
	1710	TP-5@2.5		1	X	X	X	X	X	X			X		
	1710	TP-5@5.5		2											

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time
Company: Kleinfelder	3/20/06	1015	Company: Specialty	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By: Nikki Sutton — Date: 3/20/06 — Time: 11:00

CHAIN OF CUSTODY RECORD

Specialty Analytical
19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: SHAWN RAPP
Company: Kleinfelder
Address: 15050 SW KOLL PARKWAY
BEAVERTON OR 97006
Phone: 503-644-9447 Fax: 503-643-1905
Project No.: _____ Project Name: _____
Invoice To: _____ P.O. No.: _____

Collected By:
Signature: _____
Printed: DOMINIC NORMAN

Signature: _____
Printed: _____

Turn Around Time
☐ Normal
☐ Rush _____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 0603087
Shipped Via Specialty
Air Bill No. —
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: HeID	SVOCs	RCRA 8	VOCs	Comments	Lab I.D.
3/16/06	1740	TP-6@3	Soil	2	X		X			
	1750	TP-7@7.5		2	X	X		X		
	1845	TP-8@3.5		2	X					
	1830	TP-9@5		2	X					
	1820	TP-10@5		2	X	X	X	X		

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time
Company: Kleinfelder	3/20/06	1015	Company: Specialty	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By:	Date	Time
Nikki Sutton	3/20/06	11:00